



EUROPEAN CENTRAL BANK



## **BLUE BOOK**

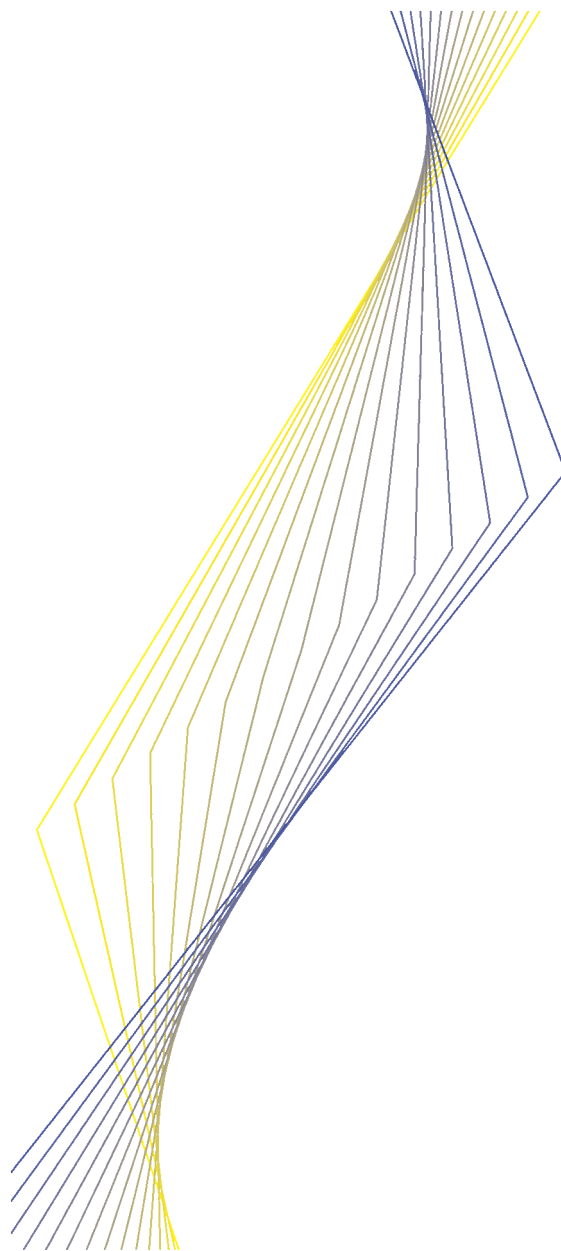
# **Payment and securities settlement systems in the European Union**

## **Addendum**

**July 2002**



EUROPEAN CENTRAL BANK



## **BLUE BOOK**

### **Payment and securities settlement systems in the European Union**

**Addendum incorporating  
2000 figures**

**July 2002**

© European Central Bank, 2002

Address	Kaiserstrasse 29 D-60311 Frankfurt am Main Germany
Postal address	Postfach 16 03 19 D-60066 Frankfurt am Main Germany
Telephone	+49 69 1344 0
Internet	<a href="http://www.ecb.int">http://www.ecb.int</a>
Fax	+49 69 1344 6000
Telex	411 144 ecb d

*The statistics in this Blue Book are published under the responsibility of the respective national central banks.*

*All rights reserved.*

*Reproduction for educational and non-commercial purposes is permitted provided that the source is acknowledged.*

ISBN 92-9181-311-7

# Contents

<b>Introduction</b>		5
<b>Statistical data</b>	1. Comparative tables	7
	2. Belgium	41
	3. Denmark	55
	4. Germany	65
	5. Greece	79
	6. Spain	89
	7. France	103
	8. Ireland	115
	9. Italy	125
	10. Luxembourg	139
	11. Netherlands	149
	12. Austria	161
	13. Portugal	173
	14. Finland	185
	15. Sweden	197
	16. United Kingdom	207
<b>Annexes</b>	Methodology for the statistical data	221
	Editorial Group members	233

In accordance with Community practice, countries are listed using the alphabetical order of the country names in the national languages.

#### **Conventions used in the statistical tables:**

nav: data not available  
nap: not applicable  
neg: very small data  
0: absolutely zero or none

#### **Country tables (1996–2000)**

For the 11 Member States which adopted the euro on 1 January 1999, figures have been converted into euro using the fixed conversion rates for all years, with the exception of Table 4, which is given both in euro and in the respective national currency.

For the other Member States, figures are presented in the respective national currency.

#### **Comparative tables (1996–2000)**

Figures have been converted into euro for all countries using the exchange rate shown in Table I of the respective country tables.



## Introduction

The European Central Bank (ECB), like any central bank, has a direct interest in the prudent design and management of the payment and securities clearing and settlement systems processing its currency. The smooth functioning of these systems is a crucial aspect of a sound currency and is essential to the conduct of monetary policy. These systems also have a significant bearing on the functioning of financial markets. Moreover, reliable and efficient payment systems are crucial to the maintenance of banking and financial stability. In this context, great attention is paid to the smooth operation of payment and securities clearing and settlement systems and instruments as well as to reducing the potential risks associated therewith.

In the light of the introduction of the euro and other developments which have triggered an advanced level of integration of EU payment systems, comprehensive information on these systems is of even greater importance today than it was previously. In June 2001 the ECB issued the third edition of the publication entitled "Payment and securities settlement systems in the European Union", also known as the Blue Book. It provides a comprehensive description of the main payment and securities clearing and settlement systems in the Member States of the European Union (EU), covering both the domestic and cross-border aspects of the systems.

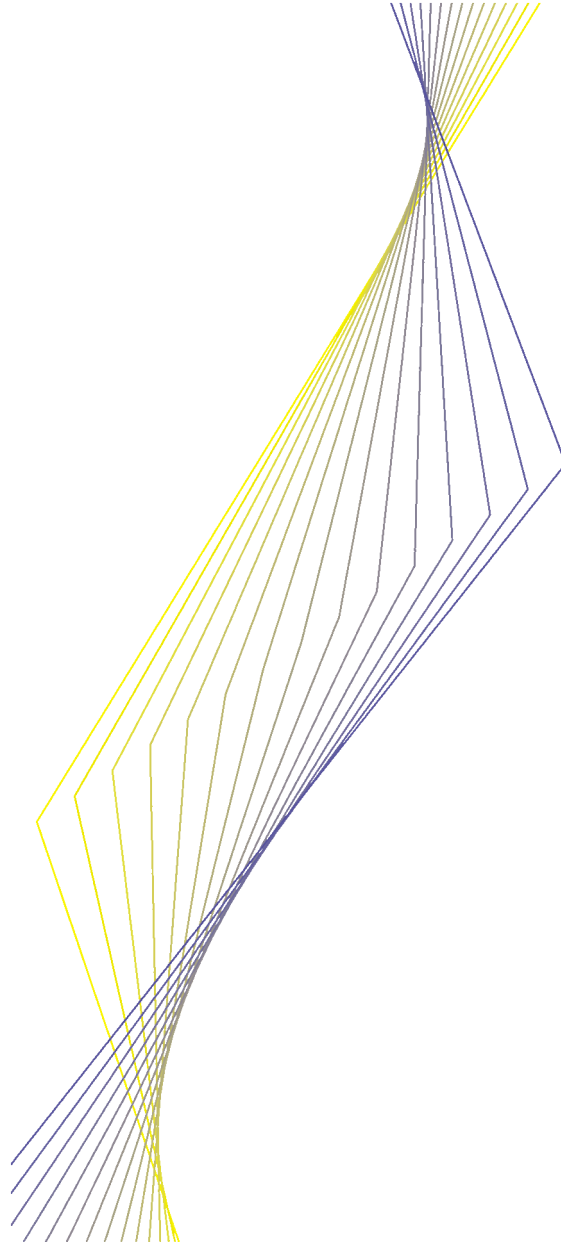
While the descriptive part is updated once every few years, the statistical data are updated every year. This "Blue Book Addendum" provides an update of the country data and comparative tables, including figures for the year 2000. The tables reflect the level of integration and convergence achieved in payment and securities clearing and settlement systems in the EU Member States while pointing to the remaining differences in

structure and variety. They also focus on the use of various payment instruments. In order to facilitate the international comparability of statistics on payment and securities clearing and settlement systems, the ECB, in co-operation with the Bank for International Settlements (BIS), has harmonised the structure and content of the tables contained in the Blue Book and in the BIS publication entitled "Statistics on payment and settlement systems in selected countries", also known as the Red Book. The annex explains the methodology used for collecting and calculating the statistical data.





EUROPEAN CENTRAL BANK



## **Comparative tables**

**July 2002**

*Figures have been converted into euro for all countries using the exchange rate shown in Table I of the respective country tables.*





**Table 1**  
**Banknotes and coins in circulation outside credit institutions**

(end of year)

	Total (EUR millions)				Value per inhabitant (EUR)				As a percentage of GDP (%)				As a percentage of narrow money (%)							
	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000
Belgium	13,714	12,391	12,179	12,001	11,869	1,350	1,217	1,194	1,174	1,158	5.1	5.1	4.8	5.1	4.8	27.5	26.5	23.8	20.4	19.3
Denmark	4,244	4,410	4,632	4,957	5,052	807	835	873	932	946	3.0	3.0	3.0	3.0	2.9	10.2	10.1	9.8	9.9	9.7
Germany	126,790	124,980	123,733	130,300	125,100	1,548	1,523	1,508	1,587	1,522	6.9	6.7	6.4	6.6	6.2	27.6	27.2	24.1	23.4	21.8
Greece	6,273	6,995	6,691	8,181	7,844	599	666	637	777	745	6.5	6.6	6.1	7.1	6.5	44.1	43.9	40.4	36.9	37.2
Spain <sup>1)</sup>	48,371	50,067	50,701	54,740	54,446	1,232	1,273	1,288	1,389	1,364	10.3	10.2	9.6	9.7	8.9	25.0	23.6	20.8	18.2	17.0
France	40,786	40,734	41,402	44,688	44,587	681	677	685	737	738	3.3	3.3	3.2	3.3	3.2	14.0	13.1	12.8	12.6	11.8
Ireland	2,694	2,928	3,290	4,650	4,500	743	800	888	1,242	1,189	4.7	4.1	4.3	5.2	4.3	34.0	30.3	27.6	26.8	22.9
Italy	52,313	55,320	59,496	65,807	69,457	911	962	1,033	1,142	1,203	5.3	5.4	5.5	5.9	6.0	16.1	16.1	16.1	14.4	14.3
Luxembourg	412	445	590	550	400	993	1,039	1,375	1,261	907	2.9	2.9	3.5	3.0	1.9	14.6	16.1	18.4	1.3	0.8
Netherlands	17,527	17,389	17,123	17,317	16,929	1,129	1,114	1,090	1,095	1,063	5.3	5.2	4.9	4.6	4.2	18.0	15.7	14.1	12.8	11.4
Austria <sup>2)</sup>	10,448	10,492	10,500	11,300	12,100	1,296	1,300	1,300	1,396	1,492	5.8	5.8	5.5	5.7	5.9	22.9	23.3	20.4	20.2	21.1
Portugal	4,376	3,786	4,563	5,620	5,392	441	381	458	563	539	4.9	4.0	4.5	5.2	4.7	15.3	11.6	12.0	12.4	11.3
Finland	2,341	2,423	2,490	2,780	2,880	457	471	483	538	556	2.2	2.2	2.2	2.3	2.2	6.6	6.7	6.5	6.8	7.2
Sweden	8,347	8,487	8,208	10,179	10,109	944	959	927	1,149	1,140	4.1	4.1	4.1	4.3	4.3	nav	nav	nav	nav	nav
United Kingdom	30,694	36,326	36,286	45,406	48,422	522	615	613	764	811	3.0	3.0	3.0	3.1	3.2	4.9	5.0	5.0	5.0	5.0
EU <sup>3)</sup>	369,331	377,172	381,883	418,477	419,086	986	1,004	1,014	1,109	1,108	5.3	5.2	5.0	5.2	4.9	13.8	12.9	12.3	11.5	10.9
Euro area <sup>3)</sup>	319,773	320,954	326,067	349,753	347,660	1,098	1,099	1,114	1,193	1,183	5.8	5.7	5.5	5.7	5.4	18.1	17.3	16.4	14.8	14.0

1) The definition of narrow money supply does not correspond with M1.

2) Adjusted for the banknotes in circulation figures for Austrian schilling banknotes held by other Eurosystem NCBs in accordance with Article 52 of the ESCB Statute.

Commemorative coins are not included in accordance with ECB Regulation 2001/13.

Narrow money: National contribution to M1.

3) Total excluding countries where data are not available.

**Table 2**

**Transferable deposits held by non-banks**

	Value per inhabitant (EUR)				As a percentage of GDP (%)				As a percentage of narrow money (%)						
	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000
Belgium	3,563	3,382	3,819	4,588	4,844	13.4	14.0	15.5	19.9	20.0	72.5	73.6	76.1	79.6	80.8
Denmark	7,114	7,425	8,020	8,449	8,771	26.2	26.4	27.1	27.2	26.6	89.8	89.9	90.2	90.1	90.3
Germany	4,061	4,089	4,751	5,196	5,461	18.1	18.1	20.2	21.6	22.2	72.4	72.9	75.9	76.6	78.2
Greece	758	851	945	1,337	1,265	8.2	8.4	9.1	12.2	11.0	55.9	56.1	59.9	63.4	63.3
Spain <sup>1), 2)</sup>	3,749	4,189	5,028	6,233	6,640	31.3	33.5	37.5	43.4	43.5	76.1	77.8	81.1	81.8	83.0
France	4,141	4,463	4,632	5,073	5,474	20.3	21.6	21.6	22.8	23.5	85.3	86.4	86.7	87.0	87.5
Ireland	1,440	1,839	2,332	3,394	3,994	9.1	9.5	11.2	14.3	14.6	66.0	69.7	72.4	73.2	77.1
Italy	4,636	4,871	5,296	6,767	7,206	26.8	27.4	28.4	35.2	35.7	81.9	81.7	82.4	85.5	85.8
Luxembourg	5,776	5,601	6,061	98,624	114,966	16.8	15.4	15.4	232.4	246.1	85.7	85.7	81.3	98.9	99.2
Netherlands	5,161	5,985	6,634	7,483	8,279	24.2	27.9	29.8	31.7	32.9	82.0	84.3	85.9	87.2	88.6
Austria <sup>3)</sup>	4,363	4,267	5,063	5,512	5,573	19.7	19.1	21.5	22.7	22.1	77.1	76.7	79.6	79.8	78.9
Portugal	2,466	2,818	3,285	3,835	4,142	27.6	29.7	32.5	35.4	35.9	83.8	86.9	86.3	84.7	87.1
Finland	6,415	6,552	6,907	7,421	7,172	31.4	31.0	31.1	31.8	28.2	93.4	93.3	93.5	93.2	92.8
Sweden	9,572	9,497	9,003	10,629	10,717	41.6	40.2	39.7	40.2	40.0	nav	nav	nav	nav	nav
United Kingdom	10,141	11,749	11,759	14,422	15,308	57.7	57.0	57.1	59.1	60.4	95.1	95.0	95.0	95.0	95.0
EU <sup>4)</sup>	5,169	5,610	6,015	7,214	7,666	27.1	28.6	30.0	33.3	34.3	85.8	86.7	87.6	88.4	89.0
Euro area <sup>4)</sup>	4,155	4,389	4,908	5,838	6,231	21.7	22.7	24.3	27.9	28.5	81.3	82.1	83.4	85.0	85.8

1) Since 1999, public sector deposits in the private financial sector are included.

2) The definition of narrow money supply does not correspond with M1.

3) Narrow money supply (M1): National contribution to M1; Transferable deposits: Foreign currencies included.

4) Weighted average excluding countries where data are not available.

Table 3

## Settlement media used by banks

(end of year)

	Banks' reserves at central bank (EUR billions)			Banks' reserves at central bank as a percentage of narrow money (%)			Transferable deposits at other banks (EUR billions)			Transferable deposits at other banks as a percentage of narrow money (%)					
	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000
Belgium	0.1	0.03	0.8	7.3	7.3	0.2	0.1	1.8	12.5	11.8	4.1	4.5	4.6	6.5	7.0
Denmark	2.0	2.4	1.7	0.8	1.0	4.9	5.5	3.5	1.6	2.0	nap	nap	nap	nap	nap
Germany	20.3	21.2	23.7	33.3	35.5	4.4	4.6	4.6	6.0	6.2	206.1	216.4	241.6	114.4	113.4
Greece	nav	nav	nav	nav	2.2	nav	nav	nav	nav	10.5	1.2	1.9	1.4	2.7	3.6
Spain <sup>1)</sup>	6.4	6.4	6.5	8.7	9.7	3.3	3.0	2.7	2.9	3.0	1.8	1.8	1.3	1.4	1.0
France <sup>2)</sup>	3.3	3.5	16.6	24.0	27.9	1.1	1.1	5.1	6.8	7.4	549.7	566.3	592.4	621.9	661.9
Ireland	1.4	1.7	2.9	2.5	2.7	17.5	17.7	24.1	14.3	13.8	nap	nap	nap	nap	nap
Italy	37.5	43.1	10.2	12.1	12.3	11.6	12.6	2.8	2.7	2.5	44.5	49.9	54.6	59.1	94.7
Luxembourg	nap	nap	nap	6.2	7.4	nap	nap	nap	12.2	14.4	nav	30.8	42.0	42.6	50.7
Netherlands	nap	2.7	7.8	9.9	11.2	nap	2.5	6.4	7.3	7.6	1.4	1.1	21.4	16.3	30.5
Austria <sup>3)</sup>	4.1	4.2	4.4	3.4	3.8	9.0	9.2	8.5	6.1	6.5	14.7	15.2	16.4	14.1	15.0
Portugal	1.9	1.8	2.6	2.7	3.1	6.4	5.5	6.7	5.9	6.5	0.1	0.6	1.6	2.3	2.6
Finland	1.4	1.8	2.2	4.9	2.5	4.0	5.0	5.7	11.9	6.2	0.5	0.5	0.5	0.5	0.6
Sweden	0.2	0.2	0.2	0.5	0.01	nav	nav	nav	nav	nav	8.5	10.8	12.0	11.0	8.5
United Kingdom	4.0	4.1	2.3	3.3	2.5	0.6	0.6	0.3	0.4	0.3	308.7	365.3	329.4	369.9	409.1
EU <sup>4)</sup>	13.1	13.8	11.3	15.7	16.4	3.9	3.8	2.8	3.6	3.5	193.9	209.0	214.9	198.6	216.9
Euro area <sup>4)</sup>	15.7	16.4	13.7	18.9	20.6	5.7	5.7	4.3	5.4	5.5	183.1	190.6	205.4	176.4	191.5

1) The definition of narrow money supply does not correspond with M1.

2) Change in the reserves policy from 16 October 1998.

3) Narrow money supply (M1): National contribution to M1; Transferable balances held at other banks; Transferable balances held at other domestic banks.

4) Weighted average excluding countries where data are not available.

Table 4

## Institutional framework

	Number of institutions offering payment services (per 1,000,000 inhabitants)		Number of central bank branches (per 1,000,000 inhabitants)		Number of bank branches (per 1,000,000 inhabitants)		Number of post office branches (per 1,000,000 inhabitants)		Others (per 1,000,000 inhabitants)		Total number of branches offering payment services (per 1,000,000 inhabitants)		Number of accounts on which payments can be made (per inhabitant)	
	1999	2000	1999	2000	1999	2000	1999	2000	1999	2000	1999	2000	1999	2000
Belgium	12	12	1	1	682	645	136	135	nap	nap	818	780	1.34	1.23
Denmark	36	36	nap	nap	447	458	218	209	nap	nap	665	667	1.73	1.75
Germany <sup>1)</sup>	36	33	2	2	711	681	nap	nap	nap	nap	713	683	1.02	1.05
Greece	6	6	9	9	239	256	12	13	nap	nap	261	278	0.15	0.14
Spain	7	7	1	1	989	976	nav	nav	nap	nap	990	977	1.83	1.90
France	28	28	3	3	411	425	279	274	nav	nav	759	767	1.09	1.11
Ireland	22	22	neg	neg	289	266	nap	nap	nap	nap	289	266	2.35	1.59
Italy	14	14	2	2	469	486	243	241	nap	nap	714	729	nav	0.58
Luxembourg	487	463	nap	nap	792	760	nav	nav	nap	nap	792	760	nav	nav
Netherlands <sup>2)</sup>	8	7	0.3	0.3	255	238	142	137	nap	nap	397	376	1.33	1.39
Austria <sup>3)</sup>	118	114	1	1	565	562	289	288	nap	nap	855	850	nav	nav
Portugal	23	22	1	1	502	549	107	79	nap	nap	610	630	2.07	2.13
Finland	67	66	1	1	299	299	91	nap	nap	nap	458	366	2.13	2.10
Sweden	14	14	0.1	0.1	240	226	164	155	nap	nap	404	380	nav	nav
United Kingdom	9	8	neg	neg	219	252	316	308	nap	nap	534	561	2.62	2.77
EU <sup>4)</sup>	23	22	2	2	511	513	238	236	nav	nav	683	680	1.53	1.42
Euro area <sup>4)</sup>	27	25	2	2	589	585	229	229	nav	nav	737	728	1.31	1.18

1) In Germany: Postbank AG, as a fully fledged credit institution, appears with its branches under "Number of bank branches", including post office branches which are entrusted with semi-cashless payment systems on behalf of the Postbank AG.

2) Number of bank branches: excluding the counters of the postal institution.

3) Institutions: all institutions regardless of whether they offer cashless payment services; Branches: the head office of an institution is not counted as a branch.

4) Weighted average excluding countries where data are not available.

**Table 5****Cards with a cash function and ATMs**

	Number of ATMs per 1,000,000 inhabitants (end of year)					Number of transactions per inhabitant					Average value per transaction (EUR)				
	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000
Belgium	396	491	564	606	669	15	16	16	17	20	103	105	106	105	106
Denmark	420	452	481	496	506	nav	nav	nav	nav	nav	nav	nav	nav	nav	nav
Germany	459	505	556	563	580	15	nav	17	18	20	146	nav	151	146	146
Greece	185	209	206	290	330	6	6	7	9	12	133	162	168	206	157
Spain	775	863	962	1,062	1,123	15	15	16	17	18	85	82	82	87	85
France	410	450	487	535	582	13	14	15	17	18	60	55	56	61	61
Ireland	290	287	332	327	344	21	24	28	34	35	79	73	67	79	92
Italy	424	444	487	524	549	6	7	8	9	9	158	163	160	160	163
Luxembourg	533	550	662	711	737	10	10	11	12	13	112	115	115	115	117
Netherlands	396	410	418	422	435	26	26	27	28	30	88	85	86	88	87
Austria <sup>1)</sup>	484	533	594	655	727	10	11	11	12	13	139	132	135	136	132
Portugal	541	632	710	852	970	18	22	26	29	32	59	69	67	70	71
Finland	448	445	428	422	412	42	43	45	46	47	67	67	69	67	70
Sweden	269	268	281	291	295	34	35	38	35	36	95	92	97	94	100
United Kingdom	376	393	415	461	575	27	30	31	33	34	61	74	78	83	91
EU <sup>2)</sup>	450	489	533	574	623	16	18	19	20	21	104	96	109	111	111
Euro area <sup>2)</sup>	480	526	577	618	655	14	14	16	17	19	112	99	113	114	114

1) Number of ATMs: Estimate, rounded figures.

2) Weighted average excluding countries where data are not available.

	Increase in the number of ATMs (%)					Increase in the number of transactions (%)					Increase in the value of transactions (%)				
	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000
Belgium	16.4	24.3	15.1	7.7	10.7	6.1	3.8	-0.2	15.3	17.8	8.2	5.6	1.4	9.6	19.6
Denmark	8.7	8.1	6.8	3.6	2.3	nav	nav	nav	nav	nav	nav	nav	nav	nav	nav
Germany	5.3	10.1	10.2	1.3	3.1	13.8	nav	nav	7.7	11.0	10.2	nav	nav	4.1	10.5
Greece	43.0	13.1	-1.0	40.9	13.7	43.9	6.7	25.6	21.4	30.8	41.0	32.2	38.7	46.8	3.3
Spain	14.1	11.5	11.6	10.5	7.1	3.0	4.0	5.5	3.5	10.3	3.7	3.6	6.8	9.1	7.3
France	7.3	10.4	8.6	10.3	8.4	6.6	8.9	11.5	10.3	5.5	6.0	6.7	13.9	19.0	5.3
Ireland	nav	0.0	16.9	-0.3	6.3	nav	16.0	20.7	20.0	4.0	nav	0.0	16.7	42.9	20.0
Italy	11.3	4.9	9.8	7.7	5.0	11.5	12.0	18.2	2.5	5.6	16.6	15.3	16.4	3.0	7.5
Luxembourg	19.3	4.5	21.9	9.2	4.8	11.2	7.5	8.7	10.9	4.6	12.5	6.8	8.5	12.2	6.5
Netherlands	4.9	4.0	2.7	1.6	3.7	11.1	1.0	5.2	5.9	4.4	10.1	0.4	7.1	7.9	2.8
Austria <sup>1)</sup>	15.0	10.3	11.6	10.4	11.3	10.3	7.4	4.8	5.0	6.0	7.3	2.1	6.9	5.4	3.5
Portugal	46.1	0.2	12.8	20.1	14.0	32.2	19.8	20.1	11.0	11.8	48.1	39.8	16.3	16.4	12.4
Finland	-5.1	-0.6	-3.4	-1.2	-2.2	6.0	4.7	3.6	3.0	2.5	6.1	6.9	8.6	-0.6	6.3
Sweden	0.8	-0.4	4.9	3.8	1.4	5.7	5.1	6.7	-6.9	3.2	5.8	4.2	15.3	-10.6	5.6
United Kingdom	5.7	4.8	6.0	11.4	25.4	8.7	9.1	6.0	6.4	3.0	11.1	12.5	8.9	10.2	4.6
EU <sup>2)</sup>	10.0	8.1	8.7	8.3	9.1	10.9	8.4	10.6	6.9	7.9	11.6	10.6	12.4	9.7	7.4
Euro area <sup>2)</sup>	10.0	9.0	9.6	6.1	5.7	10.4	8.5	11.3	6.9	8.2	10.8	9.2	11.9	8.9	8.2

1) Number of ATMs: Estimate, rounded figures.

2) Weighted average excluding countries where data are not available.

**Table 6****Cards with a debit function and POS terminals**

	Number of POS terminals per 1,000,000 inhabitants (end of year)					Number of transactions per inhabitant					Average value per transaction (EUR)				
	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000
Belgium	8,009	8,421	9,121	9,746	11,355	20.9	23.6	29.1	34.6	39.8	52.3	52.8	51.7	50.6	51.0
Denmark	8,486	11,515	12,936	13,719	14,612	53.4	59.2	65.9	71.8	77.1	48.1	47.2	47.3	47.4	47.3
Germany	1,918	3,069	4,423	5,761	7,196	2.6	2.8	8.2	10.5	12.6	79.9	65.3	75.6	74.9	73.4
Greece	1,796	2,831	5,263	7,096	6,079	nav	nav	nav	nav	0.1	nav	nav	nav	nav	70.9
Spain	14,650	16,691	18,351	18,902	20,104	4.0	4.7	5.4	6.5	7.2	39.9	38.2	38.4	39.0	39.3
France <sup>1)</sup>	11,070	11,312	11,976	13,181	13,884	35.1	38.8	43.4	48.0	54.5	48.1	46.4	41.4	46.3	46.5
Ireland	1,213	1,407	3,990	4,951	9,773	0.3	2.2	4.3	6.7	9.0	37.7	57.0	54.0	48.3	50.0
Italy	3,741	4,886	6,001	7,551	9,884	1.3	2.2	3.0	4.3	5.5	96.1	89.0	81.1	76.6	72.3
Luxembourg	10,617	10,981	11,823	12,693	13,163	15.4	18.0	20.2	23.1	26.2	65.7	66.9	66.5	65.5	64.5
Netherlands	6,187	7,696	8,533	9,209	9,775	23.9	31.1	37.9	44.3	50.3	44.5	43.0	43.1	45.7	46.5
Austria	632	1,652	2,381	3,554	4,953	1.9	3.0	4.8	7.2	9.9	54.9	53.5	51.2	54.2	56.4
Portugal	4,990	6,026	7,077	8,111	9,125	19.0	23.7	29.8	37.1	45.3	26.3	26.2	28.2	28.0	28.8
Finland	9,951	10,506	11,062	11,617	11,978	34.3	34.6	37.1	42.0	49.3	35.2	35.8	37.7	39.0	38.0
Sweden	6,945	7,778	8,406	9,160	9,822	10.0	13.6	18.0	22.4	28.9	75.7	73.4	67.9	68.2	66.1
United Kingdom	9,357	8,980	10,299	11,778	12,317	21.9	25.9	29.8	35.3	40.0	36.5	44.1	46.6	48.4	54.5
EU <sup>2)</sup>	6,878	7,723	8,914	10,124	11,302	14.2	16.4	20.2	23.7	26.5	60.0	56.4	56.9	57.3	57.7
Euro area <sup>2)</sup>	6,529	7,575	8,707	9,861	11,267	12.1	13.9	17.5	20.5	23.7	64.4	58.5	58.8	58.9	57.9

1) The figures include figures for payments per card with a credit function.

2) Weighted average excluding countries where data are not available.

	Increase in the number of POS terminals (%)					Increase in the number of transactions (%)					Increase in the value of transactions (%)				
	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000
Belgium	11.6	5.4	8.6	7.1	16.9	13.9	13.5	23.6	19.0	15.5	16.8	14.4	21.1	16.4	16.5
Denmark	18.6	36.3	12.8	6.4	6.8	16.5	11.3	11.9	9.3	7.8	19.9	11.2	12.3	8.9	7.4
Germany	124.2	60.3	44.1	30.3	25.0	43.4	5.4	199.0	27.4	20.6	56.3	-13.9	246.5	26.1	18.2
Greece	66.0	58.0	86.1	35.0	-14.3	nav	nav	nav	nav	nav	nav	nav	nav	nav	nav
Spain	19.5	14.1	10.1	3.1	7.7	-3.4	17.7	15.9	21.0	11.6	15.5	16.3	17.2	22.3	12.6
France <sup>1)</sup>	1.5	2.6	6.3	10.5	4.9	11.3	11.0	12.3	11.1	13.1	10.7	7.1	0.2	24.2	13.6
Ireland	nav	17.0	187.1	25.4	99.6	nav	700.0	100.0	56.3	36.0	nav	1,039.5	99.1	40.1	40.7
Italy	39.6	30.9	23.0	25.9	31.1	53.0	72.2	38.7	44.2	28.2	52.2	59.6	26.3	36.2	21.1
Luxembourg	10.5	4.9	8.9	9.1	4.9	10.7	19.2	13.2	16.5	14.4	11.0	17.6	12.2	15.7	12.6
Netherlands	30.9	25.1	11.6	8.6	6.9	44.9	30.9	22.6	17.7	14.4	45.6	30.9	23.2	24.0	16.4
Austria	50.7	161.6	44.3	49.5	39.7	36.0	58.9	61.7	49.7	37.9	52.8	54.8	54.7	58.5	43.5
Portugal	29.7	20.9	17.8	14.8	12.7	41.3	24.5	26.1	24.7	22.3	21.1	23.9	36.2	23.4	26.0
Finland	4.1	5.9	5.6	5.3	3.3	8.0	1.1	7.3	13.6	17.5	-0.5	2.9	13.0	17.4	14.7
Sweden	12.9	12.1	8.1	9.1	7.4	20.7	37.0	32.4	24.0	29.3	30.2	35.0	26.1	23.1	20.2
United Kingdom	8.9	-3.6	15.1	14.8	5.0	27.0	18.4	15.6	18.8	13.6	30.7	21.7	19.5	20.3	18.2
EU <sup>2)</sup>	43.3	27.1	24.4	18.5	15.4	29.3	31.1	62.7	24.8	18.6	34.8	27.8	70.2	26.0	18.0
Euro area <sup>2)</sup>	50.9	32.5	24.8	19.2	19.0	30.1	33.8	74.1	26.3	19.2	36.1	29.1	82.8	27.6	18.1

1) The figures include figures for payments per card with a credit function.

2) Weighted average excluding countries where data are not available.

Table 7

## Cards with a credit function and accepting terminals

	Number of accepting terminals per 1,000,000 inhabitants (end of year)					Number of transactions per inhabitant					Average value per transaction (EUR)				
	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000
Belgium	nav	nav	nav	nav	nav	3.5	3.9	4.3	4.8	5.2	96.5	98.2	99.9	101.1	102.8
Denmark	3,442	3,696	3,866	4,091	4,175	1.5	1.6	1.9	2.1	2.4	103.5	107.6	106.6	115.3	120.7
Germany <sup>1)</sup>	12,211	13,406	13,911	14,852	16,449	3.5	3.7	3.9	4.1	4.3	106.1	105.4	90.3	93.5	95.2
Greece	nav	nav	nav	nav	19,131	nav	nav	nav	nav	4.8	nav	nav	nav	nav	62.3
Spain	14,650	16,691	18,351	18,902	20,104	3.5	4.2	4.8	5.6	5.6	60.5	58.0	58.3	59.0	61.1
France	11,070	11,312	11,976	13,181	13,884	nav	nav	nav	nav	nav	nav	nav	nav	nav	nav
Ireland	nav	nav	nav	6,142	11,094	nav	nav	nav	12.6	12.7	nav	nav	nav	68.7	81.9
Italy	nav	nav	nav	nav	nav	2.0	2.5	3.0	4.0	4.7	93.7	92.5	91.1	91.7	91.9
Luxembourg	10,199	10,795	11,676	12,438	13,005	25.0	24.7	27.2	29.1	31.7	67.9	75.2	74.5	69.4	77.7
Netherlands <sup>2)</sup>	nav	nav	nav	nav	nav	2.8	3.1	3.1	3.4	3.6	90.1	93.2	90.1	94.4	104.2
Austria <sup>3)</sup>	434	1,672	1,980	3,584	3,822	2.4	3.1	3.2	3.5	3.9	130.5	101.4	106.4	110.1	112.5
Portugal	4,990	6,026	7,077	8,111	9,125	5.3	8.5	11.9	15.8	19.8	44.3	39.6	39.9	38.6	39.1
Finland	9,951	10,506	11,062	11,617	11,978	17.0	18.3	20.6	20.7	22.2	58.7	63.4	56.6	56.1	60.9
Sweden	6,945	7,778	8,406	9,160	9,822	5.0	5.5	6.0	6.4	7.5	117.2	110.0	103.2	112.6	113.6
United Kingdom	9,357	8,980	10,299	11,778	12,317	19.1	21.2	23.0	25.1	27.1	64.0	78.0	81.8	89.7	103.8
EU <sup>4)</sup>	10,726	11,454	12,340	13,295	14,506	6.5	7.4	8.2	9.1	9.8	86.4	87.6	83.8	86.9	90.4
Euro area <sup>4)</sup>	11,470	12,524	13,316	14,134	15,356	3.5	4.0	4.5	5.3	5.8	90.6	88.8	83.0	84.5	86.7

1) The sum of the number of accepting terminals reported by the individual credit card institutions. This may result in double counting.

2) Includes cards with a delayed debit function.

3) Including delayed debit cards (charge cards); Terminals: estimate, rounded figures.

4) Weighted average excluding countries where data are not available.

	Increase in the number of accepting terminals (%)					Increase in the number of transactions (%)					Increase in the value of transactions (%)				
	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000
Belgium	nav	nav	nav	nav	nav	11.3	10.5	11.9	9.7	10.6	10.9	12.4	13.9	11.1	12.4
Denmark	6.5	7.9	5.1	6.2	2.4	10.8	10.4	15.1	13.1	11.8	20.0	16.7	14.3	21.6	17.0
Germany <sup>1)</sup>	11.1	10.0	3.7	6.8	10.9	8.7	4.7	4.6	6.5	4.0	8.3	4.0	-10.3	10.3	5.9
Greece	nav	nav	nav	nav	nav	nav	nav	nav	nav	nav	nav	nav	nav	nav	nav
Spain	19.5	14.1	10.1	3.1	7.7	-7.3	19.2	15.0	15.7	1.3	11.4	18.0	16.4	16.5	4.9
France	1.5	2.6	6.3	10.5	4.9	nav	nav	nav	nav	nav	nav	nav	nav	nav	nav
Ireland	nav	nav	nav	nav	82.6	nav	nav	nav	nav	2.1	nav	nav	nav	nav	21.7
Italy	nav	nav	nav	nav	nav	24.3	21.6	24.1	30.9	18.8	70.9	20.0	22.2	31.8	19.0
Luxembourg	23.9	7.4	9.4	8.3	5.8	1.4	0.5	11.1	9.0	10.2	5.5	7.8	9.8	2.2	23.4
Netherlands <sup>2)</sup>	nav	nav	nav	nav	nav	nav	10.1	1.2	8.6	7.5	nav	13.8	-2.1	13.8	18.6
Austria <sup>3)</sup>	nav	285.7	18.5	81.3	6.9	nav	32.7	4.0	9.3	10.0	nav	3.1	9.1	13.1	12.4
Portugal	29.7	20.9	17.8	14.8	12.7	46.1	60.6	41.1	33.0	25.4	22.0	43.6	42.1	28.5	27.0
Finland	4.1	5.9	5.6	5.3	3.3	7.4	8.0	12.8	0.9	7.5	33.2	16.6	0.7	0.0	16.7
Sweden	12.9	12.1	8.1	9.1	7.4	4.2	10.8	8.6	7.8	16.7	27.2	5.1	7.4	7.0	25.1
United Kingdom	8.9	-3.6	15.1	14.8	5.0	13.2	11.3	8.7	9.5	8.6	18.1	15.4	11.4	17.0	16.2
EU <sup>4)</sup>	10.3	14.4	8.7	11.3	8.4	11.9	14.5	12.2	14.2	9.1	25.7	13.6	8.3	17.3	13.1
Euro area <sup>4)</sup>	10.7	19.9	7.0	10.5	9.6	11.9	15.6	13.2	15.6	8.9	27.9	13.5	7.4	17.7	11.8

1) The sum of the number of accepting terminals reported by the individual credit card institutions. This may result in double counting.

2) Includes cards with a delayed debit function.

3) Including delayed debit cards (charge cards); Terminals: estimate, rounded figures.

4) Weighted average excluding countries where data are not available.



**Table 8**  
**Cards with an e-money function and accepting terminals**

	Electronic money cards (thousands)				Average value per reloading (EUR)				Number of purchase terminals				Average value per transaction (EUR)							
	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000
Belgium	159	1,035	5,606	7,898	8,396	33	32	29	26	26	6,743	21,000	45,649	63,993	67,837	3.9	4.1	4.0	3.7	3.8
Denmark	390	518	651	672	593	nav	17	20	20	18	2,413	2,732	4,383	4,568	1,954	0.7	0.8	0.9	1.1	1.2
Germany	22,000	35,000	60,700	60,700	60,700	neg	nav	53	40	31	1,000	50,000	60,000	59,732	66,946	neg	neg	9.4	4.8	3.8
Greece	nav	nav	nav	nav	nav	nav	nav	nav	nav	nav	nav	nav	nav	nav	nav	nav	nav	nav	nav	nav
Spain	1,344	3,502	5,691	8,089	10,496	15	16	16	17	17	48,524	77,092	99,335	131,702	188,510	4.6	3.1	2.8	2.8	2.6
France	nav	nav	nav	neg	nav	nav	nav	nav	neg	neg	nav	nav	nav	neg	neg	nav	nav	nav	neg	neg
Ireland	nav	nav	neg	neg	nav	nav	nav	neg	neg	nav	nav	nav	neg	neg	nav	nav	nav	neg	neg	nav
Italy	nav	62	56	32	41	nav	neg	neg	neg	neg	nav	4,406	3,910	3,605	6,485	nav	neg	neg	neg	neg
Luxembourg	nav	nav	nav	270	313	nav	nav	nav	44	41	nav	nav	nav	1,223	2,133	nav	nav	nav	nav	5.8
Netherlands	1,400	9,500	17,900	20,100	20,800	nav	nav	nav	nav	nav	48,000	105,401	141,916	145,000	190,000	nav	nav	0.8	0.7	0.6
Austria	3,101	3,400	5,100	5,777	6,496	47	50	49	52	54	3,333	12,756	19,118	29,564	41,585	14.1	13.3	7.9	5.3	4.9
Portugal	299	384	411	3,400	3,315	15	16	16	13	12	55,646	63,703	72,429	83,098	129,184	1.8	1.8	1.9	1.2	1.0
Finland	1,175	164	324	454	623	nav	nav	21	20	20	5,000	1,344	3,627	5,272	6,109	0.8	2.6	1.9	1.8	2.0
Sweden	nav	nav	205	540	593	nav	nav	45	34	39	nav	nav	33,938	43,921	43,000	nav	nav	5.6	5.4	8.2
United Kingdom	30	110	140	160	nav	neg	neg	neg	neg	neg	1,922	3,537	1,642	1,921	nav	nav	nav	nav	nav	nav
EU <sup>1)</sup>	8,187	10,999	18,592	19,186	24,284	22	22	38	31	27	15,093	27,182	34,707	39,411	50,682	4.6	4.0	5.9	3.7	3.2
Euro area <sup>1)</sup>	11,249	14,063	24,514	25,279	25,750	22	5	39	32	27	20,040	43,846	55,447	62,687	81,768	4.9	4.2	6.6	3.9	3.3

*1) Weighted average excluding countries where data are not available.*

**Table 9****Number of cards <sup>1)</sup>**

(per 1,000 inhabitants)

	Cards with a cash function		Cards with a debit function		Cards with a credit function		Cards with a debit function issued by retailers		Cards with an e-money function		Cards with a cheque guarantee function	
	1999	2000	1999	2000	1999	2000	1999	2000	1999	2000	1999	2000
Belgium	1,308	1,358	1,176	1,216	282	290	150	147	773	819	436	374
Denmark	3,176	3,476	2,794	3,018	382	458	nav	nav	672	593	nav	nav
Germany	1,209	1,294	1,099	1,207	208	216	97	129	739	739	553	624
Greece	424	559	378	335	191	288	nav	nav	nap	nap	nap	nap
Spain	1,103	1,169	1,085	1,147	400	402	nav	nav	205	263	nap	nap
France <sup>2)</sup>	619	678	552	611	nav	nav	nav	nav	neg	neg	nap	nap
Ireland	751	816	187	211	304	357	nav	nav	neg	nap	nav	nav
Italy	361	367	343	350	268	294	nap	nap	neg	neg	neg	neg
Luxembourg	1,309	1,417	619	710	690	706	nav	nav	619	710	619	710
Netherlands <sup>3)</sup>	1,581	1,595	1,303	1,313	278	283	nav	nav	1,272	1,307	nav	nav
Austria <sup>4)</sup>	869	888	731	746	213	231	nav	nav	714	801	851	878
Portugal	1,084	1,175	1,084	1,175	294	303	nap	nap	340	331	41	18
Finland	1,066	1,137	457	493	755	786	nav	nav	88	120	0.2	0.2
Sweden	520	560	472	515	344	430	nav	nav	61	67	nav	nav
United Kingdom	1,882	1,989	775	833	755	852	nav	nav	3	nav	912	949
EU <sup>5)</sup>	1,071	1,139	816	874	371	406	nav	nav	453	617	636	679
Euro area <sup>5)</sup>	908	963	815	874	282	295	nav	nav	623	646	456	497

1) A card which has several functions is counted in each relevant column (e.g. a eurocheque card which can be used to withdraw cash, to make payments and to guarantee cheques is counted under each of these three items). For this reason, the figures should not be added together.

2) Figures for cards with a credit function are not provided. Data were incorrectly reported for the previous years and concerned up-market cards (privileged cards).

3) Cards with a credit function include cards with a delayed debit function.

4) Credit function: including delayed debit cards (charge cards).

5) Weighted average excluding countries where data are not available.

**Table 10****Use of cards**

(end of year)

	Average number of							
	Cash withdrawals per card with a credit function		Payments per card with a debit function		Payments per card with a credit function		Payments per card with an e-money function	
	1999	2000	1999	2000	1999	2000	1999	2000
Belgium	5.8	5.8	13.3	15.0	16.9	18.1	5.8	6.1
Denmark	nav	nav	136.7	136.4	29.6	27.6	11.7	13.3
Germany	15.2	15.8	9.5	10.5	19.8	19.8	0.3	0.4
Greece	21.3	21.2	nav	0.2	nav	16.6	nav	nav
Spain	15.2	15.6	6.0	6.3	13.9	13.8	0.3	0.2
France <sup>1)</sup>	27.3	26.4	86.9	89.2	nav	nav	nav	nav
Ireland	44.8	42.4	35.7	42.6	41.3	35.5	neg	nav
Italy	24.0	24.9	12.5	15.7	14.9	16.0	nav	nav
Luxembourg	9.3	8.9	37.4	36.8	42.2	44.9	1.0	3.0
Netherlands <sup>2)</sup>	18.0	18.5	34.0	38.3	12.1	12.7	nav	nav
Austria <sup>3)</sup>	13.7	14.2	9.8	13.2	16.6	16.8	0.4	0.5
Portugal	23.3	23.4	34.2	38.5	53.7	65.2	1.5	1.4
Finland	43.2	41.5	91.9	99.9	20.2	21.7	1.1	1.0
Sweden	67.2	64.4	47.4	56.0	18.6	17.4	7.8	4.9
United Kingdom	17.6	17.1	45.6	48.0	33.2	31.8	nav	nav
EU <sup>4)</sup>	21.1	21.0	34.3	35.5	21.7	21.2	1.5	0.6
Euro area <sup>4)</sup>	20.4	20.5	29.8	31.8	18.7	19.5	0.8	0.8

1) The figures include figures for payments per card with a credit function.

2) Payments per card with a credit function include cards with a delayed debit function.

3) Credit function: including delayed debit cards (charge cards).

4) Weighted average excluding countries where data are not available.

**Table 11**

**Use of cashless payment instruments**

(total number of transactions, millions)

	Cheques						Payments by credit/debit cards						Credit transfers					
	1996	1997	1998	1999	2000		1996	1997	1998	1999	2000		1996	1997	1998	1999	2000	
Belgium	110	96	87	80	71		249	282	343	403	462		695	697	675	723	657	
Denmark	85	77	71	61	56		288	321	359	393	424		159	176	193	202	213	
Germany	772	729	656	476	437		504	529	993	1,198	1,389		5,885	6,152	6,880	7,680	7,133	
Greece <sup>1)</sup>	3	2	2	2	2		nav	nav	nav	nav	51		nav	6	nav	nav	7	
Spain <sup>2)</sup>	205	217	221	209	197		294	348	402	476	508		228	236	251	284	338	
France	4,952	4,903	4,825	4,480	4,494		2,103	2,334	2,621	2,912	3,292		1,785	1,860	1,952	2,051	2,094	
Ireland	112	122	124	157	121		1	8	16	72	82		31	33	37	70	81	
Italy	677	657	649	665	602		188	265	347	477	590		944	976	971	1,003	1,019	
Luxembourg	nav	0.2	0.1	0.1	0.1		17	18	20	23	26		nav	nav	10	11	12	
Netherlands <sup>3)</sup>	84	65	47	27	14		415	534	644	753	859		1,034	1,053	1,076	1,086	1,140	
Austria <sup>4)</sup>	28	26	22	16	12		34	49	65	87	112		462	466	480	466	499	
Portugal <sup>5)</sup>	262	273	286	283	273		197	252	316	392	476		44	39	45	52	73	
Finland	4	3	2	1	1		263	272	297	324	370		448	470	496	519	541	
Sweden	40	18	4	4	2		132	169	213	255	320		637	660	633	712	715	
United Kingdom	3,201	3,090	2,989	2,860	2,698		2,296	2,631	2,960	3,406	3,789		1,589	1,660	1,726	1,800	1,848	
EU <sup>6)</sup>	10,535	10,276	9,985	9,322	8,979		6,981	8,012	9,594	11,171	12,749		13,941	14,485	15,424	16,658	16,368	
Euro area <sup>6)</sup>	7,206	7,090	6,919	6,394	6,221		4,264	4,891	6,062	7,117	8,165		11,556	11,983	12,872	13,945	13,586	

1) The calculation method regarding credit transfers for the year 2000 includes only customer-initiated credit transfers.

2) For this table, data related to bills of exchange, traveller's cheques and other documents are excluded.

3) Payments by credit/debit cards include cards with a delayed debit function.

4) Credit cards: including delayed debit cards (charge cards); Credit transfers and direct debits: excluding items initiated by banks; these data are not available.

5) For this table, data related to bills of exchange have not been included.

6) Total excluding countries where data are not available.

**Table 11 (cont.)**  
**Use of cashless payment instruments**  
 (total number of transactions, millions)

	Direct debits				Card-based e-money				Total						
	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000
Belgium	114	118	117	142	166	2	9	28	45	51	1,169	1,202	1,250	1,394	1,407
Denmark	96	105	113	122	130	4	5	7	8	8	632	684	743	785	831
Germany	4,829	5,393	5,079	5,240	5,532	0.2	4	14	21	27	11,990	12,808	13,621	14,614	14,517
Greece <sup>1)</sup>	1	1	nav	3	3	nav	nav	nav	nav	nav	nav	nav	nav	nav	63
Spain <sup>2)</sup>	671	753	837	991	1,176	0.1	2	2	2	2	1,398	1,556	1,713	1,962	2,222
France	1,344	1,430	1,578	1,731	1,969	nav	nav	nav	nav	nav	10,184	10,527	10,976	11,172	11,848
Ireland	32	35	41	49	83	nav	nav	neg	neg	neg	176	198	218	348	367
Italy	163	201	226	293	320	nav	neg	neg	neg	neg	1,972	2,099	2,194	2,438	2,530
Luxembourg	1	1	2	2	3	nav	nav	nav	nav	nav	18	20	32	38	43
Netherlands <sup>3)</sup>	592	643	723	785	836	nav	nav	nav	nav	nav	2,125	2,295	2,489	2,651	2,849
Austria <sup>4)</sup>	205	219	217	237	269	0.1	0.4	1	2	3	729	760	785	808	894
Portugal <sup>5)</sup>	65	68	66	99	113	6	6	5	5	5	574	637	718	831	940
Finland	24	26	31	39	43	4	0.1	0.2	1	1	743	771	826	884	956
Sweden	54	65	74	85	91	nav	nav	2	4	3	863	912	926	1,060	1,131
United Kingdom	1,443	1,584	1,736	1,863	2,010	nav	nav	nav	nav	nav	8,529	8,965	9,411	9,929	10,345
EU <sup>6)</sup>	9,633	10,643	10,840	11,680	12,743	15	27	58	86	99	41,101	43,434	45,900	48,915	50,942
Euro area <sup>6)</sup>	8,038	8,887	8,917	9,607	10,509	12	22	48	74	88	31,077	32,872	34,820	37,141	38,572

1) The calculation method regarding credit transfers for the year 2000 includes only customer-initiated credit transfers.

2) For this table, data related to bills of exchange, traveller's cheques and other documents are excluded.

3) Payments by credit/debit cards include cards with a delayed debit function.

4) Credit cards: including delayed debit cards (charge cards); Credit transfers and direct debits: excluding items initiated by banks; these data are not available.

5) For this table, data related to bills of exchange have not been included.

6) Total excluding countries where data are not available.

**Table 12**

**Use of cashless payment instruments**

(number of transactions per inhabitant)

	Cheques					Payments by credit/debit cards					Direct debits				
	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000
Belgium	11	9	9	8	7	25	28	34	39	45	11	12	12	14	16
Denmark	16	15	13	11	10	55	61	68	74	79	18	20	21	23	24
Germany	9	9	8	6	5	6	6	12	15	15	59	66	62	64	67
Greece <sup>1)</sup>	0.3	0.2	0.2	0.2	0.2	nav	nav	nav	nav	5	0.1	0.1	nav	0.3	0.3
Spain <sup>2)</sup>	5	6	6	5	5	7	9	10	12	13	17	19	21	25	29
France	83	82	80	74	74	35	39	43	48	54	22	24	26	29	33
Ireland	31	33	34	42	32	neg	2	4	19	22	9	10	11	13	22
Italy	12	11	11	12	10	3	5	6	8	10	3	3	4	5	6
Luxembourg	nav	0.5	0.3	0.2	0.1	40	43	47	52	58	nav	nav	22	25	27
Netherlands <sup>3)</sup>	5	4	3	2	1	27	34	41	48	54	38	41	46	50	53
Austria <sup>4)</sup>	3	3	3	2	1	4	6	8	11	14	25	27	27	29	33
Portugal <sup>5)</sup>	26	27	29	28	27	20	25	32	39	48	7	7	7	10	11
Finland	1	1	0.4	0.2	0.2	51	53	58	63	71	5	5	6	8	8
Sweden	5	2	0.5	0.5	0.2	15	19	24	29	36	72	75	72	80	81
United Kingdom	54	52	50	48	45	39	45	50	57	63	25	27	29	31	34
EU <sup>6)</sup>	28	27	27	25	24	19	22	26	30	33	27	30	31	33	35
Euro area <sup>6)</sup>	25	24	24	22	21	14	17	21	24	27	28	30	30	33	36

1) The calculation method regarding credit transfers for the year 2000 includes only customer-initiated credit transfers.

2) For this table, data related to bills of exchange, traveller's cheques and other documents are excluded.

3) Payments by credit/debit cards include cards with a delayed debit function.

4) Credit cards: including delayed debit cards (charge cards); Credit transfers and direct debits: excluding items initiated by banks; these data are not available.

5) For this table, data related to bills of exchange have not been included.

6) Weighted average excluding countries where data are not available.

**Table 12 (cont.)**

**Use of cashless payment instruments**

(number of transactions per inhabitant)

	Credit transfers					Card-based e-money					Total				
	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000
Belgium	68	68	66	71	64	0.2	0.9	2.8	4.4	5.0	115	118	122	136	137
Denmark	30	33	36	38	40	0.7	1.0	1.4	1.5	1.5	120	130	140	148	156
Germany	72	75	84	94	87	neg	0.1	0.2	0.3	0.3	146	156	166	178	177
Greece <sup>1)</sup>	nav	1	nav	nav	1	nav	nav	nav	nav	nav	nav	nav	nav	nav	6
Spain <sup>2)</sup>	6	6	6	7	8	0.001	0.05	0.1	0.1	0.04	36	40	44	50	56
France	30	31	32	34	35	nav	nav	nav	nav	nav	170	175	182	184	196
Ireland	9	9	10	19	21	nav	nav	neg	neg	nav	48	54	59	93	97
Italy	16	17	17	17	18	nav	neg	neg	neg	neg	34	36	38	42	44
Luxembourg	3	3	4	5	6	nav	nav	nav	4.8	6.1	nav	nav	nav	87	97
Netherlands <sup>3)</sup>	67	67	68	69	72	nav	nav	nav	nav	nav	137	147	158	168	179
Austria <sup>4)</sup>	57	58	59	58	61	0.01	0.1	0.1	0.3	0.4	90	94	97	100	110
Portugal <sup>5)</sup>	4	4	5	5	7	0.6	0.6	0.5	0.5	0.5	58	64	72	83	94
Finland	87	91	96	100	105	0.7	0.01	0.03	0.1	0.1	145	150	160	171	185
Sweden	6	7	8	10	10	nav	nav	0.2	0.5	0.3	98	103	105	120	127
United Kingdom	27	28	29	30	31	nav	nav	nav	nav	nav	145	152	159	167	173
EU <sup>6)</sup>	37	37	41	44	42	0.2	0.2	0.4	0.5	0.6	113	119	125	133	135
Euro area <sup>6)</sup>	40	46	49	52	50	0.1	0.1	0.3	0.5	0.6	107	113	119	127	131

1) The calculation method regarding credit transfers for the year 2000 includes only customer-initiated credit transfers.

2) For this table, data related to bills of exchange, traveller's cheques and other documents are excluded.

3) Payments by credit/debit cards include cards with a delayed debit function.

4) Credit cards: including delayed debit cards (charge cards); credit transfers and direct debits: excluding items initiated by banks; these data are not available.

5) For this table, data related to bills of exchange have not been included.

6) Weighted average excluding countries where data are not available.

**Table 13**

**Relative importance of cashless payment instruments**

(percentage of total volume of cashless transactions)

	Cheques (%)			Payments by credit/debit cards (%)			Credit transfers (%)			Direct debits (%)			Card-based e-money (%)							
	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000
Belgium	9.4	8.0	7.0	5.8	5.0	21.3	23.4	27.4	28.9	32.8	59.4	58.0	54.0	51.9	46.7	0.1	0.8	2.3	3.3	3.6
Denmark	13.4	11.2	9.6	7.8	6.7	45.6	46.9	48.4	50.1	51.1	25.2	25.7	25.9	25.7	25.7	0.6	0.8	1.0	1.0	1.0
Germany	6.4	5.7	4.8	3.3	3.0	4.2	4.1	7.3	8.2	9.6	49.1	48.0	50.5	52.5	49.1	neg	neg	0.1	0.1	0.2
Greece <sup>1)</sup>	nav	nav	nav	nav	3.5	nav	nav	nav	nav	80.6	nav	nav	nav	nav	10.5	nav	nav	nav	nav	nav
Spain <sup>2)</sup>	14.7	13.9	12.9	10.7	8.9	21.0	22.4	23.5	24.3	22.9	16.3	15.2	14.7	14.5	15.2	48.0	48.4	48.9	50.5	52.9
France	48.6	46.6	44.0	40.1	37.9	20.6	22.2	23.9	26.1	27.8	17.5	17.7	17.8	18.4	17.7	13.2	13.6	14.4	15.5	16.6
Ireland	63.6	61.6	56.9	45.0	33.0	neg	4.0	7.3	20.6	22.3	17.6	16.7	17.0	20.1	22.1	18.2	17.7	18.8	14.3	22.6
Italy	34.5	31.3	29.6	27.3	23.8	9.5	12.6	15.8	19.6	23.3	47.9	46.5	44.3	41.2	40.3	8.3	9.6	10.3	12.0	12.6
Luxembourg	nav	1.0	0.4	0.2	0.2	93.9	92.3	64.1	59.8	59.8	nav	nav	30.4	29.0	27.4	6.1	6.7	5.1	5.5	6.3
Netherlands <sup>3)</sup>	4.0	2.8	1.9	1.0	0.5	19.5	23.3	25.7	28.2	29.9	48.6	45.9	42.9	40.6	39.7	27.9	28.0	28.8	29.4	29.1
Austria <sup>4)</sup>	3.8	3.4	2.8	2.0	1.3	4.7	6.5	8.3	10.7	12.5	63.4	61.3	61.1	57.7	55.8	28.1	28.8	27.6	29.3	30.0
Portugal <sup>5)</sup>	45.6	42.8	39.8	34.1	29.0	34.3	39.5	44.0	47.2	50.6	7.7	6.1	6.3	6.3	7.7	11.3	10.7	9.2	11.9	12.1
Finland	0.5	0.4	0.2	0.1	0.1	35.4	35.3	36.0	36.7	38.7	60.3	61.0	60.0	58.7	56.6	3.2	3.4	3.8	4.4	4.5
Sweden	4.6	2.0	0.4	0.4	0.2	15.3	18.6	23.0	24.0	28.3	73.8	72.3	68.4	67.2	63.2	6.3	7.1	8.0	8.0	8.0
United Kingdom	37.5	34.5	31.8	28.8	26.1	26.9	29.3	31.5	34.3	36.6	18.6	18.5	18.3	18.1	17.9	16.9	17.7	18.4	18.8	19.4
EU <sup>6)</sup>	25.3	23.4	21.7	19.2	16.9	16.7	18.4	20.8	23.0	26.5	34.8	33.9	33.7	33.4	33.1	23.4	24.3	23.6	24.1	24.9
Euro area <sup>6)</sup>	23.6	22.0	20.5	18.0	16.2	14.2	15.6	18.1	20.2	22.0	37.1	36.0	35.9	35.7	36.2	25.4	26.3	25.3	25.8	27.3

1) The calculation method regarding credit transfers for the year 2000 includes only customer-initiated credit transfers.

2) For this table, data related to bills of exchange, traveller's cheques and other documents are excluded.

3) Payments by credit/debit cards include cards with a delayed debit function.

4) Credit cards: including delayed debit cards (charge cards); Credit transfers and direct debits: excluding items initiated by banks; these data are not available.

5) For this table, data related to bills of exchange have not been included.

6) Weighted average excluding countries where data are not available.



Table 14

## Relative importance of cashless payment instruments

(percentage of total value of cashless transactions)

	Cheques (%)				Payments by credit/debit cards (%)				Credit transfers (%)				Direct debits (%)				Card-based e-money (%)									
	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000	1996	1997	1998	1999	2000						
	Belgium	2.9	2.9	3.2	0.6	0.5	0.1	0.2	0.2	0.1	0.2	96.7	96.7	96.3	98.9	99.0	0.3	0.3	0.3	0.3	0.3	0.0001	0.0004	0.001	0.001	0.001
Denmark	36.3	35.1	31.0	24.0	20.8	3.2	3.3	3.3	3.6	3.7	53.7	54.9	58.4	64.3	66.8	6.8	6.7	7.3	8.1	8.6	0.001	0.001	0.001	0.002	0.002	0.002
Germany	8.8	7.9	7.2	3.9	3.4	0.2	0.2	0.3	0.3	0.4	79.2	79.3	79.0	83.9	86.3	11.8	12.6	13.5	11.9	10.0	nav	nav	nav	neg	neg	neg
Greece <sup>1)</sup>	nav	nav	nav	nav	3.3	nav	nav	nav	nav	0.1	nav	nav	nav	nav	96.5	nav	nav	nav	nav	0.1	nav	nav	nav	nav	nav	nav
Spain <sup>2)</sup>	31.3	35.1	42.1	38.7	35.6	0.7	0.8	1.1	1.2	1.2	60.8	55.6	46.2	47.2	45.8	7.1	8.5	10.6	12.9	17.5	neg	0.0003	0.0004	0.0003	0.0002	0.0002
France	4.0	3.9	2.6	2.9	2.9	0.2	0.2	0.1	0.2	0.2	95.0	95.1	96.6	96.2	96.2	0.8	0.8	0.6	0.7	0.8	nav	nav	nav	nav	nav	nav
Ireland	69.2	83.5	77.7	78.7	56.3	0.0	0.1	0.3	1.3	1.2	27.2	14.0	19.0	15.9	36.2	3.6	2.4	3.1	4.1	6.2	nav	nav	nav	neg	neg	nav
Italy	3.7	3.3	2.9	3.7	3.2	0.0	0.1	0.1	0.1	0.1	96.0	96.3	96.7	95.7	96.2	0.2	0.3	0.3	0.5	0.5	nav	nav	nav	neg	neg	neg
Luxembourg	nav	nav	0.1	0.03	0.02	nav	nav	6.2	4.5	4.4	nav	nav	93.0	94.8	94.8	nav	nav	0.7	0.7	0.8	nav	nav	nav	nav	nav	nav
Netherlands <sup>3)</sup>	0.3	0.2	0.1	0.1	0.1	1.0	1.1	1.2	1.4	1.4	93.7	93.8	93.8	93.4	93.5	5.0	4.9	4.9	5.2	5.1	nav	nav	nav	nav	nav	nav
Austria <sup>4)</sup>	4.5	3.7	3.0	2.3	1.8	0.4	0.4	0.4	0.5	0.6	90.8	87.1	85.3	89.1	89.7	4.3	8.7	11.3	8.1	7.9	0.0001	0.001	0.001	0.001	0.001	0.001
Portugal <sup>5)</sup>	9.0	7.5	6.5	10.4	11.4	0.2	0.2	0.2	0.4	0.5	90.1	91.7	92.8	88.3	87.0	0.7	0.6	0.5	0.9	1.0	0.0004	0.0003	0.0002	0.0002	0.0002	0.0002
Finland	9.3	7.3	6.9	6.4	7.1	0.6	0.7	0.7	0.8	0.9	80.1	83.8	84.5	85.4	83.8	0.6	0.9	1.0	1.0	1.2	neg	neg	neg	neg	neg	neg
Sweden	nav	nav	0.5	0.4	0.3	1.4	1.6	1.9	2.3	2.6	95.7	95.8	94.9	94.3	93.9	2.9	2.5	2.7	3.0	3.2	nav	nav	nav	0.003	0.004	0.002
United Kingdom	5.9	5.0	4.4	2.8	2.5	0.3	0.3	0.3	0.2	0.2	92.7	93.8	94.4	96.3	96.6	1.1	1.0	1.0	0.7	0.7	nav	nav	nav	nav	nav	nav
EU <sup>6)</sup>	9.6	9.6	9.4	8.1	7.2	0.4	0.4	0.4	0.5	0.5	85.9	85.4	84.9	86.2	87.1	4.3	4.7	5.2	5.0	5.0	0.0003	0.0004	0.001	0.001	0.001	0.001
Euro area <sup>6)</sup>	9.8	10.1	10.3	9.2	8.3	0.2	0.2	0.2	0.5	0.5	84.7	84.0	83.1	84.3	85.0	10.5	11.6	12.7	12.4	12.5	0.0002	0.0004	0.000	0.000	0.000	0.0005

1) The calculation method regarding credit transfers for the year 2000 includes only customer-initiated credit transfers.

2) For this table, data related to bills of exchange, traveller's cheques and other documents are excluded.

3) Payments by credit/debit cards include cards with a delayed debit function.

4) Credit cards: including delayed debit cards (charge cards); Credit transfers and direct debits: excluding items initiated by banks; these data are not available.

5) For this table, data related to bills of exchange have not been included.

6) Weighted average excluding countries where data are not available.

**Table 15**  
**Features of selected interbank funds transfer systems**

	Type	Owner/Manager	No. of participants <i>of which direct</i>		Processing	Settlement	Membership
<b>EUROPEAN UNION</b>							
<b>TARGET</b>							
ELLIPS (BE)	L	B+CB	94	17	RTT	RTGS	RM
DEBES (DK)	L	CB	111	34	RTT	RTGS	RM
ELS (DE)	L	CB	2,486	2,486	RTT	RTGS/GS	RM
EURO HERMES (GR)	L	CB	32	32	RTT	RTGS	RM
SLBE (ES)	L	CB	259	227	RTT	RTGS	RM
TBF (FR)	L	CB	651	200	RTT	RTGS	RM
IRIS RTGS (IE)	L	CB + B	23	23	RTGS	RTT	RM
BI-REL (IT)	L	CB	873	699	RTT	RTGS	RM
LIPS-Gross (LU)	L	B/CB	30	30	RTT	RTGS	RM
TOP (NL)	L	CB	163	105	RTT	RTGS	RM
ARTIS (AT)	L	CB	79	78	RTT	RTGS	RM
SPGT (PT)	L	CB	39	39	RTT	RTGS	RM
BoF-RTGS (FI)	L	CB	14	14	RTT	RTGS	RM
E-RIX (SE)	L	CB	18	18	RTT	RTGS	RM
CHAPS Euro (UK)	L	B+CB	104	20	RTT	RTGS	RM
<b>EURO 1</b>	L	B	72	72	RTT	SOS	RM
<b>BELGIUM</b>							
Clearing House	R	B+CB	91	39	RTT	N	O
CEC	R	B+CB	94	33	RTT	N	O
<b>DENMARK</b>							
DN-Inquiry and Transfer System	L	CB	105	105	RTT	RTGS	RM
Retail Clearing	R	B	214	69	ACH	N	O
<b>GERMANY <sup>1)</sup></b>							
RPS (former DTA)	R	CB	2,486	2,486	ACH	GS	O
EAF (former EAF2)	L	CB	67	67	RTT	N/BN	RM
<b>GREECE</b>							
HERMES	L	CB	39	39	RTT	RTGS	RM
DIAS	R	B+CB/AS	32	32	ACH	N	O
ACO	R	B+CB/AS	55	55	M	N	O
<b>SPAIN</b>							
SPI	L	B	177	37	RTT	N	O
SNCE	R	CB	244	27	RTT	BN	RM
<b>FRANCE</b>							
CH Paris	R	B/AS	368	25	M	N	RM
CH Province	R	CB	267	219	M	N	O
SIT	R	B/AS+B	311	17	RTT	N	RM
CREIC	R	CB	28	28	ACH	N	O
PNS	L	CB+B/AS	468	24	RTT	N/BN/RTGS	RM
<b>IRELAND</b>							
Retail Clearings <sup>2)</sup>	R	CB + B	12	7	GS	RTT	RM
<b>ITALY</b>							
Local clearing	R	CB	nav	140	RTT <sup>3)</sup>	N	O
Retail	R	CB <sup>4)</sup>	nav	211	ACH	N	O
<b>LUXEMBOURG</b>							
LIPS-Net	R	B/CB	13	13	ACH	N	O
<b>NETHERLANDS</b>							
Interpay	R	B	72	72	ACH	N	RM
<b>PORTUGAL</b>							
SICOI	R	B	57	36	RTT	N	RM
SLOD	R	CB	178	178	M	GS	O

	Type	Owner/Manager	No. of participants <i>of which direct</i>		Processing	Settlement	Membership
<b>FINLAND</b>							
PMJ	R	B	15	15	<sup>5)</sup>	BN	RM
POPS	L+R	B	9	9	RTT	N/GS	RM
<b>SWEDEN</b>							
K-RIX	L	CB	22	22	RTT	RTGS	RM
Bankgirot	R	B	20	20	ACH	N	O
Dataclearing	R	B	20	20	ACH	N	O
Postgirot <sup>6)</sup>	R	B	1,300,000	1,300,000	ACH	GS	O
<b>UNITED KINGDOM</b>							
CHAPS Sterling	L	B+CB	415	14	RTT	RTGS	RM
BACS	R	B	60,000	15	ACH	N	RM
Cheque and Credit Clearings	R	B	464	12	M	N	RM

Type: L = Large value; R = Retail.

Owner/manager: B = banks; CB = central banks; AS = Payment association.

Processing method: M = manual; ACH = Automated Clearing House (off-line); RTT = Real-time transmission.

N = multilateral netting; BN = bilateral netting; RTGS = real-time gross settlement; GS = other gross settlement;

SOS = single obligation structure.

O = open membership (any bank can apply) or RM = restricted membership (subject to criteria).

- 1) The EAF was closed down when RTGS<sup>plus</sup> opened for business on 5 November 2001; the ELS will be shut down three years after launching RTGS<sup>plus</sup>.
- 2) The retail clearings were carried out by the Dublin Bankers' Clearing until December 1998 when it was replaced by three functional clearing companies. These companies provide clearing facilities for paper debits, paper credits and electronic debits and credits. The data in this table from 1999 under the heading "Retail Clearings" represent the total activity of the three clearing companies.
- 3) Transactions can also be submitted on floppy disk.
- 4) System managed by SLA (Interbank Company for Automation) in the name and on behalf of the Banca d'Italia.
- 5) Batch processing and transmission.
- 6) Postgirot is a "quasi-system", i.e. transfer between accounts in special purpose bank. Non-banks can have accounts.

Table 15 (cont.)

## Features of selected interbank funds transfer systems

	Degree of centralisation	Pricing	Closing time for same-day transactions (local time)	Number of transactions (thousands)		Value of transactions (EUR billions)		Ratio of transactions value to GDP	
				1999	2000	1999	2000	1999	2000
<b>EUROPEAN UNION</b>									
<b>TARGET<sup>1)</sup></b>									
ELLIPS (BE)	C	F	18.00	1,970	2,360	19,430	21,252	82.5	85.6
DEBES (DK)	C	F	18.00	61	80	1,223	1,456	7.4	8.2
ELS (DE)	C	F	18.00	16,038	17,840	22,375	24,001	11.3	11.8
EURO HERMES (GR)	C	F	19.00	31	100	0.3	0.2	0.0	0.0
SLBE (ES) <sup>2)</sup>	C	F	18.00	2,301	2,401	31,357	34,414	55.5	56.5
TBF (FR)	C	F	18.00	2,263	3,025	65,540	68,157	48.5	48.5
IRIS RTGS (IE)	C	F	17.00	423	485	3,595	3,813	40.0	37.0
BI-REL (IT)	C	F	18.00	10,202	10,401	24,634	27,782	22.2	23.8
LIPS-Gross (LU)	C	F	18.00	214	267	2,962	3,827	160.1	185.8
TOP (NL)	C	F	18.00	3,258	3,744	15,385	18,366	41.2	45.8
ARTIS (AT)	C	F	18.00	742	1,049	3,416	4,424	17.4	21.6
SPGT (PT)	C	F	17.00	509	526	2,325	2,286	21.5	19.8
BoF-RTGS (FI)	C	F	19.00	449	400	4,369	4,674	36.3	35.5
E-RIX (SE)	C	F	18.00	47	62	1,446	1,718	6.4	6.9
CHAPS Euro (UK)	C	F	17.00	2,468	3,250	33,551	41,537	24.5	26.8
<b>EURO 1</b>	C	F	16.00	17,646	24,692	44,215	49,644	nap	nap
<b>BELGIUM</b>									
Clearing House	D	V	15.00	4,950	4,190	112	105	47.7	42.1
CEC	C	F	15.00	937,170	885,220	476	484	202.2	195.1
<b>DENMARK</b>									
DN-Inquiry and Transfer System	C	F	18.00	368	388	2,816	3,442	17.1	19.5
Retail Clearing	C/D	S	09.00	765,218	810,554	515	545	3.1	3.1
<b>GERMANY<sup>2)</sup></b>									
RPS (former DTA)	D	F	NO	2,176,220	2,226,589	2,241	2,245	1.1	1.1
EAF (former EAF2)	C	F	16.00	12,097	12,988	39,041	41,522	19.8	20.5
<b>GREECE</b>									
HERMES	C	F	19.00	nap	861	nap	4	nap	0.03
DIAS	C	V	16.00	11,721	25,951	40	55	0.3	0.4
ACO	D	V	15.30	5,488	5,408	783	247	6.7	2.0
<b>SPAIN</b>									
SPI	C	F	16.00	1,102	978	939	448	1.7	0.7
SNCE	C	V	NO	861,878	931,566	1,108	1,196	2.0	2.0
<b>FRANCE</b>									
CH Paris	C	F	nap	683,689	682,210	831	726	0.6	0.5
CH Province	D	N	nap	2,662,766	2,771,691	1,071	1,163	0.8	0.8
SIT	C	F	13.30	5,913,787	6,485,332	2,348	2,458	1.7	1.8
CREIC	D	V	nap	304,530	307,724	28	26	0.0	0.0
PNS	C	F	16.00	5,197	5,515	24,041	21,845	17.8	15.6
<b>IRELAND</b>									
Retail Clearings <sup>3)</sup>	C	F	13.45	276	285	339	455	4.0	4.0
<b>ITALY</b>									
Local clearing	C	V	12.00	103,942	109,438	710	720	0.6	0.6
Retail	C	F	NO <sup>4)</sup>	959,750	1,005,362	1,364	1,538	1.2	1.3
<b>LUXEMBOURG</b>									
LIPS-Net	C	F	16.00	11,800	12,400	36	44	2.0	2.1
<b>NETHERLANDS</b>									
Interpay	C	F	17.00	2,152,500	2,328,445	1,345	1,458	3.6	3.6
<b>PORTUGAL</b>									
SICOI	C	V	14.45	871,700	971,100	323	349	3.0	3.0
SLOD	C	F	17.00	20	22	38	54	0.4	0.5

	Degree of centralisation	Pricing	Closing time for same-day transactions (local time)	Number of transactions (thousands)		Value of transactions (EUR billions)		Ratio of transactions value to GDP	
				1999	2000	1999	2000	1999	2000
<b>FINLAND</b>									
PMJ	D	F	15.30	306,660	345,000	117	144	1.0	1.1
POPS	D	F	16.30	1,174	900	319	369	2.6	2.8
<b>SWEDEN</b>									
K-RIX	C	F	17.00	343	510	11,459	12,693	50.3	51.1
Bankgirot	C	F	<sup>5)</sup>	338,000	351,000	371	442	1.6	1.8
Dataclearing	C	F	<sup>5)</sup>	84,980	78,217	172	160	0.8	0.6
Postgirot	C	F	<sup>5)</sup>	458,000	454,000	461	484	2.0	1.9
<b>UNITED KINGDOM</b>									
CHAPS Sterling	C	F	17.00	19,786	21,705	67,836	80,636	49.6	52.1
BACS	C	F	NO	3,096,000	3,317,000	2,674	3,154	2.0	2.0
Cheque and Credit Clearings	D	F	NO	2,158,000	2,033,000	2,235	2,384	1.6	1.5

Geographical access to the system: C = centralised (one processing centre only) or D = decentralised

Fees charged to participants: F = full costs (including investments); V = variable costs; S = symbolic (below variable cost); N = no costs.

Closing time for same-day transactions (C.E.T.).

- 1) Domestic payments in each RTGS system participating in or connected to TARGET and cross-border payments sent by each RTGS system participating in or connected to TARGET.
- 2) The EAF was closed down when RTGS<sup>plus</sup> opened for business on 5 November 2001; the ELS will be shut down three years after launching RTGS<sup>plus</sup>.
- 3) The retail clearings were carried out by the Dublin Bankers' Clearing until December 1998 when it was replaced by three functional clearing companies. These companies provide clearing facilities for paper debits, paper credits and electronic debits and credits. The data in this table from 1999 under the heading "Retail Clearings" represent the total activity of the three clearing companies.
- 4) Except for credit transfers entered before 10 a.m. which are settled on the same day.
- 5) No same-day transactions.

Table 16

## Operating hours of selected large-value interbank funds transfer systems

System	Gross (G) or net (N)	Opening/closing time for same-day value (local time)	Settlement finality	Cut-off for all third-party payment orders (local time)	Cut-off for international correspondents' payment orders (local time)	Memo item: Standard money market hours (local time)
<b>EUROPEAN UNION</b>						
<b>TARGET</b>						
ELLIPS (BE)	G	07.00 / 18.00	real-time	17.00	18.00	07.00 / 18.00
DEBES (DK)	G	07.00 / 18.00	real-time	17.00	17.00	nap
ELS (DE)	G	07.00 / 18.00	real-time	17.00	nap	08.30 / 18.00
EURO HERMES (GR)	G	08.00 / 19.00	real-time	18.00	nap	nap
SLBE (ES)	G	07.00 / 18.00	real-time	17.00	nap	07.00 / 18.00
TBF (FR)	G	07.00 / 18.00	real-time	17.00	nap	19.00 / 17.00
IRIS (IE)	G	06.00 / 17.00	real-time	16.00	17.00	06.00 / 17.00
BI-REL (IT)	G	07.00 / 18.00	real-time	17.00	nap	07.00 / 18.00
LIPS-Gross (LU)	G	07.00 / 18.00	real-time	17.00	nap	nap
TOP (NL)	G	07.00 / 18.00	real-time	17.00	17.00	07.00 / 18.00
ARTIS (AT)	G	07.00 / 18.00	real-time	17.00	18.00	18.30
SPGT (PT)	G	06.00 / 17.00	real-time	16.00	16.00	07.00 / 17.00
BoF-RTGS (FI)	G	08.00 / 19.00	real-time	18.00 <sup>1)</sup>	<sup>2)</sup>	08.00 / 19.00
E-RIX (SE)	G	07.00 / 18.00	real-time	17.00	18.00	09.00 / 16.15
CHAPS Euro (UK)	G	06.00 / 17.00	real-time	16.00	16.00	nap
<b>EURO 1</b>	N	07.30 / 16.00	after 16.00	16.00	16.00	07.00 / 18.00
<b>DENMARK</b>						
DN Inquiry and Transfer System	G	08.00 / 15.30	real-time	15.30	15.30	08.30 / 16.00
<b>GERMANY</b> <sup>3)</sup>						
EAF (former EAF2)	G/N	07.00 / 16.00 <sup>4)</sup>	17.00 (at the latest)	16.00 <sup>5)</sup>	8.00 <sup>6)</sup>	08.30 / 18.00
<b>GREECE</b>						
HERMES	G	08.00 / 19.00	real-time	18.00	nap	09.00 / 18.30
<b>SPAIN</b>						
SPI	N	0.00 / 16.00	16.00 / 16.15	16.00	nap	07.00 / 18.00
<b>FRANCE</b>						
PNS	G/N	08.00 / 16.00	real-time	16.00	nap	09.00 / 17.00
<b>PORTUGAL</b>						
SLOD	G	06.00 / 17.00	nap <sup>7)</sup>	16.00	16.00	07.00 / 17.00
<b>FINLAND</b>						
POPS	G/N	08.00 / 16.30	<sup>8)</sup>	16.30	nap.	08.00 / 19.00
<b>SWEDEN</b>						
K-RIX	G	07.00 / 17.00	real-time	17.00	17.00	09.00 / 16.15
<b>UNITED KINGDOM</b>						
CHAPS Sterling	G	06.00 / 17.00	real-time	16.00	16.00	07.00 / 16.00

Some systems do not make an explicit distinction between large-value and retail transactions and may be used to settle interbank transfers relating to a variety of underlying transactions. Some systems may also accept payment orders for a number of value days. Memo item: Standard money market hours (local time): Money market hours indicated refer to the time period in which domestic interbank transactions are normally carried out. They do not therefore relate to particular interbank funds transfer systems.

- 1) This is a general direction. There are also individual agreements between banks and their customers.
- 2) Bank of Finland applies the 8.00 rule, but if necessary, as long as TARGET is open.
- 3) The EAF was closed down when RTGS<sup>plus</sup> opened for business on 5 November 2001; the ELS will be shut down three years after launching RTGS<sup>plus</sup>.
- 4) The initialization period for collateral pledging/valuation, setting of bilateral limits etc begins at 07.00. The payment message exchange period begins at 08.00.
- 5) This is subject to arrangements between correspondent banks.
- 6) SWIFT guideline, in practise may be later.
- 7) SLOD is a semi-automated system. Settlement is only final when the sender account is debited, which may occur anytime during operating hours.
- 8) In net settlement, the payment becomes final and irrevocable when the payment has had an effect on the bilateral net position.

**Table 17**  
**Features of selected securities settlement systems**

Name of the system	BE		DK	DE	GR		ES		FR		IE	IT		NL	AT	PT		FI		SE		UK	
	NBB clearing	CIK			ASE's CSD	BOGS	SCLV AMAF	RGV	RELIT	CBISSO <sup>6)</sup>		LDT	EXPRESS <sup>5)</sup> Monte Titoli Spa			Monte Titoli Spa	Neireg <sup>7)</sup>	DS System	SITEME	INTER-BOLSA	APK Money Market	APK Shares	VPC
Type of securities	G, O	E, O	G, B, S, O	G, S, B	B	B, S, O	G	S, B	B, C, G, O	B, C, G, O	G	G, S, B, O	G, S, B, O	G, C, B, S, O	G, O	B, S, O	G, C, O, B	S	G, E, O	O	C, O	G, B, S, O	
Owner/manager	VP	VP	VP	B, SE	SE	SE, O	CB	SE	Euroclear France	Euroclear France	CB	Monte Titoli Spa	Monte Titoli Spa	B	CB	INTER-BOLSA	CB, B, O	CB, B, O	B+O	O	O	B, S, E, O	
Number of participants of which direct participants	151	113	266	420	82	125	96	109	659 <sup>3)</sup>	659 <sup>3)</sup>	36	1,582	1,582	131	1	map	15	23	55	63	70	28,489	
Settlement of cash leg	151	113	266	420	nav	125	96	nav	335 <sup>4)</sup>	335 <sup>4)</sup>	36	630	630	105	1	map	15	23	55	63	map	map	
Securities settlement (delivery)	G	G	N	RTGS, N	N	RTGS	N	N	RTGS	RTGS	N	G	G	RTGS	RTGS/INTER-BOLSA	N	RTGS	N	G/N	N	N	N	
Delivery lag (T+n)	T+2, T+3 <sup>1)</sup>	T+3	T+3	T+0-40	T+1	T+3	T+3	T+3	from T to T+100	from T to T+30	T+3	T	T	from T to T+60	10/15 minutes	T+3	T+2, T+3	T+3	T+3	T	T	T+5, T+1	
DVP mechanism	DVP1	DVP1	DVP1	2)	DVP2	DVP2	DVP1	DVP2	DVP1	DVP2	DVP2/3	DVP3	DVP3	DVP2	DVP1	DVP3	DVP1+2	DVP2	Y	N	DVP2	DVP2	
Intraday finality	Y	Y	Y	Y	N	Y	Y	N	N	N	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	
Central securities depository	NBB	CIK	VP	Clearstream Banking Frankfurt	SCLV	ACSD	BOGS	SCLV	Euroclear France	Euroclear France	CBISSO <sup>6)</sup>	Monte Titoli	Monte Titoli	OeKB	INTER-BOLSA	INTER-BOLSA	APK	APK	VPC	OM	CMO	map	
Cash settlement agent	NBB	NBB	CB, B	CB	CB <sup>4)</sup>	B	CB	CB <sup>4)</sup>	CB	CB	CB	map	map	B, CB	CB	CB	CB	CB	CB	CB	CB	B, CB	
Number of transactions (thousands)	115	248	6,800	124,970	140	21,973	135	75,070	40,800 <sup>5)</sup>	40,800 <sup>5)</sup>	21,301	1,396 <sup>10)</sup>	3,170	172	8,652	5,848	56	4,278	7,740	57,900	201	59,086	
Value of transactions (EUR billions)	2,372	76	130,600	nav	141	100	1,081	1,042	36,835 <sup>5)</sup>	36,835 <sup>5)</sup>	0.3	nav	933	116 <sup>11)</sup>	360	13	489	551	8,974	528	3,946	79,893	
Ratio of transactions value to GDP (at annual rate)	10	0.3	nav	nav	0.2	1	9	2	26.22 <sup>5)</sup>	26.22 <sup>5)</sup>	neg	nav	2	0.6	3	0.1	4	4	36	2	3	52	

Type: G = Government securities; F = Equity; B = Bonds; C = CDs (certificates of deposit); O = Other.

Owner/Manager: B = Banks; CB = Central Banks; SE = Stock Exchange; O = Other.

Settlement of cash leg: G = Gross; N = Net; RTGS = Real-Time Gross Settlement.

DVP mechanisms: DVP schemes as defined by the G10 Group:

DVP 1: In model 1, transfer instructions for both securities and funds are settled on a trade-by-trade basis, with final transfer of securities from the seller to the buyer (delivery) occurring at the same time as final transfer of the funds from the buyer to the seller (payment).

DVP 2: In model 2, securities transfer instructions are settled on a gross basis with final transfer of securities from the seller to the buyer (delivery) occurring throughout the processing cycle, but funds transfer instructions are settled on a net basis, with final transfers of funds from the buyer to the seller (payment) occurring at the end of the processing cycle.

DVP 3: In model 3, transfer instructions for both securities and funds are settled on a net basis, with final transfers of both securities and funds occurring at the end of the processing cycle.

Intraday finality: Y = yes; N = no.

Cash Settlement Agent: B = banks; CB = central banks; SE = stock exchange; O = others.

1) T+2 for treasury bills; T+3 for bonds.

2) Mixture of model DVP 2 + DVP 3 (securities disposition on a gross basis without finality until final settlement of net cash position).

3) Central de Anotaciones de Deuda Española, formerly known as the SACDE.

4) Servicio de Liquidación de Banco de España, formerly known as STMD.

5) Euroclear France: RGV + Reli.

6) With effect from 4 December 2000 the settlement of Irish government bonds has been outsourced to Euroclear.

Accordingly, details of CBISSO participants relate to close of business on 1 December 2000.

7) T+2 for government bills.

8) Since 20 November 2000.

9) Number of accounts.

10) Free Of Payment (FOP) transfers not including multilateral net balances from Ldt.

11) Value of free transfers not included.

**Table 18**

**Direct participants in EU RTGS systems**

Name of the system	BE	DK		DE	GR		ES	FR	IE	IT	LU	NL	AT	PT	FI	SE		UK	
	ELLIPS	DN-Inquiry and Transfer System	DEBES	ELS	HERMES	EURO HERMES	SLBE	TBF	IRIS RTGS	BI-REL	LIPS-GROSS	TOP	ARTIS	SPGT	BoF-RTGS	K-RIX	E-RIX	CHAPS sterling	CHAPS Euro
Direct participants	17	105	34	2,486	39	32	227	200	23	699	32	105	78	39	15	22	18	14	20
Credit institutions	15	95	34	2,485	38	31	191	170	21	687	31	94	76	37	11	17	13	13	19
Central bank	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Non-banks	1	10	0	0	0	0	35	29	1	11 <sup>1)</sup>	0	10 <sup>2)</sup>	1	1	3	4	4	0	0
of which:																			
public authorities	0	4	0	0	0	0	8	nap	1	0	0	2	0	1	1	nap	nap	0	0
postal administration	1	0	0	0	0	0	0	1	nap	1	0	0	0	nap	nap	nap	nap	0	0
supervised financial institutions	0	6	0	0	0	0	27	28	nap	8	0	4	1	nap	2	4	4	0	0

1) Including two foreign investment firms.

2) Including four others (clearing and settlement organisations).



**Table 19**  
**Direct participants in EU large-value payment systems**

	DE	ES	FR	IE	FI
Name of the system	EAF	SPI	PNS	IRIS RTGS	POPS
Direct participants	67	37	24	23	9
Credit institutions	67	36	23	21	9
Central bank	0	1	nap	1	nap
Non-banks	0	nap	1	1	nap
<i>of which:</i>					
<i>public authorities</i>	0	nap	nap	1	nap
<i>postal administration</i>	0	nap	1	0	nap
<i>supervised financial institutions</i>	0	nap	nap	0	nap

**Table 20**

**Direct participants in EU retail IFTSs**

Name of the system	BE		DK	DE	GR		ES	FR		IE	IT		LU	NL	PT		FI	SE		UK		
	CEC	Clearing house	Retail Clearing	RPS	DIAS	ACO	SNCE	CH and CREIC	SIT	Retail (Clearings 1)	Retail system	Local clearing	LIPS-Net	INTERPAY	SICOI	SLOD	PMI	Bankgirot	Dataclearing	Postgirot	BACS	Cheque and Credit Clearing
Direct participants	33	39	69	2,486	32	55	27	244	17	7	140	211	13	72	40	178	9	20	20	1,300,000	15	12
Credit institutions	29	36	68	2,485	31	54	26	240	15	6	137	209	12	71	38	125	9	20	20	nap	14	11
Central bank	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	nap	nap	nap	nap	nap	1	1
Non-banks	3	2	0	0	0	0	nap	3	1	nap	2	1	1	nap	1	53	nap	nap	nap	1,300,000	0	0
of which:																						
public authorities	2	1	0	0	0	0	nap	2		nap	1	0	0	nap	1	nap	nap	nap	nap	1,300,000	0	0
postal administration	1	1	0	0	0	0	nap	1	1	nap	1	1	1	nap	nap	nap	nap	nap	nap	nap	0	0
supervised financial institutions	0	0	0	0	0	0	nap	nap	nap	nap	0	0	0	nap	nap	53	nap	nap	nap	nap	0	0

1) The retail clearings were carried out by the Dublin Bankers' Clearing until December 1998 when it was replaced by three functional clearing companies. These companies provide clearing facilities for paper debits, paper credits and electronic debits and credits. The data in this table from 1999 under the heading "Retail Clearings" represent the total activity of the three clearing companies.

**Table 21**  
**Access criteria of EU RTGS systems**

	BE	DK	DE	GR	ES	FR	IE	IT	LU	NL	AT	PT	FI	SE	UK					
Name of the system	ELLIPS	DN-Inquiry and Transfer System	DEBES	ELLS	HERMES	HERMES	EURO HERMES	SLBE	TBF	IRIS RTGS	BIREL	LIPS-Gross	TOP	ARTIS	SPGT	BoF-RTGS	K-RIX	E-RIX	CHAPS Sterling/Euro	
Written rules	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Minimum level of data or ratios representative of the financial strength	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Minimum number of transactions	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Payment of an entry fee	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Approval from the owner/manager or the direct participants	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Approval from the local central bank	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Technical requirements	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Removal rules	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Key: + = yes, - = no

**Table 22**  
**Access criteria of other EU large-value payment systems**

Access criteria	DE	ES	FR	FI
	EAF	SPI	PNS	POPS
Written rules	+	+	+	+
Minimum level of data or ratios representative of financial strength	-	+	-	-
Minimum number of transactions	+	-	-	+
Payment of an entry fee	-	+	+	+
Approval from the owner/manager or the direct participants	-	+	+	+
Approval from the local central bank	+	+	+	+
Technical requirements	+	+	+	+
Removal rules	+	+	+	+

Key: + = yes, - = no

**Table 23****Risk control measures in EU large-value NSSs**

	DE EAF <sup>1)</sup>	ES SPI	FR PNS	FI POPS
<b>1. Settlement in central banks' accounts</b>		+	+	+
<b>2. Same-day settlement</b>		+	+	+
<b>3. Compliance with Lamfalussy standards</b>		+	+	+
1. Legal framework			+	
<i>contractual (+) or advisory (-) netting</i>		+	<i>nap</i> <sup>2)</sup>	+
<i>if contractual: legally enforceable (+) or not (-)</i>		+		+
2. Participants' awareness		+	+	+
3. Risk management		+	+	+
<i>monitoring of intraday balance</i>		+	<i>nap</i> <sup>3)</sup>	+
<i>multilateral limits</i>		+	<i>nap</i> <sup>3)</sup>	- <sup>5)</sup>
<i>collateral requirements</i>		+	<i>nap</i> <sup>3)</sup>	-
<i>intraday closures</i>		-	<i>nap</i> <sup>4)</sup>	+
4. Timely settlement completion		+	+	6)
<i>risk-sharing agreements</i>		+	<i>nap</i> <sup>2)</sup>	-
<i>full collateralisation of largest net debit position</i>		+	<i>nap</i> <sup>3)</sup>	-
5. Fair open access		+	+	+
6. Technical reliability		+	+	+

Key : + = yes, - = no.

1) Transformed into a hybrid system in March 1996; the risk situation is comparable to that of a gross settlement system.

2) PNS is an hybrid system; the legal and risk framework is comparable to that of an RTGS system.

3) PNS functions on the basis of positive balances, i.e. multilateral debit cap set to 0.

4) Continuous settlement mechanism.

5) The settlement method applied to POPS payments depends on the value of the transfer. Payments exceeding the interbank bilateral limit - the RTGS limit - are settled on a gross basis in the BoF-RTGS system. Smaller payments are netted bilaterally so that banks' net positions vis-à-vis each other are updated constantly during the day by the exchange of payment clearing data. When an interbank bilateral net debit cap nears its limit, the indebted bank is obliged to effect a covering transfer in the BoF-RTGS system to clear the limit. At the end of the day funds transfers are effected to clear bilateral debt positions.

6) Risk-sharing agreements have not been implemented owing to the small number of participants and the possibility of reducing risks by adjusting the bilateral limits. Collateralisation has not been implemented owing to the bilateral structure. The POPS limits are small and incorporated in overall interbank limits.

**Table 2.4a**  
**SWIFT traffic: intra-EU message flows in 2000**  
(in 2000, number of messages)

From/to	Belgium	Denmark	Germany	Greece	Spain	France	Ireland	Italy	Luxembourg	Netherlands	Austria	Portugal	Finland	Sweden	United Kingdom	Total EU	Total non-EU	Total all countries
Belgium	11,035,995	296,095	3,814,314	188,494	1,056,212	3,476,712	600,362	1,954,999	2,981,000	4,524,166	383,747	249,789	280,349	392,800	11,197,820	42,432,854	15,439,666	57,872,520
Denmark	389,229	2,005,430	1,591,395	40,580	148,376	359,765	53,781	316,875	259,591	466,828	106,389	50,700	251,907	1,103,533	1,740,515	8,884,894	4,311,096	13,195,990
Germany	3,819,724	1,240,564	8,361,796	712,733	1,958,339	4,724,924	525,195	5,350,361	3,281,674	4,072,295	4,020,871	538,433	477,891	984,431	15,656,329	55,725,560	34,593,193	90,318,753
Greece	251,599	50,055	651,502	4,140,522	106,020	340,061	22,382	571,355	195,337	135,717	61,537	25,540	13,460	53,212	1,502,312	8,120,611	2,360,002	10,480,613
Spain	962,071	155,745	2,222,456	83,780	2,664,042	1,851,358	115,958	1,351,730	665,243	678,607	133,272	586,362	43,555	140,557	5,781,854	17,436,590	8,002,730	25,439,320
France	3,047,158	332,110	5,337,404	192,082	1,767,804	20,520,170	219,702	2,986,479	1,927,072	1,764,615	340,868	450,950	155,646	369,513	11,880,784	51,292,357	19,837,606	71,129,963
Ireland	238,091	44,049	450,544	18,831	90,200	183,829	1,457,488	140,907	108,493	313,282	33,159	24,627	16,241	46,792	1,440,099	4,606,632	1,807,108	6,413,740
Luxembourg	1,660,110	253,407	4,794,099	278,612	951,738	3,075,365	150,284	3,800,121	1,417,276	850,785	699,579	166,040	71,658	216,300	8,805,743	27,191,117	12,354,431	39,545,548
Netherlands	2,613,173	199,094	2,764,980	171,363	260,996	2,123,153	53,349	1,767,103	7,180,233	1,277,724	220,937	171,527	142,880	314,166	2,938,456	22,199,134	9,878,204	32,077,338
Austria	4,164,267	331,461	5,135,962	99,697	525,889	1,779,578	335,372	885,160	1,160,607	12,773,789	354,903	145,092	152,919	358,300	12,313,627	40,516,623	13,513,833	54,030,456
Portugal	347,716	113,895	4,579,025	63,674	145,227	382,875	41,820	961,866	180,602	398,554	4,342,000	41,364	50,053	116,571	1,289,619	13,054,861	5,184,510	18,239,371
Finland	266,096	48,838	595,508	21,085	779,419	520,977	22,583	353,823	118,673	184,373	43,979	300,786	13,330	40,836	1,007,686	4,317,992	1,399,733	5,717,725
Sweden	532,809	432,525	845,365	15,652	90,838	213,488	22,230	175,948	317,149	269,971	64,809	21,137	731,391	1,016,592	2,601,008	7,350,912	2,712,592	10,063,504
United Kingdom	933,434	1,341,103	1,301,383	101,234	219,720	818,639	72,868	379,307	599,709	508,841	140,290	65,008	785,283	3,519,450	5,202,550	16,188,819	6,388,094	22,576,913
Total EU	51,202,532	1,652,173	13,006,904	753,745	2,957,389	7,704,094	2,183,287	6,212,218	2,857,401	6,075,587	995,498	685,066	1,350,308	3,308,940	51,680,311	106,543,453	72,141,481	178,684,934
Total non-EU	35,382,004	8,496,544	55,652,637	6,882,084	13,722,209	48,074,988	5,876,661	27,208,232	23,250,060	34,295,134	11,941,838	3,522,421	4,536,871	11,981,993	135,038,713	425,862,409	209,924,279	635,786,688
Total all countries	13,157,832	3,765,598	33,199,465	1,517,979	6,486,278	19,182,034	2,830,610	12,655,645	9,487,060	10,352,779	5,115,183	1,235,263	1,859,329	4,862,478	73,312,941	199,020,474	439,105,592	638,126,066
	48,539,836	12,262,142	88,852,102	8,400,063	20,208,487	67,257,022	8,707,271	39,863,897	32,737,120	44,647,913	17,057,021	4,757,684	6,396,200	16,844,471	208,351,654	624,882,883	649,029,871	1,273,912,754

**Table 24b****Geographical breakdown of SWIFT message flows**

(in 2000)

	Messages sent			Messages received		
	Total	To domestic users (% of total)	To other EU countries (% of total)	Total	From domestic users (% of total)	From other EU countries (% of total)
Belgium	57,872,520	19%	54%	48,539,836	23%	50%
Denmark	13,195,990	15%	52%	12,262,142	16%	53%
Germany	90,318,753	9%	52%	88,852,102	9%	53%
Greece	10,480,613	40%	38%	8,400,063	49%	33%
Spain	25,439,320	10%	58%	20,208,487	13%	55%
France	71,129,963	29%	43%	67,257,022	31%	41%
Ireland	6,413,740	23%	49%	8,707,271	17%	51%
Italy	39,545,548	10%	59%	39,863,897	10%	59%
Luxembourg	32,077,338	22%	47%	32,737,120	22%	49%
Netherlands	54,030,456	24%	51%	44,647,913	29%	48%
Austria	18,239,371	24%	48%	17,057,021	25%	45%
Portugal	5,717,725	5%	70%	4,757,684	6%	68%
Finland	10,063,504	7%	66%	6,396,200	11%	59%
Sweden	22,576,913	16%	56%	16,844,471	21%	50%
United Kingdom	178,684,934	29%	31%	208,351,654	25%	40%
<b>Total EU</b>	<b>635,786,688</b>	<b>21%</b>	<b>46%</b>	<b>624,882,883</b>	<b>22%</b>	<b>47%</b>
<b>Total non-EU</b>	<b>638,126,066</b>	<b>22%</b>	<b>9%</b>	<b>649,029,871</b>	<b>22%</b>	<b>11%</b>
<b>Total all countries</b>	<b>1,273,912,754</b>	<b>22%</b>	<b>28%</b>	<b>1,273,912,754</b>	<b>22%</b>	<b>28%</b>

**Table 24c****SWIFT members, sub-members and participants in EU countries**

(in 2000)

	Number of users of the SWIFT network			
	Members	Sub-members	Participants	Total number of users
Belgium	23	42	19	84
Denmark	25	11	17	53
Germany	118	108	47	273
Greece	17	21	5	43
Spain	42	55	11	108
France	68	99	88	255
Ireland	12	35	24	71
Italy	150	60	42	252
Luxembourg	21	134	17	172
Netherlands	25	40	25	90
Austria	47	18	23	88
Portugal	25	19	8	52
Finland	8	5	3	16
Sweden	7	11	13	31
United Kingdom	60	294	119	473
Total EU	648	952	461	2,061
Total non-EU	1,659	2,085	1,488	5,232
Total all countries	2,307	3,037	1,949	7,293



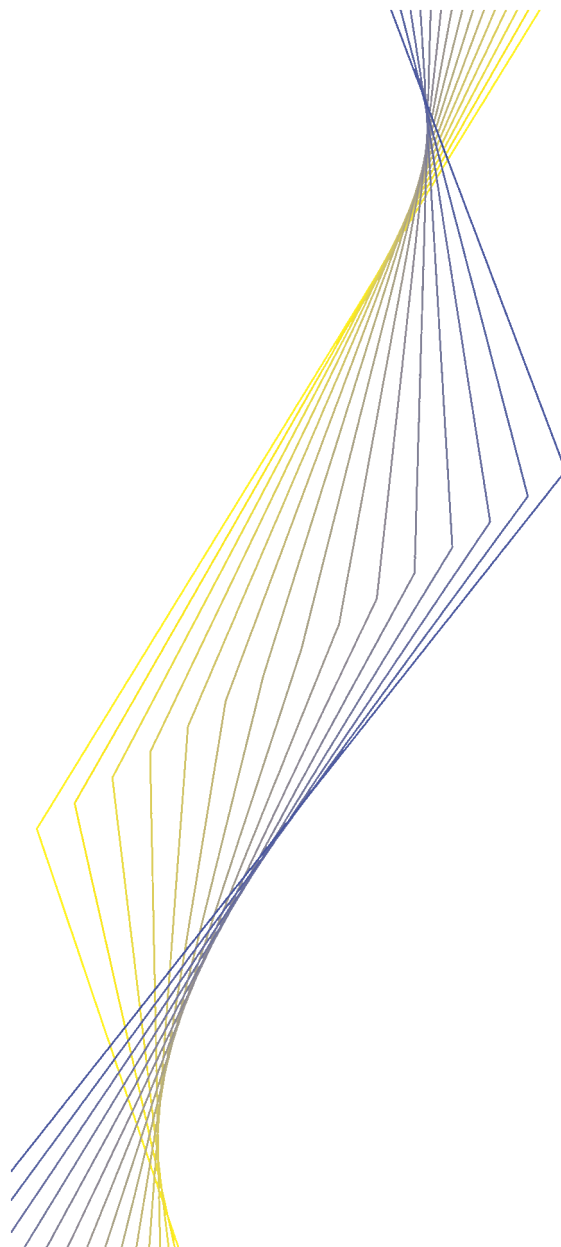
**Table 24d****Relative share of EU countries in SWIFT traffic, membership and shareholding**

(in 2000)

	Share of messages		Share of total		Share of equity holding	
	sent (%)	received (%)	members (%)	users (%)	quantity	percentage (%)
Belgium	5%	4%	1%	1%	2,205	3%
Denmark	1%	1%	1%	1%	1,083	1%
Germany	7%	7%	5%	4%	6,720	8%
Greece	1%	1%	1%	1%	548	1%
Spain	2%	2%	2%	1%	2,021	2%
France	6%	5%	3%	3%	6,722	8%
Ireland	1%	1%	1%	1%	524	1%
Italy	3%	3%	7%	3%	3,326	4%
Luxembourg	3%	3%	1%	2%	1,192	1%
Netherlands	4%	4%	1%	1%	4,126	5%
Austria	1%	1%	2%	1%	1,731	2%
Portugal	0.4%	0.4%	1%	1%	679	1%
Finland	1%	1%	0.3%	0.2%	755	1%
Sweden	2%	1%	0.3%	0.4%	1,531	2%
United Kingdom	14%	16%	3%	6%	5,573	6%
Total EU	50%	49%	28%	28%	38,736	45%
Total non-EU	50%	51%	97%	94%	48,019	55%
Total all countries	100%	100%	100%	100%	86,755	100%



EUROPEAN CENTRAL BANK



## **Country tables**

**Belgium**

**July 2002**



**Table 1****Basic statistical data**

	1996	1997	1998	1999	2000
Population (thousands)	10,155	10,180	10,203	10,222	10,254
GDP (EUR billions) <sup>1)</sup>	212.7	216.4	224.3	235.5	248.3
GDP per capita (EUR) <sup>1)</sup>	20,940	21,257	21,985	23,042	24,219
Exchange rate (domestic currency vis-à-vis ECU/EUR):					
end of year <sup>2)</sup>	40.1021	40.7675	40.3399	40.3399	40.3399
average <sup>2)</sup>	39.2986	40.5332	40.6207	40.3399	40.3399

1) Prior to 1999, converted using the BEF/ECU exchange rate. In the following tables, the irrevocable conversion rate to the euro has been used for data prior to 1999.

2) Irrevocable conversion rates were adopted with the introduction of the euro on 1 January 1999.

**Table 2****Settlement media used by non-banks**

(end of year, EUR billions)

	1996	1997	1998	1999	2000
Banknotes and coins	10.80	10.94	10.88	12.00	11.87
Transferable deposits	28.5	30.4	34.8	46.9	49.6
Other	nav	nav	nav	nav	nav
Narrow money supply (M1)	39.3	41.3	45.7	58.9	61.4
Memorandum items:					
Broad money supply	179.2	185.9	197.1	210.3	213.4
Transferable deposits in foreign currencies <sup>1)</sup>	4.81	5.68	7.09	3.72	4.60
Outstanding value on e-money schemes					
of which:					
on card-based products	0.003	0.016	0.028	0.038	0.049
on network-based products	nav	nav	nav	nav	nav

1) All deposits made by Belgian residents in Belgium in foreign currencies until 1998, and in non-euro area currencies from 1999.

**Table 3****Settlement media used by banks**

(end of year, EUR billions)

	1996	1997	1998	1999	2000
Transferable balances held at central bank	nav	nav	0.84	7.34	7.25
of which:					
required reserves <sup>1)</sup>	nav	nav	0.82	7.29	7.25
free reserves <sup>2)</sup>	0.06	0.03	0.02	0.05	neg
Transferable balances held at other banks <sup>3)</sup>	4.08	4.51	4.6	6.46	7.04
Memorandum item:					
Institutions' borrowing from central bank	0.03	0.11	0.12	neg	neg

1) In preparation for the introduction of the euro, the NBB carried out tests on required reserves in September 1998.

2) Until 1998: average of end-of-month figures; 1999: end-of-year figures.

3) Payment means held by Belgian credit institutions with other credit institutions (sight accounts, BEF and foreign currencies, in Belgium and abroad).

**Table 4**  
**Banknotes and coins**

(end of year, total value, EUR billions and BEF billions)

	1996		1997		1998		1999		2000	
	EUR	BEF	EUR	BEF	EUR	BEF	EUR	BEF	EUR	BEF
Total banknotes issued	11.52	464.7	11.86	478.6	11.97	482.9	13.43	541.9	13.48	543.6
<i>of which:</i>										
<i>BEF 10,000</i>	5.59	225.7	5.46	220.1	5.71	230.4	6.69	269.7	6.81	274.8
<i>BEF 2,000</i>	3.34	134.6	3.95	159.2	3.86	155.6	4.12	166.2	4.05	163.2
<i>BEF 1,000</i>	1.86	75.0	1.70	68.6	1.63	65.7	1.80	72.7	1.81	73.0
<i>BEF 500</i>	0.34	13.6	0.35	14.3	0.36	14.7	0.40	16.0	0.39	15.7
<i>BEF 200</i> <sup>1)</sup>	0.12	4.9	0.14	5.6	0.15	6.0	0.16	6.5	0.16	6.6
<i>BEF 100</i>	0.27	10.9	0.27	10.8	0.26	10.5	0.27	10.8	0.26	10.3
Total coins issued	0.53	21.5	0.56	22.5	0.57	23.0	0.60	24.1	0.59	24.0
<i>of which:</i>										
<i>BEF 500</i>	0.005	0.2	0.005	0.2	0.005	0.2	0.005	0.2	0.005	0.2
<i>BEF 250</i>	0.002	0.1	0.002	0.1	0.002	0.1	0.002	0.1	0.002	0.1
<i>BEF 50</i>	0.22	8.7	0.23	9.1	0.23	9.3	0.24	9.8	0.24	9.7
<i>BEF 20</i>	0.19	7.6	0.20	7.9	0.20	8.0	0.21	8.3	0.20	8.2
<i>BEF 5</i>	0.07	3.0	0.08	3.2	0.08	3.3	0.09	3.5	0.09	3.5
<i>BEF 1</i>	0.04	1.6	0.04	1.7	0.04	1.8	0.05	1.9	0.05	2.0
<i>BEF 0.5</i>	0.01	0.3	0.01	0.3	0.01	0.3	0.01	0.3	0.01	0.3
Total banknotes and coins issued	12.05	486.2	12.42	501.1	12.54	505.9	14.03	566.0	14.07	567.6
Banknotes and coins held by credit institutions	1.25	50.4	1.48	59.8	1.66	67.1	2.03	81.9	2.20	88.8
Banknotes and coins in circulation outside credit institutions	10.80	435.8	10.94	441.3	10.88	438.8	12.00	484.1	11.87	478.8

1) The BEF 200 banknote was first issued on 25 January 1996.

**Table 5****Institutional framework**

(end of 2000)

Categories	Number of institutions	Number of branches	Number of accounts (thousands)	Number of internet-linked accounts	Value of accounts (EUR billions)
Central bank	1	8	2	nav	0.51
Credit institutions <sup>1)</sup>	119	6,610	12,558	nav	49.10
Postal institution <sup>2)</sup>	1	1,384	5	nav	nav
Total	121	8,002	12,565	nav	49.61
<i>of which:</i>					
<i>virtual institutions</i>	<i>1</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Branches of foreign banks	47	nav	nav	nav	nav
<i>of which:</i>					
<i>EU-based</i>	<i>34</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>

1) Number of branches: excluding those branches offering only a limited range of services.

2) Accounts: public authorities' accounts only; other accounts included in those belonging to credit institutions.

**Table 6****Payment card functions and accepting devices**

(end of year)

	1996	1997	1998	1999	2000
<b>Cash function</b>					
Cards with a cash function (thousands)	10,591	11,361	12,014	13,375	13,930
Number of networks	15	15	13	12	12
Number of ATMs with a cash dispensing function	4,026	5,003	5,757	6,199	6,865
<i>of which:</i>					
<i>open access</i>	<i>1,169</i>	<i>1,144</i>	<i>1,145</i>	<i>1,161</i>	<i>1,305</i>
<i>limited access</i>	<i>2,857</i>	<i>3,859</i>	<i>4,612</i>	<i>5,038</i>	<i>5,560</i>
Volume of transactions (millions)	153.80	159.60	159.30	177.40	209.00
<i>of which:</i>					
<i>at ATMs with open access</i>	<i>97.50</i>	<i>97.20</i>	<i>85.60</i>	<i>90.40</i>	<i>90.90</i>
<i>at ATMs with limited access</i>	<i>56.30</i>	<i>62.40</i>	<i>73.70</i>	<i>87.00</i>	<i>118.10</i>
Value of transactions (EUR billions)	15.81	16.69	16.93	18.55	22.19
<i>of which:</i>					
<i>at ATMs with open access</i>	<i>9.43</i>	<i>9.50</i>	<i>8.58</i>	<i>8.87</i>	<i>8.85</i>
<i>at ATMs with limited access</i>	<i>6.38</i>	<i>7.19</i>	<i>8.34</i>	<i>9.69</i>	<i>13.34</i>
Number of ATMs with a giro transfer function <sup>1)</sup>	2,857	3,859	4,612	5,038	5,560
<i>volume of transactions (millions)</i>	<i>56.30</i>	<i>62.40</i>	<i>73.70</i>	<i>87.00</i>	<i>118.10</i>
<i>value of transactions (EUR billions)</i>	<i>6.38</i>	<i>7.19</i>	<i>8.34</i>	<i>9.69</i>	<i>13.34</i>
<b>Debit function</b>					
Cards with a debit function (thousands)	9,520	10,176	10,841	12,024	12,467
<i>of which:</i>					
<i>retailer cards (thousands)</i>	<i>1,379</i>	<i>1,428</i>	<i>1,564</i>	<i>1,532</i>	<i>1,507</i>
Number of networks	2	2	2	2	2
Number of terminals	81,331	85,727	93,061	99,623	116,436
Volume of transactions (millions) <sup>1)</sup>	211.76	240.30	297.01	353.46	408.24
<i>of which:</i>					
<i>transactions with retailer cards (millions) <sup>2)</sup></i>	<i>19.21</i>	<i>21.81</i>	<i>23.87</i>	<i>26.40</i>	<i>28.51</i>
Value of transactions (EUR billions) <sup>1)</sup>	11.08	12.68	15.36	17.88	20.83
<i>of which:</i>					
<i>transactions with retailer cards (EUR billions) <sup>2)</sup></i>	<i>0.96</i>	<i>1.09</i>	<i>1.17</i>	<i>1.31</i>	<i>1.57</i>

**Credit function** <sup>3)</sup>

Cards with a credit function (thousands)	nav	nav	nav	nav	nav
<i>of which:</i>					
<i>retailer cards</i>	nav	nav	nav	nav	nav
Number of networks	nav	nav	nav	nav	nav
Number of terminals	nav	nav	nav	nav	nav
Volume of transactions (millions)	nav	nav	nav	nav	nav
<i>of which:</i>					
<i>transactions with retailer cards</i>	nav	nav	nav	nav	nav
Value of transactions (EUR billions)	nav	nav	nav	nav	nav
<i>of which:</i>					
<i>transactions with retailer cards</i>	nav	nav	nav	nav	nav

**Electronic money function**

Cards with an e-money function (thousands)	159	1,035	5,606	7,898	8,396
Number of accepting terminals	6,743	21,000	45,649	63,993	67,837
Number of networks	1	1	1	1	1
Number of purchase transactions (millions)	1.53	9.44	28.17	45.47	51.27
Value of purchase transactions (EUR billions)	0.006	0.039	0.114	0.170	0.196
Number of loading transactions (millions)	0.27	1.61	4.35	6.86	7.76
Number of loading terminals	1,425	6,438	18,198	72,076	101,337
Value of money loaded (EUR billions)	0.009	0.052	0.126	0.180	0.205
Float (EUR billions)	0.003	0.016	0.028	0.038	0.049

**Delayed debit cards (charge cards)** <sup>3)</sup>

Cards with a delayed debit function (thousands)	2,450	2,613	2,737	2,883	2,970
Number of terminals	nav	nav	nav	nav	nav
Volume of transactions (millions)	35.87	39.62	44.34	48.65	53.79
Value of transactions (EUR billions)	3.46	3.89	4.43	4.92	5.53

*Memorandum item:*

Total number of cards in circulation (thousands)	11,970	12,789	13,578	14,907	15,437
<i>of which:</i>					
<i>cards with a combined debit, cash and e-money function (thousands)</i>	159	1,035	5,606	7,898	8,396
<i>cards with a cheque guarantee function (thousands)</i>	4,366	4,767	4,746	4,453	3,839

1) All ATMs with limited access have a cash dispensing function as well as a giro transfer function.

2) Revised figures.

3) All major credit cards (Visa, AmEx, Eurocard, etc.) are issued as delayed debit cards.

**Table 7****Payment instructions handled by selected interbank funds transfer systems:****volume of transactions** <sup>1)</sup>

(millions)

	1996	1997	1998	1999	2000
<b>ELLIPS</b> <sup>2)</sup>	<b>0.21</b>	<b>0.96</b>	<b>1.01</b>	<b>1.97</b>	<b>2.36</b>
<i>of which:</i>					
<i>domestic</i>	0.21	0.96	1.01	0.96	0.95
<i>cross-border</i>	neg	neg	neg	neg	neg
<b>Clearing house</b>	<b>11.57</b>	<b>6.78</b>	<b>5.75</b>	<b>4.95</b>	<b>4.19</b>
Postal drafts and money orders	3.28	2.85	2.40	2.03	1.74
Debits	4.14	3.57	3.30	2.90	2.42
Credit transfers	4.15	0.36	0.05	0.02	0.03
Others	neg	neg	neg	neg	neg

<b>CEC</b>	<b>870.92</b>	<b>880.60</b>	<b>929.10</b>	<b>937.17</b>	<b>885.22</b>
Direct debits	79.11	84.86	91.90	99.54	103.64
<i>of which:</i>					
<i>ordinary direct debits</i>	73.27	81.56	88.09	95.14	98.90
<i>refunds</i>	0.67	0.65	0.86	1.06	1.08
<i>unpaid direct debits</i>	2.17	2.65	2.95	3.34	3.66
Other debit operations	351.33	334.43	340.79	306.79	243.96
<i>of which:</i>					
<i>truncated cheques</i>	72.08	65.79	61.47	62.57	44.80
<i>ATMs and POS</i>	278.84	268.24	278.96	253.89	198.88
<i>unpaid cheques</i>	0.41	0.40	0.36	0.33	0.28
Credit transfers	440.48	461.31	496.43	530.84	537.62
<i>of which:</i>					
<i>credit transfers</i>	352.67	368.72	388.04	405.43	393.16
<i>counterparty postal drafts</i>	2.48	2.17	1.82	1.65	1.37
<i>counterparty ATM-POS</i>	64.96	67.75	82.93	102.15	121.59
<i>money order transfers</i>	19.50	19.74	17.86	16.18	16.48
<i>large-value or urgent credit transfers</i>	0.87	1.84	2.50	2.49	2.35
<i>others</i> <sup>3)</sup>	nav	1.09	3.28	2.94	2.67
<b>Concentration ratio</b> <sup>4)</sup>					
ELLIPS	nav	nav	nav	nav	nav
Clearing house	nav	nav	nav	70%	69%
CEC	64%	63%	69%	76%	74%

1) The table contains both customer and interbank transactions.

2) ELLIPS, the Belgian RTGS system, went live on 24 September 1996.

3) Bills of exchange.

4) Market share of the five largest participants in each payment system, based on the total volume of transactions.

**Table 8**  
**Payment instructions handled by selected interbank funds transfer systems:**

**value of transactions** <sup>1)</sup>

(EUR billions)

	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>
<b>ELLIPS</b> <sup>2)</sup>	<b>1,798.05</b>	<b>8,495.01</b>	<b>9,349.03</b>	<b>19,429.98</b>	<b>21,251.80</b>
<i>of which:</i>					
<i>domestic</i>	1,798.05	8,495.01	9,349.03	4,071.28	3,593.00
<i>cross-border</i>	neg	neg	neg	15,358.70	17,658.80
<b>Clearing house</b>	<b>6,027.33</b>	<b>134.18</b>	<b>119.11</b>	<b>112.30</b>	<b>104.64</b>
Securities clearing balances <sup>3)</sup>	250.17	nav	nav	nav	nav
Postal drafts and money orders	1.49	1.54	1.24	1.21	1.00
Debits	377.52	124.72	117.75	111.03	103.60
Credit transfers	5,398.15	7.93	0.12	0.05	0.04
Others	nav	nav	nav	nav	nav
<b>CEC</b>	<b>660.93</b>	<b>457.61</b>	<b>482.55</b>	<b>476.27</b>	<b>484.40</b>
Direct debits	11.85	14.87	14.70	16.46	18.00
<i>of which:</i>					
<i>ordinary direct debits</i>	11.28	14.18	13.88	15.54	16.90
<i>refunds</i>	0.15	0.17	0.22	0.26	0.30
<i>unpaid direct debits</i>	0.42	0.52	0.59	0.65	0.80
Other debit operations	46.68	46.70	47.30	50.12	53.20
<i>of which:</i>					
<i>truncated cheques</i>	27.05	25.88	24.59	24.34	22.50
<i>ATMs and POS</i>	19.31	20.53	22.43	25.50	30.40
<i>unpaid cheques</i>	0.32	0.30	0.27	0.28	0.30
Credit transfers	602.41	396.04	420.54	409.69	413.20



Belgium

<i>of which:</i>					
credit transfers	237.78	238.62	257.04	273.81	274.90
counterparty postal drafts	0.87	0.74	0.62	0.56	0.50
counterparty ATM-POS	19.16	20.53	22.43	25.10	28.90
money order transfers	4.54	4.54	4.09	4.00	4.00
large-value or urgent credit transfers	340.06	127.57	122.01	94.89	93.60
others <sup>4)</sup>	nav	4.04	14.35	11.33	11.30
<b>Concentration ratio <sup>5)</sup></b>					
ELLIPS	nav	nav	nav	nav	nav
Clearing house	nav	nav	nav	74%	74%
CEC	nav	63%	nav	73%	73%

1) The table contains both customer and interbank transactions.

2) ELLIPS, the Belgian RTGS system, went live on 24 September 1996.

3) As from 1 October 1996, participants' end-of-day balances are directly registered on their accounts with the NBB.

4) Bills of exchange.

5) Market share of the five largest participants in each payment system, based on the total value of transactions.

**Table 9**

**Indicators of the use of various cashless payment instruments:**

**volume of transactions <sup>1)</sup>**

(millions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques	109.70	95.80	86.90	80.17	70.73
<i>of which:</i>					
face-to-face	109.70	95.80	86.90	80.17	70.73
via PC or other terminal	nav	nav	nav	nav	nav
telebanking	nav	nav	nav	nav	nav
via mobile phone	nav	nav	nav	nav	nav
Payments by debit card	211.76	240.30	297.01	353.46	408.24
<i>of which:</i>					
face-to-face <sup>2)</sup>	211.76	240.30	297.01	353.46	408.24
via PC or other terminal	nav	nav	nav	nav	nav
telebanking	nav	nav	nav	nav	nav
via mobile phone	nav	nav	nav	nav	nav
Payments by credit card	35.88	39.62	44.34	48.65	53.79
<i>of which:</i>					
face-to-face	nav	nav	nav	nav	nav
via PC or other terminal	nav	nav	nav	nav	nav
telebanking	nav	nav	nav	nav	nav
via mobile phone	nav	nav	nav	nav	nav
Credit transfers	694.59	697.30	674.70	723.00	656.83
<i>of which:</i>					
face-to-face <sup>3)</sup>	451.49	446.30	411.60	412.10	361.26
via PC or other terminal	243.10	251.00	263.10	310.90	295.57
telebanking	nav	nav	nav	nav	nav
via mobile phone	nav	nav	nav	nav	nav
Direct debits	113.50	117.90	117.40	142.29	166.17
<i>of which:</i>					
face-to-face	nav	nav	nav	nav	nav
via PC or other terminal	113.50	117.90	117.40	142.30	166.20
telebanking	nav	nav	nav	nav	nav
via mobile phone	nav	nav	nav	nav	nav
Card-based electronic money	1.53	9.44	28.17	45.47	51.27
Network-based electronic money	nav	nav	nav	nav	nav
<b>Total</b>	<b>1,168.65</b>	<b>1,202.01</b>	<b>1,249.66</b>	<b>1,393.83</b>	<b>1,407.02</b>

1) Excludes items initiated by banks; these data are not available.

2) 1996-99 have been revised.

3) Paper-based payment orders.

**Table 10**

**Indicators of the use of various cashless payment instruments:**

**value of transactions <sup>1)</sup>**

(EUR billions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques <sup>2)</sup>	284.88	289.14	358.35	98.24	86.78
<i>of which:</i>					
<i>face-to-face</i>	284.88	289.14	358.35	98.24	86.78
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Payments by debit card	11.19	12.79	15.42	17.93	20.83
<i>of which:</i>					
<i>face-to-face</i> <sup>3)</sup>	11.19	12.79	15.42	17.93	20.83
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Payments by credit card	3.46	3.89	4.43	4.92	5.53
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Credit transfers	9,514.05	9,728.04	10,719.24	15,186.16	16,127.00
<i>of which:</i>					
<i>face-to-face</i> <sup>4)</sup>	6,921.63	1,486.84	1,624.87	2,184.36	2,679.00
<i>via PC or other terminal</i>	2,592.42	8,241.20	9,094.37	13,001.79	13,448.00
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Direct debits	27.32	29.42	32.13	40.90	50.96
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal</i>	27.32	29.42	32.13	40.90	50.96
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Card-based electronic money	0.01	0.04	0.11	0.17	0.20
Network-based electronic money	nav	nav	nav	nav	nav
<b>Total</b>	<b>9,840.90</b>	<b>10,063.31</b>	<b>11,129.68</b>	<b>15,348.32</b>	<b>16,291.30</b>

1) Excludes items initiated by banks; these data are not available.

2) Some large-value debit operations are no longer considered as cheques in 1999.

3) 1996-99 have been revised.

4) Paper-based payment orders.

**Table 11a**

**Instructions handled by trading platforms, clearing houses and securities settlement systems:**

**volume of transactions <sup>1)</sup>**

(millions)

	1996	1997	1998	1999	2000
<b>Regulated off-exchange market <sup>2)</sup></b>					
Volume of transactions	nav	112,788	88,279	68,543	72,897
<b>BXS</b>					

<b>Volume of transactions</b> (in number of securities) (thousands)	735,145.7	770,027.7	1,323,874.9	2,086,762.8	2,752,636.9
<b>Nasdaq Europe</b>					
Volume of transactions	1,329	22,575	160,589	157,273	412,279
<b>BXS-Clearing</b>					
Volume of transactions cleared	nav	nav	nav	nav	nav
<b>NBB SSS</b>					
Volume of settlement instructions	229,789	199,807	156,876	121,174	114,966
<b>BXS-CIK</b>					
Volume of settlement instructions (EMSS)	nav	nav	nav	242,733	248,116

1) As a result of mergers and the creation of new companies, data are not always available.

2) Including transactions made on MTS Belgium.

**Table 11b**

**Instructions handled by trading platforms, clearing houses and securities settlement systems:**

**market value of transactions<sup>1)</sup>**

(EUR billions)

	1996	1997	1998	1999	2000
<b>Regulated off-exchange market<sup>2)</sup></b>					
Value of transactions	nav	1,799	1,932	1,815	1,885
<b>BXS</b>					
Value of transactions	20.05	30.47	55.82	55.56	47.50
<b>Nasdaq Europe</b>					
Value of transactions	0.05	0.90	3.89	4.46	21.34
<b>BXS-Clearing</b>					
Value of transactions cleared (cash market)	nav	nav	nav	35	30
<b>NBB SSS<sup>3)</sup></b>					
Value of settlement instructions	2,304	2,564	2,702	2,261	2,372
<b>BXS-CIK</b>					
Value of settlement instructions (EMSS)	nav	nav	nav	75	76

1) As a result of mergers and the creation of new companies, data are not always available.

2) Including transactions made on MTS Belgium.

3) Nominal value.

**Table 11c**

**Number of participants in trading platforms, clearing houses and securities settlement systems<sup>1)</sup>**

	1996	1997	1998	1999	2000
<b>Regulated off-exchange market</b>					
<b>(trading systems)</b>	nav	216	199	203	203
Banks	nav	148	137	136	136
<i>of which:</i>					
<i>domestic</i>	nav	90	80	73	71
<i>foreign</i>	nav	58	57	63	65
Brokers/dealers	nav	66	60	65	66
<i>of which:</i>					
<i>domestic</i>	nav	60	52	52	50
<i>foreign</i>	nav	6	8	13	16
Others:	2	2	2	2	2
<i>NBB</i>	1	1	1	1	1
<i>Institut de Réescompte et de Garantie (bill rediscounter)</i>	1	1	1	1	1
<b>BXS (trading system)</b>					
Members (stock exchange + derivatives exchange)	115	103	102	130	118
<i>of which:</i>					

<i>domestic</i>	106	93	88	86	74
<i>foreign</i>	9	10	14	44	44
<b>Nasdaq Europe</b>	<b>19</b>	<b>60</b>	<b>69</b>	<b>79</b>	<b>78</b>
Members	19	60	69	79	78
<i>of which:</i>					
<i>domestic</i>	6	8	9	11	10
<i>foreign</i>	13	52	60	68	68
Banks	2	16	13	14	14
<i>of which:</i>					
<i>domestic</i>	1	1	0	0	0
<i>foreign</i>	1	15	13	14	14
Brokers/dealers	17	44	56	65	64
<i>of which:</i>					
<i>domestic</i>	5	7	9	11	10
<i>foreign</i>	12	37	47	54	54
<b>BXS-Clearing (clearing house)</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>	<b>76</b>	<b>57</b>
Banks	nav	nav	nav	35	24
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	31	19
<i>foreign</i>	nav	nav	nav	4	5
Brokers/dealers	nav	nav	nav	41	33
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	41	33
<i>foreign</i>	nav	nav	nav	nav	nav
<b>NBB SSS</b>	<b>209</b>	<b>183</b>	<b>188</b>	<b>166</b>	<b>151</b>
Banks	121	112	108	88	83
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	nav	nav
<i>foreign</i>	nav	nav	nav	nav	nav
Brokers/dealers	73	51	51	41	33
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	nav	nav
<i>foreign</i>	nav	nav	nav	nav	nav
Others:	15	20	29	37	35
Securities settlement systems	2	2	2	5	5
Ministry of Finance	2	2	3	3	3
Public bodies	11	16	24	29	27
<b>BXS-CIK</b>	<b>151</b>	<b>140</b>	<b>124</b>	<b>113</b>	<b>113</b>
Banks	70	68	65	57	57
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	43	43
<i>foreign</i>	nav	nav	nav	14	14
Brokers/dealers	72	63	54	52	52
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	48	48
<i>foreign</i>	nav	nav	nav	4	4
Securities settlement systems	9	9	5	4	4

1) As a result of mergers and the creation of new companies, data are not always available.

**Table 11d**

**Outstanding securities**<sup>1)</sup>

(end of year)

	1996	1997	1998	1999	2000
<b>Regulated off-exchange market</b> <sup>2)</sup>					
Value of stocks listed (EUR billions)	nav	nav	nav	nav	nav
Value of other securities listed (EUR billions)	172	177	180	191	204
Number of stocks listed	nav	nav	nav	nav	nav
Number of other securities listed	nav	nav	nav	nav	nav

<b>BXS</b>					
Value of stocks listed (EUR billions)	94.61	127.61	209.2	183.71	196.66
Value of other securities listed (EUR billions)	0.25	0.30	0.50	1.04	nav
<i>of which:</i>					
<i>domestic equity warrants</i>	0.25	0.30	0.50	1.04	nav
<i>foreign companies</i>	nav	nav	nav	nav	nav
Number of stocks listed	291	287	298	308	295
Number of other securities listed	nav	nav	nav	nav	nav
<b>Nasdaq Europe</b>					
Value of stocks listed (EUR billions)	0.71	4.23	13.10	42.90	24.40
Value of other securities listed (EUR billions)	nav	nav	nav	nav	nav
Number of stocks listed	4	23	39	56	63
Number of other securities listed	nav	nav	nav	nav	nav
<b>NBB SSS</b>					
Value of stocks listed (EUR billions)	nav	nav	nav	nav	nav
Value of other securities listed (EUR billions)	223	235	239	252	277
Number of stocks listed	nav	nav	nav	nav	nav
Number of other securities listed	nav	nav	nav	nav	nav
<b>BXS-CIK</b>					
Value of stocks listed (EUR billions)	nav	nav	nav	164	167
Value of other securities listed (EUR billions)	nav	nav	nav	nav	nav
Number of stocks listed	nav	nav	nav	nav	nav
Number of other securities listed	nav	nav	nav	nav	nav

1) As a result of mergers and the creation of new companies, data are not always available.

2) Including transactions made on MTS Belgium.

**Table 11e**

**Netting ratio in clearing systems <sup>1)</sup>**

	1996	1997	1998	1999	2000
Netting ratio for cash over year					
Netting ratio for securities over year					

1) As a result of mergers and the creation of new companies, data are not available.

**Table 12**

**Participation in SWIFT by domestic institutions**

	1996	1997	1998	1999	2000
Members	32	32	29	24	23
<i>of which live</i>	32	32	28	24	23
Sub-members	37	39	41	38	42
<i>of which live</i>	37	39	41	37	41
Participants	6	5	10	17	19
<i>of which live</i>	6	5	10	17	18
Total users	75	76	80	79	84
<i>Memorandum items:</i>					
Total SWIFT users	5,918	6,372	6,771	6,991	7,293
<i>of which:</i>					
<i>members</i>	3,014	3,070	3,052	2,230	2,307
<i>sub-members</i>	2,500	2,621	2,781	2,825	3,037
<i>participants</i>	404	681	938	1,936	1,949

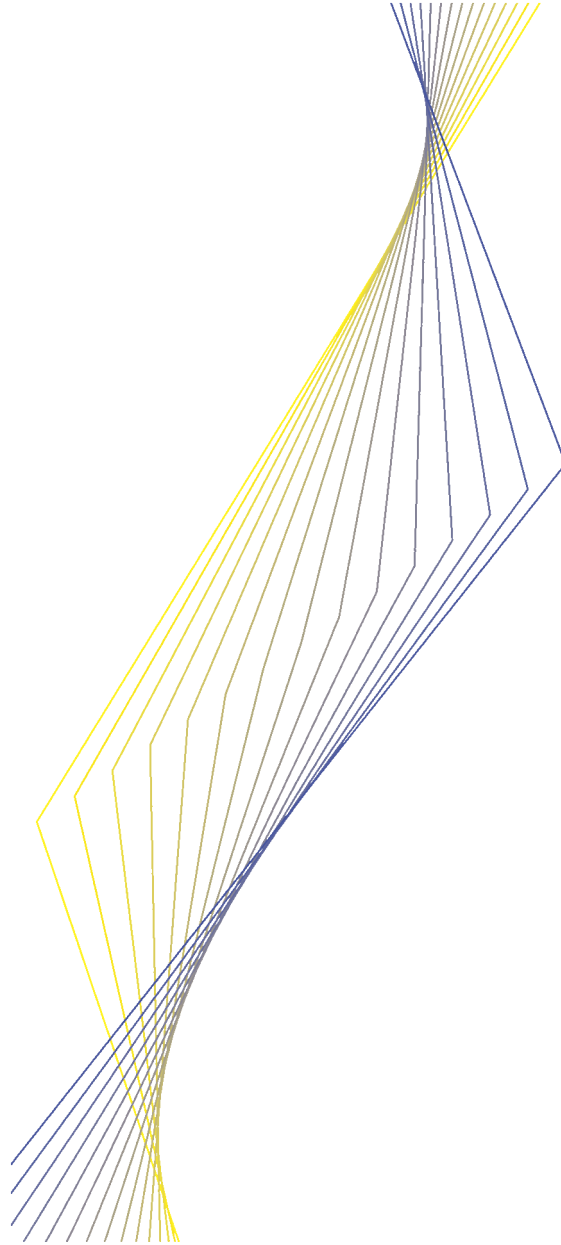
**Table 13**  
**SWIFT message flows to/from domestic users**

	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>
Total messages sent	26,928,329	31,355,971	36,454,886	45,648,537	57,872,520
<i>of which:</i>					
<i>category I</i>	6,845,391	7,170,089	7,825,972	10,056,972	11,323,837
<i>category II</i>	6,845,391	7,009,454	6,859,838	5,397,628	5,673,766
Total messages received	24,324,277	27,950,457	31,617,702	37,434,987	48,539,836
<i>of which:</i>					
<i>category I</i>	6,441,304	6,665,892	7,108,235	9,207,639	10,529,012
<i>category II</i>	5,202,993	5,771,831	5,715,306	5,017,388	5,486,417
Domestic traffic	5,283,148	6,138,563	6,999,929	9,275,820	11,035,591
<i>Memorandum item:</i>					
Global SWIFT traffic	687,785,294	812,117,556	941,235,088	1,058,836,425	1,273,912,754





EUROPEAN CENTRAL BANK



**Denmark**





**Table 1****Basic statistical data**

	1996	1997	1998	1999	2000
Population (thousands)	5,256	5,280	5,303	5,321	5,338
GDP (DKK billions)	1,060.9	1,116.3	1,169.0	1,229.6	1,315.5
GDP per capita (DKK)	201,844	211,424	220,441	231,083	246,446
Exchange rate (domestic currency vis-à-vis ECU/EUR):					
<i>end of year</i>	7.44655	7.52797	7.44878	7.44330	7.46310
<i>average</i>	7.35934	7.48360	7.49930	7.45400	7.45382

**Table 2****Settlement media used by non-banks**

(end of year, DKK billions)

	1996	1997	1998	1999	2000
Banknotes and coins	31.60	33.20	34.50	36.90	37.70
Transferable deposits <sup>1)</sup>	278.44	295.14	316.81	334.64	349.40
Narrow money supply (M1)	310.04	328.34	351.31	371.54	387.10
<i>Memorandum items:</i>					
Broad money supply	nap	nap	nap	nap	nap
Outstanding value on e-money schemes	0.02	0.02	0.02	0.02	0.02
<i>of which:</i>					
<i>on card-based products</i>	0.02	0.02	0.02	0.02	0.02
<i>on network-based products</i>	nap	nap	nap	nap	nap

1) Including deposits in foreign currencies.

**Table 3****Settlement media used by banks**

(end of year, DKK billions)

	1996	1997	1998	1999	2000
Transferable balances held at central bank	15.22	17.98	12.41	5.95	7.82
<i>of which:</i>					
<i>required reserves</i>	nap	nap	nap	nap	nap
<i>free reserves</i>	15.22	17.98	12.41	5.95	7.82
Transferable balances held at other banks	nap	nap	nap	nap	nap
<i>Memorandum item:</i>					
Institutions' borrowing from central bank	nap	nap	nap	nap	nap

**Table 4****Banknotes and coins**

(end of year, total value, DKK billions)

	1996	1997	1998	1999	2000
Total banknotes issued	33.19	35.08	37.20	42.43	40.65
<i>of which:</i>					
<i>DKK 1,000</i>	19.28	19.59	19.79	22.98	22.05
<i>DKK 500</i>	5.82	6.56	8.09	9.27	8.79
<i>DKK 200</i>	nap.	1.62	2.18	2.53	2.69
<i>DKK 100</i>	6.93	6.12	5.88	6.34	5.83
<i>DKK 50</i>	0.78	0.80	0.85	0.90	0.92
<i>Other <sup>1)</sup></i>	0.38	0.40	0.41	0.40	0.38
Total coins issued	3.43	3.63	3.82	3.95	4.15
<i>of which:</i>					
<i>DKK 20</i>	1.21	1.30	1.37	1.42	1.52
<i>DKK 10</i>	0.74	0.77	0.81	0.84	0.87

<i>DKK 5</i>	0.46	0.48	0.50	0.52	0.54
<i>DKK 2</i>	0.28	0.31	0.34	0.36	0.37
<i>DKK 1</i>	0.39	0.40	0.41	0.42	0.44
<i>50 øre</i>	0.12	0.13	0.13	0.14	0.14
<i>25 øre</i>	0.16	0.16	0.17	0.17	0.18
<i>Other <sup>2)</sup></i>	0.06	0.08	0.08	0.08	0.09
Total banknotes and coins issued	36.61	38.71	41.02	46.38	44.80
Banknotes and coins held by credit institutions	5.01	5.51	6.52	9.48	7.10
Banknotes and coins in circulation outside credit institutions	31.60	33.20	34.50	36.90	37.70

1) Special banknotes in circulation in the Faroes. DKK 20, DKK 10 and DKK 5 banknotes are also included.

2) Includes DKK 200 commemorative coins and DKK 2 coins in circulation until the end of 1959.

**Table 5**  
**Institutional framework**  
(end of 2000)

Categories	Number of institutions	Number of branches	Number of accounts (thousands)	Number of internet-linked accounts	Value of accounts (DKK billions)
Central bank	1	0	neg	nav	neg
Credit institutions	189	2,447	9,325	nav	394.12
Postal institution	1	1,116	nap	nav	nap
Total	191	3,563	9,325	nav	394.12
<i>of which:</i>					
<i>virtual institutions</i>	2	2	nav	nav	nav
Branches of foreign banks	8	8	nav	nav	nav
<i>of which:</i>					
<i>EU-based</i>	7	7	nav	nav	nav

**Table 6**  
**Payment card functions and accepting devices**  
(end of year)

	1996	1997	1998	1999	2000
<b>Cash function</b>					
Cards with a cash function (thousands)	3,002	3,018	2,817	3,176	3,476
Number of networks	1	1	1	1	1
Number of ATMs with a cash dispensing function	2,209	2,387	2,549	2,641	2,701
<i>of which:</i>					
<i>open access</i>	2,209	2,387	2,549	2,641	2,701
<i>limited access</i>	nav	nav	nav	nav	nav
Volume of transactions (millions)	nav	nav	nav	nav	nav
<i>of which:</i>					
<i>at ATMs with open access</i>	nav	nav	nav	nav	nav
<i>at ATMs with limited access</i>	nav	nav	nav	nav	nav
Value of transactions (DKK billions)	nav	nav	nav	nav	nav
<i>of which:</i>					
<i>at ATMs with open access</i>	nav	nav	nav	nav	nav
<i>at ATMs with limited access</i>	nav	nav	nav	nav	nav
Number of ATMs with a giro transfer function	2,209	2,387	2,549	2,641	2,701
<i>volume of transactions (millions)</i>	nav	nav	nav	nav	nav
<i>value of transactions (DKK billions)</i>	nav	nav	nav	nav	nav
<b>Debit function</b>					
Cards with a debit function (thousands)	2,818	2,825	2,621	2,794	3,018
<i>of which:</i>					

<i>retailer cards (thousands)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Number of networks	1	1	1	1	1
Number of terminals	44,600	60,800	68,600	73,000	78,000
Volume of transactions (millions)	281	312	349	382	412
<i>of which:</i>					
<i>transactions with retailer cards (millions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Value of transactions (DKK billions)	99	110	124	135	145
<i>of which:</i>					
<i>transactions with retailer cards (DKK billions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<b>Credit function</b>					
Cards with a credit function (thousands)	184	193	196	382	458
<i>of which:</i>					
<i>retailer cards (thousands)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Number of networks	1	1	1	1	1
Number of terminals	18,091	19,516	20,504	21,767	22,286
Volume of transactions (millions)	8	9	10	11	13
<i>of which:</i>					
<i>transactions with retailer cards (millions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Value of transactions (DKK billions)	6	7	8	10	11
<i>of which:</i>					
<i>transactions with retailer cards (DKK billions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<b>Electronic money function</b>					
Cards with an e-money function (thousands)	390	518	651	672	593
Number of accepting terminals	2,413	2,732	4,383	4,568	1,954
Number of networks	1	1	1	1	1
Number of purchase transactions (millions)	3.7	5.5	7.3	7.9	7.9
Value of purchase transactions (DKK billions)	0.019	0.034	0.049	0.063	0.070
Number of loading transactions (millions)	<i>nap</i>	0.002	0.009	0.013	0.048
Number of loading terminals	<i>nap</i>	1	3	14	17
Value of money loaded (DKK billions)	<i>nap</i>	0.000	0.001	0.002	0.007
Float (DKK billions)	0.021	0.015	0.019	0.020	0.022
<b>Delayed debit cards (charge cards)</b>					
Cards with a delayed debit function (thousands)	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Number of terminals	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Volume of transactions (millions)	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Value of transactions (DKK billions)	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>Memorandum item:</i>					
Total number of cards in circulation (thousands)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>of which:</i>					
<i>cards with a combined debit, cash and e-money function (thousands)</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>cards with a cheque guarantee function (thousands)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>

**Table 7**

**Payment instructions handled by selected interbank funds transfer systems:  
volume of transactions**  
(millions)

	1996	1997	1998	1999	2000
DN Inquiry and Transfer System	0.426	0.369	0.384	0.368	0.388
DEBES	<i>nap</i>	<i>nap</i>	<i>nap</i>	0.061	0.080
Retail clearing	611.209	663.521	722.867	765.218	810.554
<i>of which:</i>					
<i>cheques</i>	67.075	61.743	57.940	48.621	43.421

<i>direct debits</i>	96.423	105.129	112.763	121.619	129.830
<i>paperless credit transfers</i>	159.268	175.599	192.715	201.699	213.061
<i>payments by debit card</i>	280.566	312.356	349.440	381.962	411.587
<i>payments by credit card</i>	7.877	8.694	10.009	11.317	12.655
<b>Concentration ratio:</b>					
DN Inquiry and Transfer System	nav	nav	nav	51%	51%
DEBES	nap	nap	nap	nav	nav
Retail clearing	nav	nav	nav	nav	nav

**Table 8****Payment instructions handled by selected interbank funds transfer systems:****value of transactions**

(DKK billions)

	1996	1997	1998	1999	2000
DN Inquiry and Transfer System	16,642	18,119	21,654	20,988	25,658
DEBES	nap	nap	nap	9,113	10,850
Retail clearing	3,041	3,254	3,687	3,841	4,065
<i>of which:</i>					
<i>cheques</i>	959	931	940	810	737
<i>direct debits</i>	223	241	290	323	362
<i>paperless credit transfers</i>	1,754	1,965	2,325	2,563	2,809
<i>payments by debit card</i>	99	110	124	135	145
<i>payments by credit card</i>	6	7	8	10	11
<b>Concentration ratio:</b>					
DN Inquiry and Transfer System	nav	nav	nav	58%	59%
DEBES	nap	nap	nap	nav	nav
Retail clearing	nav	nav	nav	nav	nav

**Table 9****Indicators of the use of various cashless payment instruments:****volume of transactions**

(millions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques	84.5	76.6	71.1	61.0	55.6
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Payments by debit card	280.57	312.36	349.44	381.96	411.59
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Payments by credit card	7.88	8.69	10.01	11.32	12.66
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Credit transfers <sup>1), 2)</sup>	159.27	175.60	192.72	201.70	213.06
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav

Direct debits	96.42	105.13	112.76	121.62	129.83
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>teletanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Card-based electronic money	3.66	5.45	7.29	7.86	7.92
Network-based electronic money	nap	nap	nap	nap	nap
<b>Total</b>	<b>632.29</b>	<b>683.83</b>	<b>743.32</b>	<b>785.46</b>	<b>830.65</b>

1) Intra-bank customer payments not included.

2) Includes items initiated by banks.

**Table 10**  
**Indicators of the use of various cashless payment instruments:**  
**value of transactions**  
(DKK billions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques	1,186	1,259	1,237	955	876
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>teletanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Payments by debit card	99	110	124	135	145
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>teletanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Payments by credit card	6	7	8	10	11
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>teletanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Credit transfers <sup>1), 2)</sup>	1,754	1,965	2,325	2,563	2,809
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>teletanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Direct debits	223	241	290	323	362
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>teletanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Card-based electronic money	0.019	0.034	0.049	0.063	0.070
Network-based electronic money	nap	nap	nap	nap	nap
<b>Total</b>	<b>3,268</b>	<b>3,582</b>	<b>3,984</b>	<b>3,986</b>	<b>4,203</b>

1) Intra-bank customer payments not included.

2) Includes items initiated by banks.

**Table 11a**

**Instructions handled by trading platforms and securities settlement systems:  
volume of transactions**  
(millions)

	1996	1997	1998	1999	2000
<b>Trading platform</b>					
<b>Copenhagen Stock Exchange Ltd</b>					
Shares	0.7	1.0	1.1	1.3	2.8
Bonds	1.5	1.6	1.5	1.4	1.1
<b>Total</b>	2.3	2.6	2.6	2.6	3.9
<b>Securities settlement system</b>					
<b>VP A/S</b>					
Trade transactions	2.5	3.3	3.4	3.5	6.8

**Table 11b**

**Instructions handled by trading platforms and securities settlement systems:  
market value of transactions**  
(DKK billions)

	1996	1997	1998	1999	2000
<b>Trading platform</b>					
<b>Copenhagen Stock Exchange Ltd</b>					
Shares	217	310	448	469	836
Bonds	6,775	7,112	8,649	7,156	5,611
<b>Total</b>	6,992	7,422	9,097	7,625	6,447
<b>Securities settlement system</b>					
<b>VP A/S</b>					
Clearing of trade amounts	15,291	16,060	22,992	22,010	22,572
Turnover of bonds (nominal value)	21,299	23,276	28,287	26,794	28,009
Turnover of shares etc. (nominal value)	99	135	172	229	340

**Table 11c**

**Number of participants in trading platforms and securities settlement systems**

	1996	1997	1998	1999	2000
<b>Trading platform</b>					
<b>Copenhagen Stock Exchange Ltd</b>					
Banks	nav	nav	nav	25	28
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	18	17
<i>foreign (branches and remote participants)</i>	nav	nav	nav	7	11
Central bank	nav	nav	nav	1	1
Brokers/dealers	nav	nav	nav	9	13
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	4	3
<i>foreign</i>	nav	nav	nav	5	10
<b>Total</b>	nav	nav	nav	35	42
<b>Securities settlement system</b>					
<b>VP A/S</b>					
Banks, brokers, dealers	nav	nav	nav	200	200
Remote members	nav	nav	nav	12	24
Central bank	nav	nav	nav	1	1
Mortgage credit institutions	nav	nav	nav	17	17
Securities settlement systems	nav	nav	nav	1	1
Institutional investors	nav	nav	nav	23	23
<b>Total</b>	nav	nav	nav	254	266

**Table 11d****Outstanding securities**

(end of year)

	1996	1997	1998	1999	2000
<b>Trading platform</b>					
<b>Copenhagen Stock Exchange Ltd</b>					
Value of securities issued (DKK billions)	2,458	2,772	2,866	3,046	3,414
Number of securities issued	2,819	2,842	2,813	2,816	2,822
<b>Securities settlement system</b>					
<b>VP A/S</b>					
Value of securities registered (DKK billions)	nav	nav	2,825	2,966	3,213
Number of securities registered	3,053	3,086	3,043	3,065	3,092

**Table 11e****Netting ratio in clearing systems**

	1996	1997	1998	1999	2000
<b>VP A/S</b>					
Netting ratio for cash over year	nav	nav	nav	nav	nav
Netting ratio for securities over year	nav	nav	nav	nav	nav

**Table 12****Participation in SWIFT by domestic institutions**

	1996	1997	1998	1999	2000
Members	33	34	36	21	25
<i>of which live</i>	33	34	36	21	25
Sub-members	6	7	9	9	11
<i>of which live</i>	6	7	9	9	10
Participants	1	1	3	18	17
<i>of which live</i>	0	1	3	18	17
Total users	40	42	48	48	53
<i>of which live</i>	39	42	48	48	52
<i>Memorandum items:</i>					
Total SWIFT users	5,918	6,372	6,771	6,991	7,293
<i>members</i>	3,014	3,070	3,052	2,230	2,307
<i>sub-members</i>	2,500	2,621	2,781	2,825	3,037
<i>participants</i>	404	681	938	1,936	1,949

**Table 13****SWIFT message flows to/from domestic users**

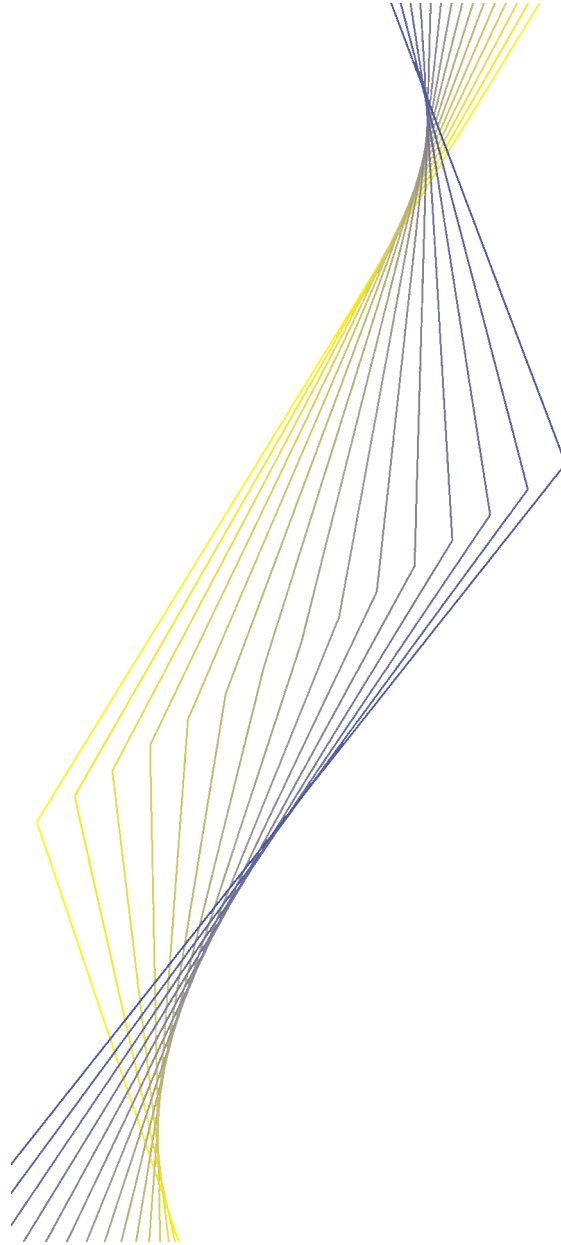
	1996	1997	1998	1999	2000
Total messages sent	7,797,385	8,664,841	9,961,742	11,402,262	13,195,990
<i>of which:</i>					
<i>category I</i>	2,578,542	2,910,867	3,348,400	3,882,765	4,566,681
<i>category II</i>	2,234,460	2,436,291	2,689,158	2,778,597	3,023,426
Total messages received	6,929,831	7,892,844	9,130,548	10,871,940	12,262,142
<i>of which:</i>					
<i>category I</i>	2,242,872	2,457,573	2,729,086	2,997,764	3,410,545
<i>category II</i>	1,511,502	1,583,669	1,824,054	2,140,736	2,325,448
Domestic traffic	1,132,180	1,226,964	1,503,964	1,988,750	2,005,430
<i>Memorandum item:</i>					
Global SWIFT traffic	687,785,294	812,117,556	941,235,088	1,058,836,425	1,273,912,754







EUROPEAN CENTRAL BANK



**Germany**



**Table 1****Basic statistical data**

	1996	1997	1998	1999	2000
Population (thousands) <sup>1)</sup>	81,896	82,053	82,024	82,087	82,168
GDP (EUR billions) <sup>2)</sup>	1,878.2	1,863.5	1,916.4	1,974.2	2,025.5
GDP per capita (ECU/EUR) <sup>2)</sup>	22,934	22,711	23,364	24,050	24,651
Exchange rate (domestic currency vis-à-vis ECU/EUR):					
end of year <sup>3)</sup>	1.94653	1.97632	1.95583	1.95583	1.95583
average <sup>3)</sup>	1.90954	1.96438	1.96913	1.95583	1.95583

1) Average for the year.

2) Prior to 1999, converted using the DEM/ECU exchange rate. In the following tables, the irrevocable conversion rate to the euro has been used for data prior to 1999.

3) Irrevocable conversion rates were adopted with the introduction of the euro on 1 January 1999.

**Table 2****Settlement media used by non-banks**

(end of year, EUR billions)

	1996	1997	1998	1999	2000
Banknotes and coins	125.9	126.0	123.7	130.3	125.1
Transferable deposits	331.0	339.0	389.7	426.5	448.7
of which held by:					
households	198.9	208.8	236.9	263.5	268.7
corporate sector	117.7	118.2	139.7	148.6	164.9
other	14.4	12.0	13.1	14.4	15.1
Narrow money supply (M1)	456.9	465.0	513.4	556.8	573.8
Memorandum items:					
Broad money supply <sup>1)</sup>	1,115.5	1,155.4	1,240.2	1,420.4	1,419.1
Transferable deposits in foreign currencies	nav	nav	nav	9.0	8.5
Outstanding value on e-money schemes	neg	0.04	0.06	0.06	0.06
of which:					
on card-based products	neg	0.04	0.06	0.06	0.06
on network-based products	nav	nav	nav	nav	nav

1) M3 as defined by the Deutsche Bundesbank until 1998, from 1999 as defined by the ECB.

**Table 3****Settlement media used by banks**

(end of year, EUR billions)

	1996	1997	1998	1999	2000
Transferable balances held at central bank	20.2	21.4	23.7	33.3	35.5
of which:					
required reserves	19.8	21.0	23.4	33.0	35.3
free reserves	0.4	0.4	0.3	0.3	0.2
Transferable balances held at other banks <sup>1)</sup>	205.1	218.6	241.6	114.4	113.4
Memorandum item:					
Institutions' borrowing from central bank <sup>2)</sup>	1.7	1.4	2.6	9.4	0.6

1) Until 1998 including fixed-term deposits below one month.

2) Marginal lending facility.

**Table 4****Banknotes and coins**

(end of year, total value, EUR billions and DEM billions)

	1996		1997		1998		1999		2000	
	EUR	DEM	EUR	DEM	EUR	DEM	EUR	DEM	EUR	DEM
Total banknotes issued	133.2	260.4	133.3	260.7	130.5	255.3	140.1	274.1	134.0	262.1
<i>of which:</i>										
DEM 1,000	44.3	86.6	45.2	88.5	44.3	86.6	47.8	93.5	45.6	89.2
DEM 500	14.2	27.8	14.2	27.7	13.5	26.5	14.2	27.8	13.6	26.5
DEM 200	5.2	10.1	4.7	9.3	4.3	8.4	4.1	8.0	3.7	7.1
DEM 100	51.2	100.1	50.9	99.5	50.2	98.2	54.4	106.4	52.0	101.8
DEM 50	11.2	21.9	11.0	21.6	10.9	21.4	11.7	23.0	11.1	21.8
DEM 20	4.3	8.5	4.4	8.6	4.4	8.7	4.8	9.5	4.9	9.7
DEM 10	2.6	5.1	2.7	5.2	2.7	5.2	2.9	5.6	2.9	5.7
DEM 5	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.3
Total coins issued	7.8	15.3	7.9	15.5	8.1	15.7	8.2	15.9	8.2	16.0
<i>of which:</i>										
DEM 10	1.2	2.4	1.3	2.5	1.3	2.6	1.3	2.6	1.4	2.7
DEM 5	2.9	5.7	2.9	5.7	2.9	5.7	2.9	5.7	2.9	5.7
DEM 2	1.1	2.2	1.2	2.3	1.2	2.3	1.2	2.4	1.2	2.4
DEM 1	1.2	2.3	1.2	2.3	1.2	2.3	1.2	2.3	1.2	2.3
DEM 0.50	0.6	1.1	0.5	1.1	0.6	1.1	0.6	1.1	0.6	1.2
DEM 0.10	0.5	1.0	0.5	1.0	0.5	1.0	0.6	1.1	0.6	1.1
DEM 0.05	0.1	0.3	0.1	0.3	0.2	0.3	0.2	0.3	0.1	0.3
DEM 0.02	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.1
DEM 0.01	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.2
Total banknotes and coins issued	141.0	275.7	141.2	276.2	138.6	271.0	148.3	290.0	142.2	278.1
Banknotes and coins held by credit institutions	15.1	29.5	15.2	29.8	14.9	29.1	18.0	35.2	17.1	33.4
Banknotes and coins in circulation outside credit institutions	125.9	246.2	126.0	246.4	123.7	241.9	130.3	254.8	125.1	244.7

**Table 5**  
**Institutional framework**  
(end of 2000)

Categories	Number of institutions	Number of branches	Number of accounts (thousands) <sup>1)</sup>	Number of internet-linked accounts (thousands) <sup>2)</sup>	Value of accounts (EUR billions)
Central bank <sup>3)</sup>	1	130	36	0	0.5
Credit institutions	2,734	55,980	86,531	15,130	443.2
<i>of which:</i>					
<i>commercial banks</i> <sup>4)</sup>	361	20,720	22,392	8,530	182.1
<i>savings banks</i>	575	18,105	39,719	4,200	170.0
<i>co-operative and rural banks</i>	1,798	17,155	24,420	2,400	91.1
Total	2,735	56,110	86,567	15,130	443.7
<i>of which:</i>					
<i>virtual institutions</i>	1	nav	6	6	nav
Branches of foreign banks	87	167	nav	nav	2.7
<i>of which:</i>					
<i>EU-based</i>	nav	nav	nav	nav	nav

1) Partly estimated. Includes number of internet linked accounts.

2) Number of accounts relating to internet services (credit transfers, payment of bills, etc.) carried out via the internet.

3) As a legal entity the Deutsche Bundesbank comprises the Central Office in Frankfurt am Main, nine Regional Offices in the German federal states and 129 branches.

4) Including mortgage banks, instalment sales with special functions and Deutsche Postbank AG.

**Table 6**  
**Payment card functions and accepting devices**  
(end of year)

	1996	1997	1998	1999	2000
<b>Cash function</b>					
Cards with a cash function (thousands)	80,454.0	84,960.0	91,324.1	99,250.1	106,323.4
Number of networks	4	4	4	4	4
Number of ATMs with a cash dispensing function	37,600.0	41,397.0	45,615.0	46,200.0	47,650.0
<i>of which:</i>					
<i>open access</i>	37,600.0	41,397.0	45,615.0	46,200.0	47,650.0
<i>limited access</i>	nav	nav	nav	nav	nav
Volume of transactions (millions)	1,251.8	nav	1,405.5	1,513.2	1,679.7
<i>of which:</i>					
<i>at ATMs with open access</i>	1,251.8	nav	1,405.5	1,513.2	1,679.7
<i>at ATMs with limited access</i>	nav	nav	nav	nav	nav
Value of transactions (EUR billions)	177.9	nav	214.2	221.6	244.8
<i>of which:</i>					
<i>at ATMs with open access</i>	177.9	nav	214.2	221.6	244.8
<i>at ATMs with limited access</i>	nav	nav	nav	nav	nav
Number of ATMs with a giro transfer function	nav	nav	nav	nav	nav
volume of transactions (millions)	nav	nav	nav	nav	nav
value of transactions (EUR billions)	nav	nav	nav	nav	nav

**Debit function <sup>1)</sup>**

Cards with a debit function (thousands)	71,814.0	75,760.0	81,145.0	90,210.0	99,176.7
<i>of which:</i>					
<i>retailer cards (thousands)</i>	4,900.0	5,000.0	5,000.0	8,000.0	10,600.0
Number of networks	19	22	26	28	29
Number of terminals	157,068	251,794	362,808	472,902	591,280
Volume of transactions (millions) <sup>2)</sup>	214.2	225.8	675.2	860.3	1,037.1
<i>of which:</i>					
<i>transactions with retailer cards (millions)</i>	nav	nav	nav	nav	nav
Value of transactions (EUR billions) <sup>2)</sup>	16.7	14.8	51.4	64.4	76.1
<i>of which:</i>					
<i>transactions with retailer cards (EUR billions)</i>	nav	nav	nav	nav	nav

**Credit function/ Delayed debit functions (charge cards) <sup>3),4)</sup>**

Cards with a credit function (thousands)	13,540.0	14,200.0	15,179.1	17,040.1	17,746.7
<i>of which:</i>					
<i>retailer cards (thousands)</i>	nav	nav	nav	nav	nav
Number of networks	nav	nav	nav	nav	nav
Number of terminals <sup>5)</sup>	1,000,000	1,100,000	1,141,066	1,219,189	1,351,596
Volume of transactions (millions)	289.9	303.4	317.4	338.1	351.6
<i>of which:</i>					
<i>transactions with retailer cards (millions)</i>	nav	nav	nav	nav	nav
Value of transactions (EUR billions)	30.0	32.1	28.9	31.6	33.5
<i>of which:</i>					
<i>transactions with retailer cards (EUR billions)</i>	nav	nav	nav	nav	nav

**Electronic money function**

Cards with an e-money function (thousands)	22,000.0	35,000.0	60,700.0	60,700.0	60,700.0
Number of accepting terminals	1,000	50,000	60,000	59,732	66,946
Number of networks	1	1	1	1	1
Number of purchase transactions (millions)	0.2	4.2	13.6	20.7	26.6
Value of purchase transactions (EUR billions)	neg	neg	0.1	0.1	0.1
Number of loading transactions (millions)	neg	1.6	2.4	3.1	3.7
Number of loading terminals	nav	nav	22,000	22,468	24,502
Value of money loaded (EUR billions)	neg	nav	0.1	0.1	0.1
Float (EUR billions)	nav	nav	0.1	0.1	0.1

**Delayed debit cards (charge cards) <sup>6)</sup>**

Cards with a delayed debit function (thousands)	nav	nav	nav	nav	nav
Number of terminals	nav	nav	nav	nav	nav
Volume of transactions (millions)	nav	nav	nav	nav	nav
Value of transactions (EUR billions)	nav	nav	nav	nav	nav

**Memorandum item:**

Total number of cards in circulation (thousands)	85,354.0	89,960.0	96,324.1	107,250.1	116,923.4
<i>of which:</i>					
<i>cards with a combined debit, cash and e-money function (thousands)</i>	nav	nav	60,700.0	60,700.0	60,700.0
<i>cards with a cheque guarantee function (thousands)</i>	39,937.0	41,720.0	43,845.0	45,408.0	51,246.7

1) Figures partly collected by Eurohandelsinstitut e.V., PaySys GmbH and Zentraler Kreditausschuss (ZKA).

- 2) In 1996 POS and POZ procedures only. In 1997 POS procedures only. From 1998 POS, POZ and ELV procedures.
- 3) Usually cards with a delayed debit function (charge cards). The German word "Kreditkarte" is used for both credit and charge cards.
- 4) From 1998 a broader range of figures is available.
- 5) The total number of accepting terminals reported by the individual credit card institutions. This may result in double counting.
- 6) Delayed debit cards see credit cards.

**Table 7**

**Payment instructions handled by selected interbank funds transfer systems:  
volume of transactions<sup>1)2)</sup>**  
(millions)

	1996	1997	1998	1999	2000
<b>Domestic Payments</b>	<b>2,306.1</b>	<b>2,278.8</b>	<b>2,286.5</b>	<b>2,204.3</b>	<b>2,257.4</b>
<b>Retail payments</b>	<b>2,276.1</b>	<b>2,244.9</b>	<b>2,250.4</b>	<b>2,176.2</b>	<b>2,226.6</b>
Maschinell-optische Beleglesung (MAOBE) <sup>3)</sup>	77.9	27.7	11.1	nap	nap
Collection items <sup>4)</sup>	20.2	16.8	11.1	nap	nap
Credit transfers <sup>5)</sup>	57.7	10.9	nap	nap	nap
Retail Payment System (RPS) <sup>6)</sup>	2,198.1	2,217.2	2,239.3	2,176.2	2,226.6
Collection items <sup>4)</sup>	1,473.3	1,469.9	1,499.6	1,398.0	1,416.4
Credit transfers	724.8	747.3	739.7	778.2	810.2
<b>Large-value payments</b>	<b>30.0</b>	<b>33.9</b>	<b>36.1</b>	<b>28.1</b>	<b>30.8</b>
<b>Gross-settlement procedures</b>	<b>10.3</b>	<b>11.2</b>	<b>13.5</b>	<b>16.0</b>	<b>17.8</b>
Euro Link System (ELS) domestic <sup>7)</sup>	7.2	10.6	13.5	16.0	17.8
Platzüberweisungsverkehr <sup>5), 8)</sup>	3.1	0.6	nap	nap	nap
<b>Net settlement procedures</b>	<b>19.7</b>	<b>22.7</b>	<b>22.6</b>	<b>12.1</b>	<b>13.0</b>
Konventionelle Abrechnung <sup>9)</sup>	1.0	0.3	0.1	neg	neg
Collection items (conventional)	0.5	0.2	0.1	neg	neg
Local credit transfers (conventional) <sup>5)</sup>	0.5	0.1	nap	nap	nap
Euro Access Frankfurt (EAF) <sup>10)</sup>	18.8	22.4	22.5	12.1	13.0
<b>Cross-border payments</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>	<b>7.6</b>	<b>8.8</b>
<b>Retail payments</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>	<b>4.7</b>	<b>4.9</b>
MASSE	nav	nav	nav	4.7	4.9
<b>Large-value payments</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>	<b>2.9</b>	<b>3.9</b>
AZV	nav	nav	nav	0.2	0.2
ELS cross-border TARGET payments	nav	nav	nav	2.7	3.7
<b>Concentration ratio<sup>11)</sup></b>	<b>nav</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>

- 1) The table contains both customer and interbank transactions.
- 2) This table does not include figures relating to IFTS which are not operated by the Deutsche Bundesbank.
- 3) Machine-optical voucher reading, excluding payments (cheques, direct debits and credit transfers) submitted in a paper-based form which were truncated and passed on in a paperless form by the Bank.
- 4) Introduction of a general truncation obligation for all direct debits in 1993 and cheques for amounts < DEM 5,000 (BSE-cheques) in 1998. Cheques for amounts >= DEM 5,000 (GSE-cheques) are truncated exclusively by the Deutsche Bundesbank.
- 5) Close down of the systems due to a general truncation obligation for all credit transfers in July 1997.
- 6) (Former: DTA) Paperless exchange of data media, including payments submitted in a paper-based form which were truncated and passed on in a paperless form by the Bank (see footnote 3).
- 7) Former: EIL-ZV (express electronic credit transfer system).
- 8) Express paper-based local credit transfer system.



9) Daily local clearing system (settled delivery envelopes (clearing items)).

10) Formerly EAF2.

11) Market share of the five largest payment systems service providers; based on the total volume of transactions.

**Table 8**

**Payment instructions handled by selected interbank funds transfer systems:  
value of transactions<sup>1), 2)</sup>**

(EUR billions)

	1996	1997	1998	1999	2000
<b>Domestic Payments</b>	<b>99,487.8</b>	<b>113,844.1</b>	<b>118,693.9</b>	<b>63,656.5</b>	<b>67,767.7</b>
<b>Retail payments</b>	<b>2,366.5</b>	<b>2,321.5</b>	<b>2,267.2</b>	<b>2,241.0</b>	<b>2,244.7</b>
Maschinell-optische Beleglesung (MAOBE) <sup>3)</sup>	123.1	111.9	75.6	nap	nap
Collection items <sup>4)</sup>	114.8	110.1	75.6	nap	nap
Credit transfers <sup>5)</sup>	8.3	1.8	nap	nap	nap
Retail Payment System (RPS) <sup>6)</sup>	2,243.4	2,209.7	2,191.6	2,241.3	2,244.7
Collection items <sup>4)</sup>	1,622.6	1,556.8	1,522.8	1,508.0	1,466.0
Credit transfers	620.8	652.8	668.8	733.0	778.7
<b>Large-value payments</b>	<b>97,121.3</b>	<b>111,522.6</b>	<b>116,426.7</b>	<b>61,415.5</b>	<b>65,523.0</b>
<b>Gross-settlement procedures</b>	<b>16,675.0</b>	<b>18,085.8</b>	<b>20,129.1</b>	<b>22,374.6</b>	<b>24,001.0</b>
Euro Link System (ELS) domestic <sup>7)</sup>	14,696.1	17,074.8	20,129.1	22,374.6	24,001.0
Platzüberweisungsverkehr <sup>5), 8)</sup>	1,978.9	1,011.0	nap	nap	nap
<b>Net settlement procedures</b>	<b>80,446.3</b>	<b>93,436.8</b>	<b>96,297.7</b>	<b>39,040.9</b>	<b>41,522.0</b>
Konventionelle Abrechnung <sup>9)</sup>	2,009.3	551.1	44.5	neg	neg
Collection items (conventional)	317.4	140.7	44.5	neg	neg
Local credit transfers (conventional) <sup>5)</sup>	1,691.9	410.5	nap	nap	nap
Euro Access Frankfurt (EAF) <sup>10)</sup>	78,437.0	92,885.7	96,253.2	39,040.9	41,522.0
<b>Cross-border payments</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>	<b>24,717.8</b>	<b>28,421.7</b>
<b>Retail payments</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>	<b>1.8</b>	<b>1.9</b>
MASSE	nav	nav	nav	1.8	1.9
<b>Large-value payments</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>	<b>24,716.0</b>	<b>28,419.8</b>
AZV	nav	nav	nav	144.6	125.4
ELS cross-border TARGET payments	nap	nap	nap	24,571.4	28,294.4
<b>Concentration ratio<sup>11)</sup></b>	<b>nav</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>

1) The table contains both customer and interbank transactions.

2) This table does not include figures relating to IFTS which are not operated by the Deutsche Bundesbank.

3) Machine-optical voucher reading, excluding payments (cheques, direct debits and credit transfers) submitted in a paper-based form which were truncated and passed on in a paperless form by the Bank.

4) Introduction of a general truncation obligation for all direct debits in 1993 and cheques for amounts < 5,000 DM (BSE-cheques) in 1998.  
Cheques for amounts >= 5,000 DM (GSE-cheques) are truncated exclusively by the Deutsche Bundesbank.

5) Close down of the systems due to a general truncation obligation for all credit transfers in July 1997.

6) (Former: DTA) Paperless exchange of data media, including payments submitted in a paper-based form which were truncated and passed on in a paperless form by the Bank (see footnote 3).

7) Former: EIL-ZV (express electronic credit transfer system).

8) Express paper-based local credit transfer system.

9) Daily local clearing system (settled delivery envelopes (clearing items)).

10) Formerly EAF2.

11) Market share of the five largest payment systems service providers; based on the total value of transactions.

**Table 9****Indicators of the use of various cashless payment instruments:****volume of transactions <sup>1)</sup>**

(millions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques	772.0	729.0	656.1	475.7	436.6
<i>of which:</i>					
<i>face-to-face</i>	772.0	729.0	656.1	475.7	436.6
<i>via PC or other terminal <sup>2)</sup></i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Payments by debit card <sup>3)</sup>	214.2	225.8	675.2	860.3	1,037.1
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal <sup>2)</sup></i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Payments by credit card <sup>4)</sup>	289.9	303.4	317.4	338.1	351.6
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal <sup>2)</sup></i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Credit transfers	5,885.0	6,152.0	6,879.7	7,679.5	7,132.9
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal <sup>2)</sup></i>	nav	nav	nav	nav	311.4
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Direct debits	4,828.8	5,393.2	5,079.2	5,239.5	5,532.1
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal <sup>2)</sup></i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Card-based electronic money	0.2	4.2	13.6	20.7	26.6
Network-based electronic money	neg	neg	neg	neg	neg
<b>Total</b>	<b>11,990.1</b>	<b>12,807.6</b>	<b>13,621.2</b>	<b>14,613.8</b>	<b>14,516.9</b>

1) This table contains all customer transactions irrespective of whether they are processed intra- or interbank.

2) Payments through the internet or a fixed line network.

3) In 1996 POS and POZ procedures only. In 1997 POS procedures only. From 1998 POS, POZ and ELV procedures.

4) Usually cards with a delayed debit function (see Table 6).

**Table 10****Indicators of the use of various cashless payment instruments:****value of transactions <sup>1)</sup>**

(EUR billions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques	2,114.19	2,047.72	1,945.36	1,102.18	1,036.16

<i>of which:</i>					
face-to-face	2,114.19	2,047.72	1,945.36	1,102.18	1,036.16
via PC or other terminal <sup>2)</sup>	nav	nav	nav	nav	nav
teleshopping	nav	nav	nav	nav	nav
via mobile phone	nav	nav	nav	nav	nav
Payments by debit card <sup>3)</sup>	16.72	14.83	51.44	64.42	76.11
<i>of which:</i>					
face-to-face	nav	nav	nav	nav	nav
via PC or other terminal <sup>2)</sup>	nav	nav	nav	nav	nav
teleshopping	nav	nav	nav	nav	nav
via mobile phone	nav	nav	nav	nav	nav
Payments by credit card <sup>4)</sup>	30.02	32.11	28.86	31.61	33.47
<i>of which:</i>					
face-to-face	nav	nav	nav	nav	nav
via PC or other terminal <sup>2)</sup>	nav	nav	nav	nav	nav
teleshopping	nav	nav	nav	nav	nav
via mobile phone	nav	nav	nav	nav	nav
Credit transfers	19,099.82	20,534.50	21,428.70	23,723.53	26,471.18
<i>of which:</i>					
face-to-face	nav	nav	nav	nav	nav
via PC or other terminal <sup>2)</sup>	nav	nav	nav	nav	258.32
teleshopping	nav	nav	nav	nav	nav
via mobile phone	nav	nav	nav	nav	nav
Direct debits	2,843.96	3,263.06	3,670.46	3,361.87	3,064.96
<i>of which:</i>					
face-to-face	nav	nav	nav	nav	nav
via PC or other terminal <sup>2)</sup>	nav	nav	nav	nav	nav
teleshopping	nav	nav	nav	nav	nav
via mobile phone	nav	nav	nav	nav	nav
Card-based electronic money	nav	nav	0.09	0.07	0.07
Network-based electronic money	nav	nav	nav	neg	neg
<b>Total</b>	<b>24,104.71</b>	<b>25,892.23</b>	<b>27,124.91</b>	<b>28,283.68</b>	<b>30,681.95</b>

1) This table contains both customer transactions irrespective of whether they are processed intra- or interbank.

2) Payments through the internet or a fixed line network.

3) In 1996 POS and POZ procedures only. In 1997 POS procedures only. From 1998 POS, POZ and ELV procedures.

4) Usually cards with a delayed debit function (see Table 6).

**Table 11a**

**Instructions handled by trading platforms, clearing houses and securities settlement systems:**

**volume of transactions**

(millions)

	1996	1997	1998	1999	2000
<b>Trading platforms</b>					
Xetra					
Number of trades	nav	nav	nav	16	39
Number of units	nav	nav	nav	53,876	49,585
Frankfurt (Floor)					
Number of trades	nav	nav	nav	73	164
Number of units	nav	nav	nav	1,470,080	1,148,415
<b>Clearing house</b>					
Eurex <sup>1)</sup>					
Volume of contracts traded	127.6	152.0	248.2	379.1	454.1
Volume of trades	4.5	6.3	10.5	17.3	20.4

**Securities settlement system**

Clearstream Banking Frankfurt

Volume of trades cleared	20.6	31.2	58.0	73.2	125.0
--------------------------	------	------	------	------	-------

1) Prior to 28 September 1998, DTB + Soffex.

**Table 11b****Instructions handled by trading platforms, clearing houses and securities settlement systems:  
market value of transactions**

(EUR billions)

	1996	1997	1998	1999	2000
<b>Trading platforms</b>					
Xetra	nav	nav	nav	1,169.34	1,982.91
Frankfurt (Floor)	nav	nav	nav	2,907.51	3,218.34
<b>Clearing house</b>					
Eurex <sup>1)</sup>	nav	11,633.84	23,768.08	34,975.25	36,459.31
<b>Securities settlement system</b>					
Clearstream Banking Frankfurt					
Value of trades cleared	8,201.12	9,637.85	12,853.37	14,400.00	nav

1) Prior to 28 September 1998, DTB + Soffex.

**Table 11c****Number of participants in trading platforms, clearing houses and securities settlement systems**

	1996	1997	1998	1999	2000
<b>Trading systems</b>	nav	nav	nav	nav	nav
<b>Clearing house</b>					
Eurex <sup>1)</sup>	210	226	313	414	428
<b>Securities settlement system</b>					
Clearstream Banking Frankfurt	nav	nav	nav	322	420
<i>of which:</i>					
<b>Banks</b>	nav	nav	nav	253	343
<i>of which:</i>					
domestic	nav	nav	nav	241	288
foreign	nav	nav	nav	12	55
<b>Broker/dealer</b>				42	38
<i>of which:</i>					
domestic	nav	nav	nav	35	28
foreign	nav	nav	nav	7	10
<b>Others</b>	nav	nav	nav	0	13
<b>CSDs, Global + Local Custodians</b>	nav	nav	nav	17	16
<i>of which:</i>					
domestic	nav	nav	nav	5	3
foreign	nav	nav	nav	12	13
<b>Central banks, government institutions</b>	nav	nav	nav	10	10
<i>of which:</i>					
domestic	nav	nav	nav	10	10
foreign	nav	nav	nav	0	0

1) Prior to 28 September 1998, DTB only.

**Table 11d****Outstanding securities**

(end of year)

	1996	1997	1998	1999	2000
<b>Clearstream Banking Frankfurt</b>					
Value of securities issued (EUR billions)	nap	nap	nap	nap	nap
Volume of securities issued	nap	nap	nap	nap	nap
Value of securities registered (EUR billions)	nap	nap	nap	nap	nap
Volume of securities registered	nap	nap	nap	nap	nap
Total value of securities under custody (EUR billions)	nav	nav	nav	5,509.40	5,348.13
<i>of which:</i>					
<i>value of stocks under custody</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>1,386.60</i>	<i>2,458.17</i>
<i>value of other securities under custody</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>4,122.80</i>	<i>2,889.96</i>
Total number of securities under custody (millions)	nav	nav	nav	166.40	145.20
<i>of which:</i>					
<i>Number of stocks under custody</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>71.50</i>	<i>58.10</i>
<i>Number of other securities under custody</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>94.90</i>	<i>87.10</i>

**Table 11e****Netting ratio in clearing systems**

	1996	1997	1998	1999	2000
Netting ratio for cash over year	nav	nav	nav	nav	nav
Netting ratio for securities over year	nav	nav	nav	nav	nav

**Table 12****Participation in SWIFT by domestic institutions**

	1996	1997	1998	1999	2000
Members	156	155	154	120	118
<i>of which live</i>	<i>155</i>	<i>154</i>	<i>154</i>	<i>119</i>	<i>118</i>
Sub-members	100	104	109	105	108
<i>of which live</i>	<i>94</i>	<i>101</i>	<i>104</i>	<i>102</i>	<i>106</i>
Participants	8	11	13	46	47
<i>of which live</i>	<i>4</i>	<i>8</i>	<i>10</i>	<i>43</i>	<i>45</i>
Total users	264	270	276	271	273
<i>of which live</i>	<i>253</i>	<i>263</i>	<i>268</i>	<i>264</i>	<i>269</i>
<i>Memorandum items:</i>					
Total SWIFT users	5,918	6,372	6,771	6,991	7,293
<i>members</i>	<i>3,014</i>	<i>3,070</i>	<i>3,052</i>	<i>2,230</i>	<i>2,307</i>
<i>sub-members</i>	<i>2,500</i>	<i>2,621</i>	<i>2,781</i>	<i>2,825</i>	<i>3,037</i>
<i>participants</i>	<i>404</i>	<i>681</i>	<i>938</i>	<i>1,936</i>	<i>1,949</i>

**Table 13****SWIFT message flows to/from domestic users**

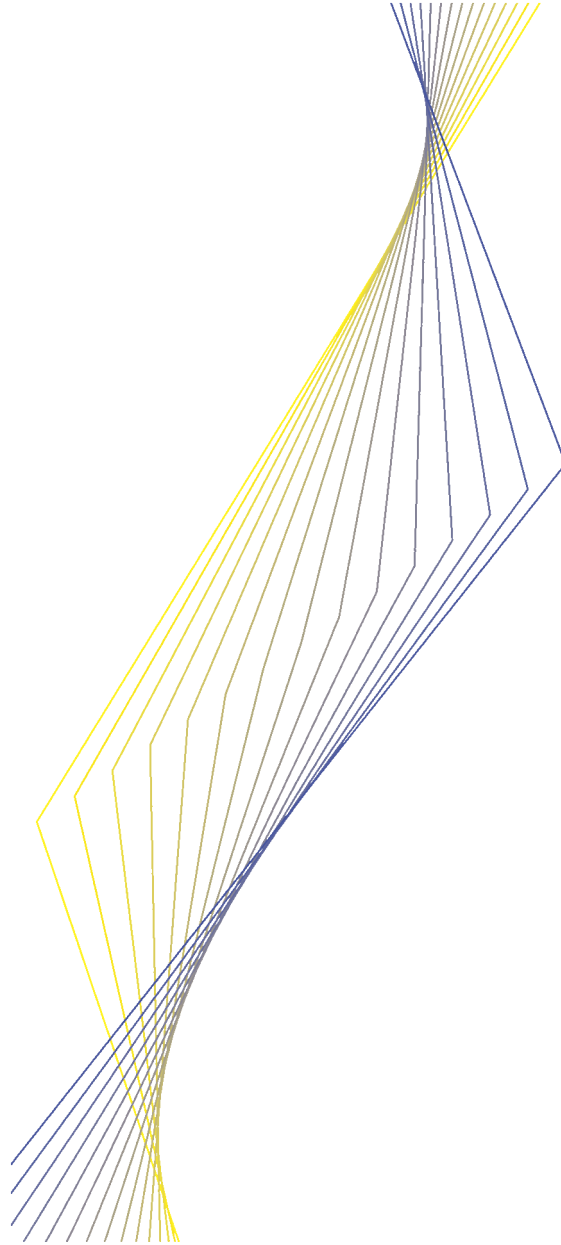
	1996	1997	1998	1999	2000
Total messages sent	47,803,674	55,873,558	61,963,751	73,862,434	90,318,753
<i>of which:</i>					
<i>category I</i>	<i>16,493,249</i>	<i>17,731,609</i>	<i>19,351,531</i>	<i>25,248,905</i>	<i>28,422,609</i>
<i>category II</i>	<i>8,564,736</i>	<i>9,177,317</i>	<i>9,690,958</i>	<i>11,018,561</i>	<i>11,894,325</i>
Total messages received	59,246,442	66,287,028	72,099,434	74,208,467	88,852,102

<i>of which:</i>					
<i>category I</i>	18,627,409	20,146,525	21,958,781	28,052,568	31,699,774
<i>category II</i>	25,231,632	28,261,324	29,076,972	19,489,307	20,043,815
Domestic traffic	6,834,054	7,396,209	7,572,070	6,989,083	8,361,796
<i>Memorandum item:</i>					
Global SWIFT traffic	687,785,294	812,117,556	941,235,088	1,058,836,425	1,273,912,754





EUROPEAN CENTRAL BANK



**Greece**





**Table 1****Basic statistical data**

	1996	1997	1998	1999	2000
Population (thousands)	10,476	10,499	10,511	10,528	10,535
GDP (GRD billions)	29,943.51	33,100.99	35,884.31	38,146.50	41,405.49
GDP per capita (GRD)	2,857,466	3,152,946	3,370,810	3,361,843	3,744,335
Exchange rate (domestic currency vis-à-vis ECU/EUR):					
<i>end of year</i>	309.502	312.039	329.689	330.300	340.750
<i>average</i>	305.546	309.355	330.731	325.760	336.630

**Table 2****Settlement media used by non-banks**

(end of year, GRD billions)

	1996	1997	1998	1999	2000
Banknotes and coins	1,941.40	2,182.70	2,205.90	2,702.02	2,672.90
Transferable deposits <sup>1)</sup>	2,456.30	2,789.10	3,275.20	4,648.40	4,540.20
Narrow money supply (M1)	4,397.70	4,971.80	5,464.30	7,331.50	7,177.80
<i>Memorandum items:</i>					
Broad money supply <sup>2)</sup>	24,638.60	29,414.40	33,717.20	37,749.70	43,401.10
Transferable deposits in foreign currencies	94.30	164.50	223.20	344.50	481.80
Outstanding value on e-money schemes	nap	nap	nap	nap	nap
<i>of which:</i>					
<i>on card-based products</i>	nap	nap	nap	nap	nap
<i>on network-based products</i>	nap	nap	nap	nap	nap

1) Total sight deposits (in all currencies).

2) M3 is defined according to the Eurosystem.

**Table 3****Settlement media used by banks**

(end of year, GRD billions)

	1996	1997	1998	1999	2000
Transferable balances held at central bank	nav	nav	nav	nav	750.18
<i>of which:</i>					
<i>required reserves</i>	nav	nav	nav	nav	709.53
<i>free reserves</i>	nav	nav	nav	nav	40.65
Transferable balances held at other banks	367.80	607.50	471.60	888.10	1,210.80
<i>Memorandum item:</i>					
Institutions' borrowing from central bank <sup>1)</sup>	nav	nav	nav	nav	1,321.80

1) Swaps and repos.

**Table 4****Banknotes and coins**

(end of year, total value, GRD millions)

	1996	1997	1998	1999	2000
Total banknotes issued	2,205,992	2,404,012	2,469,767	3,101,229	3,036,426
<i>of which:</i>					
<i>GRD 10,000</i>	576,867	1,063,054	1,374,178	2,070,070	2,210,213
<i>GRD 5,000</i>	1,480,441	1,184,457	942,710	868,344	663,764
<i>GRD 1,000</i>	106,771	110,104	103,977	111,334	115,081
<i>GRD 500</i>	28,457	29,569	30,131	31,943	29,757
<i>GRD 200</i>	1,985	5,529	7,409	8,063	7,287
<i>GRD 100</i>	9,706	9,376	9,632	9,614	8,806

<i>GRD 50</i>	1,765	1,923	1,730	1,861	1,518
Total coins issued	45,075	47,449	49,652	52,874	60,819
Total banknotes and coins issued	2,251,067	2,451,461	2,519,419	3,154,103	3,097,245
Banknotes and coins held by credit institutions	309,705	268,741	313,556	452,083	424,353
Banknotes and coins in circulation outside credit institutions	1,941,362	2,182,720	2,205,863	2,702,020	2,672,892

**Table 5**  
**Institutional framework**  
(end of 2000)

Categories	Number of institutions	Number of branches <sup>1)</sup>	Number of accounts <sup>2)</sup> (thousands)	Number of internet-linked accounts	Value of accounts <sup>2)</sup> (GRD billions)
Central bank	1	95	0.45	nap	60.50
Credit institutions	56	2,702	1,520.50	37,379	3,997.90
<i>of which:</i>					
<i>commercial banks</i>	37	2,611	1,495.20	37,379	3,795.90
<i>shipping banks</i>	1	1	nav	nap	nav
<i>co-operative banks</i>	14	46	8.20	nap	10.70
<i>specialised credit institutions</i>	4	44	17.10	nap	191.30
Postal institution	1	134	nav	nap	nav
Total	58	2,931	1,520.95	37,379	4,058.40
<i>of which:</i>					
<i>virtual institutions</i>	nap	nap	nap	nap	nap
Branches of foreign banks	22	164	69	1,300	284.90
<i>of which:</i>					
<i>EU-based</i>	13	66	34.70	nap	151.20

1) Not including windows.

2) Accounts in national currency (GRD).

**Table 6**  
**Payment card functions and accepting devices**  
(end of year)

	1996	1997	1998	1999	2000
<b>Cash function</b>					
Cards with a cash function (thousands)	2,400	2,459	3,417	4,469	5,889
Number of networks	12	12	18	21	18
Number of ATMs with a cash dispensing function	1,936	2,190	2,168	3,054	3,472
<i>of which:</i>					
<i>open access</i>	1,936	2,190	2,168	3,054	3,442
<i>limited access</i>	nav	nav	nav	nav	30
Volume of transactions (thousands)	58,605	62,536	78,524	95,336	124,657
<i>of which:</i>					
<i>at ATMs with open access</i>	58,605	62,536	78,524	95,336	122,900
<i>at ATMs with limited access</i>	nav	nav	nav	nav	1,757
Value of transactions (GRD millions)	2,377,010	3,141,534	4,356,267	6,395,917	6,605,295
<i>of which:</i>					
<i>at ATMs with open access</i>	2,377,010	3,141,534	4,356,267	6,395,917	6,569,288
<i>at ATMs with limited access</i>	nav	nav	nav	nav	36,007
Number of ATMs with a giro transfer function	nav	nav	nav	nav	3,363
<i>volume of transactions (thousands)</i>	nav	nav	nav	nav	584
<i>value of transactions (GRD millions)</i>	nav	nav	nav	nav	188,473

**Debit function**

Cards with a debit function (thousands)	1,518	1,553	1,413	3,975	3,524
<i>of which:</i>					
<i>retailer cards (thousands)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Number of networks	5	5	6	8	9
Number of terminals	18,812	29,719	55,318	74,705	64,039
Volume of transactions (thousands)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	602
<i>of which:</i>					
<i>transactions with retailer cards (thousands)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Value of transactions (GRD millions)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	14,368
<i>of which:</i>					
<i>transactions with retailer cards (GRD millions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>transactions with retailer cards (GRD millions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>

**Credit function <sup>1)</sup>**

Cards with a credit function (thousands)	1,060	1,526	1,513	2,014	3,030
<i>of which:</i>					
<i>retailer cards (thousands)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	24
Number of networks	5	5	6	8	9
Number of terminals	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	201,550
Volume of transactions (thousands)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	50,220
<i>of which:</i>					
<i>transactions with retailer cards (thousands)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	364
Value of transactions (GRD millions)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	1,053,638
<i>of which:</i>					
<i>transactions with retailer cards (GRD millions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	15,568

**Electronic money function**

Cards with an e-money function (thousands)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Number of accepting terminals	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Number of networks	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Number of purchase transactions (thousands)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Value of purchase transactions (GRD millions)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Number of loading transactions (thousands)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Number of loading terminals	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Value of money loaded (GRD millions)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Float (GRD millions)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>

**Delayed debit cards (charge cards) <sup>2)</sup>**

Cards with a delayed debit function (thousands)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Number of terminals	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Volume of transactions (thousands)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Value of transactions (GRD millions)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>

*Memorandum item:*

Total number of cards in circulation (thousands)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	8,990
<i>of which:</i>					
<i>cards with a combined debit, cash and e-money function (thousands)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>cards with a cheque guarantee function (thousands)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>

1) Data for travel and entertainment (charge) cards are not available.

2) Data for delayed debit cards are included in the figures for cards with a credit function.

**Table 7**  
**Payment instructions handled by selected interbank funds transfer systems:**  
**volume of transactions**  
(thousands)

	1996	1997	1998	1999	2000
<b>HERMES</b>	nap	nap	nap	nap	<b>861</b>
<b>EURO HERMES</b>	nap	nap	nap	<b>31</b>	<b>100</b>
<b>Athens Clearing Office</b>	<b>8,256</b>	<b>7,115</b>	<b>6,071</b>	<b>5,488</b>	<b>5,408</b>
<i>of which:</i>					
<i>cheques in GRD</i>	8,091	6,958	5,922	5,362	5,322
<i>cheques in foreign exchange</i>	111	106	99	88	86
<i>credit transfers <sup>1)</sup></i>	54	51	50	38	nap
<b>DIAS S.A.</b>	<b>8,127</b>	<b>10,152</b>	<b>11,083</b>	<b>11,721</b>	<b>25,951</b>
<i>of which:</i>					
<i>cheques in GRD</i>	8,127	10,152	11,083	11,714	12,001
<i>credit transfers</i>	nap	nap	nap	7	11
<i>ATM withdrawals</i>	nap	nav	nav	nav	13,939
<b>Concentration ratio</b>					
HERMES	nap	nap	nap	nap	nav
EURO HERMES	nap	nap	nap	nav	nav
Athens Clearing Office	nav	nav	nav	53%	65%
DIAS S.A.	nav	nav	nav	81%	81%

1) As of 2000, ACO performs only clearing of cheques.

**Table 8**  
**Payment instructions handled by selected interbank funds transfer systems:**  
**value of transactions**  
(GRD billions)

	1996	1997	1998	1999	2000
<b>HERMES</b>	nap	nap	nap	nap	<b>1,261</b>
<b>EURO HERMES</b>	nap	nap	nap	<b>108</b>	<b>72</b>
<b>Athens Clearing Office</b>	<b>174,099</b>	<b>194,433</b>	<b>212,879</b>	<b>254,975</b>	<b>83,020</b>
<i>of which:</i>					
<i>cheques in GRD</i>	48,852	57,782	66,448	89,617	82,629
<i>cheques in foreign exchange</i>	329	355	311	307	391
<i>credit transfers <sup>1)</sup></i>	124,918	136,296	146,120	165,051	nap
<b>DIAS S.A.</b>	<b>6,921</b>	<b>9,672</b>	<b>11,344</b>	<b>12,989</b>	<b>18,460</b>
<i>of which:</i>					
<i>cheques in GRD</i>	6,921	9,672	11,344	12,980	17,970
<i>credit transfers</i>	nap	nap	nap	9	15
<i>ATM withdrawals</i>	nap	nav	nav	nav	475
<b>Concentration ratio</b>					
HERMES	nap	nap	nap	nap	nav
EURO HERMES	nap	nap	nap	nav	nav
Athens Clearing Office	nav	nav	nav	44%	74%
DIAS S.A.	nav	nav	nav	72%	76%

1) As of 2000, ACO performs only clearing of cheques.

**Table 9**
**Indicators of the use of various cashless payment instruments:  
volume of transactions**  
(millions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques	3.34	1.99	1.90	2.22	2.23
<i>of which:</i>					
<i>face-to-face</i>	3.34	1.99	1.90	2.22	2.23
<i>via PC or other terminal</i>	nap	nap	nap	nap	nap
<i>telebanking</i>	nap	nap	nap	nap	nap
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Payments by debit card	nav	nav	nav	nav	0.60
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	0.60
<i>via PC or other terminal</i>	nap	nap	nap	nap	nap
<i>telebanking</i>	nap	nap	nap	nap	nap
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Payments by credit card <sup>1)</sup>	nav	nav	nav	nav	50.22
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	50.17
<i>via PC or other terminal</i>	nav	nav	nav	nav	0.05
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Credit transfers <sup>2)</sup>	nav	6.32	nav	nav	7.17
<i>of which:</i>					
<i>face-to-face</i>	nav	0.68	0.55	nav	5.51
<i>via PC or other terminal</i>	3.28	5.64	nav	nav	0.28
<i>telebanking</i>	nav	nav	nav	nav	0.80
<i>via mobile phone</i>	nap	nap	nap	nap	neg
Direct debits	1.09	1.12	nav	2.93	3.40
<i>of which:</i>					
<i>face-to-face</i>	1.09	1.12	nav	2.93	3.40
<i>via PC or other terminal</i>	nap	nap	nap	nap	nap
<i>telebanking</i>	nap	nap	nap	nap	nap
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Card-based electronic money	nap	nap	nap	nap	nap
Network-based electronic money	nap	nap	nap	nap	nap
<b>Total</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>	<b>63.62</b>

1) Payments by delayed debit card are included in the figures for payments by credit card.

2) Includes items initiated by banks according to the following: nav for 1996, nav for 1997, nav for 1998, nav for 1999, 0.584 million for 2000.

**Table 10**
**Indicators of the use of various cashless payment instruments:  
value of transactions**  
(GRD billions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques	15,457	15,771	17,616	26,594	30,345
<i>of which:</i>					
<i>face-to-face</i>	15,457	15,771	17,616	26,594	30,345
<i>via PC or other terminal</i>	nap	nap	nap	nap	nap
<i>telebanking</i>	nap	nap	nap	nap	nap
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Payments by debit card	nav	nav	nav	nav	14
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	14

via PC or other terminal	nav	nav	nav	nav	nav
teleshopping	nav	nav	nav	nav	nav
via mobile phone	nav	nav	nav	nav	nav
Payments by credit card <sup>1)</sup>	nav	nav	nav	nav	1,054
of which:					
face-to-face	nav	nav	nav	nav	1,040
via PC or other terminal	nav	nav	nav	nav	14
teleshopping	nav	nav	nav	nav	nav
via mobile phone	nav	nav	nav	nav	nav
Credit transfers <sup>2)</sup>	nav	418,598	nav	nav	2,176,740
of which:					
face-to-face	nav	49,360	42,496	nav	717,100
via PC or other terminal	394,191	369,238	nav	nav	4,850
teleshopping	nav	nav	nav	nav	171,220
via mobile phone	nav	nav	nav	nav	neg
Direct debits	nav	407	nav	521	645
of which:					
face-to-face	nav	407	nav	521	645
via PC or other terminal	nav	nav	nav	nav	nav
teleshopping	nav	nav	nav	nav	nav
via mobile phone	nav	nav	nav	nav	nav
Card-based electronic money	nav	nav	nav	nav	nav
Network-based electronic money	nav	nav	nav	nav	nav
<b>Total</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>	<b>2,208,798</b>

1) Payments by delayed debit card are included in the figures for payments by credit card.

2) Includes items initiated by banks according to the following: nav for 1996, nav for 1997, nav for 1998, nav for 1999, GRD 1,283,570 billion for 2000.

**Table 11a**

**Instructions handled by trading platforms, clearing houses and securities settlement systems:  
volume of transactions**  
(thousands)

	1996	1997	1998	1999	2000
<b>Trading platforms</b>					
HDAT <sup>1)</sup>	nav	nav	5	13	11
Athens Stock Exchange (ASE)	2,001	3,733	7,455	24,052	22,043
<b>Clearing houses</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>
<b>Securities settlement systems</b>					
BOGS <sup>1)</sup>	19	33	58	117	135
of which:					
primary market	0.9	1.4	2.2	2.9	1.2
ASE's CSD	1,052	3,747	7,480	22,908	21,973

1) Only government securities.

**Table 11b**

**Instructions handled by trading platforms, clearing houses and securities settlement systems:  
market value of transactions**  
(GRD billions)

	1996	1997	1998	1999	2000
<b>Trading platforms</b>					
HDAT <sup>1), 2)</sup>	nav	nav	2,794	14,412	24,241
Athens Stock Exchange (ASE)	1,993	5,820	14,212	58,959	34,646
<b>Clearing houses</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>
<b>Securities settlement systems</b>					
BOGS <sup>1), 2)</sup>	10,723	30,277	81,385	168,845	363,843
of which:					

<i>primary market</i>	5,536	11,187	19,305	19,045	11,279
ASE's CSD	1,988	5,164	14,051	53,707	33,726

1) *Nominal value of transactions.*

2) *Only government securities.*

**Table 11c**  
**Number of participants in trading platforms, clearing houses and securities settlement systems**

	1996	1997	1998	1999	2000
<b>Trading systems</b>					
HDAT	nap	nap	40	35	34
<i>of which:</i>					
<i>domestic banks</i>	nap	nap	20	17	14
<i>foreign banks</i>	nap	nap	17	15	17
<i>specialised credit institutions</i>	nap	nap	3	3	3
Athens Stock Exchange (ASE)	61	62	65	75	90
<i>of which:</i>					
<i>domestic brokers/dealers</i>	65	62	65	75	90
<i>foreign brokers/dealers</i>	0	0	0	0	0
<b>Clearing systems</b>	<b>nap</b>	<b>nap</b>	<b>nap</b>	<b>nap</b>	<b>nap</b>
<b>Securities settlement systems</b>					
BOGS	71	75	76	87	96
<i>of which:</i>					
<i>domestic banks</i>	17	17	17	18	16
<i>foreign banks</i>	17	18	18	18	18
<i>specialised credit institutions</i>	1	3	3	3	3
<i>domestic brokers/dealers</i>	36	37	38	48	59
<i>foreign brokers/dealers</i>	0	0	0	0	0
ASE's CSD	nav	nav	nav	127	125
<i>of which:</i>					
<i>banks</i>	0	0	0	38	33
<i>brokers/dealers</i>	61	62	65	89	92

**Table 11d**  
**Outstanding securities**  
(end of year)

	1996	1997	1998	1999	2000
<b>Name of system</b>					
HDAT					
Value of securities registered (GRD billions)	nav	nav	18,489	27,017	27,544
Number of securities registered	nav	nav	107	383	176
Athens Stock Exchange (ASE)					
Value of stocks registered (GRD billions)	5,945	9,811	22,839	67,311	40,194
Value of other securities registered (GRD billions)	17,535	13,734	22,801	26,190	26,218
Number of stocks registered	290	290	298	318	363
Number of other securities registered	474	403	425	389	360
BOGS					
Value of securities issued (GRD billions)	5,571	12,311	21,191	28,356	32,169
Number of securities issued	90	126	149	180	153
ASE's CSD					
Value of securities registered (GRD billions)	5,945	9,811	20,889	65,464	39,140
Number of securities registered	217	228	249	282	380



**Table 11e****Netting ratio in clearing systems**

	1996	1997	1998	1999	2000
<b>Name of system</b>					
BOGS					
Netting ratio for cash over year	nav	nav	nav	nav	nav
Netting ratio for securities over year	nav	nav	nav	nav	nav

**Table 12****Participation in SWIFT by domestic institutions**

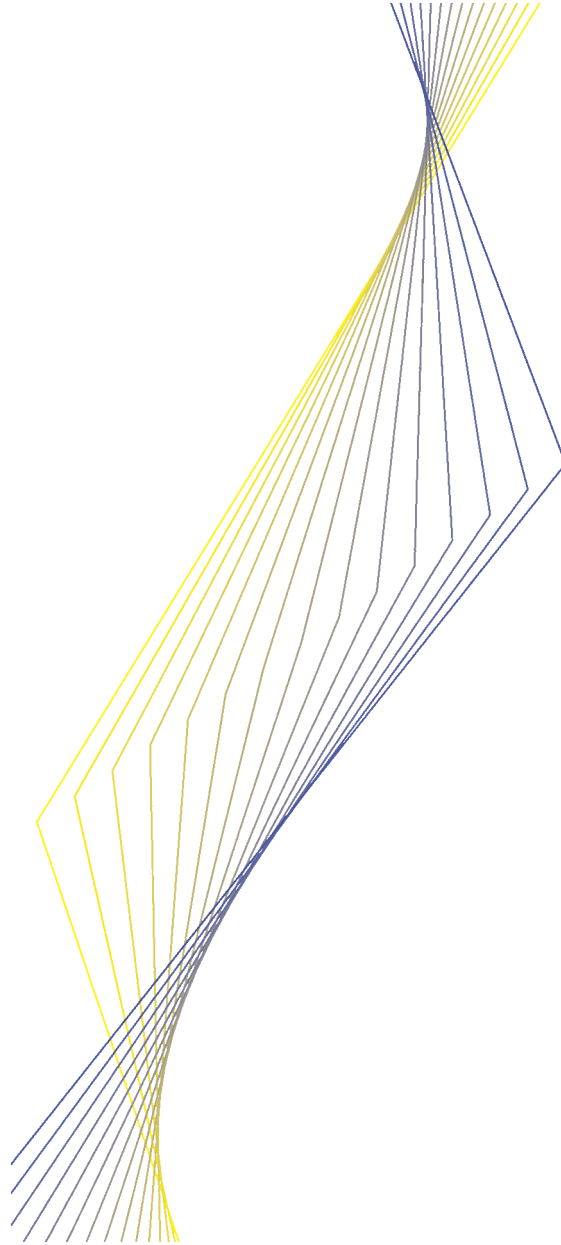
	1996	1997	1998	1999	2000
Members	24	23	22	18	17
<i>of which live</i>	23	23	22	18	17
Sub-members	20	20	21	20	21
<i>of which live</i>	20	20	21	20	21
Participants	0	0	1	5	5
<i>of which live</i>	0	0	1	5	5
Total users	44	43	44	43	43
<i>of which live</i>	43	43	44	43	43
<i>Memorandum items:</i>					
Total SWIFT users	5,918	6,372	6,771	6,991	7,293
<i>members</i>	3,014	3,070	3,052	2,230	2,307
<i>sub-members</i>	2,500	2,621	2,781	2,825	3,037
<i>participants</i>	404	681	938	1,936	1,949

**Table 13****SWIFT message flows to/from domestic users**

	1996	1997	1998	1999	2000
Total messages sent	3,653,816	4,749,696	6,087,598	7,712,974	10,480,613
<i>of which:</i>					
<i>category I</i>	1,156,158	1,540,709	1,711,688	1,946,686	2,635,530
<i>category II</i>	1,279,116	1,625,045	2,032,025	2,114,493	1,837,109
Total messages received	3,489,556	4,247,397	5,411,163	6,301,570	8,400,063
<i>of which:</i>					
<i>category I</i>	978,375	1,110,972	1,306,175	1,549,645	2,284,518
<i>category II</i>	700,031	1,030,760	1,584,059	1,929,463	1,639,709
Domestic traffic	868,701	1,157,566	1,643,201	2,046,016	4,140,522
<i>Memorandum item:</i>					
Global SWIFT traffic	687,785,294	812,117,556	941,235,088	1,058,836,425	1,273,912,754



EUROPEAN CENTRAL BANK



**Spain**



**Table 1****Basic statistical data**

	1996	1997	1998	1999	2000
Population (thousands)	39,270	39,323	39,371	39,418	39,927
GDP (ECU/EUR billions) <sup>1)</sup>	480.5	495.6	525.4	565.5	608.8
GDP per capita (ECU/EUR) <sup>1)</sup>	12,237	12,604	13,346	14,346	15,248
Exchange rate (domestic currency vis-à-vis ECU/EUR):					
end of year <sup>2)</sup>	164.167	167.388	166.386	166.386	166.386
average <sup>2)</sup>	160.748	165.887	167.184	166.386	166.386

1) Prior to 1999, converted using the ESP/ECU exchange rate. In the following tables, the irrevocable conversion rate to the euro has been used for data prior to 1999.

2) Irrevocable conversion rates were adopted with the introduction of the euro on 1 January 1999.

**Table 2****Settlement media used by non-banks**

(end of year, EUR billions)

	1996	1997	1998	1999	2000
Banknotes and coins	48	50	51	55	54
Transferable deposits <sup>1)</sup>	145	166	198	246	265
Narrow money supply <sup>2)</sup>	191	213	244	300	320
Outstanding value on e-money schemes	neg	0.001	0.010	0.015	0.017
of which:					
on card-based products	neg	0.001	0.010	0.015	0.017
on network-based products	nap	nap	nap	neg	neg

1) Since 1999, public sector deposits in the private financial sector are included.

2) The definition of this figure does not correspond with M1.

**Table 3****Settlement media used by banks**

(end of year, EUR billions)

	1996	1997	1998	1999	2000
Transferable balances held at central bank	6.27	6.39	6.51	8.71	9.72
of which:					
required reserves	6.21	6.33	6.44	8.67	9.68
free reserves	0.06	0.06	0.07	0.05	0.04
Transferable balances held at other banks	1.77	1.79	1.29	1.38	1.02

**Table 4****Banknotes and coins**

(end of year, total value, EUR billions and ESP billions)

	1996		1997		1998		1999		2000	
	EUR	ESP	EUR	ESP	EUR	ESP	EUR	ESP	EUR	ESP
Total banknotes issued	48.96	8,147	51.92	8,638	52.73	8,773	58.94	9,807	57.23	9,522
<i>of which:</i>										
ESP 10,000	25.93	4,314	28.15	4,684	29.37	4,887	33.47	5,569	33.89	5,638
ESP 5,000	19.27	3,206	19.82	3,297	19.27	3,206	20.73	3,450	18.84	3,134
ESP 2,000	2.27	378	2.45	407	2.61	434	3.16	526	2.99	498
ESP 1,000	1.48	246	1.48	246	1.48	246	1.57	262	1.51	252
Other	0.02	4	0.02	4	neg	neg	neg	neg	neg	neg
Total coins issued	2.23	371	2.13	354	2.30	382	2.43	405	2.60	432
<i>of which:</i>										
ESP 2,000	0.20	33	0.22	37	0.23	39	0.25	41	0.25	42
ESP 500	0.58	96	0.61	101	0.64	106	0.67	111	0.70	117
ESP 200	0.11	19	0.08	14	0.10	16	0.09	15	0.09	15
ESP 100	0.72	119	0.75	124	0.81	135	0.88	146	0.96	160
ESP 50	0.07	11	0.04	6	0.04	6	0.04	6	0.03	5
ESP 25	0.28	46	0.23	39	0.26	43	0.27	45	0.29	49
ESP 10	0.02	4	0.02	4	0.02	4	0.02	4	0.02	4
ESP 5	0.16	26	0.10	16	0.11	19	0.13	22	0.14	24
ESP 2	neg	0.1	neg	neg	neg	neg	neg	neg	neg	neg
ESP 1	0.04	7	0.01	2	0.01	2	0.01	2	0.01	2
Other	0.07	12	0.07	12	0.07	12	0.08	13	0.08	13
Total banknotes and coins issued	51.19	8,518	54.04	8,992	55.02	9,155	61.38	10,212	59.82	9,954
Banknotes and coins held by credit institutions	3.47	577	3.68	613	4.32	719	6.64	1,104	5.39	896
Banknotes and coins in circulation outside credit institutions	47.73	7,941	50.35	8,378	50.70	8,436	54.74	9,108	54.45	9,059

**Table 5**  
**Institutional framework**  
(end of 2000)

Categories	Number of institutions	Number of branches	Number of accounts (thousands)	Number of internet-linked accounts <sup>1)</sup>	Value of accounts (EUR billions) <sup>2)</sup>
Central bank	1	52	neg	nav	nav
Commercial banks	140	15,811	29,061	nav	128
Savings banks	48	19,268	40,972	nav	122
Co-operative and rural banks	90	3,888	5,871	nav	16
Postal institution	nav	nav	nav	nav	nav
Total	279	39,019	75,904	nav	265
<i>of which:</i>					
<i>virtual institutions</i>	3	nav	201	201	1.0
Branches of foreign banks	52	124	174	nav	3.2
<i>of which:</i>					
<i>EU-based</i>	41	108	168	nav	2.9

1) Although there are no data available, most credit institutions offer internet services to their customers.

2) Public sector deposits are included.

**Table 6**  
**Payment card functions and accepting devices <sup>1)</sup>**  
(end of year)

	1996	1997	1998	1999	2000
<b>Cash function <sup>2)</sup></b>					
Cards with a cash function (thousands)	33,189	35,770	39,385	43,476	46,682
Number of networks	3	3	3	3	3
Number of ATMs with a cash dispensing function <sup>3)</sup>	30,437	33,940	37,893	41,871	44,851
Volume of transactions (millions)	582	605	638	660	728
Value of transactions (EUR billions)	48	49	53	58	62
Number of ATMs with a giro transfer function <sup>4)</sup>	nav	nav	nav	nav	nav
<i>volume of transactions (millions)</i>	nav	nav	nav	nav	nav
<i>value of transactions (EUR billions)</i>	nav	nav	nav	nav	nav
<b>Debit function <sup>5)</sup></b>					
Cards with a debit function (thousands)	33,076	35,275	38,606	42,778	45,801
<i>of which:</i>					
<i>retailer cards (thousands)</i>	nav	nav	nav	nav	nav
Number of networks	3	3	3	3	3
Number of terminals <sup>6)</sup>	575,325	656,325	722,498	745,065	802,698
Volume of transactions (millions)	156	183	212	257	287
<i>of which:</i>					
<i>transactions with retailer cards (millions)</i>	nav	nav	nav	nav	nav
Value of transactions (EUR billions)	6.00	6.98	8.18	10.01	11.27
<i>of which:</i>					
<i>transactions with retailer cards (EUR billions)</i>	nav	nav	nav	nav	nav
<b>Credit and delayed debit cards (charge cards) <sup>7), 8)</sup></b>					
Cards with a credit function (thousands)	10,645	11,634	12,922	15,772	16,057
<i>of which:</i>					
<i>retailer cards (thousands)</i>	nav	nav	nav	nav	nav
Number of networks	3	3	3	3	3
Number of terminals <sup>9)</sup>	575,325	656,325	722,498	745,065	802,698

Volume of transactions (millions)	138	165	189	219	222
<i>of which:</i>					
<i>transactions with retailer cards (millions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Value of transactions (EUR billions)	8.07	9.52	11.09	12.92	13.55
<i>of which:</i>					
<i>transactions with retailer cards (EUR billions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<b>Electronic money function</b>					
Cards with an e-money function (thousands)	1,344	3,502	5,691	8,089	10,496
Number of accepting terminals	48,524	77,092	99,335	131,702	188,510
Number of networks	3	3	3	3	3
Number of purchase transactions (millions)	0.05	1.92	2.23	2.02	1.79
Value of purchase transactions (EUR millions)	0.23	6.02	6.22	5.71	4.62
Number of loading transactions (millions)	0.15	1.11	1.38	1.27	1.04
Number of loading terminals	4,123	10,942	16,774	22,149	27,279
Value of money loaded (EUR millions)	2.18	17.72	22.48	21.54	18.07
Float (EUR millions)	0.42	0.88	10.28	15.06	16.77
<i>Memorandum item:</i>					
Total number of cards in circulation (thousands)	33,511	36,379	40,380	45,181	48,406
<i>of which:</i>					
<i>cards with a combined debit, cash and e-money function (thousands)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	5,217	6,938
<i>cards with a cheque guarantee function (thousands)</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>

- 1) Most data in this table are estimations based on information provided by the card networks.
- 2) Cash operations at ATMs initiated by any kind of card.
- 3) The number of limited access ATMs in Spain is negligible.
- 4) In most cases, the possibility of making transfers at an ATM depends on the credit institution, not on the card network.
- 5) Volume and value of transactions initiated at EFTPOS terminals with debit cards.
- 6) EFTPOS terminals accepting debit cards.
- 7) Volume and value of transactions initiated at EFTPOS terminals with credit or delayed debit cards.
- 8) Delayed debit cards are used much more in Spain than pure credit cards.
- 9) EFTPOS terminals accepting credit cards.

**Table 7****Payment instructions handled by selected interbank funds transfer systems:****volume of transactions<sup>1)</sup>**

(millions)

	1996	1997	1998	1999	2000
<b>SPI<sup>2)</sup></b>	<b>15.50</b>	<b>2.10</b>	<b>2.20</b>	<b>1.10</b>	<b>0.98</b>
Retail payments <sup>3)</sup>	13.50	nap	nap	nap	nap
<i>of which:</i>					
<i>cheques</i>	1.60	nap	nap	nap	nap
<i>direct debits</i>	1.50	nap	nap	nap	nap
<i>bills of exchange</i>	10.4	nap	nap	nap	nap
Large-value payments	2.00	2.10	2.20	1.10	0.98
<i>of which:</i>					
<i>domestic</i>	0.10	0.10	0.10	0.05	0.05
<i>cross-border transfers<sup>4)</sup></i>	1.90	2.00	2.10	1.06	0.93
<b>SNCE<sup>5)</sup></b>	<b>663.90</b>	<b>735.80</b>	<b>789.90</b>	<b>861.90</b>	<b>931.57</b>
Computer link	237.20	522.60	677.70	853.10	931.57
<i>of which:</i>					
<i>cheques</i>	129.10	128.30	131.40	139.70	135.38
<i>credit transfers</i>	81.30	96.10	121.60	150.30	170.49
<i>direct debits</i>	26.50	296.00	379.40	481.40	547.96

petrol cheques	nap	nap	nap	17.00	19.60
bills of exchange	0.30	2.20	45.30	64.70	58.13
Magnetic tape	426.7	213.2	112.2	8.8	nap
of which:					
cheques	16.10	14.50	11.30	0.90	nap
credit transfers	20.30	20.20	11.20	0.60	nap
direct debits	291.30	76.50	40.50	3.90	nap
petrol cheques	19.00	21.70	18.80	2.10	nap
bills of exchange	80.00	80.30	30.40	1.30	nap
<b>SLBE</b>	<b>1.13</b>	<b>1.38</b>	<b>2.21</b>	<b>2.30</b>	<b>2.40</b>
Interbank loans market	0.26	0.24	0.19	0.13	0.11
Book-entry debt market	0.69	0.69	0.70	0.60	0.51
Cross-border bank transfers (sent)	nap	nap	nap	0.18	0.28
Cross-border bank transfers (received) <sup>6)</sup>	nap	nap	nap	0.39	0.56
Domestic interbank transfers	0.17	0.45	0.65	0.77	0.94
Other	nav	nav	0.67	0.63	0.56
<b>Concentration ratio</b> <sup>7)</sup>					
SPI	nav	58.80%	57.01%	51.44%	59.19%
SNCE	55.35%	52.78%	58.45%	63.24%	61.85%
SLBE	nav	nav	nav	nav	41.68%

1) The table contains both customer and interbank transactions.

2) This private company was formerly the Madrid Clearing House.

3) Since January 1997, retail payments have been processed through the SNCE system.

4) Large-value transfers to/from non-residents.

5) Since 1999, all payments have been processed via computer link.

6) Not included in the total of SLBE.

7) Market share of the five largest participants in each payment system, based on the total volume of transactions.

**Table 8**

**Payment instructions handled by selected interbank funds transfer systems:**

**value of transactions** <sup>1)</sup>

(EUR billions)

	1996	1997	1998	1999	2000
<b>SPI</b> <sup>2)</sup>	<b>9,067.4</b>	<b>9,874.1</b>	<b>9,926.2</b>	<b>939.3</b>	<b>448.4</b>
Retail Payments <sup>3)</sup>	46.6	nap	nap	nap	nap
of which:					
cheques	8.2	nap	nap	nap	nap
direct debits	1.6	nap	nap	nap	nap
bills of exchange	36.8	nap	nap	nap	nap
Large-value payments	9,020.8	9,874.1	9,926.2	939.3	448.4
of which:					
domestic	1,063.8	968.2	551.0	186.1	93.0
cross-border transfers <sup>4)</sup>	7,957.0	8,905.9	9,375.2	753.2	355.4
<b>SNCE</b> <sup>5)</sup>	<b>775.1</b>	<b>899.1</b>	<b>1,006.0</b>	<b>1,108.5</b>	<b>1,196.3</b>
Computer link	466.8	598.4	840.2	1,098.9	1,196.3
of which:					
cheques	341.3	376.3	435.7	498.8	517.7
credit transfers	117.8	144.7	218.9	325.9	369.9
direct debits	6.7	69.1	102.8	137.3	168.1
petrol cheques	nap	nap	nap	0.4	0.5
bills of exchange	1.1	8.3	82.8	136.5	140.0
Magnetic tape	308.3	300.7	165.8	9.6	nap
of which:					
cheques	65.3	68.6	51.4	3.3	nap
credit transfers	76.9	81.5	46.8	2.4	nap
direct debits	61.5	20.4	9.6	0.9	nap
petrol cheques	0.3	0.5	0.5	0.04	nap



<i>bills of exchange</i>	104.4	129.6	57.4	3.0	nap
<b>SLBE</b>	<b>18,775.8</b>	<b>20,001.1</b>	<b>32,525.2</b>	<b>31,357.1</b>	<b>34,413.5</b>
Interbank loans market	5,573.0	5,857.2	5,545.3	4,109.5	3,762.2
Book-entry debt market	12,128.3	12,630.3	21,527.9	18,815.2	18,671.0
Cross-border bank transfers (sent)	nap	nap	nap	3,851.0	4,277.1
Cross-border bank transfers (received) <sup>6)</sup>	nap	nap	nap	3,869.1	4,277.2
Domestic interbank transfers	1,074.5	1,513.6	2,037.8	2,400.7	5,164.6
Other	nav	nav	3,414.2	2,180.7	2,538.6
<b>Concentration ratio <sup>7)</sup></b>					
SPI	nav	65.00%	62.06%	59.54%	63.50%
SNCE	55.46%	55.71%	54.94%	58.36%	58.76%
SLBE	nav	nav	nav	nav	39.06%

1) The table contains both customer and interbank transactions.

2) This private company was formerly the Madrid Clearing House.

3) Since January 1997, retail payments have been processed through the SNCE system.

4) Large-value transfers to/from non-residents.

5) Since 1999, all payments have been processed via computer link.

6) Not included in the total of SLBE.

7) Market share of the five largest participants in each payment system, based on the total volume of transactions.

**Table 9**  
**Indicators of the use of various cashless payment instruments:**  
**volume of transactions <sup>1), 2), 3)</sup>**  
(millions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques	204.9	216.8	220.5	209.4	197.4
<i>of which:</i>					
<i>face-to-face</i>	204.9	216.8	220.5	209.4	197.4
<i>telebanking, via PC or other terminal</i>	nap	nap	nap	nap	nap
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Payments by debit card <sup>4)</sup>	155.5	183.1	212.3	256.9	286.6
<i>of which:</i>					
<i>face-to-face</i>	nap	nap	nap	nap	nap
<i>telebanking, via PC or other terminal</i>	155.5	183.1	212.3	256.9	286.6
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Payments by credit card <sup>4), 5)</sup>	138.1	164.7	189.4	219.0	221.8
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	3.7	3.1
<i>telebanking, via PC or other terminal</i>	nav	nav	nav	215.3	218.7
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Credit transfers	228.4	236.4	251.4	283.8	338.1
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	51.7	57.5
<i>telebanking, via PC or other terminal</i>	nav	nav	nav	232.1	280.6
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Direct debits	671.0	753.2	837.1	991.0	1,175.9
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	20.8	75.7
<i>telebanking, via PC or other terminal</i>	nav	nav	nav	970.2	1,100.2
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Bills of exchange	121.3	106.3	103.6	123.8	106.5
<i>of which:</i>					
<i>face-to-face</i>	121.3	106.3	103.6	123.8	106.5
<i>telebanking, via PC or other terminal</i>	nap	nap	nap	nap	nap
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Traveller's cheques and					

other documents	nav	31.6	27.1	20.9	23.3
<i>of which:</i>					
<i>face-to-face</i>	nav	31.6	27.1	20.9	23.3
<i>telebanking, via PC or other terminal</i>	nap	nap	nap	nap	nap
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Card-based electronic money	0.1	1.9	2.2	2.0	1.8
Network-based electronic money	nap	nap	nap	neg	neg
<b>Total</b>		<b>1,519</b>	<b>1,694</b>	<b>1,844</b>	<b>2,107</b>

1) This table contains all customer transactions irrespective of whether they are processed intra- or interbank.

2) The table excludes items initiated by banks; these data are not available.

3) Data in this table are estimations based on a survey carried out in a small sample of institutions.

4) Transactions submitted electronically via EFTPOS are included in "telebanking, via PC or other terminal".

5) Data on credit and delayed debit cards.

**Table 10**

**Indicators of the use of various cashless payment instruments:**

**value of transactions** <sup>1), 2), 3)</sup>

(EUR billions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques	590.5	688.0	726.1	723.2	749.5
<i>of which:</i>					
<i>face-to-face</i>	590.5	688.0	726.1	723.2	749.5
<i>telebanking, via PC or other terminal</i>	nap	nap	nap	nap	nap
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Payments by debit card <sup>4)</sup>	6.0	7.0	8.2	10.0	11.3
<i>of which:</i>					
<i>face-to-face</i>	nap	nap	nap	nap	nap
<i>telebanking, via PC or other terminal</i>	6.0	7.0	8.2	10.0	11.3
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Payments by credit card <sup>4), 5)</sup>	8.1	9.5	11.1	12.9	13.6
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	0.6	0.9
<i>telebanking, via PC or other terminal</i>	nav	nav	nav	12.3	12.6
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Credit transfers	1,145.2	1,089.7	797.0	883.0	965.1
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	135.3	188.4
<i>telebanking, via PC or other terminal</i>	nav	nav	nav	747.7	776.7
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Direct debits	134.3	165.7	183.4	241.6	368.4
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	22.5	35.4
<i>telebanking, via PC or other terminal</i>	nav	nav	nav	219.1	333.0
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Bills of exchange	199.9	167.5	191.5	252.3	253.8
<i>of which:</i>					
<i>face-to-face</i>	199.9	167.5	191.5	252.3	253.8
<i>telebanking, via PC or other terminal</i>	nap	nap	nap	nap	nap
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Traveller's cheques and other documents	nav	0.6	0.7	0.5	0.5
<i>of which:</i>					
<i>face-to-face</i>	nav	0.6	0.7	0.5	0.5
<i>telebanking, via PC or other terminal</i>	nap	nap	nap	nap	nap
<i>via mobile phone</i>	nap	nap	nap	nap	nap

Card-based electronic money	neg	0.006	0.006	0.006	0.005
Network-based electronic money	nap	nap	nap	neg	neg
<b>Total</b>	<b>2,084</b>	<b>2,128</b>	<b>1,918</b>	<b>2,124</b>	<b>2,362</b>

- 1) This table contains all customer transactions irrespective of whether they are processed intra- or interbank.
- 2) The table excludes items initiated by banks; these data are not available.
- 3) Data in this table are estimations based on a survey carried out in a small sample of institutions.
- 4) Transactions submitted electronically via EFTPOS are included in "telebanking, via PC or other terminal".
- 5) Data on credit and delayed debit cards.

**Table 11a**
**Instructions handled by trading platforms, clearing houses and securities settlement systems:  
volume of transactions**

(millions)

	1996	1997	1998	1999	2000
<b>Trading platforms</b>					
<b>Stock exchange</b>	<b>3.22</b>	<b>6.56</b>	<b>11.52</b>	<b>11.00</b>	<b>16.72</b>
Shares (SIBE)	3.22	6.56	11.52	11.00	16.72
Bonds	nav	nav	nav	nav	nav
<b>SENAF</b>	<b>0.08</b>	<b>0.06</b>	<b>0.06</b>	<b>0.04</b>	<b>0.04</b>
Government bonds	0.08	0.06	0.06	0.04	0.04
<b>Clearing houses</b>	<b>nap</b>	<b>nap</b>	<b>nap</b>	<b>nap</b>	<b>nap</b>
<b>Securities settlement systems</b>					
<b>CADE</b>	<b>2.39</b>	<b>2.55</b>	<b>2.76</b>	<b>2.26</b>	<b>2.47</b>
Government securities	2.31	2.49	2.71	2.24	2.46
<i>of which futures and options</i>	<i>0.08</i>	<i>0.06</i>	<i>0.05</i>	<i>0.05</i>	<i>0.02</i>
CDs issued by the Banco de España	0.08	0.06	0.05	0.02	0.01
<b>SCLV</b>	<b>5.24</b>	<b>6.53</b>	<b>19.26</b>	<b>16.11</b>	<b>75.07</b>
Bonds	0.18	0.21	0.74	0.10	53.31
Shares	5.06	6.32	18.52	16.01	21.86
<i>of which futures and options</i>	<i>0.13</i>	<i>0.14</i>	<i>0.66</i>	<i>1.06</i>	<i>2.34</i>
<b>SCLV AIAF</b>	<b>0.01</b>	<b>0.02</b>	<b>0.03</b>	<b>0.02</b>	<b>0.14</b>
Bonds	0.01	0.02	0.02	0.02	0.11
Commercial paper	neg	neg	neg	neg	0.04

**Table 11b**
**Instructions handled by trading platforms, clearing houses and securities settlement systems:  
market value of transactions**

(EUR billions)

	1996	1997	1998	1999	2000
<b>Trading platforms</b>					
<b>Stock exchange</b>	<b>134.2</b>	<b>185.2</b>	<b>269.7</b>	<b>287.7</b>	<b>489.6</b>
Shares (SIBE)	75.9	160.9	267.8	286.0	488.9
Bonds	58.3	24.2	1.8	1.7	0.7
<b>SENAF</b>	<b>292.7</b>	<b>234.6</b>	<b>216.4</b>	<b>193.2</b>	<b>220.0</b>
Government bonds	292.7	234.6	216.4	193.2	220.0
<b>Clearing houses</b>	<b>nap</b>	<b>nap</b>	<b>nap</b>	<b>nap</b>	<b>nap</b>
<b>Securities settlement systems</b>					
<b>CADE <sup>1)</sup></b>	<b>17,920.6</b>	<b>19,081.1</b>	<b>31,555.0</b>	<b>27,368.9</b>	<b>30,454.7</b>
Government securities	16,543.6	17,652.9	30,736.3	26,990.1	30,351.4
<i>of which futures and options</i>	<i>4.7</i>	<i>3.8</i>	<i>3.1</i>	<i>4.9</i>	<i>1.9</i>
CDs issued by the Banco de España	1,377.0	1,428.2	818.8	378.8	103.3
<b>SCLV</b>	<b>160.7</b>	<b>165.7</b>	<b>262.3</b>	<b>540.8</b>	<b>1,042.4</b>
Bonds	11.7	12.8	1.6	4.8	2.7
Shares	148.9	152.9	260.7	536.1	1,039.7
<i>of which futures and options</i>	<i>0.2</i>	<i>0.3</i>	<i>0.9</i>	<i>1.7</i>	<i>4.9</i>

<b>SCLV AIAF</b>	<b>25.9</b>	<b>21.2</b>	<b>49.5</b>	<b>34.0</b>	<b>141.1</b>
Bonds	21.2	17.8	38.6	28.0	94.6
Commercial paper	4.7	3.4	10.9	6.0	46.5

1) Data for 1999 have been revised to disregard the settlements which are not market operations.

**Table 11c**  
**Number of participants in trading platforms, clearing houses and securities settlement systems**

	1996	1997	1998	1999	2000
<b>Trading systems</b>					
<b>Stock Exchange</b>					
<b>(includes the four exchanges)</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>	<b>59</b>	<b>49</b>
Banks	nav	nav	nav	0	0
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	0	0
<i>foreign</i>	nav	nav	nav	0	0
Brokers/dealers	nav	nav	nav	59	49
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	59	49
<i>foreign</i>	nav	nav	nav	0	0
<b>SENAF</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>	<b>31</b>	<b>39</b>
Banks	nav	nav	nav	21	33
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	18	21
<i>foreign</i>	nav	nav	nav	3	12
Brokers/dealers	nav	nav	nav	10	6
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	1	5
<i>foreign</i>	nav	nav	nav	9	1
Others	nav	nav	nav	0	0
<b>Clearing systems</b>	nap	nap	nap	nap	nap
<b>Securities settlement systems</b>					
<b>CADE</b>	<b>280</b>	<b>276</b>	<b>269</b>	<b>253</b>	<b>252</b>
Banks	220	214	208	188	175
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	156	168
<i>foreign</i>	nav	nav	nav	32	7
Brokers/dealers	32	34	33	33	36
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	23	30
<i>foreign</i>	nav	nav	nav	10	6
Other:	28	28	28	32	41
Securities settlement systems	nav	nav	nav	2	4
Central banks of the ESCB	nav	nav	nav	16	16
Other financial institutions	nav	nav	nav	14	21
<b>SCLV</b>	<b>101</b>	<b>103</b>	<b>105</b>	<b>107</b>	<b>109</b>
Banks	50	49	49	46	44
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	40	32
<i>foreign</i>	nav	nav	nav	6	12
Brokers/dealers	51	54	56	60	60
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	60	59
<i>foreign</i>	nav	nav	nav	0	1
Other:	0	0	0	1	5
Securities settlement systems	0	0	0	1	5
<b>SCLV AIAF</b>	<b>106</b>	<b>98</b>	<b>92</b>	<b>87</b>	<b>82</b>
Banks	83	81	69	64	59
<i>of which:</i>					

<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	58	45
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	6	14
Brokers/dealers	23	17	23	23	23
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	23	23
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	0	0

**Table 11d****Outstanding securities**

(end of year, EUR billions)

	1996	1997	1998	1999	2000
<b>Trading platforms</b>					
<b>Stock exchange</b>	<b>209.8</b>	<b>286.3</b>	<b>359.5</b>	<b>440.6</b>	<b>550.9</b>
Shares (capitalisation, market value)	189.8	266.0	342.8	425.6	537.0
Bonds (capitalisation, market value)	20.0	20.2	16.8	15.1	13.8
SENAF <sup>1)</sup>	nap	nap	nap	nap	nap
<b>Securities settlement systems</b>					
(nominal values)					
<b>CADE</b>	<b>233.1</b>	<b>246.9</b>	<b>251.7</b>	<b>279.7</b>	<b>291.4</b>
Value of public debt securities	221.5	237.8	245.4	276.4	291.4
Value of CDs issued by the Banco de España	11.7	9.1	6.3	3.3	0.0
<b>SCLV</b>	<b>44.8</b>	<b>46.7</b>	<b>50.1</b>	<b>108.0</b>	<b>461.9</b>
Value of shares	17.5	17.8	15.5	42.4	449.7
Value of bonds	27.3	28.9	34.7	65.6	12.2
<b>SCLV AIAF</b>	<b>21.1</b>	<b>26.9</b>	<b>29.9</b>	<b>17.4</b>	<b>146.3</b>
Value of bonds	18.7	23.9	23.3	14.4	129.1
Value of short-term instruments	2.3	3.0	6.6	3.1	17.2

1) There are no data as it is a decentralised market.

**Table 11e****Netting ratio in clearing systems <sup>1)</sup>**

	1996	1997	1998	1999	2000
<b>Name of system</b>					
Netting ratio for cash over year	nap	nap	nap	nap	nap
Netting ratio for securities over year	nap	nap	nap	nap	nap

1) Spanish clearing houses only have central counterparty services for derivatives.

**Table 12****Participation in SWIFT by domestic institutions**

	1996	1997	1998	1999	2000
Members	55	53	53	41	42
<i>of which live</i>	54	53	52	41	41
Sub-members	60	60	59	60	55
<i>of which live</i>	58	60	58	60	54
Participants	2	2	5	15	11
<i>of which live</i>	2	2	5	13	11
Total users	117	115	117	116	108
<b>Memorandum items:</b>					
Total SWIFT users	5,918	6,372	6,771	6,991	7,293
<i>of which:</i>					
<i>members</i>	3,014	3,070	3,052	2,230	2,307
<i>sub-members</i>	2,500	2,621	2,781	2,825	3,037
<i>participants</i>	404	681	938	1,936	1,949

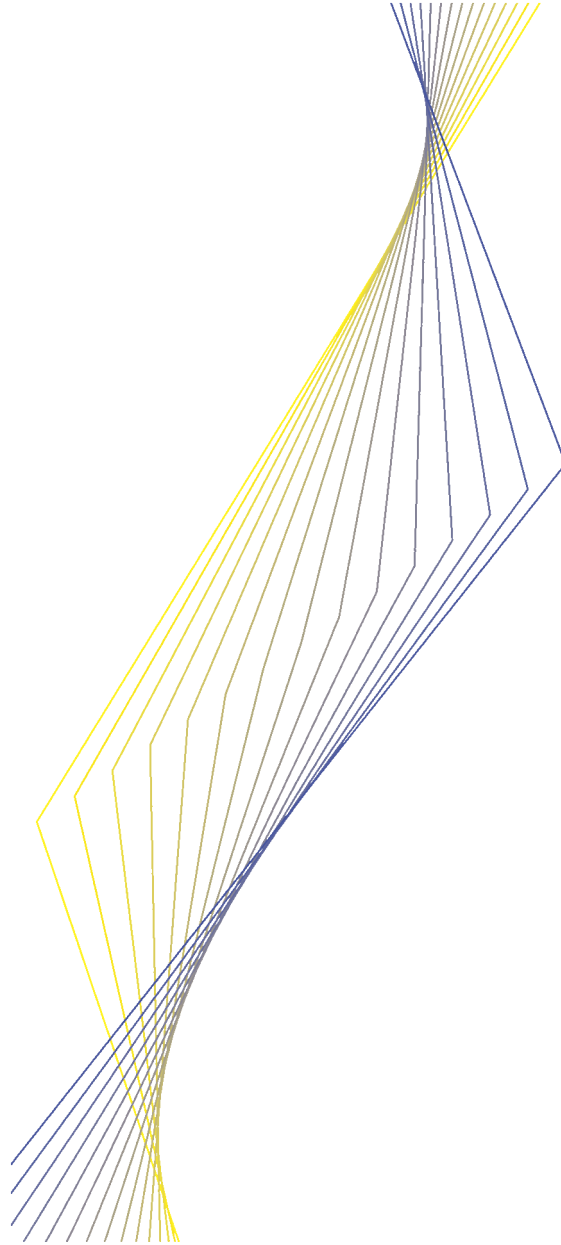
**Table 13****SWIFT message flows to/from domestic users**

	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>
Total messages sent	15,716,791	17,723,342	20,494,319	20,917,032	25,439,320
<i>of which:</i>					
<i>category I</i>	3,488,406	3,961,209	4,934,156	5,805,158	6,457,855
<i>category II</i>	4,724,488	5,127,961	5,299,941	3,584,165	3,464,624
Total messages received	15,041,769	17,485,986	19,309,880	17,444,352	20,208,487
<i>of which:</i>					
<i>category I</i>	3,710,237	4,235,230	4,891,081	5,617,343	6,475,209
<i>category II</i>	4,979,247	5,271,626	5,363,135	2,678,113	2,408,391
Domestic traffic	3,842,649	4,195,726	4,149,673	2,520,076	2,664,042
<i>Memorandum item:</i>					
Global SWIFT traffic	687,785,294	812,117,556	941,235,088	1,058,836,425	1,273,912,754





EUROPEAN CENTRAL BANK



**France**





**Table 1****Basic statistical data**

	1996	1997	1998	1999	2000
Population (thousands)	59,888	60,151	60,405	60,656	60,431
GDP (ECU/EUR billions) <sup>1)</sup>	1,225	1,241	1,298	1,350	1,405
GDP per capita (ECU/EUR) <sup>1)</sup>	20,448	20,634	21,481	22,259	23,246
Exchange rate (domestic currency vis-à-vis ECU/EUR):					
<i>end of year</i> <sup>1)</sup>	6.56193	6.61214	6.55957	6.55957	6.55957
<i>average</i> <sup>2)</sup>	6.49300	6.61260	6.60140	6.55957	6.55957

1) Prior to 1999, converted using the FRF/ECU exchange rate. In the following tables, the irrevocable conversion rate to the euro has been used for data prior to 1999.

2) Average for the year.

**Table 2****Settlement media used by non-banks**

(end of year, EUR billions)

	1996	1997	1998	1999	2000
Banknotes and coins <sup>1)</sup>	40.8	40.7	41.4	44.7	44.6
Transferable deposits <sup>1), 2)</sup>	248.0	268.4	279.8	307.7	330.8
Other	neg	neg	neg	neg	neg
Narrow money supply (M1) <sup>1), 3)</sup>	290.8	310.8	322.7	353.6	378.1
<i>Memorandum items:</i>					
Broad money supply <sup>1)</sup>	817.9	854.2	875.1	944.6	1,016.7
Transferable deposits in foreign currencies	2.0	1.6	1.5	1.2	2.7
Outstanding value on e-money schemes	nap	nap	nap	neg	neg
<i>of which:</i>					
<i>on card-based products</i>	nap	nap	nap	neg	neg
<i>on network-based products</i>	nap	nap	nap	neg	neg

1) Breaks in series.

2) Excluding deposits in French overseas territories.

3) Narrow money supply (M1): banknotes and coins, French franc-denominated sight deposits held by non-banks (French overseas territories excluded).

**Table 3****Settlement media used by banks**

(end of year, EUR billions)

	1996	1997	1998	1999	2000
Transferable balances held at central bank	3.3	3.5	16.6	24.0	27.9
<i>of which:</i>					
<i>required reserves</i> <sup>1), 2)</sup>	3.1	3.2	13.5	18.5	20.5
<i>free reserves</i> <sup>1)</sup>	0.2	0.4	-0.6	0.1	0.2
Transferable balances held at other banks <sup>3)</sup>	549.7	566.3	592.4	621.9	661.9
<i>Memorandum item:</i>					
Institutions' borrowing from central bank	nav	19.2	18.2	14.0	23.1

1) Change in the reserves policy from 16 October 1998.

2) Daily average for the last period of the year.

3) Time deposits with an initial maturity of up to two years and deposits redeemable at notice with an initial maturity of up to three months.

**Table 4****Banknotes and coins**

(end of year, total value, EUR billions and FRF billions)

	1996		1997		1998		1999		2000	
	EUR	FRF	EUR	FRF	EUR	FRF	EUR	FRF	EUR	FRF
Total banknotes issued	41.2	270.4	41.3	273.0	42.3	277.2	46.3	303.5	46.1	302.2
<i>of which:</i>										
FRF 500	19.7	129.2	20.2	133.4	21.8	143.2	23.5	154.5	21.9	143.5
FRF 200	13.1	85.8	12.9	85.2	12.8	84.1	14.6	96.1	15.9	104.4
FRF 100	7.4	48.3	7.1	47.1	6.5	42.7	6.9	45.3	7.1	46.4
FRF 50	0.9	6.1	0.9	6.3	1.0	6.3	1.0	6.6	1.0	6.9
FRF 20	0.2	1.0	0.2	1.1	0.2	1.0	0.2	1.0	0.2	1.1
Total coins issued	2.4	15.6	2.4	16.1	2.5	16.6	2.6	17.2	2.7	17.8
<i>of which:</i>										
FRF 20	0.1	1.0	0.1	1.0	0.1	0.9	0.1	0.8	0.1	0.9
FRF 10	1.2	7.8	1.2	8.2	1.3	8.5	1.4	8.9	1.4	9.2
FRF 5	0.3	2.1	0.3	2.1	0.3	2.2	0.3	2.3	0.4	2.3
FRF 2	0.2	1.0	0.2	1.0	0.2	1.1	0.2	1.2	0.2	1.2
FRF 1	0.3	1.8	0.3	1.8	0.3	1.8	0.3	1.9	0.3	1.9
FRF 0,5	0.1	0.7	0.1	0.7	0.1	0.8	0.1	0.8	0.1	0.8
FRF 0,2	0.1	0.6	0.1	0.6	0.1	0.7	0.1	0.7	0.1	0.7
FRF 0,1	0.1	0.4	0.1	0.4	0.1	0.5	0.1	0.5	0.1	0.5
FRF 0,05	neg	0.2	neg	0.2	neg	0.2	neg	0.2	neg	0.2
Total banknotes and coins issued	43.6	286.0	43.7	289.2	44.8	293.9	48.9	320.7	48.8	320.0
Banknotes and coins held by credit institutions	2.8	18.4	3	19.8	3.4	22.3	4.2	27.6	4.2	27.6
Banknotes and coins in circulation outside credit institutions	40.8	267.6	40.7	269.3	41.4	271.6	44.7	293.1	44.6	292.5
Memorandum item:										
Banknotes held in French overseas territories	2.0	13.1	1.7	11.2	1.5	9.8	1.7	11.2	1.8	11.8

**Table 5****Institutional framework**

(end of 2000)

Categories	Number of institutions	Number of branches	Number of accounts (thousands)	Number of internet-linked accounts <sup>1)</sup>	Value of accounts (EUR billions)
Central bank	1	211	73	nav	0.8
Commercial banks	365	10,139	20,187	nav	135.3
Savings banks	34	4,287	10,146	nav	25.0
Mutual or co-operative banks	119	11,148	25,992	nav	98.1
Municipal credit banks	22	83	72	nav	nav
Financial companies	556	nav	nav	nav	nav
Specialized financial institutions	19	nav	nav	nav	3.8
Investment firms	566	nav	nav	nav	nav
Post Office	1	16,536	10,261	nav	29.5
Treasury	1	3,957	604	nav	38.3
Total	1,684	46,361	67,335	nav	330.8
<i>of which:</i>					
<i>virtual institutions</i>	nav	nav	nav	nav	nav
Branches of foreign banks	95	nav	nav	nav	nav
<i>of which:</i>					
<i>EU-based</i>	63	nav	nav	nav	nav

1) Number of accounts relating to Internet services (credit transfers, payment of bills, etc. carried via the Internet).

**Table 6****Payment card functions and accepting devices**

(end of year)

	1996	1997	1998	1999	2000
<b>Cash function</b>					
Cards with a cash function (thousands)	27,219	30,156	33,861	37,563	40,945
Number of networks	nav	nav	nav	nav	nav
Number of ATMs with a cash dispensing function	24,531	27,077	29,407	32,445	35,162
<i>of which:</i>					
<i>open access<sup>1)</sup></i>	14,473	18,368	28,922	32,195	34,990
<i>limited access<sup>1)</sup></i>	10,058	8,709	485	250	172
Volume of transactions (millions) <sup>1)2)</sup>	766	835	930	1,026	1,082
<i>of which:</i>					
<i>at ATMs with open access</i>	nav	nav	nav	nav	nav
<i>at ATMs with limited access</i>	nav	nav	nav	nav	nav
Value of transactions (EUR billions) <sup>1)</sup>	46	49	53	63	66
<i>of which:</i>					
<i>at ATMs with open access</i>	nav	nav	nav	nav	nav
<i>at ATMs with limited access</i>	nav	nav	nav	nav	nav
Number of ATMs with a giro transfer function	nav	nav	nav	nav	nav
<i>volume of transactions (millions)</i>	nav	nav	nav	nav	nav
<i>value of transactions (EUR billions)</i>	nav	nav	nav	nav	nav
<b>Debit function<sup>2)</sup></b>					
Cards with a debit function (thousands)	25,510	27,703	30,268	33,499	36,908
<i>of which:</i>					
<i>retailer cards (thousands)</i>	nav	nav	nav	nav	nav
Number of networks	nav	nav	nav	nav	nav
Number of terminals	662,950	680,413	723,388	799,530	839,030
Volume of transactions (millions)	2,103	2,334	2,621	2,912	3,292
<i>of which:</i>					
<i>transactions with retailer cards (millions)</i>	nav	nav	nav	nav	nav
Value of transactions (EUR billions)	101	108	108	135	153

of which:

transactions with retailer cards (EUR billions) nav nav nav nav nav

#### Credit function

Cards with a credit function (thousands) nav nav nav nav nav

of which:

retailer cards (thousands) nav nav nav nav nav

Number of networks nav nav nav nav nav

Number of terminals 662,950 680,413 723,388 799,530 839,030

Volume of transactions (millions) nav nav nav nav nav

of which:

transactions with retailer cards (millions) nav nav nav nav nav

Value of transactions (EUR billions) nav nav nav nav nav

of which:

transactions with retailer cards (EUR billions) nav nav nav nav nav

#### Electronic money function

Cards with an e-money function (thousands) nav nav nav neg nav

Number of accepting terminals nav nav nav nav nav

Number of networks nav nav nav nav nav

Number of purchase transactions (millions) nav nav nav neg neg

Value of purchase transactions (EUR billions) nav nav nav neg neg

Number of loading transactions (millions) nav nav nav neg neg

Number of loading terminals nav nav nav nav nav

Value of money loaded (EUR billions) nav nav nav neg neg

Float (EUR billions) nav nav nav neg neg

#### Delayed debit cards (charge cards)

Cards with a delayed debit function (thousands) nav nav nav nav nav

Number of terminals 662,950 680,413 723,388 799,530 839,030

Volume of transactions (millions) nav nav nav nav nav

Value of transactions (EUR billions) nav nav nav nav nav

Memorandum item:

Total number of cards in circulation (thousands) 27,219 30,156 33,861 37,563 40,945

of which:

cards with a combined debit, cash and e-money function (thousands) nav nav nav nav nav

cards with a cheque guarantee function (thousands) nav nav nav nav nav

cards with a cheque guarantee function (thousands) nav nav nav nav nav

1) Breaks in series.

2) These data refer to both debit and credit functions. Those data refer to the activity within the Groupement des Cartes Bancaires network.

**Table 7**

#### Payment instructions handled by selected interbank funds transfer systems: <sup>1)</sup>

##### volume of transactions

(millions)

	1996	1997	1998	1999	2000
Clearing houses	3,633.8	3,623.0	3,600.4	3,346.5	3,453.9
of which:					
Cheques Paris	709.8	689.6	683.9	683.7	682.2
Cheques Province	2,920.5	2,931.1	2,915.3	2,662.8	2,771.7
Credit transfers	0.3	0.1	1.1	nav	nav
Avals de trésorerie	0.2	0.1	neg	nav	nav
Large-value credit transfers	3.0	2.1	0.1	nav	nav
CREIC <sup>2)</sup>	293.0	285.2	298.0	304.5	307.7
SIT <sup>3)</sup>	3,939.9	4,919.6	5,410.5	5,913.8	6,485.3

<i>of which:</i>					
<i>Credit transfers</i>	1,166.4	1,242.4	1,322.6	1,383.2	1,473.5
<i>LCR and paperless bills of exchange</i>	129.3	124.8	125.2	121.2	116.5
<i>Direct debits</i>	927.6	987.2	1,098.9	1,219.2	1,327.9
<i>Titres Interbancaires de Paiement</i>	114.4	122.3	129.4	131.6	134.0
<i>Telepayments</i>	0.2	0.2	0.3	0.4	0.6
<i>Card payments</i>	1,130.1	1,922.2	2,164.7	2,443.5	2,781.6
<i>ATM withdrawals</i>	472.0	520.3	569.4	614.6	651.2
Cartes Bancaires <sup>4)</sup>	775.0	nap	nap	nap	nap
<i>of which:</i>					
<i>ATM withdrawals</i>	10.5	nap	nap	nap	nap
<i>Card payments</i>	764.5	nap	nap	nap	nap
Banque de France <sup>5)</sup>	15.0	1.6	0.4	nap	nap
<i>of which:</i>					
<i>Public Treasury transfers</i>	13.8	0.5	0.0	nap	nap
<i>Large-value credit transfers</i>	0.7	0.6	0.1	nap	nap
<i>Telegraphic credit transfers</i>	0.5	0.5	0.3	nap	nap
SAGITTAIRE <sup>5)</sup>	4.7	4.7	1.3	nap	nap
TBF (domestic and cross-border)	nap	0.1	0.6	2.3	3.0
PNS	nap	0.5	5.5	5.2	5.5
<b>Concentration ratio TBF <sup>6)</sup></b>	<b>nap</b>	<b>nav</b>	<b>nav</b>	<b>50.67%</b>	<b>54.70%</b>

1) The table contains both customer and interbank transactions.

2) Centres Régionaux d'Echanges d'Images-Chèques (truncated cheques).

3) Système Interbancaire de Télécompensation - ACH.

4) In the course of 1996, the exchange of card payments and ATM withdrawals was transferred to the SIT.

5) This system closed during the year 1998.

6) Market share of the five largest participants in TBF.

**Table 8**

**Payment instructions handled by selected interbank funds transfer systems: <sup>1)</sup>**

**value of transactions**

(EUR billions)

	1996	1997	1998	1999	2000
Clearing houses	20,248.4	13,663.5	2,126.0	1,929.0	1,889.3
<i>of which:</i>					
<i>Cheques Paris</i>	733.85	699.78	751.77	830.51	726.00
<i>Cheques Province</i>	1,075.62	1,061.07	1,110.47	1,070.58	1,163.29
<i>Credit transfers</i>	19.10	1.60	29.86	27.9	nap
<i>Avals de trésorerie</i>	8,461.73	4,895.35	27.42	nap	nap
<i>Large-value credit transfers</i>	9,958.11	7,005.72	206.47	nap	nap
CREIC <sup>2)</sup>	24.8	23.7	25.0	28.1	25.9
SIT <sup>3)</sup>	1,900.5	2,090.1	2,219.7	2,348.1	2,458.4
<i>of which:</i>					
<i>Credit transfers</i>	1,131.2	1,288.4	1,369.3	1,459.2	1,521.1
<i>LCR and paperless bills of exchange</i>	454.0	433.8	446.9	444.2	446.3
<i>Direct debits</i>	209.2	219.3	238.0	260.8	285.7
<i>Titres Interbancaires de Paiement</i>	27.6	32.2	36.0	38.0	38.9
<i>Telepayments</i>	0.1	0.7	1.3	3.7	6.3
<i>Card payments</i>	92.4	89.1	99.5	111.4	127.5
<i>ATM withdrawals</i>	26.2	26.5	28.7	30.8	32.7
Cartes Bancaires <sup>4)</sup>	40.2	nap	nap	nap	nap
<i>of which:</i>					
<i>ATM withdrawals</i>	1.1	nap	nap	nap	nap
<i>Card payments</i>	39.2	nap	nap	nap	nap
Banque de France <sup>5)</sup>	5,363.0	4,208.4	498.8	nap	nap
<i>of which:</i>					
<i>Public Treasury transfers</i>	74.0	32.2	0.0	nap	nap
<i>Large-value credit transfers</i>	3,778.2	2,963.6	223.4	nap	nap

Telegraphic credit transfers	1,510.9	1,212.5	275.4	nap	nap
SAGITTAIRE <sup>5)</sup>	17,539.8	18,204.2	4,478.7	nap	nap
TBF (domestic and cross-border)	nap	4,342.2	41,555.0	65,540.3	68,156.6
PNS	nap	7,199.6	35,932.8	24,041.0	21,844.9
<b>Concentration ratio TBF <sup>6)</sup></b>	<b>nap</b>	<b>nav</b>	<b>nav</b>	<b>51.52%</b>	<b>48.41%</b>

1) The table contains both customer and interbank transactions.

2) Centres Régionaux d'Echanges d'Images-Chèques (truncated cheques).

3) Système Interbancaire de Télécompensation - ACH.

4) In the course of 1996, the exchange of card payments and ATM withdrawals was transferred to the SIT.

5) This system closed during the year 1998.

6) Market share of the five largest participants in TBF.

**Table 9**

**Indicators of the use of various cashless payment instruments: <sup>1)</sup>**

**volume of transactions**

(millions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques	4,952	4,903	4,825	4,480	4,494
of which:					
face-to-face <sup>2)</sup>	4,952	4,903	4,825	4,480	4,494
via PC or other terminal	nap	nap	nap	nap	nap
televanking	nap	nap	nap	nap	nap
via mobile phone	nap	nap	nap	nap	nap
Payments by debit card <sup>3), 4)</sup>	2,103	2,334	2,621	2,912	3,292
of which:					
face-to-face	nav	nav	nav	nav	nav
via PC or other terminal	nav	nav	nav	nav	nav
televanking	nav	nav	nav	nav	nav
via mobile phone	nav	nav	nav	nav	nav
Payments by credit card	nav	nav	nav	nav	nav
of which:					
face-to-face	nav	nav	nav	nav	nav
via PC or other terminal	nav	nav	nav	nav	nav
televanking	nav	nav	nav	nav	nav
via mobile phone	nav	nav	nav	nav	nav
Credit transfers <sup>2)</sup>	1,785	1,860	1,952	2,051	2,094
of which:					
face-to-face	1,785	1,860	1,951	2,050	2,093
via PC or other terminal	0.2	0.2	0.3	0.4	0.6
televanking	nav	nav	nav	nav	nav
via mobile phone	nav	nav	nav	nav	nav
Direct debits	1,344	1,430	1,578	1,731	1,969
of which:					
face-to-face	nav	nav	nav	nav	nav
via PC or other terminal	nav	nav	nav	nav	nav
televanking	nav	nav	nav	nav	nav
via mobile phone	nav	nav	nav	nav	nav
Card-based electronic money	nap	nap	nap	nav	nav
Network-based electronic money	nap	nap	nap	nav	nav
<b>Total</b>	<b>10,183.6</b>	<b>10,527.5</b>	<b>10,975.6</b>	<b>11,172.5</b>	<b>11,848.3</b>

1) This table contains all customer transactions irrespective of whether they are processed intra- or interbank and includes items initiated by banks.

2) Breaks in series.

3) Includes delayed and credit cards.

4) Correction of 1999 figures.

**Table 10****Indicators of the use of various cashless payment instruments: <sup>1)</sup>****value of transactions**

(EUR billions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques	2,251	2,237	2,318	2,356	2,278
<i>of which:</i>					
<i>face-to-face</i> <sup>2)</sup>	2,251	2,237	2,318	2,356	2,278
<i>via PC or other terminal</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>telebanking</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>via mobile phone</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Payments by debit card <sup>3), 4)</sup>	101	108	108	135	153
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>telebanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Payments by credit card	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>telebanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Credit transfers <sup>2)</sup>	53,161	54,758	84,900	78,091	76,871
<i>of which:</i>					
<i>face-to-face</i>	53,161	54,757	84,898	78,087	76,864
<i>via PC or other terminal</i>	0.1	0.7	1.3	3.7	6.3
<i>telebanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Direct debits	434	479	525	575	603
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>telebanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Card-based electronic money	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nav</i>	<i>nav</i>
Network-based electronic money	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nav</i>	<i>nav</i>
<b>Total</b>	<b>55,946.5</b>	<b>57,582.1</b>	<b>87,850.7</b>	<b>81,156.2</b>	<b>79,905.2</b>

1) This table contains all customer transactions irrespective of whether they are processed intra- or interbank and includes items initiated by banks.

2) Breaks in series.

3) Includes delayed and credit cards.

4) Correction of 1999 figures.

**Table 11a****Instructions handled by trading platform, clearing houses and securities settlement system:****volume of transactions**

(millions)

	1996	1997	1998	1999	2000
<b>Trading platform</b>					
Euronext Paris	26	37	45	59	98
<b>Clearing house</b>					
Clearent SA	26	37	45	55	89
<b>Securities settlement system</b>					
Euroclear France	15	18	22	28	41



**Table 11b**

**Instructions handled by trading platform, clearing houses and securities settlement system:  
market value of transactions**  
(EUR billions)

	1996	1997	1998	1999	2000
<b>Trading platform</b>					
Euronext Paris	221	370	513	723	1,165
<b>Clearing house</b>					
Clearent SA	221	370	513	1,049	1,205
<b>Securities settlement system</b>					
Euroclear France	19,521	22,843	32,250	38,891	36,835

**Table 11c**

**Number of participants in trading platforms, clearing houses and securities settlement systems**

	1996	1997	1998	1999	2000
<b>Trading systems</b>					
Euronext Paris	nav	nav	nav	286	203
Banks	nav	217.0	217.0	93	nav
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	51	nav
<i>foreign</i>	nav	nav	nav	42	nav
Broker/dealer	nav	25.0	37.0	193	nav
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	99	nav
<i>foreign</i>	nav	nav	nav	94	nav
<b>Clearing systems</b>					
Clearent SA	nav	nav	nav	71	59
Banks	nav	nav	nav	28	nav
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	23	nav
<i>foreign</i>	nav	nav	nav	5	nav
Broker/dealer	nav	nav	nav	43	nav
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	38	nav
<i>foreign</i>	nav	nav	nav	5	nav
<b>Securities settlement systems</b>					
Euroclear (RGV + Relit)	668	638	630	679	659
<i>of which:</i>					
<i>directs participants</i>	381	357	371	341	335

**Table 11d**

**Outstanding securities**  
(end of year)

	1996	1997	1998	1999	2000
<b>Euroclear France</b>					
Value of equities held (EUR billions)	497	638	839	1,421	1,511
Value of other securities held (EUR billions)	1,068	1,467	1,663	1,841	1,995
Number of equities held	1,371	1,340	1,405	1,502	1,557
Number of other securities held	6,273	16,286	18,256	19,829	22,146
<b>Euronext France</b>					
Value of equities listed (EUR billions)	169	620	844	1,499	1,549
Value of other securities listed (EUR billions)	691	713	760	764	779
Number of equities listed	897	924	1,097	1,144	1,185
Number of other securities listed	2,024	1,897	1,659	1,533	1,313

**Table 11e****Netting ratio in clearing systems**

	1996	1997	1998	1999	2000
<b>Clarenet SA</b>					
Netting ratio for cash over year	67.0%	71.0%	74.0%	77.0%	65.0%
Netting ratio for securities over year	99.2%	99.5%	99.6%	99.7%	95.0%

**Table 12****Participation in SWIFT by domestic institutions**

	1996	1997	1998	1999	2000
Members	107	105	102	65	68
<i>of which live</i>	101	102	97	65	67
Sub-members	103	103	100	100	99
<i>of which live</i>	100	103	100	98	97
Participants	10	40	54	89	88
<i>of which live</i>	7	32	50	86	84
Total users	220	248	256	254	255
<i>of which live</i>	211	245	251	252	252
Memorandum items:					
Total SWIFT users	5,918	6,372	6,771	6,991	7,293
<i>members</i>	3,014	3,070	3,052	2,230	2,307
<i>sub-members</i>	2,500	2,621	2,781	2,825	3,037
<i>participants</i>	404	681	938	1,936	1,949

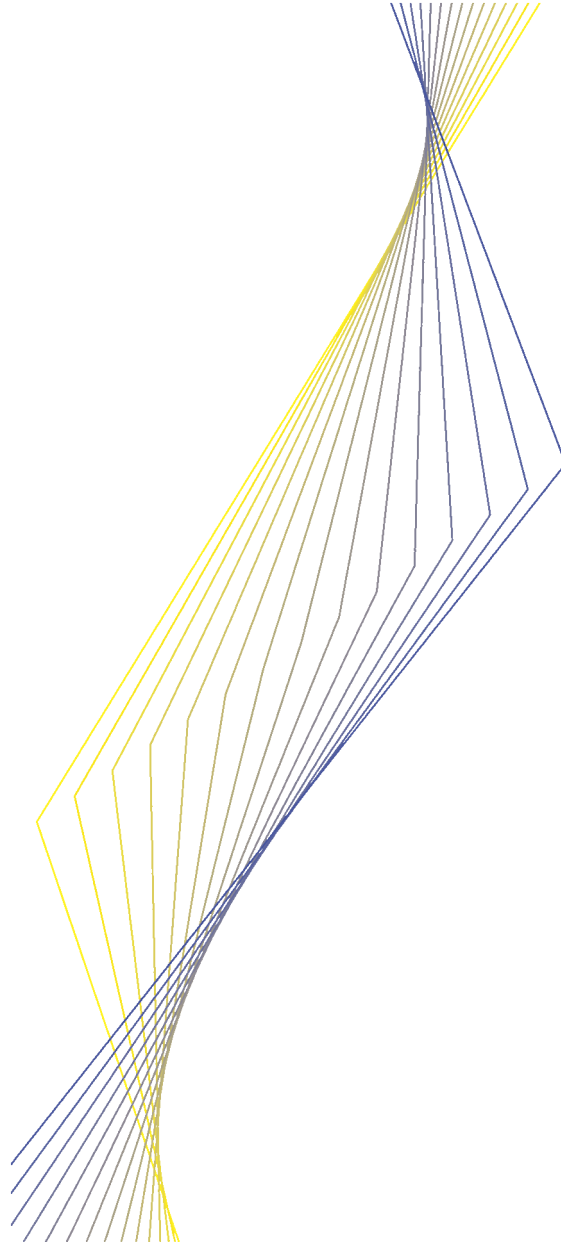
**Table 13****SWIFT message flows to/from domestic users**

	1996	1997	1998	1999	2000
Total messages sent	43,779,359	48,756,990	56,257,693	58,996,665	71,129,963
<i>of which:</i>					
<i>category I</i>	11,084,517	12,137,346	13,701,758	16,617,961	20,521,605
<i>category II</i>	14,291,099	15,400,655	15,345,713	12,392,976	12,832,677
Total messages received	40,737,035	45,940,168	53,393,461	58,640,344	67,257,022
<i>of which:</i>					
<i>category I</i>	11,534,499	12,943,528	14,737,823	18,424,258	22,361,878
<i>category II</i>	14,011,490	14,688,233	14,872,003	12,561,331	12,802,246
Domestic traffic	13,992,286	15,992,898	18,931,262	16,804,963	20,520,170
Memorandum item:					
Global SWIFT traffic	687,785,294	812,117,556	941,235,088	1,058,836,425	1,273,912,754





EUROPEAN CENTRAL BANK



**Ireland**



**Table 1****Basic statistical data**

	1996	1997	1998	1999	2000
Population (thousands)	3,626	3,661	3,705	3,745	3,786
GDP (ECU/EUR billions) <sup>1)</sup>	57.6	70.6	77.2	89.0	103.5
GDP per capita (ECU/EUR) <sup>1)</sup>	15,893	19,286	20,847	23,773	27,330
Exchange rate (domestic currency vis-à-vis ECU/EUR):					
end of year <sup>2)</sup>	0.74534	0.77196	0.78756	0.78756	0.78756
average <sup>2)</sup>	0.79345	0.7475	0.78618	0.78756	0.78756

1) Prior to 1999, converted using the IEP/ECU exchange rate. In the following tables, the irrevocable conversion rate to the euro has been used for data prior to 1999.

2) Irrevocable conversion rates were adopted with the introduction of the euro on 1 January 1999.

**Table 2****Settlement media used by non-banks**

(end of year, EUR billions)

	1996 <sup>1)</sup>	1997	1998	1999	2000
Banknotes and coins	2.55 <sup>2)</sup>	2.87	3.29	4.65	4.50
Transferable deposits <sup>3), 4)</sup>	4.94 <sup>2)</sup>	6.60	8.64	12.71	15.12
Narrow money supply (M1) <sup>3)</sup>	7.49 <sup>2)</sup>	9.47	11.93	17.36	19.62
Memorandum items:					
Broad money supply <sup>3)</sup>	44.00	53.70	63.00	91.05	104.40
Transferable deposits in foreign currencies <sup>4)</sup>	0.50	0.78	0.92	0.96	1.07
Outstanding value on e-money schemes <sup>5)</sup>	nap	nap	neg	neg	nap
of which:					
on card-based products	nap	nap	neg	neg	nap
on network-based products	nap	nap	neg	neg	nap

1) Data for year ended 1996 refer to licensed banks only, and thereafter data refer to all credit institutions, in accordance with the definition of monetary aggregates used at that time.

2) The corresponding figures for all credit institutions are EUR 2.5 billion for banknotes and coins (as shown in Table 4), and EUR 5.13 billion for transferable deposits, giving a "notional" M1 of EUR 7.63 billion.

3) Data up to 1998 refer to Irish residents only. Data from 1999 refer to euro area residents.

4) Data taken from internal sources. Data up to end-1998 refer to non-government deposits. From 1999 data also include "Other general government deposits".

5) Pilot schemes in operation during 1998/99 only.

**Table 3****Settlement media used by banks**

(end of year, EUR billions)

	1996	1997	1998	1999	2000
Transferable balances held at central bank	1.31	1.68	2.87	2.49	2.71
of which:					
required reserves	1.24	1.22	2.79	2.49	2.67
free reserves	0.07	0.47	0.07	neg	0.04
Transferable balances held at other banks	17.78	25.31	28.23	27.58	27.95
Memorandum item:					
Institutions' borrowing from central bank	0.33	2.08	2.23	5.06	8.41

**Table 4**  
**Banknotes and coins**

(end of year, total value, EUR millions and IEP millions)

	1996		1997		1998		1999		2000	
	EUR	IEP	EUR	IEP	EUR	IEP	EUR	IEP	EUR	IEP
Total banknotes issued	2,674	2,106	3,068	2,416	3,576	2,816	4,524	3,563	4,998	3,936
<i>of which:</i>										
IEP 100	34	27	70	55	100	79	127	100	147	116
IEP 50	292	230	386	304	576	454	1,134	893	1,653	1,302
IEP 20	1,935	1,524	2,173	1,711	2,425	1,910	2,734	2,153	2,660	2,095
IEP 10	277	218	292	230	319	251	362	285	367	289
IEP 5	118	93	130	102	137	108	150	118	152	120
IEP 1	18	14	18	14	18	14	18	14	17	13
Total coins issued	229	180	255	201	283	223	324	255	375	295
<i>of which:</i>										
100p	109	86	121	95	132	104	155	122	184	145
50p	34	27	41	32	44	35	51	40	56	44
20p	30	24	36	28	38	30	43	34	48	38
10p	19	15	22	17	24	19	27	21	30	24
5p	15	12	18	14	22	17	24	19	28	22
2p	10	8	11	9	11	9	13	10	14	11
1p	9	7	9	7	10	8	11	9	13	10
Total banknotes and coins issued	2,903	2,286	3,323	2,617	3,859	3,039	4,848	3,818	5,372	4,231
Banknotes and coins held by credit institutions <sup>1)</sup>	405	319	457	360	569	448	879	692	874	688
Banknotes and coins in circulation outside credit institutions	2,499	1,968	2,870	2,260	3,291	2,592	3,970	3,127	4,499	3,543

1) Represents the amount held by Irish residents.

**Table 5****Institutional framework**

(end of 2000)

Categories	Number of institutions	Number of branches	Number of accounts (thousands)	Number of internet-linked accounts (thousands)	Value of accounts (EUR billions)
Central bank	1	1	1	nap	0.05
Credit institutions	82	1,007	6,022	184	13.68
Total	83	1,008	6,023	184	13.73
<i>of which:</i>					
<i>virtual institutions</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Branches of foreign banks	30	nav	nav	nav	nav
<i>of which:</i>					
<i>EU-based</i>	28	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>

**Table 6****Payment card functions and accepting devices**

(end of year)

	1996	1997	1998	1999	2000
<b>Cash function</b>					
Cards with a cash function (thousands)	2,879	2,697	3,130	2,811	3,089
Number of networks	1	1	1	1	1
Number of ATMs with a cash dispensing function	1,051	1,051	1,229	1,225	1,302
<i>of which:</i>					
<i>open access</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	1,097	1,153
<i>limited access</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	128	149
Volume of transactions (millions)	75	87	105	126	131
<i>of which:</i>					
<i>at ATMs with open access</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	122	127
<i>at ATMs with limited access</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	4	4
Value of transactions (EUR billions)	6	6	7	10	12
<i>of which:</i>					
<i>at ATMs with open access</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	9	10
<i>at ATMs with limited access</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	1	2
Number of ATMs with a giro transfer function	nav	nav	nav	nav	nav
<i>volume of transactions (millions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>value of transactions (EUR billions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<b>Debit function</b>					
Cards with a debit function (thousands)	185	431	588	701	798
<i>of which:</i>					
<i>retailer cards (thousands)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Number of networks (schemes)	1	1	1	1	1
Number of terminals	4,400	5,150	14,784	18,540	37,000
Volume of transactions (millions)	1	8	16	25	34
<i>of which:</i>					
<i>transactions with retailer cards (millions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Value of transactions (EUR millions)	38	433	862	1,208	1,700
<i>of which:</i>					
<i>transactions with retailer cards (EUR billions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<b>Credit function</b>					
Cards with a credit function (thousands)	865	1,108	1,130	1,139	1,352
<i>of which:</i>					



<i>retailer cards (thousands)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Number of networks (schemes)	2	2	2	2	2
Number of terminals	<i>nav</i>	<i>nav</i>	<i>nav</i>	23,000	42,000
Volume of transactions (millions)	<i>nav</i>	<i>nav</i>	<i>nav</i>	47	48
<i>of which:</i>					
<i>transactions with retailer cards (millions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Value of transactions (EUR billions)	<i>nav</i>	<i>nav</i>	<i>nav</i>	3	4
<i>of which:</i>					
<i>transactions with retailer cards (EUR billions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<b>Electronic money function <sup>1)</sup></b>					
Cards with an e-money function (thousands)	<i>nap</i>	<i>nap</i>	<i>neg</i>	<i>neg</i>	<i>nap</i>
Number of accepting terminals	<i>nap</i>	<i>nap</i>	<i>neg</i>	<i>neg</i>	<i>nap</i>
Number of networks	<i>nap</i>	<i>nap</i>	<i>neg</i>	<i>neg</i>	<i>nap</i>
Number of purchase transactions (millions)	<i>nap</i>	<i>nap</i>	<i>neg</i>	<i>neg</i>	<i>nap</i>
Value of purchase transactions (EUR billions)	<i>nap</i>	<i>nap</i>	<i>neg</i>	<i>neg</i>	<i>nap</i>
Number of loading transactions (millions)	<i>nap</i>	<i>nap</i>	<i>neg</i>	<i>neg</i>	<i>nap</i>
Number of loading terminals	<i>nap</i>	<i>nap</i>	<i>neg</i>	<i>neg</i>	<i>nap</i>
Value of money loaded (EUR billions)	<i>nap</i>	<i>nap</i>	<i>neg</i>	<i>neg</i>	<i>nap</i>
Float (EUR billions)	<i>nap</i>	<i>nap</i>	<i>neg</i>	<i>neg</i>	<i>nap</i>
<b>Delayed debit cards (charge cards) <sup>2)</sup></b>					
Cards with a delayed debit function (thousands)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Number of terminals	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Volume of transactions (millions)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Value of transactions (EUR billions)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<b>Memorandum item:</b>					
Total number of cards in circulation (thousands) <sup>3)</sup>	3,929	4,236	4,848	4,651	5,239
<i>of which:</i>					
<i>cards with a combined debit, cash and e-money function (thousands)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>cards with a cheque guarantee function (thousands)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>

1) Pilot schemes in operation during 1998/99 only.

2) Data available from two companies only, accordingly for confidentiality these figures are not being published.

3) Data represent the total number of cards by function as opposed to actual number of cards in circulation.

**Table 7**

**Payment instructions handled by selected interbank funds transfer systems:**

**volume of transactions <sup>1)</sup>**

(thousands)

	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>
Retail clearings <sup>2)</sup>	174,249	190,106	202,413	276,360	284,506
<i>Cheques</i>	<i>111,776</i>	<i>121,581</i>	<i>124,392</i>	<i>157,127</i>	<i>120,893</i>
<i>Direct debits</i>	<i>31,647</i>	<i>35,216</i>	<i>40,717</i>	<i>49,090</i>	<i>82,696</i>
<i>Credit transfers - paper</i>	<i>5,918</i>	<i>6,279</i>	<i>8,471</i>	<i>12,351</i>	<i>10,063</i>
<i>Credit transfers - electronic</i>	<i>24,908</i>	<i>27,030</i>	<i>28,833</i>	<i>57,792</i>	<i>70,854</i>
RTGS <sup>3)</sup>	152	343	376	423	485
<b>Concentration ratio <sup>4)</sup></b>					
Retail clearings <sup>2)</sup>	99.3%	99.6%	99.2%	99.3%	99.6%
<i>Cheques</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>99.6%</i>	<i>98.3%</i>
<i>Direct debits</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>99.8%</i>	<i>100%</i>
<i>Credit transfers - paper</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>99.3%</i>	<i>99.9%</i>
<i>Credit transfers - electronic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>99.1%</i>	<i>100%</i>
IRIS RTGS <sup>3)</sup>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>

- 1) The table contains both customer and interbank transactions.
- 2) The retail clearings were carried out by the Dublin Bankers' Clearing until December 1998 when it was replaced by three functional clearing companies. These companies provide clearing facilities for paper debits, paper credits and electronic debits and credits. The data in this table from 1999 under the heading "Retail Clearings" represent the total activity of the three clearing companies.
- 3) RTGS system: Daily Interbank Settlement (paper-based large-value interbank credit transfers) prior to March 1997.
- 4) Market share of the five largest participants in each payment system, based on the total volume of transactions.

**Table 8****Payment instructions handled by selected interbank funds transfer systems:****value of transactions**<sup>1)</sup>

(EUR billions)

	1996	1997	1998	1999	2000
Retail clearings <sup>2)</sup>	200.2	373.7	342.6	339.1	455.3
<i>Cheques</i>	138.7	312.2	266.8	270.4	259.7
<i>Direct debits</i>	7.1	9.1	10.7	14.2	28.8
<i>Credit transfers - paper</i>	49.1	30.7	58.4	45.5	44.0
<i>Credit transfers - electronic</i>	5.3	21.6	6.7	9.0	122.8
RTGS <sup>3)</sup>	938.2	2,158.6	2,412.5	3,594.7	3,813.2
<b>Concentration ratio</b> <sup>4)</sup>					
Retail clearings <sup>2)</sup>	99.4%	98.9%	98.7%	97.9%	99%
<i>Cheques</i>	nav	nav	nav	99%	96.1%
<i>Direct debits</i>	nav	nav	nav	94.6%	100%
<i>Credit transfers - paper</i>	nav	nav	nav	99.9%	99.9%
<i>Credit transfers - electronic</i>	nav	nav	nav	98.4%	100%
IRIS RTGS <sup>3)</sup>	nav	nav	nav	nav	nav

- 1) The table contains both customer and interbank transactions.
- 2) The retail clearings were carried out by the Dublin Bankers' Clearing until December 1998 when it was replaced by three functional clearing companies. These companies provide clearing facilities for paper debits, paper credits and electronic debits and credits. The data in this table from 1999 under the heading "Retail Clearings" represent the total activity of the three clearing companies.
- 3) RTGS system: Daily Interbank Settlement (paper-based large-value interbank credit transfers) prior to March 1997.
- 4) Market share of the five largest participants in each payment system, based on the total value of transactions.

**Table 9****Indicators of the use of various cashless payment instruments:****volume of transactions**<sup>1)</sup>

(millions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques <sup>2)</sup>	112	122	124	157	121
<i>of which:</i>					
<i>face-to-face</i>	112	122	124	157	121
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>teletanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Payments by debit card	1	8	16	25	34
<i>of which:</i>					
<i>face-to-face</i>	1	8	16	25	34
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>teletanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Payments by credit card	nav	nav	nav	47	48
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav

<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>telebanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Credit transfers <sup>2)</sup>	31	33	37	70	81
<i>of which:</i>					
<i>face-to-face</i>	6	6	8	12	10
<i>via PC or other terminal</i>	25	27	29	58	71
<i>telebanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Direct debits <sup>3)</sup>	32	35	41	50	83
<i>of which:</i>					
<i>face-to-face</i>	32	35	41	9	6
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	41	77
<i>telebanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Card-based electronic money <sup>4)</sup>	<i>nav</i>	<i>nav</i>	<i>neg</i>	<i>neg</i>	<i>nav</i>
Network-based electronic money <sup>4)</sup>	<i>nav</i>	<i>nav</i>	<i>neg</i>	<i>neg</i>	<i>nav</i>
<b>Total</b>	<b>176</b>	<b>198</b>	<b>218</b>	<b>349</b>	<b>367</b>

1) This table contains all customer transactions irrespective of whether they are processed intra- or interbank.

2) Excludes items initiated by banks; these data are not available.

3) Includes items initiated by banks.

4) Pilot schemes in operation during 1998/99 only.

**Table 10**

**Indicators of the use of various cashless payment instruments:**

**value of transactions <sup>1)</sup>**

(EUR millions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques <sup>2)</sup>	138,655	312,229	266,772	270,425	259,652
<i>of which:</i>					
<i>face-to-face</i>	138,655	312,229	266,772	270,425	259,652
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>telebanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Payments by debit card	38	433	862	1,208	1,700
<i>of which:</i>					
<i>face-to-face</i>	38	433	862	1,208	1,700
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>telebanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Payments by credit card	<i>nav</i>	<i>nav</i>	<i>nav</i>	3,230	3,931
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>telebanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Credit transfers <sup>2)</sup>	54,472	52,313	65,138	54,563	166,787
<i>of which:</i>					
<i>face-to-face</i>	49,139	30,728	58,409	45,510	44,016
<i>via PC or other terminal</i>	5,333	21,586	6,730	9,053	122,771
<i>telebanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Direct debits <sup>3)</sup>	7,111	9,142	10,666	14,243	28,771
<i>of which:</i>					
<i>face-to-face</i>	7,111	9,142	10,666	599	434
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	13,643	28,337
<i>telebanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>

Card-based electronic money <sup>4)</sup>	nap	nap	neg	neg	nap
Network-based electronic money <sup>4)</sup>	nap	nap	neg	neg	nap
<b>Total</b>	<b>200,276</b>	<b>374,117</b>	<b>343,438</b>	<b>343,669</b>	<b>460,841</b>

1) This table contains all customer transactions irrespective of whether they are processed intra- or interbank.

2) Excludes items initiated by banks; these data are not available.

3) Includes items initiated by banks.

4) Pilot schemes in operation during 1998/99 only.

**Table 11a**

**Instructions handled by trading platforms, clearing houses and securities settlement systems:  
volume of transactions**

(thousands)

	1996	1997	1998	1999	2000
<b>Securities settlement systems</b>					
CBISSO <sup>1)</sup>	70,383	73,338	46,806	31,343	21,301

1) With effect from 4 December 2000 the settlement of Irish government bonds has been outsourced to Euroclear. Accordingly, data after close of business on 1 December 2000 are not included.

**Table 11b**

**Instructions handled by trading platforms, clearing houses and securities settlement systems:  
market value of transactions**

(EUR millions)

	1996	1997	1998	1999	2000
<b>Securities settlement systems</b>					
CBISSO <sup>1)</sup>	494,150	818,754	604,339	332,042	260,556

1) With effect from 4 December 2000 the settlement of Irish government bonds has been outsourced to Euroclear. Accordingly, data after close of business on 1 December 2000 are not included.

**Table 11c**

**Number of participants in trading platforms, clearing houses and securities settlement systems**

	1996	1997	1998	1999	2000
<b>Securities settlement systems</b>					
<b>CBISSO <sup>1)</sup></b>					
Banks	17	16	15	14	14
<i>of which:</i>					
<i>domestic</i>	11	12	11	10	10
<i>foreign</i>	6	4	4	4	4
Brokers/dealers	10	10	10	9	9
<i>of which:</i>					
<i>domestic</i>	10	10	9	8	8
<i>foreign</i>			1	1	1
Insurance companies	7	5	4	4	4
Securities settlement systems					
NTMA (national debt agency)	1	1	1	1	1
Central Bank of Ireland	1	1	1	1	1
Securities houses	11	7	8	7	7
<b>Total</b>	<b>47</b>	<b>40</b>	<b>39</b>	<b>36</b>	<b>36</b>

1) With effect from 4 December 2000 the settlement of Irish government bonds has been outsourced to Euroclear. Accordingly, details of CBISSO participants relate to close of business on 1 December 2000.

**Table 11d****Outstanding securities**

(end of year)

	1996	1997	1998	1999	2000
<b>CBISSO<sup>1)</sup></b>					
Value of securities issued (EUR billions)	20,760	21,474	20,364	23,628	21,784

1) With effect from 4 December 2000 the settlement of Irish government bonds has been outsourced to Euroclear.

**Table 11e****Netting ratio in clearing systems**

	1996	1997	1998	1999	2000
<b>CBISSO<sup>1)</sup></b>					
Netting ratio for cash over year	nap	nap	nap	nap	nap
Netting ratio for securities over year	nap	nap	nap	nap	nap

1) With effect from 4 December 2000 the settlement of Irish government bonds has been outsourced to Euroclear.

**Table 12****Participation in SWIFT by domestic institutions**

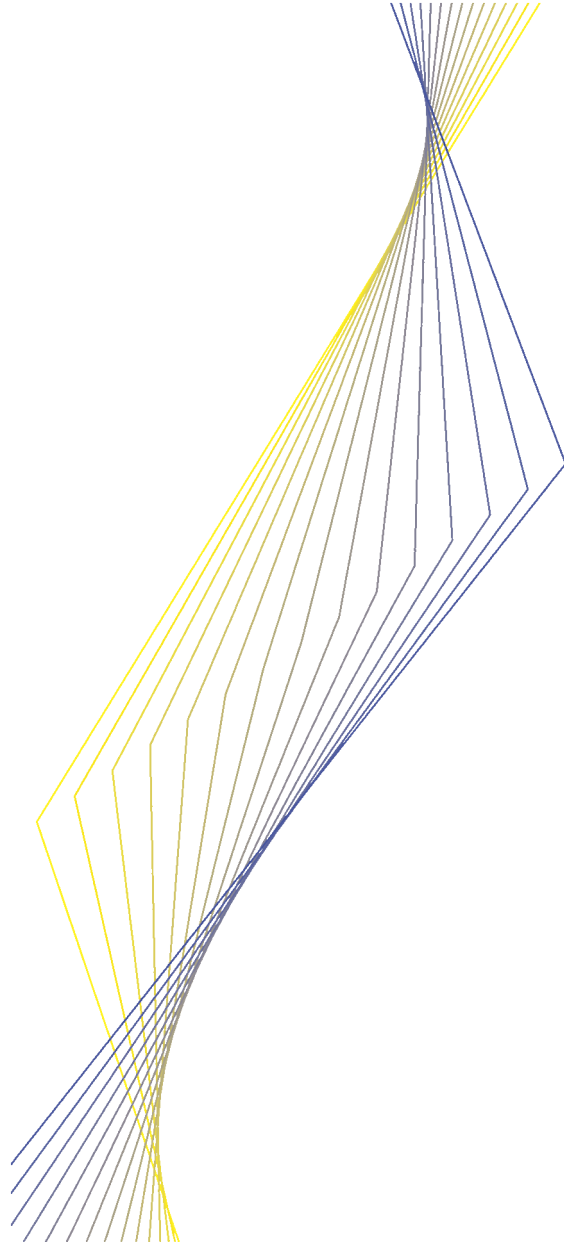
	1996	1997	1998	1999	2000
Members	13	13	13	9	12
<i>of which live</i>	13	13	13	9	12
Sub-members	23	25	27	31	35
<i>of which live</i>	23	25	27	31	35
Participants	16	17	21	31	24
<i>of which live</i>	15	17	20	24	23
Total users	52	55	61	71	71
<i>Memorandum items:</i>					
Total SWIFT users	5,918	6,372	6,771	6,991	7,293
<i>of which:</i>					
<i>members</i>	3,014	3,070	3,052	2,230	2,307
<i>sub-members</i>	2,500	2,621	2,781	2,825	3,037
<i>participants</i>	404	681	938	1,936	1,949

**Table 13****SWIFT message flows to/from domestic users**

	1996	1997	1998	1999	2000
Total messages sent	2,905,351	3,608,935	4,491,367	5,654,511	6,413,740
<i>of which:</i>					
<i>category I</i>	656,950	783,846	984,080	1,416,966	1,715,473
<i>category II</i>	786,581	955,814	1,192,949	1,346,389	1,493,813
Total messages received	3,270,756	4,392,502	5,575,441	7,120,387	8,707,271
<i>of which:</i>					
<i>category I</i>	864,594	1,018,241	1,222,146	1,655,627	1,936,990
<i>category II</i>	535,854	679,023	795,169	952,696	1,066,186
Domestic traffic	761,784	936,523	1,106,840	1,260,904	1,457,488
<i>Memorandum item:</i>					
Global SWIFT traffic	687,785,294	812,117,556	941,235,088	1,058,836,425	1,273,912,754



EUROPEAN CENTRAL BANK



**Italy**



**Table 1****Basic statistical data**

	1996	1997	1998	1999	2000
Population (thousands)	57,397	57,512	57,588	57,630	57,728
GDP (ECU/EUR billions) <sup>1)</sup>	971.1	1,030.0	1,068.8	1,107.8	1,165.7
GDP per capita (ECU/EUR) <sup>1)</sup>	16,918	17,909	18,559	19,222	20,193
Exchange rate (domestic currency vis-à-vis ECU/EUR):					
end of year <sup>2)</sup>	1,913.72	1,942.03	1,936.27	1,936.27	1,936.27
average <sup>2)</sup>	1,958.96	1,929.30	1,943.65	1,936.27	1,936.27

1) Prior to 1999, converted using the ITL/ECU exchange rate. In the following tables, the irrevocable conversion rate to the euro has been used for data prior to 1999.

2) Irrevocable conversion rates were adopted with the introduction of the euro on 1 January 1999.

**Table 2****Settlement media used by non-banks**

(end of year, EUR billions)

	1996	1997	1998	1999	2000
Banknotes and coins	52	56	60	66	69
Transferable deposits <sup>1)</sup>	263	281	305	390	416
Others <sup>2)</sup>	7	7	6	nap	nap
Narrow money supply (M1)	321	344	370	456	485
Memorandum items:					
Broad money supply <sup>3)</sup>	446	601	619	651	665
Transferable deposits in foreign currencies	nav	nav	nav	8	8
Outstanding value on e-money schemes <sup>4)</sup>	nap	0.7	0.7	0.5	0.5
of which:					
on card-based products	nap	0.7	0.7	0.5	0.5
on network-based products	nap	nap	nap	nap	neg

1) Current account deposits held at credit institutions and the Post Office.

2) Banker's drafts, cashier's cheques and current accounts at the Ministry of Treasury. Post 1999 data are not applicable, owing to a change in the methodology used to determine the monetary aggregate M1.

3) For 1996 it includes M1, postal and banking saving deposits and certificates of deposit with a maturity less than 18 months. Since 1997 it includes the contributions to the euro area M1 (currency in circulation and overnight deposits, excluding banknotes and coins held in the various euro denominations by resident MFIs), deposits with agreed maturity up to two years and deposits redeemable at notice up to three months.

4) Data refer to the cards in circulation which have been loaded by users. The figures for 2000 are calculated on the basis of end-of-March 2001 data.

**Table 3****Settlement media used by banks**

(end of year, EUR billions)

	1996	1997	1998	1999	2000
Transferable balances held at central bank <sup>1)</sup>	37	43	10	12	12
of which:					
required reserves	37	43	10	12	12
free reserves <sup>2)</sup>	0.1	0.2	0.2	0.1	0.1
Transferable balances held at other banks	44	50	55	59	95

1) Average balances for the period 15 December to 14 January up to 1997; 15 December to 31 December for 1998; 24 December to 23 January since 1999.

2) Figures include non-interest bearing local deposits up to 1998, deposit facility balances since 1999.



**Table 4****Banknotes and coins**

(end of year, total value, EUR billions and ITL billions)

	1996		1997		1998		1999		2000	
	EUR	ITL	EUR	ITL	EUR	ITL	EUR	ITL	EUR	ITL
Total banknotes issued	54.80	106,106	58.91	114,074	63.21	122,406	70.66	136,820	75.16	145,531
<i>of which:</i>										
<i>ITL 500,000</i>	<i>nap</i>	<i>nap</i>	2.02	3,919	5.15	9,972	8.47	16,400	11.31	21,900
<i>ITL 100,000</i>	40.42	78,264	42.18	81,677	42.98	83,227	46.40	89,850	47.69	92,350
<i>ITL 50,000</i>	11.07	21,429	11.30	21,873	11.60	22,469	12.15	23,525	12.40	24,010
<i>ITL 10,000</i>	2.16	4,173	2.22	4,299	2.29	4,438	2.38	4,607	2.45	4,739
<i>ITL 5,000</i>	0.50	967	0.52	1,016	0.57	1,096	0.59	1,144	0.61	1,188
<i>ITL 2,000</i>	0.14	270	0.01	255	0.11	231	0.09	182	0.07	145
<i>ITL 1,000</i>	0.52	1,003	0.53	1,035	0.50	973	0.57	1,112	0.62	1,195
Total coins issued	1.02	1,986	1.10	2,130	1.29	2,487	1.30	2,525	1.31	2,534
Total banknotes and coins issued	55.82	108,092	60.01	116,204	64.50	124,893	71.96	139,345	76.47	148,066
Banknotes and coins held by credit institutions	4.12	7,979	4.53	8,771	5.01	9,698	6.15	11,908	7.01	13,579
Banknotes and coins in circulation outside credit institutions	51.70	100,113	55.48	107,433	59.50	115,200	65.81	127,421	69.46	134,487

**Table 5**  
**Institutional framework**  
(end of 2000)

Categories	Number of institutions	Number of branches	Number of accounts (thousands)	Number of internet-linked accounts	Value of accounts (EUR billions)
Central bank	1	99	nap	nap	nap
Credit institutions and Post Office <sup>1)</sup>	784	42,005	33,509	1,500	416
<i>of which:</i>					
<i>Post Office</i>	1	13,927	998	nav	nav
<b>Total <sup>1)</sup></b>	<b>785</b>	<b>42,104</b>	<b>33,509</b>	<b>1,500</b>	<b>416</b>
<i>of which:</i>					
<i>virtual institutions</i>	1	nap	nav	nav	nav
Branches of foreign banks	58	99	27	nav	1.9
<i>of which:</i>					
<i>EU-based</i>	44	83	23	nav	1.5

1) Data regarding the number of internet-linked accounts are estimated and are expressed in thousands.

**Table 6**  
**Payment card functions and accepting devices**  
(end of year)

	1996	1997	1998	1999	2000
<b>Cash function</b>					
Cards with a cash function (thousands)	15,270	17,173	17,898	20,802	21,172
Number of networks	4	4	4	4	4
Number of ATMs with a cash dispensing function	24,335	25,546	28,042	30,203	31,720
<i>of which:</i>					
<i>open access</i>	nav	nav	25,998	29,566	31,156
<i>limited access</i>	nav	nav	731	731	695
Volume of transactions (millions)	368	412	487	499	527
<i>of which:</i>					
<i>at ATMs with open access</i>	nav	nav	nav	nav	nav
<i>at ATMs with limited access</i>	nav	nav	nav	nav	nav
Value of transactions (EUR billions)	59	67	78	80	86
<i>of which:</i>					
<i>at ATMs with open access</i>	nav	nav	nav	nav	nav
<i>at ATMs with limited access</i>	nav	nav	nav	nav	nav
Number of ATMs with a giro transfer function	nav	nav	nav	nav	nav
<i>volume of transactions (millions)</i>	nav	nav	nav	nav	nav
<i>value of transactions (EUR billions)</i>	nav	nav	nav	nav	nav
<b>Debit function</b>					
Cards with a debit function (thousands)	14,906	16,389	17,583	19,776	20,204
<i>of which:</i>					
<i>retailer cards (thousands)</i>	nav	nav	nav	nav	nav
Number of networks	3	3	3	3	3
Number of terminals	214,705	281,023	345,580	435,176	570,577
Volume of transactions (millions)	72	124	172	248	318
<i>of which:</i>					
<i>transactions with retailer cards (millions)</i>	nav	nav	nav	nav	nav
Value of transactions (EUR billions)	7	11	14	19	23
<i>of which:</i>					
<i>transactions with retailer cards (EUR billions)</i>	nav	nav	nav	nav	nav

**Credit function**

Cards with a credit function (thousands)	7,643	8,828	10,150	15,420	16,969
<i>of which:</i>					
<i>retailer cards (thousands)</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Number of networks	3	3	3	3	3
Number of terminals	nav	nav	nav	nav	nav
Volume of transactions (millions)	116	141	175	229	272
<i>of which:</i>					
<i>transactions with retailer cards (millions)</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Value of transactions (EUR billions)	11	13	16	21	25
<i>of which:</i>					
<i>transactions with retailer cards (EUR billions)</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>

**Electronic money function**

Cards with an e-money function (thousands)	nap	62	56	32	45
Number of accepting terminals	nap	4,406	3,910	3,605	6,485
Number of networks	nap	nav	nav	nav	3
Number of purchase transactions (millions)	nap	neg	neg	neg	neg
Value of purchase transactions (EUR billions)	nap	neg	neg	neg	neg
Number of loading transactions (millions)	nap	neg	neg	neg	neg
Number of loading terminals	nap	neg	neg	neg	neg
Value of money loaded (EUR billions)	nap	neg	neg	neg	neg
Float (EUR billions)	nap	neg	neg	neg	neg

**Delayed debit cards (charge cards)**

Cards with a delayed debit function (thousands)	nap	nap	nap	nap	nap
Number of terminals	nap	nap	nap	nap	nap
Volume of transactions (millions)	nap	nap	nap	nap	nap
Value of transactions (EUR billions)	nap	nap	nap	nap	nap
<i>Memorandum item:</i>					
Total number of cards in circulation (thousands)	22,913	25,217	28,048	36,222	38,141
<i>of which:</i>					
<i>cards with a combined debit, cash and e-money function (thousands)</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>cards with a cheque guarantee function (thousands)</i>	<i>neg</i>	<i>neg</i>	<i>neg</i>	<i>neg</i>	<i>neg</i>

1) The figure for 2000 is calculated on the basis of end-of-March 2001 data.

**Table 7****Payment instructions handled by selected interbank funds transfer systems:****volume of transactions <sup>1)</sup>**

(millions)

	1996	1997	1998	1999	2000
<b>BI-COMP</b>					
LOCAL CLEARING	225.6	217.6	182.7	103.9	109.4
Cheques	223.9	215.8	181.7	103.9	109.3
Credit transfers	0.2	0.1	0.1	nap	nap
Other items <sup>2)</sup>	1.5	1.6	0.9	0.1	0.1
ELECTRONIC MEMORANDA	1.7	1.5	0.3	nap	nap
Interbank deposits	0.8	0.8	0.1	nap	nap
Foreign operations	0.1	neg	neg	nap	nap
Credit transfers	0.1	0.1	neg	nap	nap
Other items <sup>3)</sup>	0.6	0.6	0.2	nap	nap
INGROSSO (SIPS) <sup>4)</sup>	5.3	6.1	0.3	nap	nap

RETAIL	664.1	710.6	825.5	959.8	1,005.4
Cheque truncation	287.6	285.7	336.5	394.9	372.8
Bancomat	91.1	103.5	118.8	132.4	143.4
Collection orders	170.6	189.5	216.0	255.6	285.2
Credit transfers	114.6	129.2	148.0	169.4	192.2
Other items <sup>5)</sup>	0.1	2.7	6.3	7.5	11.7
<b>BI-REL</b> <sup>6)</sup>	<b>1.1</b>	<b>2.7</b>	<b>10.8</b>	<b>10.2</b>	<b>10.4</b>
Customer transactions <sup>7)</sup>	nap	1.6	3.8	4.8	5.2
Interbank transactions <sup>8)</sup>	0.1	0.1	5.6	3.6	3.5
<i>of which:</i>					
<i>GEC</i> <sup>9)</sup>	<i>nap</i>	<i>nap</i>	4.8	3.0	2.9
<i>interbank transfers</i>	<i>0.1</i>	<i>0.1</i>	<i>0.2</i>	<i>0.2</i>	<i>0.2</i>
<i>e-MID</i> <sup>10)</sup>	<i>nap</i>	<i>nap</i>	<i>0.6</i>	<i>0.5</i>	<i>0.4</i>
Payments between banks and the Banca d'Italia or the Ministry of Treasury	1.1	1.0	1.4	1.7	1.8
<b>Concentration ratio</b> <sup>11)</sup>					
LOCAL CLEARING	28.6%	28.0%	26.9%	27.6%	28.3%
ELECTRONIC MEMORANDA	20.6%	18.8%	19.2%	nap	nap
INGROSSO (SIPS)	53.8%	51.4%	55.8%	nap	nap
RETAIL	29.8%	29.8%	28.4%	27.1%	26.5%
BI-REL	25.9%	37.2%	43.1%	40.5%	36.4%
Overall concentration ratio	28.2%	28.2%	27.4%	26.8%	26.3%

1) The table contains both customer and interbank transactions.

2) Payments between the banking system and the Ministry of Treasury, the Banca d'Italia or the Post Office and bills of exchange.

3) In particular, settlement of securities transactions. Since November 1998, the cash balances of securities transactions have been settled in the RTGS system (BI-REL).

4) It includes interbank transfers of external lire and the lira settlement of foreign exchange transactions.

5) Mainly transactions through e-money, interests and dividends on the securities deposited at the Monte Titoli, transactions with debit cards at the post office and electronic notification of unpaid cheques.

6) Up to 1998, debits/credits for the settlement of clearing balances are not included.

7) Large-value and cross-border credit transfers. Since January 1999, it includes outgoing cross-border customer transactions carried out via TARGET.

8) Since November 2000, it includes EXPRESS procedure interbank transactions.

9) It replaced INGROSSO. Since January 1999, it includes outgoing cross-border interbank transactions carried out via TARGET.

10) Screen-based market for interbank deposits. Since January 1998, it replaces ELECTRONIC MEMORANDA interbank deposits.

11) Market share of the five largest banks participating in each system, based on the total volume of transactions.

**Table 8**  
**Payment instructions handled by selected interbank funds transfer systems:**  
**value of transactions**  
(EUR billions)

	1996	1997	1998	1999	2000
<b>BI-COMP</b>					
LOCAL CLEARING	1,497	1,323	987	710	720
Cheques	851	850	827	689	708
Credit transfers	131	33	13	nap	nap
Other items <sup>2)</sup>	514	439	148	21	12
ELECTRONIC MEMORANDA	11,930	13,028	4,617	nap	nap
Interbank deposits	7,774	8,594	587	nap	nap
Foreign operations	169	116	9	nap	nap
Credit transfers	411	116	45	nap	nap
Other items <sup>3)</sup>	3,576	4,201	3,975	nap	nap
INGROSSO (SIPS) <sup>4)</sup>	17,834	21,439	1,293	nap	nap
RETAIL	817	924	1,124	1,364	1,538
Cheque truncation	154	155	197	278	282

Bancomat	13	15	17	19	21
Collection orders	269	294	349	417	472
Credit transfers	378	446	536	612	708
Other items <sup>5)</sup>	3	14	25	38	56
<b>BI-REL <sup>6)</sup></b>	<b>1,405</b>	<b>2,259</b>	<b>36,630</b>	<b>24,634</b>	<b>27,782</b>
Customer transactions <sup>7)</sup>	nap	790	1,727	1,714	2,212
Interbank transactions <sup>8)</sup>	72	156	31,561	18,591	21,134
<i>of which:</i>					
<i>GEC <sup>9)</sup></i>	<i>nap</i>	<i>nap</i>	<i>22,744</i>	<i>10,247</i>	<i>12,292</i>
<i>interbank transfers</i>	<i>72</i>	<i>156</i>	<i>837</i>	<i>1,030</i>	<i>1,349</i>
<i>e-MID <sup>10)</sup></i>	<i>nap</i>	<i>nap</i>	<i>7,980</i>	<i>7,314</i>	<i>7,494</i>
Payments between banks and the Banca d'Italia or the Ministry of Treasury	1,333	1,313	3,342	4,329	4,436
<b>Concentration ratio <sup>11)</sup></b>					
LOCAL CLEARING	27.7%	26.7%	24.2%	23.1%	23.2%
ELECTRONIC MEMORANDA	24.0%	23.2%	29.2%	nap	nap
INGROSSO (SIPS)	57.5%	56.9%	58.0%	nap	nap
RETAIL	28.2%	27.9%	26.7%	26.0%	25.7%
BI-REL	35.2%	33.1%	47.5%	42.2%	39.4%
Overall concentration ratio	40.5%	41.8%	45.2%	40.5%	37.9%

1) The table contains both customer and interbank transactions.

2) Payments between the banking system and the Ministry of Treasury, the Banca d'Italia or the Post Office and bills of exchange.

3) In particular, settlement of securities transactions. Since November 1998, the cash balances of securities transactions have been settled in the RTGS system (BI-REL).

4) It includes Interbank transfers of external lire and the lira settlement of foreign exchange transactions.

5) Mainly transactions through e-money, interests and dividends on the securities deposited at the Monte Titoli, transactions with debit cards at the post office and electronic notification of unpaid cheques.

6) Up to 1998, debits/credits for the settlement of clearing balances are not included.

7) Large-value and cross-border credit transfers. Since January 1999, it includes outgoing cross-border customer transactions carried out via TARGET.

8) Since November 2000, it includes EXPRESS procedure interbank transactions.

9) It replaced INGROSSO. Since January 1999, it includes outgoing cross-border interbank transactions carried out via TARGET.

10) Screen-based market for interbank deposits. Since January 1998 it replaces ELECTRONIC MEMORANDA interbank deposits.

11) Market share of the five largest banks participating in each system, based on the total value of transactions.

**Table 9**

**Indicators of the use of various cashless payment instruments:  
volume of transactions**

(millions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques	676.9	656.8	648.7	665.2	602.0
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via PC or other terminal</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>teleshopping</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>via mobile phone</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Payments by debit card	72.0	124.0	171.7	247.5	317.5
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via PC or other terminal</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>teleshopping</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>via mobile phone</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Payments by credit card	116.0	141.0	175.1	229.2	272.3
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>

<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>teletanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Credit transfers <sup>1)</sup>	944.0	976.0	971.4	1,003.4	1,018.6
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>teletanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Direct debits	162.8	200.7	226.4	292.8	319.6
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>teletanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Card-based electronic money	nap	neg	neg	neg	neg
Network-based electronic money	nap	nap	nap	nap	neg
<b>Total</b>	<b>1,971.7</b>	<b>2,098.5</b>	<b>2,193.3</b>	<b>2,438.1</b>	<b>2,530.0</b>

1) Includes items initiated by banks according to the following: 9.5 million for 1996, 7.6 million for 1997, 7.5 million for 1998, 6.1 million for 1999 and 5.9 million for 2000.

**Table 10**

**Indicators of the use of various cashless payment instruments:**

**value of transactions**

(EUR billions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques	1,314.0	1,321.0	1,276.0	1,305.0	1,304.8
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via PC or other terminal</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>teletanking</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>via mobile phone</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Payments by debit card	7.0	11.0	14.0	18.5	23.1
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via PC or other terminal</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>teletanking</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>via mobile phone</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Payments by credit card	11.0	13.0	16.0	21	25.4
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>teletanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Credit transfers <sup>1)</sup>	34,283.0	38,836.0	43,016.0	33,590.0	39,080.7
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>teletanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Direct debits	82.0	130.0	144.0	175.0	188.6
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>teletanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Card-based electronic money	nap	neg	neg	neg	neg
Network-based electronic money	nap	nap	nap	nap	neg

<b>Total</b>	<b>35,697.0</b>	<b>40,311.0</b>	<b>44,466.0</b>	<b>35,109.5</b>	<b>40,622.6</b>
--------------	-----------------	-----------------	-----------------	-----------------	-----------------

1) Includes items initiated by banks according to the following: EUR 31,272 billion for 1996, EUR 35,258 billion for 1997, EUR 38,873 billion for 1998, EUR 29,531 billion for 1999, EUR 34,288 billion for 2000.

**Table 11a**

**Instructions handled by trading platforms, clearing houses and securities settlement systems:  
volume of transactions**  
(millions)

	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>
<b>Trading platforms</b>	<b>10.90</b>	<b>17.49</b>	<b>32.01</b>	<b>37.90</b>	<b>72.56</b>
BORSA ITALIANA <sup>1)</sup>					
Volume of transactions <sup>2)</sup>	9.44	15.92	30.84	36.97	71.89
<i>of which:</i>					
<i>government securities</i>	3.20	3.39	3.83	3.76	3.35
<i>bonds</i>	0.55	0.65	0.89	0.79	0.74
<i>shares</i>	5.22	11.05	23.95	29.08	58.56
<i>warrant and covered warrant</i>	0.42	0.71	1.77	3.00	8.77
<i>other items</i>	0.05	0.11	0.40	0.34	0.47
MTS <sup>3)</sup>					
Volume of transactions <sup>2)</sup>	1.46	1.57	1.05	0.70	0.45
PCT <sup>4)</sup>					
Volume of transactions <sup>2)</sup>	nap	nap	0.12	0.22	0.22
<b>Clearing house</b>					
CCG <sup>5)</sup>					
Volume of transactions cleared <sup>2)</sup>	6.07	11.22	10.28	9.49	13.34
<b>Securities settlement systems</b>	<b>12.71</b>	<b>16.31</b>	<b>21.11</b>	<b>20.51</b>	<b>46.08</b>
LDT					
Volume of settlement instructions <sup>6)</sup>	11.74	15.30	20.05	19.31	44.21
CAT					
Volume of settlement instructions <sup>7)</sup>	0.69	0.65	0.49	0.50	0.47
MONTE TITOLI					
Volume of settlement instructions <sup>7)</sup>	0.29	0.35	0.57	0.70	1.40
EXPRESS <sup>8)</sup>					
Volume of settlement instructions	nap	nap	nap	nap	neg

1) Italian stock exchange.

2) Number of contracts.

3) Secondary market for government securities.

4) Electronic market for repurchase agreements. The 1998 figure refers to the period 10 February to 31 December.

5) Clearing and guarantee house.

6) Bilateral debit balances.

7) Free-of-payment (FOP) transfers not including multilateral net balances from LDT.

8) Real-time gross securities settlement system managed by Monte Titoli S.p.A. since 20 November 2000.

**Table 11b**

**Instructions handled by trading platforms, clearing houses and securities settlement systems:  
market value of transactions**  
(EUR billions)

	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>
<b>Trading platforms</b>	<b>4,768.66</b>	<b>5,616.99</b>	<b>5,858.47</b>	<b>8,900.55</b>	<b>8,714.81</b>
BORSA ITALIANA <sup>1)</sup>					
Value of transactions	229.32	358.65	618.06	692.22	1,058.68
<i>of which:</i>					
<i>government securities</i>	137.85	167.10	160.71	152.05	141.89
<i>bonds</i>	8.62	11.02	17.61	14.90	13.45
<i>shares</i>	81.23	174.99	425.16	507.43	869.13
<i>warrant and covered warrant</i>	1.51	4.89	11.89	17.30	33.81

<i>other items</i>	0.12	0.65	2.69	0.55	0.40
MTS <sup>2)</sup>					
Value of transactions	4,539.35	5,258.34	3,268.19	2,801.23	2,017.00
PCT <sup>3)</sup>					
Value of transactions	nap	nap	1,972.21	5,407.10	5,639.13
<b>Clearing house</b>					
CCG <sup>4)</sup>					
Value of transactions cleared	251.09	617.36	1,274.03	1,198.54	1,383.95
<b>Securities settlement systems</b>	<b>16,482.00</b>	<b>22,956.00</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>
LDT					
Value of settlement instructions <sup>5)</sup>	15,433.00	21,727.00	27,469.00	31,087.00	26,582.00
CAT					
Value of settlement instructions <sup>6), 7)</sup>	997.00	1,143.00	1,182.00	3,317.00	3,573.00
MONTE TITOLI					
Value of settlement instructions <sup>6), 7)</sup>	52.00	86.00	nav	nav	nav
EXPRESS <sup>8)</sup>					
Value of settlement instructions	nap	nap	nap	nap	55.98
<i>of which:</i>					
<i>government securities</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>49.68</i>
<i>bonds</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>1.26</i>
<i>shares</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>5.05</i>

1) Italian stock exchange.

2) Secondary market for government securities.

3) Electronic market for repurchase agreements. The 1998 figure refers to the period 10 February to 31 December.

4) Clearing and guarantee house.

5) Bilateral debit balances.

6) Nominal value.

7) Free-of-payment (FOP) transfers not including multilateral net balances from LDT.

8) Real-time gross securities settlement system managed by Monte Titoli S.p.A. since 20 November 2000.

**Table 11c**  
**Number of participants in trading platforms, clearing houses and securities settlement systems**

	1996	1997	1998	1999	2000
<b>Trading systems</b>					
<b>BORSA ITALIANA <sup>1)</sup></b>	<b>nav</b>	<b>nav</b>	<b>139</b>	<b>142</b>	<b>182</b>
Banks	nav	nav	45	47	87
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>43</i>	<i>44</i>	<i>79</i>
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>2</i>	<i>3</i>	<i>8</i>
Brokers/dealers	nav	nav	94	95	95
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>90</i>	<i>86</i>	<i>86</i>
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>4</i>	<i>9</i>	<i>9</i>
<b>MTS <sup>2)</sup></b>	<b>273</b>	<b>272</b>	<b>234</b>	<b>221</b>	<b>211</b>
Banks	202	210	206	190	150
<i>of which:</i>					
<i>domestic</i>	<i>202</i>	<i>210</i>	<i>159</i>	<i>142</i>	<i>132</i>
<i>foreign</i>	<i>0</i>	<i>0</i>	<i>47</i>	<i>48</i>	<i>18</i>
Brokers/dealers	71	62	28	31	61
<i>of which:</i>					
<i>domestic</i>	<i>71</i>	<i>59</i>	<i>9</i>	<i>20</i>	<i>50</i>
<i>foreign</i>	<i>0</i>	<i>3</i>	<i>19</i>	<i>11</i>	<i>11</i>
<b>PCT <sup>3)</sup></b>	<b>nav</b>	<b>nav</b>	<b>234</b>	<b>221</b>	<b>211</b>
Banks	nav	nav	206	190	150
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>159</i>	<i>142</i>	<i>132</i>
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>47</i>	<i>48</i>	<i>18</i>
Brokers/dealers	nav	nav	28	31	61
<i>of which:</i>					



<i>domestic</i>	<i>nap</i>	<i>nap</i>	9	20	50
<i>foreign</i>	<i>nap</i>	<i>nap</i>	19	11	11
<b>Clearing house</b>					
<b>CCG <sup>4)</sup></b>	<b>182</b>	<b>178</b>	<b>168</b>	<b>141</b>	<b>135</b>
Banks	97	100	99	79	75
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	78	73
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	1	2
Brokers/dealers	85	88	69	62	60
<i>of which:</i>					
<i>domestic</i>	84	75	63	53	49
<i>foreign</i>	1	13	6	9	11
<b>Securities settlement systems</b>					
<b>LDT</b>	<b>304</b>	<b>285</b>	<b>280</b>	<b>282</b>	<b>284</b>
Banks	155	157	166	173	193
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	149	170
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	24	23
Brokers/dealers	146	125	111	106	88
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	101	83
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	5	5
Others <sup>5)</sup>	3	3	3	3	3
<b>CAT <sup>6)</sup></b>	<b>515</b>	<b>492</b>	<b>464</b>	<b>435</b>	<b>nap</b>
Banks	315	319	323	306	nap
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	275	<i>nap</i>
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	31	<i>nap</i>
Brokers/dealers	179	155	128	117	nap
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	112	<i>nap</i>
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	5	<i>nap</i>
Others <sup>7)</sup>	21	18	13	12	nap
<b>MONTE TITOLI</b>	<b>nav</b>	<b>nav</b>	<b>893</b>	<b>1,243</b>	<b>1,582</b>
Banks	nav	nav	230	284	344
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	263	315
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	21	29
Brokers/dealers	nav	nav	132	128	132
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	126	132
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	2	0
Issuers	nav	nav	463	724	952
CSDs	nav	nav	4	7	10
Others	nav	nav	64	100	144
<b>EXPRESS <sup>8)</sup></b>	<b>nap</b>	<b>nap</b>	<b>nap</b>	<b>nap</b>	<b>71</b>
Banks	nap	nap	nap	nap	66
<i>of which:</i>					
<i>domestic</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	51
<i>foreign</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	15
Brokers/dealers	nap	nap	nap	nap	5
<i>of which:</i>					
<i>domestic</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	5
<i>foreign</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	0

1) Italian stock exchange.

2) Secondary market for government securities and PCT.

3) Electronic market for repurchase agreements and MTS.

4) Clearing and guarantee house.

5) Banca d'Italia, Monte Titoli, CCG.

6) Since December 2000, the central depository system for government bonds has been managed by Monte Titoli.

7) Banca d'Italia, Ministry of Treasury, Monte Titoli, CCG, CSDs, international financial organisations.

8) Real-time gross securities settlement system managed by Monte Titoli S.p.A. since 20 November 2000.

**Table 11d****Outstanding securities**

(end of year)

	1996	1997	1998	1999	2000
<b>Trading platforms</b>					
<b>BORSA ITALIANA <sup>1)</sup></b>					
Number of listed securities	1,215	1,111	1,129	2,575	4,116
<i>of which:</i>					
<i>shares</i>	339	328	325	352	361
<i>warrant and covered warrant</i>	35	27	152	1,591	3,130
<i>bonds</i>	636	566	498	493	497
<i>government securities</i>	205	190	154	139	128
Value of securities listed EUR billions) <sup>2)</sup>	1,001	1,026	1,062	1,104	1,146
<i>of which:</i>					
<i>shares</i>	53	51	58	73	79
<i>bonds</i>	39	48	54	68	91
<i>government securities</i>	909	926	950	962	976
<b>MTS <sup>3)</sup></b>					
Number of listed securities	135	135	180	200	207
Value of securities listed (EUR billions) <sup>4)</sup>	756	838	1,310	1,086	1,044
<b>Securities settlement system</b>					
<b>CAT <sup>5)</sup></b>					
Value of securities issued (EUR billions) <sup>6)</sup>	987	1,000	1,026	1,041	nav
Number of securities issued	216	205	176	164	nav
Value of securities registered (EUR billions)	979	994	1,025	1,040	nav
Number of securities registered	216	205	176	164	nav
<b>MONTE TITOLI</b>					
Value of securities issued (EUR billions)	nav	nav	nav	nav	nav
Volume of securities issued	nav	nav	nav	nav	nav
Value of securities registered (EUR billions) <sup>2)</sup>	109	148	230	335	1,448
<i>of which:</i>					
<i>shares</i>	34	39	63	83	94
<i>warrant</i>	neg	neg	2	5	42
<i>bonds</i>	75	109	165	236	264
<i>government securities</i>	0	0	0	11	1,044
<i>other items</i>	0	0	0	0	4
Number of securities registered	nav	nav	6,356	13,398	22,331

1) Italian stock exchange.

2) Nominal value.

3) Secondary market for government securities.

4) Market value up to 1998, nominal value since 1999.

5) Since December 2000, the central depository system for government bonds has been managed by Monte Titoli.

6) The figure for 1999 is an estimate.

**Table 11e****Netting ratio in clearing systems**

	1996	1997	1998	1999	2000
<b>CCG <sup>1)</sup></b>					
Netting ratio for cash over year	nav	nav	nav	nav	nav
Netting ratio for securities over year	nav	nav	nav	nav	nav

1) Clearing and guarantee house.

**Table 12**  
**Participation in SWIFT by domestic institutions**

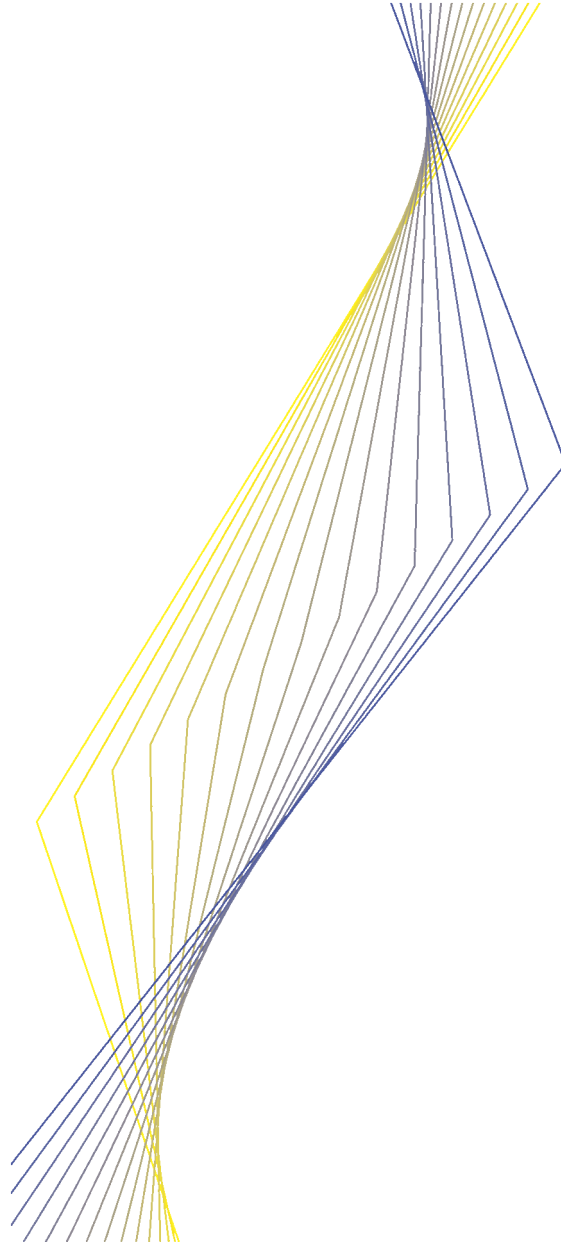
	1996	1997	1998	1999	2000
Members	185	185	184	148	150
<i>of which live</i>	185	183	182	147	150
Sub-members	43	44	51	54	60
<i>of which live</i>	40	43	50	52	58
Participants	3	3	7	41	42
<i>of which live</i>	3	3	6	41	40
Total users	231	232	242	243	252
<i>of which live</i>	228	229	238	240	248
<i>Memorandum items:</i>					
Total SWIFT users	5,918	6,372	6,771	6,991	7,293
<i>members</i>	3,014	3,070	3,052	2,230	2,307
<i>sub-members</i>	2,500	2,621	2,781	2,825	3,037
<i>participants</i>	404	681	938	1,936	1,949

**Table 13**  
**SWIFT message flows to/from domestic users**

	1996	1997	1998	1999	2000
Total messages sent	30,081,128	31,672,855	35,347,305	33,624,951	39,545,548
<i>of which:</i>					
<i>category I</i>	8,903,858	7,968,583	8,556,232	9,734,387	11,318,193
<i>category II</i>	6,659,465	7,091,972	7,369,906	5,344,194	5,556,376
Total messages received	31,508,461	32,742,840	34,939,777	33,866,483	39,863,897
<i>of which:</i>					
<i>category I</i>	10,487,061	9,980,426	10,758,471	12,158,469	13,964,280
<i>category II</i>	6,736,480	6,881,867	6,904,785	4,038,033	3,991,833
Domestic traffic	5,419,805	4,127,570	3,906,821	2,523,560	3,800,121
<i>Memorandum item:</i>					
Global SWIFT traffic	687,785,294	812,117,556	941,235,088	1,058,836,425	1,273,912,754



EUROPEAN CENTRAL BANK



**Luxembourg**



**Table 1****Basic statistical data**

	1996	1997	1998	1999	2000
Population (thousands)	418	424	429	436	441
GDP (ECU/EUR billions) <sup>1)</sup>	14.3	15.6	16.9	18.5	20.6
GDP per capita (ECU/EUR) <sup>1)</sup>	34,210	36,700	39,282	42,346	46,579
Exchange rate (domestic currency vis-à-vis ECU/EUR):					
<i>end of year</i> <sup>2)</sup>	40.1021	40.7675	40.3399	40.3399	40.3399
<i>average</i> <sup>2)</sup>	39.2986	40.5332	40.6207	40.3399	40.3399

1) Prior to 1999, converted using LUF/ECU exchange rate. In the following tables, the irrevocable conversion rate to the euro has been used for data prior to 1999.

2) Irrevocable conversion rates were adopted with the introduction of the euro on 1 January 1999.

**Table 2****Settlement media used by non-banks**

(end of year, EUR billions)

	1996	1997	1998	1999	2000
Banknotes and coins	0.4	0.5	0.6	0.6	0.4
Transferable deposits	2.4	2.4	2.6	43.0	50.7
Narrow money supply (M1) <sup>1)</sup>	2.8	2.8	3.2	43.5	51.1
<i>Memorandum items:</i>					
Broad money supply	nav	nav	nav	159.6	193.3
Transferable deposits in foreign currencies	nav	nav	nav	nav	nav
Outstanding value on e-money schemes <sup>2)</sup>	nap	nap	nap	1.0	1.4
<i>of which:</i>					
<i>on card-based products</i>	nap	nap	nap	1.0	1.4
<i>on network-based products</i>	nap	nap	nap	nap	nap

1) Prior to 1999, M1 was calculated for Luxembourg residents only. Since 1999, M1 has been calculated on a euro area-wide basis.

2) Value in EUR millions.

**Table 3****Settlement media used by banks**

(end of year, EUR billions)

	1996	1997	1998	1999	2000
Transferable balances held at central bank	nap	nap	nap	6.22	7.35
<i>of which:</i>					
<i>required reserves</i>	nap	nap	nap	6.20	7.33
<i>free reserves</i>	nap	nap	nap	0.02	0.02
Transferable balances held at other banks	nav	30.7	42.0	42.6	50.9
<i>Memorandum item:</i>					
Institutions' borrowing from central bank	nap	nap	nap	nap	nap

**Table 4****Banknotes and coins**

(end of year, total value, EUR billions and LUF billions)

	1996		1997		1998		1999		2000	
	EUR	LUF	EUR	LUF	EUR	LUF	EUR	LUF	EUR	LUF
Total banknotes issued	0.12	5.01	0.12	4.98	0.11	4.29	0.10	4.05	0.10	3.88
<i>of which:</i>										
<i>LUF 5,000</i>	0.08	3.30	0.09	3.50	0.08	3.07	0.08	3.07	0.08	3.05
<i>LUF 1,000</i>	0.04	1.46	0.03	1.28	0.03	1.04	0.02	0.82	0.02	0.68
<i>LUF 100</i>	0.01	0.24	0.00	0.19	0.00	0.19	0.004	0.16	0.004	0.15
Total coins issued	0.02	0.93	0.02	0.93	0.02	0.93	0.02	0.93	0.02	0.93
<i>of which:</i>										
<i>LUF 50</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	0.01	0.51
<i>LUF 20</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	0.01	0.24
<i>LUF 5</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	0.003	0.12
<i>LUF 1</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	0.001	0.05
<i>LUF 0.25</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	0.0002	0.01
Total banknotes and coins issued	0.15	5.93	0.15	5.90	0.13	5.22	0.12	4.98	0.12	4.81
Banknotes and coins held by credit institutions	0.27	10.87	0.28	11.47	0.29	11.70	0.34	13.68	0.33	13.35
Banknotes and coins in circulation outside credit institutions	0.41	16.60	0.45	18.30	0.59	23.80	0.59	23.80	0.40	16.14

**Table 5****Institutional framework**

(end of 2000)

Categories	Number of institutions	Number of branches	Number of accounts (thousands)	Number of internet-linked accounts	Value of accounts (EUR billions)
Central bank	1	1	nav	nav	nav
Credit institutions	202	335	nav	nav	nav
Postal institution	1	1	nav	nav	nav
Total	204	335	nav	nav	nav
<i>of which:</i>					
<i>virtual institutions</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Branches of foreign banks	63	63	nav	nav	nav
<i>of which:</i>					
<i>EU-based</i>	<i>55</i>	<i>55</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>

**Table 6****Payment card functions and accepting devices**

(end of year)

	1996	1997	1998	1999	2000
<b>Cash function</b>					
Cards with a cash function (thousands)	490.6	505.8	529.8	570.7	624.8
Number of networks	1	1	1	1	1
Number of ATMs with a cash dispensing function	223	233	284	310	325
<i>of which:</i>					
<i>open access</i>	<i>223</i>	<i>233</i>	<i>284</i>	<i>310</i>	<i>325</i>
<i>limited access</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Volume of transactions (millions)	4.11	4.42	4.81	5.33	5.58
<i>of which:</i>					
<i>at ATMs with open access</i>	<i>4.11</i>	<i>4.42</i>	<i>4.81</i>	<i>5.33</i>	<i>5.58</i>
<i>at ATMs with limited access</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Value of transactions (EUR billions)	0.47	0.50	0.55	0.61	0.65
<i>of which:</i>					
<i>at ATMs with open access</i>	<i>0.47</i>	<i>0.50</i>	<i>0.55</i>	<i>0.61</i>	<i>0.65</i>
<i>at ATMs with limited access</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Number of ATMs with a giro transfer function	nav	nav	nav	nav	nav
<i>volume of transactions (millions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>value of transactions (EUR billions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<b>Debit function</b>					
Cards with a debit function (thousands)	246.6	249.1	249.7	269.8	313.3
<i>of which:</i>					
<i>retailer cards (thousands)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Number of networks	1	1	1	1	1
Number of terminals	4,438	4,656	5,072	5,534	5,805
Volume of transactions (millions)	6.42	7.65	8.66	10.09	11.54
<i>of which:</i>					
<i>transactions with retailer cards (millions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Value of transactions (EUR billions)	0.43	0.51	0.57	0.66	0.74
<i>of which:</i>					
<i>transactions with retailer cards (EUR billions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<b>Credit function</b>					
Cards with a credit function (thousands)	244.0	256.7	280.1	300.9	311.5
<i>of which:</i>					
<i>retailer cards (thousands)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Number of networks	1	1	1	1	1



Number of terminals	4,263	4,577	5,009	5,423	5,735
Volume of transactions (millions)	10.44	10.49	11.66	12.70	14.00
<i>of which:</i>					
<i>transactions with retailer cards (millions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Value of transactions (EUR billions)	0.73	0.79	0.86	0.88	1.09
<i>of which:</i>					
<i>transactions with retailer cards (EUR billions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<b>Electronic money function</b>					
Cards with an e-money function (thousands)	nap	nap	nap	269.8	313.3
Number of accepting terminals	nap	nap	nap	1,223	2,133
Number of networks	nap	nap	nap	1	1
Number of purchase transactions (millions)	nap	nap	nap	0.26	0.95
Value of purchase transactions (EUR millions)	nap	nap	nap	1.50	2.33
Number of loading transactions (millions)	nap	nap	nap	0.06	0.07
Number of loading terminals	nap	nap	nap	nav	nav
Value of money loaded (EUR millions)	nap	nap	nap	2.52	2.83
Float (EUR millions)	nap	nap	nap	1.02	1.41
<b>Delayed debit cards (charge cards)</b>					
Cards with a delayed debit function (thousands)	nap	nap	nap	nap	nap
Number of terminals	nap	nap	nap	nap	nap
Volume of transactions (millions)	nap	nap	nap	nap	nap
Value of transactions (EUR billions)	nap	nap	nap	nap	nap
<i>Memorandum item:</i>					
Total number of cards in circulation (thousands)	490.6	505.8	529.8	570.7	624.8
<i>of which:</i>					
<i>cards with a combined debit, cash and e-money function (thousands)</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>269.8</i>	<i>313.3</i>
<i>cards with a cheque guarantee function (thousands)</i>	<i>246.6</i>	<i>249.1</i>	<i>249.7</i>	<i>269.8</i>	<i>313.3</i>

**Table 7**

**Payment instructions handled by selected interbank funds transfer systems:  
volume of transactions**  
(millions)

	1996	1997	1998	1999	2000
Multilateral netting system (LIPS-Net)	6.7	7.0	10.5	11.8	12.4
Large-value system (LIPS-Gross)	nap	nap	nap	0.21	0.27
<b>Concentration ratio</b>					
LIPS-Net	nav	nav	nav	88.6	88.2
LIPS-Gross	nap	nap	nap	70.2	67.6

**Table 8**

**Payment instructions handled by selected interbank funds transfer systems:  
value of transactions**  
(EUR billions)

	1996	1997	1998	1999	2000
Multilateral netting system (LIPS-Net)	13.1	12.5	24.9	36.4	43.7
Large-value system (LIPS-GROSS)	nap	nap	nap	2,962	3,827
<b>Concentration ratio</b>					
LIPS-Net	nav	nav	nav	85.1	86.9
LIPS-Gross	nap	nap	nap	64.6	64.7

**Table 9**
**Indicators of the use of various cashless payment instruments:  
volume of transactions**  
(millions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques	nav	0.19	0.13	0.09	0.06
<i>of which:</i>					
<i>face-to-face</i>	nav	0.19	0.13	0.09	0.06
<i>via PC or other terminal</i>	nap	nap	nap	nap	nap
<i>teleshopping</i>	nap	nap	nap	nap	nap
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Payments by debit card	6.42	7.65	8.66	10.09	11.54
<i>of which:</i>					
<i>face-to-face</i>	nap	nap	nap	nap	nap
<i>via PC or other terminal</i>	6.42	7.65	8.66	10.09	11.54
<i>teleshopping</i>	nap	nap	nap	nap	nap
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Payments by credit card	10.44	10.49	11.66	12.70	14.00
<i>of which:</i>					
<i>face-to-face</i>	0.71	0.44	0.34	0.29	0.24
<i>via PC or other terminal</i>	9.73	10.06	11.31	12.41	13.76
<i>teleshopping</i>	nap	nap	nap	nap	nap
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Credit transfers <sup>1)</sup>	nav	nav	9.62	11.05	11.69
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>teleshopping</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Direct debits	1.09	1.32	1.62	2.10	2.69
<i>of which:</i>					
<i>face-to-face</i>	nap	nap	nap	nap	nap
<i>via PC or other terminal</i>	1.09	1.32	1.62	2.10	2.69
<i>teleshopping</i>	nap	nap	nap	nap	nap
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Card-based electronic money	nap	nap	nap	0.26	0.95
Network-based electronic money	nap	nap	nap	nap	nap
<b>Total</b>	<b>17.95</b>	<b>19.65</b>	<b>31.68</b>	<b>36.29</b>	<b>40.93</b>

1) Figures include only interbank credit transfers.

**Table 10**
**Indicators of the use of various cashless payment instruments:  
value of transactions**  
(EUR billions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques	nav	0.02	0.01	0.01	0.01
<i>of which:</i>					
<i>face-to-face</i>	nav	0.02	0.01	0.01	0.01
<i>via PC or other terminal</i>	nap	nap	nap	nap	nap
<i>teleshopping</i>	nap	nap	nap	nap	nap
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Payments by debit card	0.43	0.51	0.57	0.66	0.74
<i>of which:</i>					
<i>face-to-face</i>	nap	nap	nap	nap	nap
<i>via PC or other terminal</i>	0.43	0.51	0.57	0.66	0.74
<i>teleshopping</i>	nap	nap	nap	nap	nap
<i>via mobile phone</i>	nap	nap	nap	nap	nap

Payments by credit card	0.73	0.79	0.86	0.88	1.09
<i>of which:</i>					
<i>face-to-face</i>	0.08	0.07	0.05	0.04	0.04
<i>via PC or other terminal</i>	0.65	0.72	0.81	0.84	1.05
<i>teleshopping</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Credit transfers	nav	nav	21.50	32.80	39.60
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>teleshopping</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Direct debits	0.13	0.15	0.17	0.23	0.32
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal</i>	0.13	0.15	0.17	0.23	0.32
<i>teleshopping</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Card-based electronic money	nav	nav	nav	neg	neg
Network-based electronic money	nav	nav	nav	nav	nav
<b>Total</b>	<b>1.29</b>	<b>1.46</b>	<b>23.12</b>	<b>34.58</b>	<b>41.76</b>

**Table 11a****Instructions handled by trading platforms, clearing houses and securities settlement systems:****volume of transactions**

(millions)

	1996	1997	1998	1999	2000
<b>Trading platforms</b>					
<b>Bourse de Luxembourg</b>					
Total volume of trades	nav	nav	0.10	0.09	0.09
<b>Securities settlement systems</b>					
<b>Clearstream Banking</b>					
Total volume of trades	7.43	9.25	10.08	9.64	12.49

**Table 11b****Instructions handled by trading platforms, clearing houses and securities settlement systems:****market value of transactions**

(EUR billions)

	1996	1997	1998	1999	2000
<b>Trading platforms</b>					
<b>Bourse de Luxembourg</b>					
Total value of trades	2.14	2.21	2.81	2.50	2.82
<b>Securities settlement systems</b>					
<b>Clearstream Banking</b>					
Total value of trades	9.88	10.75	13.70	21.34	nav

**Table 11c****Number of participants in trading platforms, clearing houses and securities settlement systems**

	1996	1997	1998	1999	2000
<b>Trading systems</b>					
<b>Bourse de Luxembourg</b>					
Banks	nav	nav	nav	73	66
Brokers/dealers	nav	nav	nav	33	30
Total	nav	nav	nav	106	96
<b>Securities settlement systems</b>					
Clearstream Banking	2,640	2,795	2,872	2,997	3,290

**Table 11d****Outstanding securities**

(end of year)

	1996	1997	1998	1999	2000
<b>Bourse de Luxembourg</b>					
Value of securities issued (EUR billions)	nav	nav	nav	nav	nav
Number of securities issued	nav	nav	nav	nav	nav
Value of securities registered (EUR billions)	nav	nav	nav	nav	nav
Number of securities registered	11,874	12,860	14,478	15,386	19,690

**Table 11e****Netting ratio in clearing systems**

	1996	1997	1998	1999	2000
Netting ratio for cash over year					
Clearstream Banking	nav	nav	nav	nav	nav
Netting ratio for securities over year					
Clearstream Banking	nav	nav	nav	nav	nav

**Table 12****Participation in SWIFT by domestic institutions**

	1996	1997	1998	1999	2000
Members	28	30	29	22	21
<i>of which: live</i>	27	29	28	21	21
Sub-members	126	125	130	134	134
<i>of which: live</i>	126	125	130	133	134
Participants	1	4	6	17	17
<i>of which: live</i>	1	4	6	17	17
Total users	155	159	165	173	172
<i>of which: live</i>	154	158	164	170	172
<i>Memorandum items:</i>					
Total SWIFT users	5,918	6,372	6,771	6,991	7,293
<i>of which:</i>					
<i>members</i>	3,014	3,070	3,052	2,230	2,307
<i>sub-members</i>	2,500	2,621	2,781	2,825	3,037
<i>participants</i>	404	681	938	1,936	1,949

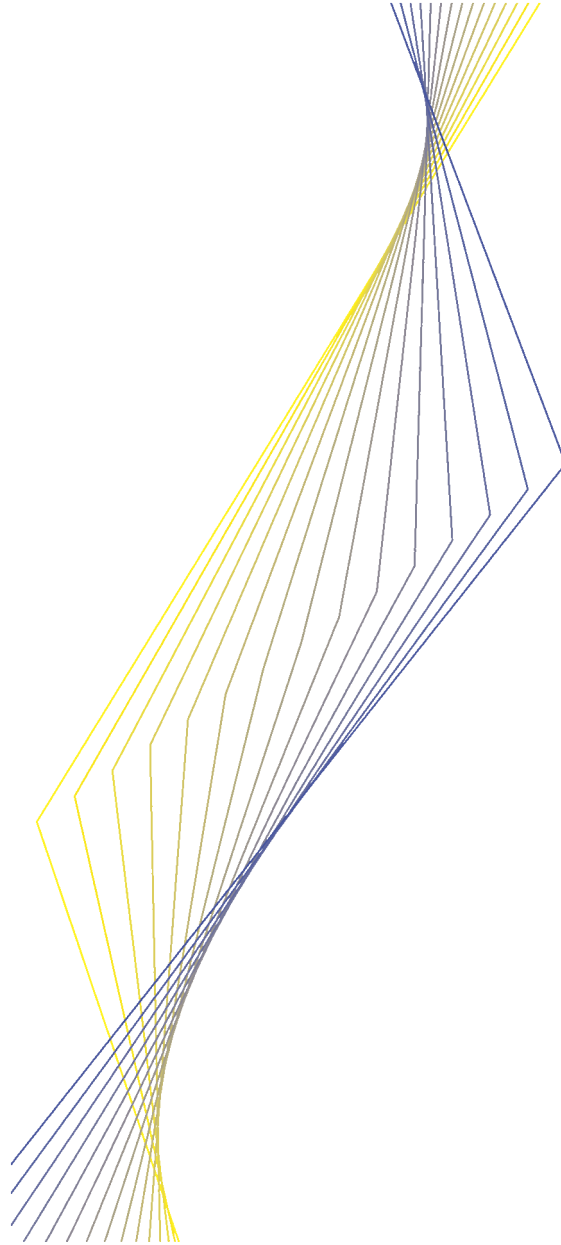
**Table 13****SWIFT message flows to/from domestic users**

	1996	1997	1998	1999	2000
Total messages sent	13,810,105	16,613,659	20,856,244	24,698,190	32,077,338
<i>of which:</i>					
<i>category I</i>	2,578,108	2,706,042	2,914,482	3,456,692	3,855,704
<i>category II</i>	3,974,317	4,567,451	5,043,127	4,526,580	4,893,314
Total messages received	12,881,997	16,280,473	20,743,032	25,881,536	32,737,120
<i>of which:</i>					
<i>category I</i>	1,190,481	1,365,912	1,645,170	2,143,285	2,652,113
<i>category II</i>	1,206,425	1,400,894	1,616,620	1,900,783	2,176,110
Domestic traffic	2,408,283	2,903,884	3,852,394	5,753,545	7,180,233
<i>Memorandum item:</i>					
Global SWIFT traffic	687,785,294	812,117,556	937,039,995	1,058,836,425	1,273,912,754





EUROPEAN CENTRAL BANK



**Netherlands**



**Table 1****Basic statistical data**

	1996	1997	1998	1999	2000
Population (thousands)	15,523	15,607	15,703	15,808	15,920
GDP (ECU/EUR billions) <sup>1)</sup>	324.48	332.65	351.65	373.66	401.09
GDP per capita (ECU/EUR) <sup>1)</sup>	20,903.18	21,314.15	22,393.81	23,637.40	25,194.10
Exchange rate (domestic currency vis-à-vis ECU/EUR):					
end of year <sup>2)</sup>	2.18472	2.22742	2.20371	2.20371	2.20371
average <sup>2)</sup>	2.13973	2.21081	2.21967	2.20371	2.20371

1) Prior to 1999, converted using the NLG/ECU exchange rate. In the following tables, the irrevocable conversion rate to the euro has been used for data prior to 1999.

2) Irrevocable conversion rates were adopted with the introduction of the euro on 1 January 1999.

**Table 2****Settlement media used by non-banks**

(end of year, EUR billions)

	1996	1997	1998	1999	2000
Banknotes and coins	17.38	17.58	17.12	17.32	16.93
Transferable deposits	79.43	94.41	104.17	118.29	131.81
Other	nap	nap	nap	nap	nap
Narrow money supply (M1) <sup>1)</sup>	96.80	111.98	121.30	135.61	148.74
Memorandum items:					
Broad money supply <sup>2)</sup>	254.96	269.40	294.82	319.69	352.84
Transferable deposits in foreign currencies	nav	nav	nav	nav	nav
Outstanding value on e-money schemes	nav	nav	0.03	0.03	0.03
of which:					
on card-based products	nav	nav	0.03	0.03	0.03
on network-based products	nap	nap	nap	nap	nap

1) M1 includes transferable deposits in foreign currencies.

2) Composition of broad money supply is as follows: currency in circulation + transferable deposits + deposits with agreed maturity up to two years + deposits redeemable at notice up to three months.

**Table 3****Settlement media used by banks**

(end of year, EUR billions)

	1996	1997	1998	1999	2000
Transferable balances held at central bank <sup>1)</sup>	0.03	2.78	7.79	7.30	9.33
of which:					
required reserves <sup>2)</sup>	nap	2.77	7.78	9.95	11.23
free reserves	0.03	0.01	0.01	-2.64	-1.90
Transferable balances held at other banks <sup>3)</sup>	1.41	1.08	nav	nav	nav
Memorandum item:					
Institutions' borrowing from central bank <sup>4)</sup>	7.25	5.12	8.45	0.91	0.91

1) Does not include institutions' borrowing from the central bank.

2) Required reserves over the period end-December/end-January.

3) Data for 1998 on transferable deposits at other institutions are not available owing to a change in reporting to De Nederlandsche Bank.

4) Until 1998: special loans and advances. From 1999 onwards: marginal lending facility.



**Table 4**  
**Banknotes and coins**

(end of year, total value, billions)

	1996		1997		1998		1999		2000	
	EUR	NLG	EUR	NLG	EUR	NLG	EUR	NLG	EUR	NLG
Total banknotes issued	0.00	38.96	0.00	39.34	0.00	38.10	0.00	39.04	0.00	38.42
<i>of which:</i>										
<i>NLG 1,000</i>	0.00	14.39	0.00	14.51	0.00	13.61	0.00	13.71	0.00	13.28
<i>NLG 250</i>	0.00	5.39	0.00	5.31	0.00	5.00	0.00	4.86	0.00	4.53
<i>NLG 100</i>	0.00	14.59	0.00	14.83	0.00	14.80	0.00	15.63	0.00	15.67
<i>NLG 50</i>	0.00	1.71	0.00	1.77	0.00	1.73	0.00	1.76	0.00	1.80
<i>NLG 25</i>	0.00	2.02	0.00	2.03	0.00	2.07	0.00	2.17	0.00	2.22
<i>NLG 10</i>	0.00	0.80	0.00	0.84	0.00	0.84	0.00	0.86	0.00	0.88
<i>NLG 5</i>	0.00	0.05	0.00	0.05	0.00	0.05	0.00	0.05	0.00	0.05
Total coins issued	0.00	2.71	0.00	2.76	0.00	2.79	0.00	2.79	0.00	2.85
<i>of which:</i>										
<i>NLG 5</i>	0.00	0.95	0.00	0.97	0.00	0.98	0.00	0.96	0.00	0.98
<i>NLG 2.50</i>	0.00	0.48	0.00	0.48	0.00	0.48	0.00	0.48	0.00	0.48
<i>NLG 1.00</i>	0.00	0.69	0.00	0.70	0.00	0.71	0.00	0.72	0.00	0.75
<i>NLG 0.25</i>	0.00	0.30	0.00	0.32	0.00	0.33	0.00	0.33	0.00	0.34
<i>NLG 0.10</i>	0.00	0.21	0.00	0.21	0.00	0.21	0.00	0.22	0.00	0.23
<i>NLG 0.05</i>	0.00	0.08	0.00	0.08	0.00	0.08	0.00	0.08	0.00	0.08
Total banknotes and coins issued	0.00	41.67	0.00	42.09	0.00	40.89	0.00	41.83	0.00	41.28
Banknotes and coins held by credit institutions	0.00	3.38	0.00	3.36	0.00	3.15	0.00	3.67	0.00	3.97
Banknotes and coins in circulation outside credit institutions	0.00	38.29	0.00	38.73	0.00	37.73	0.00	38.16	0.00	37.31

**Table 5**  
**Institutional framework**

(end of 2000)

Categories	Number of institutions	Number of branches	Number of accounts (thousands)	Number of internet-linked accounts	Value of accounts (EUR billions)
Central bank	1	4	nap	nap	nap
Credit institutions <sup>1)</sup>	113	3,790	22,100	nav	131.8
Postal institution	nap	2,188	nap	nap	nap
Total	114	5,982	22,100	nav	131.8
<i>of which:</i>					
<i>virtual institutions</i>	nap	nap	nap	nap	nap
Branches of foreign banks	35	nap	nav	nav	nav
<i>of which:</i>					
<i>EU-based</i>	25	nap	nav	nav	nav

1) The postal institution (Postbank) is now formally considered as a credit institution. It still uses Post Offices as branches. All data on credit institutions include the Postbank, except for the number of branches.

**Table 6**  
**Payment card functions and accepting devices**

(end of year)

	1996	1997	1998	1999	2000
<b>Cash function</b>					
Cards with a cash function (thousands)	20,400	23,500	24,000	25,000	25,400
Number of networks	2	2	1	1	1
Number of ATMs with a cash dispensing function	6,150	6,397	6,568	6,673	6,921
<i>of which:</i>					
<i>open access</i>	nap	nap	6,568	6,673	6,921
<i>limited access</i>	6,150	6,397	nap	nap	nap
Volume of transactions (millions)	400	404	425	450	470
<i>of which:</i>					
<i>at ATMs with open access</i>	nap	nap	425	450	470
<i>at ATMs with limited access</i>	400	404	nap	nap	nap
Value of transactions (EUR billions)	34.1	34.3	36.7	39.6	40.7
<i>of which:</i>					
<i>at ATMs with open access</i>	nap	nap	36.7	39.6	40.7
<i>at ATMs with limited access</i>	34.1	34.3	nap	nap	nap
Number of ATMs with a giro transfer function	nap	nap	nap	nap	nap
<i>volume of transactions (millions)</i>	nap	nap	nap	nap	nap
<i>value of transactions (EUR billions)</i>	nap	nap	nap	nap	nap
<b>Debit function</b>					
Cards with a debit function (thousands)	18,460	19,700	19,900	20,600	20,900
<i>of which:</i>					
<i>retailer cards (thousands)</i>	nav	nav	nav	nav	nav
Number of networks	2	2	1	1	1
Number of terminals	96,044	120,106	134,000	145,575	155,620
Volume of transactions (millions)	370.9	485.5	595.0	700.3	801.5
<i>of which:</i>					
<i>transactions with retailer cards (millions)</i>	nav	nav	nav	nav	nav
Value of transactions (EUR billions)	16.0	21.0	25.8	32.0	37.3
<i>of which:</i>					
<i>transactions with retailer cards (EUR billions)</i>	nav	nav	nav	nav	nav
<b>Credit function</b>					
Cards with a credit function (thousands)	nav	nav	nav	nav	nav

Netherlands

of which:

<i>retailer cards (thousands)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Number of networks	1	1	1	1	1
Number of terminals	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Volume of transactions (millions)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>

of which:

<i>transactions with retailer cards (millions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Value of transactions (EUR billions)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>

of which:

<i>transactions with retailer cards (EUR billions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
--	------------	------------	------------	------------	------------

**Electronic money function**

Cards with an e-money function (thousands)	1,400	9,500	17,900	20,100	20,800
Number of accepting terminals	48,000	105,401	141,916	145,000	190,000
Number of networks	2	2	2	2	2
Number of purchase transactions (millions)	<i>nav</i>	<i>nav</i>	17	22	25
Value of purchase transactions (EUR billions) <sup>1)</sup>	<i>nav</i>	<i>nav</i>	0.1	0.1	0.1
Number of loading transactions (millions)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Number of loading terminals <sup>2)</sup>	<i>nav</i>	6,725	7,015	7,086	7,200
Value of money loaded (EUR billions)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Float (EUR billions)	<i>nav</i>	<i>nav</i>	0.0	0.0	0.0

**Delayed debit cards (charge cards)**

Cards with a delayed debit function (thousands) <sup>3)</sup>	1,900	3,800	4,100	4,400	4,500
Number of terminals	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Volume of transactions (millions)	43.9	48.3	48.9	53.1	57.1
Value of transactions (EUR billions)	4.0	4.5	4.4	5.0	6.0

*Memorandum item:*

Total number of cards in circulation (thousands)	20,400	23,500	24,000	25,000	25,400
<i>of which:</i>					
<i>cards with a combined debit, cash and e-money function (thousands)</i>	<i>1,400</i>	<i>9,500</i>	<i>17,900</i>	<i>20,100</i>	<i>20,800</i>
<i>cards with a cheque guarantee function (thousands)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>

1) Estimate.

2) Excludes about 20,000 public phones where the electronic money cards provided by the Postbank can also be loaded.

3) Includes cards with a credit function.

**Table 7**  
**Payment instructions handled by selected interbank funds transfer systems:**  
**volume of transactions**  
(millions)

	1996	1997	1998	1999	2000
<b>Interpay</b>	<b>1,589</b>	<b>1,783</b>	<b>2,012</b>	<b>2,153</b>	<b>2,328</b>
<i>of which:</i>					
<i>cheques</i>	51	40	29	17	9
<i>other</i>	1,538	1,743	1,983	2,136	2,320
<b>Top</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>3</b>	<b>4</b>
<b>Concentration ratio</b>					
Interpay	96%	96%	96%	96%	93%
Top	<i>nav</i>	<i>nav</i>	72%	62%	60%

**Table 8**

**Payment instructions handled by selected interbank funds transfer systems:  
value of transactions**  
(EUR billions)

	1996	1997	1998	1999	2000
<b>Interpay</b>	<b>1,053</b>	<b>1,144</b>	<b>1,238</b>	<b>1,345</b>	<b>1,458</b>
<i>of which:</i>					
<i>cheques</i>	4	3	2	1	1
<i>other</i>	1,049	1,141	1,236	1,343	1,457
<b>Top</b>	<b>10,262</b>	<b>12,567</b>	<b>15,255</b>	<b>15,385</b>	<b>18,366</b>
<b>Concentration ratio</b>					
Interpay	0.92	0.92	0.92	0.92	0.92
Top	nav	nav	0.65	0.46	0.46

**Table 9**

**Indicators of the use of various cashless payment instruments:  
volume of transactions**  
(millions)

	1996	1997	1998	1999	2000
<b>Instruments <sup>1)</sup></b>					
Cheques	84.3	64.9	46.6	26.7	14.2
<i>of which:</i>					
<i>face-to-face</i>	84.3	64.9	46.6	26.7	14.2
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Payments by debit card	370.9	485.5	595.0	700.3	801.5
<i>of which:</i>					
<i>face-to-face</i>	370.9	485.5	595.0	700.3	801.5
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Payments by credit card <sup>2)</sup>	43.9	48.3	48.9	53.1	57.1
<i>of which:</i>					
<i>face-to-face</i>	43.9	48.3	48.9	53.1	57.1
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Credit transfers	1,033.5	1,053.1	1,075.5	1,086.2	1,140.4
<i>of which:</i>					
<i>face-to-face</i>	neg	neg	neg	neg	neg
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Direct debits	591.9	639.4	699.8	759.6	818.4
<i>of which:</i>					
<i>face-to-face</i>	neg	neg	neg	neg	neg
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Card-based electronic money	nav	nav	17.0	22.0	25.0
Network-based electronic money	nav	nav	nav	nav	nav
<b>Total</b>	<b>2,124.5</b>	<b>2,291.2</b>	<b>2,482.8</b>	<b>2,647.9</b>	<b>2,856.5</b>

1) Excludes items initiated by banks; these data are not available.

2) Includes cards with a delayed debit function.

**Table 10**
**Indicators of the use of various cashless payment instruments:  
value of transactions**  
(EUR billions)

	1996	1997	1998	1999	2000
<b>Instruments</b> <sup>1)</sup>					
Cheques	6	5	3	2	2
<i>of which:</i>					
<i>face-to-face</i>	6	5	3	2	2
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Payments by debit card	16	21	26	32	37
<i>of which:</i>					
<i>face-to-face</i>	16	21	26	32	37
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Payments by credit card <sup>2)</sup>	4	5	4	5	6
<i>of which:</i>					
<i>face-to-face</i>	4	5	4	5	6
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Credit transfers	1,903	2,186	2,420	2,550	2,974
<i>of which:</i>					
<i>face-to-face</i>	neg	neg	neg	neg	neg
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Direct debits	103	111	121	133	152
<i>of which:</i>					
<i>face-to-face</i>	neg	neg	neg	neg	neg
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Card-based electronic money	nav	nav	0.064	0.068	0.073
Network-based electronic money	nav	nav	nav	nav	nav
<b>Total</b>	<b>2,032</b>	<b>2,327</b>	<b>2,575</b>	<b>2,723</b>	<b>3,171</b>

1) Excludes items initiated by banks; these data are not available.

2) Includes cards with a delayed debit function.

**Table 11a**
**Instructions handled by trading platforms, clearing houses and securities settlement systems:  
volume of transactions**  
(thousands)

	1996	1997	1998	1999	2000
<b>Trading platforms</b>					
Euronext	nav	nav	nav	nav	nav
<b>Clearing houses</b>					
Euronext Amsterdam Effectenclearing	2,500	3,998	6,095	7,752	12,278
Euronext Amsterdam Optieclearing	26,975	46,166	61,447	46,603	58,355
<b>Securities settlement system</b>					
Necigef	1,325	1,685	2,061	2,357	3,170
<i>of which:</i>					
<i>deliveries against payment</i>	286	529	764	982	1,435
<i>free transfers</i>	1,039	1,156	1,297	1,375	1,735

**Table 11b****Instructions handled by trading platforms, clearing houses and securities settlement systems:  
market value of transactions**

(EUR billions)

	1996	1997	1998	1999	2000
<b>Trading platforms</b>					
Euronext Amsterdam	nav	nav	nav	nav	nav
<b>Clearing houses</b>					
Euronext Amsterdam Effectenclearing	446	502	633	749	898
Euronext Amsterdam Optieclearing	18	51	74	54	66
<b>Securities settlement system</b>					
Necigef	134	258	420	619	933
<i>of which:</i>					
<i>deliveries against payment</i>	134	258	420	619	933
<i>free transfers</i>	nav	nav	nav	nav	nav

**Table 11c****Number of participants in trading platforms, clearing houses and securities settlement systems**

	1996	1997	1998	1999	2000
<b>Trading systems</b>					
Euronext Amsterdam Effectenbeurs					
Banks	nav	nav	nav	68	80
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	36	33
<i>foreign</i>	nav	nav	nav	32	47
Brokers/dealers	nav	nav	nav	72	198
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	42	172
<i>foreign</i>	nav	nav	nav	30	26
Others	nav	nav	nav	3	12
Total	nav	nav	nav	143	290
Euronext Amsterdam Optiebeurs					
Banks	nav	nav	nav	48	52
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	37	28
<i>foreign</i>	nav	nav	nav	11	24
Brokers/dealers	nav	nav	nav	112	192
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	109	164
<i>foreign</i>	nav	nav	nav	3	28
Others	nav	nav	nav	66	0
Total	nav	nav	nav	226	244
<b>Clearing systems</b>					
Euronext Amsterdam Effectenclearing					
Banks	nav	nav	nav	29	24
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	27	19
<i>foreign</i>	nav	nav	nav	2	5
Brokers/dealers	nav	nav	nav	5	1
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	4	1
<i>foreign</i>	nav	nav	nav	1	0
Others	nav	nav	nav	1	0
Total	nav	nav	nav	35	25
Euronext Amsterdam Optieclearing					
Banks	nav	nav	nav	12	11
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	9	8

## Netherlands

<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	3	3
Brokers/dealers	<i>nav</i>	<i>nav</i>	<i>nav</i>	2	1
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	1	1
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	1	0
Others	<i>nav</i>	<i>nav</i>	<i>nav</i>	1	0
Total	<i>nav</i>	<i>nav</i>	<i>nav</i>	15	12
<b>Securities settlement system</b>					
Necigef					
Banks	<i>nav</i>	<i>nav</i>	<i>nav</i>	55	44
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	49	30
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	6	14
Brokers/dealers	<i>nav</i>	<i>nav</i>	<i>nav</i>	3	1
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	3	1
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	0	0
Others	<i>nav</i>	<i>nav</i>	<i>nav</i>	9	16
Total	<i>nav</i>	<i>nav</i>	<i>nav</i>	67	61

**Table 11d****Outstanding securities**

(end of year)

	1996	1997	1998	1999	2000
<b>Euronext Amsterdam Effectenbeurs</b>					
Value of stocks listed (EUR billions)	358	506	603	812	782
Value of bonds listed (EUR billions)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	265
Number of stocks listed	618	651	800	972	754
Number of bonds listed	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	1,080
<b>Euronext Amsterdam Optiebeurs</b>					
Value of outstanding contracts (EUR billions)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Number of options listed	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	64
<b>Necigef</b>					
Nominal values registered (EUR billions)	214	228	253	270	244
Number of securities registered	1,239	1,298	1,846	2,266	3,498

**Table 11e****Netting ratio in clearing systems**

	1996	1997	1998	1999	2000
<b>Euronext Amsterdam Effectenclearing</b>					
Netting ratio for cash over the year	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Netting ratios for securities over the year	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<b>Euronext Amsterdam Optieclearing</b>					
Netting ratio for cash over the year	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Netting ratios for securities over the year	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>

**Table 12****Participation in SWIFT by domestic institutions**

	1996	1997	1998	1999	2000
Members	29	30	28	23	25
<i>of which live</i>	28	29	27	23	25
Sub-members	34	35	37	41	40
<i>of which live</i>	34	32	36	39	39
Participants	3	5	9	19	25
<i>of which live</i>	3	4	9	17	24
Total users	66	70	74	83	90

<i>of which live</i>	65	65	72	79	88
<i>Memorandum items:</i>					
Total SWIFT users	5,918	6,372	6,771	6,991	7,293
members	3,014	3,070	3,052	2,230	2,307
sub-members	2,500	2,621	2,781	2,825	3,037
participants	404	681	938	1,936	1,949

**Table 13**  
**SWIFT message flows to/from domestic users**

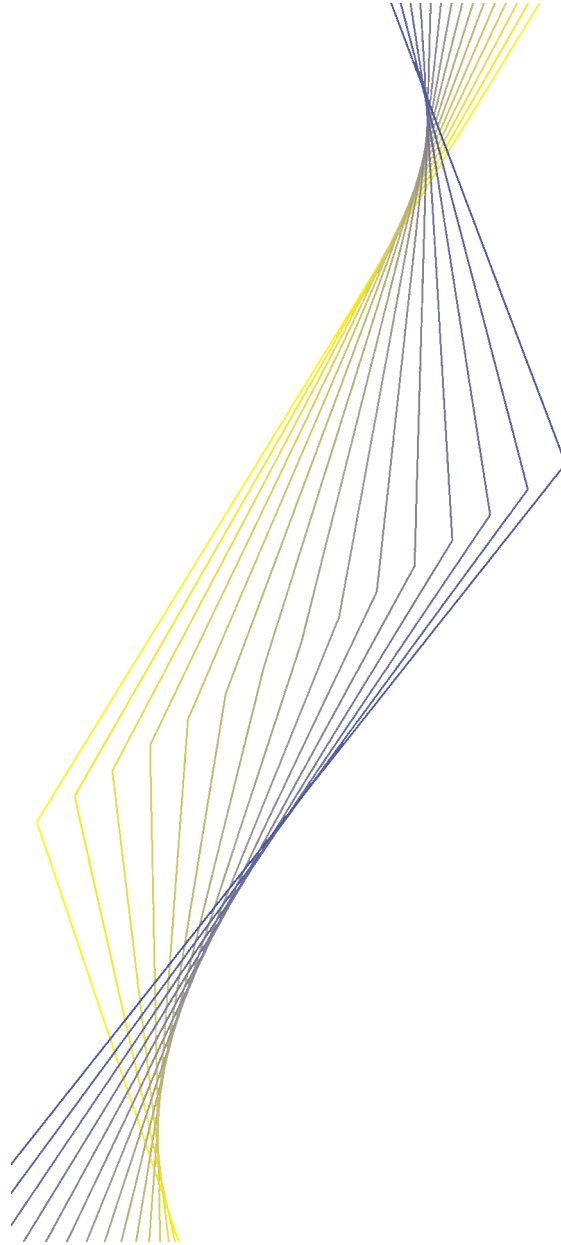
	1996	1997	1998	1999	2000
Total messages sent	18,667,326	21,967,507	26,868,470	36,397,480	54,030,456
<i>of which:</i>					
<i>category I</i>	7,032,141	7,544,714	8,398,068	9,908,769	11,497,895
<i>category II</i>	3,420,058	3,951,510	4,500,328	4,752,522	5,199,292
Total messages received	17,802,379	20,199,570	23,965,593	32,988,955	44,647,913
<i>of which:</i>					
<i>category I</i>	5,726,242	6,205,747	6,775,293	8,059,671	9,169,236
<i>category II</i>	2,362,906	2,602,689	2,856,930	3,180,250	3,453,876
Domestic traffic	2,052,952	2,456,699	3,051,321	7,061,953	12,773,787
<i>Memorandum item:</i>					
Global SWIFT traffic	687,785,294	812,117,556	941,235,088	1,058,836,425	1,273,912,754







EUROPEAN CENTRAL BANK



**Austria**



**Table 1****Basic statistical data**

	1996	1997	1998	1999	2000
Population (thousands)	8,059	8,072	8,079	8,092	8,110
GDP (ECU/EUR billions) <sup>1)</sup>	182.4	181.6	188.7	196.7	204.8
GDP per capita (ECU/EUR) <sup>1)</sup>	22,628	22,502	23,351	24,303	25,258
Exchange rate (domestic currency vis-à-vis ECU/EUR):					
end of year <sup>2)</sup>	13.6965	13.9020	13.7603	13.7603	13.7603
average <sup>2)</sup>	13.4345	13.8240	13.8500	13.7603	13.7603

1) Prior to 1999, converted using the ATS/ECU exchange rate.

In the following tables, the irrevocable conversion rate to the euro has been used for data prior to 1999.

2) Irrevocable conversion rates were adopted with the introduction of the euro on 1 January 1999.

**Table 2****Settlement media used by non-banks**

(end of year, EUR billions)

	1996	1997	1998	1999	2000
Banknotes and coins <sup>1)</sup>	10.4	10.6	10.5	11.3	12.1
Transferable deposits <sup>2)</sup>	35.0	34.8	40.9	44.6	45.2
Narrow money supply (M1) <sup>3)</sup>	45.4	45.4	51.4	55.9	57.3
Outstanding value on e-money schemes	neg	0.0024	0.0025	0.0031	0.0040
of which:					
on card-based products	neg	0.0024	0.0025	0.0031	0.0040
on network-based products	neg	neg	neg	neg	neg

1) Adjusted for the banknotes in circulation data for ATS banknotes held by other Eurosystem NCBs in accordance with the Article 52 of the Statute of the ESCB. Commemorative coins are not included in accordance with ECB Regulation 2001/13.

2) Foreign currencies included.

3) National contribution to M1.

**Table 3****Settlement media used by banks**

(end of year, EUR billions)

	1996	1997	1998	1999	2000
Transferable balances held at central bank	4.11	4.19	4.37	3.42	3.75
of which:					
required reserves	4.11	4.19	4.37	3.42	3.75
free reserves	nap	nap	nap	nap	nap
Transferable balances held at other banks <sup>1)</sup>	14.62	15.39	16.36	14.05	15.01
Memorandum item:					
Institutions' borrowing from central bank	0.02	0.06	0.32	5.34	7.24

1) Transferable balances held at other domestic banks.

**Table 4****Banknotes and coins**

(end of year, total value, EUR millions and ATS millions)

	1996		1997		1998		1999		2000	
	EUR	ATS	EUR	ATS	EUR	ATS	EUR	ATS	EUR	ATS
Total banknotes issued (banknotes in circulation)	12,298	169,224	12,436	171,125	12,269	168,823	13,400	184,389	14,033	193,098
<i>of which denomination belongs to the new series:</i>										
5,000/I	3,671	50,508	3,972	54,658	4,128	56,805	4,585	63,094	5,075	69,837
1,000/V	0	0	3,843	52,883	5,361	73,775	6,076	83,612	6,278	86,386
500/IV	0	0	606	8,335	803	11,048	865	11,903	861	11,843
100/VI	978	13,464	991	13,638	993	13,667	1,050	14,454	1,070	14,718
50/IV	167	2,297	167	2,298	169	2,321	174	2,389	177	2,429
20/V	154	2,118	158	2,169	162	2,234	166	2,283	172	2,361
<i>old series:</i>										
1,000/IV	6,281	86,434	2,216	30,492	431	5,932	298	4,105	234	3,226
1,000/III	43	589	41	567	39	543	38	525	37	511
500/III	932	12,822	372	5,123	114	1,565	81	1,113	65	895
500/II	18	244	17	234	16	223	16	215	15	209
100/V	26	352	25	342	24	332	24	324	23	318
50/III	11	158	11	154	11	151	11	147	11	145
20/IV	17	238	17	233	17	228	16	224	16	221
Total coins issued (coins in circulation)	2,424	33,352	2,588	35,616	2,626	36,139	2,657	36,561	2,691	37,033
<i>of which denomination:</i>										
<i>Base metal coins</i>	406	5,591	561	7,721	573	7,886	588	8,092	607	8,350
ATS 50	4	50	8	115	11	156	13	174	14	192
ATS 20	38	518	37	513	37	506	37	515	39	542
ATS 10	214	2,949	218	3,005	221	3,036	226	3,109	232	3,193
ATS 5	139	1,912	143	1,963	146	2,015	150	2,065	155	2,136
ATS 1	109	1,499	112	1,541	115	1,584	119	1,634	122	1,683
ATS 0.50	19	268	20	271	20	275	20	278	21	283
ATS 0.10	21	291	21	295	22	298	22	301	22	305
ATS 0.05	1	13	1	13	1	13	1	13	1	12
ATS 0.02	neg	4	neg	4	neg	4	neg	4	neg	4
ATS 0.01	neg	neg	neg	neg	neg	neg	neg	neg	neg	neg
<i>Gold and silver coins</i>	2,017	27,761	2,027	27,895	2,053	28,253	2,069	28,469	2,084	28,683
<i>Gold coins</i> <sup>1)</sup>	680	9,363	754	10,370	814	11,206	859	11,823	900	12,390
<i>Bimetallic coins</i>	5	67	4	58	4	58	4	57	5	62
<i>of which:</i>										
<i>Silver coins with a gold centre ATS 1,000</i>	4	50	3	42	3	42	3	42	3	41
<i>Silver coins with a gold ring ATS 500</i>	1	17	1	16	1	16	1	16	1	16
<i>Silver coins with a titanium centre ATS 100</i>	0	0	0	0	0	0	0	0	neg	5
<i>Silver coins</i>	1,332	18,331	1,269	17,467	1,235	16,989	1,206	16,589	1,180	16,231
<i>of which:</i>										
ATS 500	719	9,888	681	9,376	662	9,107	646	8,884	631	8,689
ATS 200	2	26	2	26	2	26	2	26	2	26
ATS 100	366	5,032	348	4,793	338	4,651	329	4,533	322	4,429
ATS 50	169	2,319	162	2,234	158	2,180	155	2,134	152	2,089
ATS 25	77	1,066	76	1,039	75	1,026	74	1,012	73	998
Total banknotes and coins issued	14,722	202,576	15,024	206,741	14,895	204,962	16,057	220,950	16,724	230,131
Banknotes and coins held by credit institutions	2,184	30,059	2,372	32,635	2,265	31,163	2,769	38,104	2,638	36,295
Banknotes and coins in circulation outside credit institutions	12,537	172,517	12,653	174,106	12,630	173,799	13,288	182,846	14,087	193,836

1) Bullion coins at values of ATS 2,000, ATS 1,000, ATS 500 and ATS 200 and gold coins at values of ATS 1,000 and ATS 500.

**Table 5**  
**Institutional framework**  
(end of 2000)

Categories	Number of institutions <sup>1)</sup>	Number of branches <sup>2)</sup>	Number of accounts (thousands)	Number of internet-linked accounts	Value of accounts (EUR billions)
Central bank	1	8	0.6	0	5
Credit institutions	921	4,556	6,311.1	nav	nav
Postal institution	1	2,332	nav	nav	nav
Total	923	6,896	nav	nav	nav
<i>of which:</i>					
<i>virtual institutions</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Branches of foreign banks	16	5	nav	nav	nav
<i>of which:</i>					
<i>EU-based</i>	<i>15</i>	<i>3</i>	<i>25.6</i>	<i>nav</i>	<i>0.43</i>

1) All institutions regardless of whether they offer cashless payment services.

2) The head office of an institution is not counted as a branch.

**Table 6**  
**Payment card functions and accepting devices**  
(end of year)

	1996	1997	1998	1999	2000
<b>Cash function</b>					
Cards with a cash function (thousands)	4,890	5,525	6,238	7,034	7,200
Number of networks	nav	nav	nav	nav	nav
Number of ATMs with a cash dispensing function <sup>1)</sup>	3,900	4,300	4,800	5,300	5,900
<i>of which:</i>					
<i>open access</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>limited access</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Volume of transactions (millions)	81.3	87.3	91.5	96.1	101.9
<i>of which:</i>					
<i>at ATMs with open access</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>at ATMs with limited access</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Value of transactions (EUR billions)	11.06	11.62	12.45	13.04	13.50
<i>of which:</i>					
<i>at ATMs with open access</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>at ATMs with limited access</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Number of ATMs with a giro transfer function	nav	nav	nav	nav	nav
<i>volume of transactions (millions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>value of transactions (EUR billions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<b>Debit function</b>					
Cards with a debit function (thousands)	3,566	4,041	4,583	5,915	6,050
<i>of which:</i>					
<i>retailer cards (thousands)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Number of networks	1	1	1	1	1
Number of terminals	5,095	13,331	19,240	28,763	40,170
Volume of transactions (millions)	15.1	24.0	38.8	58.1	80.1
<i>of which:</i>					
<i>transactions with retailer cards (thousands)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Value of transactions (EUR billions)	0.81	1.29	2.00	3.15	4.52

of which:

transactions with retailer cards (EUR billions)      nav      nav      nav      nav      nav

**Credit function** <sup>2)</sup>

Cards with a credit function (thousands) <sup>2)</sup>      1,326      1,478      1,655      1,722      1,874

of which:

retailer cards (thousands)      nav      nav      nav      nav      nav

Number of networks      nav      nav      nav      nav      nav

Number of terminals <sup>1)</sup>      3,500      13,500      16,000      29,000      31,000

Volume of transactions (millions)      19.0      25.2      26.2      28.6      31.5

of which:

transactions with retailer cards (millions)      nav      nav      nav      nav      nav

Value of transactions (EUR billions)      2.42      2.57      2.80      3.15      3.54

of which:

transactions with retailer cards (EUR billions)      nav      nav      nav      nav      nav

**Electronic money function**

Cards with an e-money function (thousands)      3,101      3,400      5,100      5,777      6,496

Number of accepting terminals      3,333      12,756      19,118      29,564      41,585

Number of networks      1      1      1      1      1

Number of purchase transactions (thousands)      87      426      1,161      2,212      3,072

Value of purchase transactions (EUR millions)      1.2      5.7      9.2      11.7      15.2

Number of loading transactions (thousands)      48.3      159.6      227.6      261.7      321.3

Number of loading terminals      1,700      3,495      4,954      5,225      5,162

Value of money loaded (EUR millions)      2.2      8.0      11.2      13.6      17.4

Float (EUR millions)      neg      2.4      2.5      3.1      4.0

**Delayed debit cards (charge cards)** <sup>3)</sup>

Cards with a delayed debit function (thousands)      nav      nav      nav      nav      nav

Number of terminals      nav      nav      nav      nav      nav

Volume of transactions (millions)      nav      nav      nav      nav      nav

Value of transactions (EUR billions)      nav      nav      nav      nav      nav

*Memorandum item:*

Total number of cards in circulation (thousands) <sup>1)</sup>      nav      nav      nav      nav      nav

of which:

cards with a combined debit, cash and e-money function (thousands)      4,662      5,257      5,931      6,888      7,122

cards with a cheque guarantee function (thousands)      4,662      5,257      5,931      6,888      7,122

1) Estimate, rounded figures.

2) Includes delayed debit cards (charge cards).

3) See above "Credit function".

**Table 7**

**Payment instructions handled by selected interbank funds transfer systems:  
volume of transactions**

(millions)

	1996	1997	1998	1999	2000
ARTIS <sup>1)</sup>	nap	0.05	0.11	0.74	1.05
<b>Concentration ratio</b>	<b>nap</b>	<b>nav</b>	<b>44%</b>	<b>75%</b>	<b>69%</b>

1) Only electronically submitted payment orders.

**Table 8****Payment instructions handled by selected interbank funds transfer systems:  
value of transactions**

(EUR billions)

	1996	1997	1998	1999	2000
ARTIS <sup>1)</sup>	nap	493	1,332	3,416	4,424
<b>Concentration ratio</b>	<b>nap</b>	<b>nav</b>	<b>64%</b>	<b>69%</b>	<b>69%</b>

1) Only electronically submitted payment orders.

**Table 9****Indicators of the use of various cashless payment instruments:  
volume of transactions**

(millions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques issued <sup>1)</sup>	28.0	25.8	22.2	15.9	12.0
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Cash withdrawals per card with a cash function	81.3	87.3	91.5	96.1	101.9
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Payments by debit card	15.1	24	38.8	58.1	80.1
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Payments by credit card <sup>2)</sup>	18.97	25.18	26.18	28.62	31.48
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Credit transfers <sup>1)</sup>	462.0	466.0	479.7	466.0	498.8
<i>of which:</i>					
<i>face-to-face</i>	277.0	266.0	270.7	238.0	244.0
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Direct debits <sup>1)</sup>	205.0	218.9	216.8	237.0	268.5
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Card-based electronic money	0.087	0.426	1.161	2.212	3.072



Network-based electronic money	neg	neg	neg	neg	neg
<b>Total</b>	<b>810.5</b>	<b>847.7</b>	<b>876.3</b>	<b>903.9</b>	<b>995.9</b>

1) Excludes items initiated by banks; these data are not available.

2) Includes delayed debit cards (charge cards).

**Table 10**

**Indicators of the use of various cashless payment instruments:**

**value of transactions**

(EUR billions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques issued <sup>1)</sup>	39.7	34.1	35.2	27.5	25.7
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>telebanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Cash withdrawals per card with a cash function	11.06	11.62	12.45	13.04	13.5
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>telebanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Payments by debit card	0.81	1.29	2	3.15	4.52
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>telebanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Payments by credit card <sup>2)</sup>	2.42	2.57	2.80	3.15	3.54
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>telebanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Credit transfers <sup>1)</sup>	803.5	796.3	1,014.4	1,081.6	1,258.7
<i>of which:</i>					
<i>face-to-face</i>	427.1	390.5	495.9	332.1	438.2
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>telebanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Direct debits <sup>1)</sup>	38.2	79.8	134.5	97.8	110.7
<i>of which:</i>					
<i>face-to-face</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>telebanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Card-based electronic money	0.0012	0.0057	0.0092	0.0117	0.0152
Network-based electronic money	neg	neg	neg	neg	neg
<b>Total</b>	<b>895.7</b>	<b>925.7</b>	<b>1,201.4</b>	<b>1,226.3</b>	<b>1,416.6</b>

1) Excludes items initiated by banks; these data are not available.

2) Includes delayed debit cards (charge cards).

**Table 11a**

**Instructions handled by trading platforms, clearing houses and securities settlement systems:  
volume of transactions**

	1996	1997	1998	1999	2000
<b>Trading platforms</b>					
<b>Wiener Börse AG – Cash trading</b>					
Volume of trades	659,830	802,405	889,392	714,728	622,150
<b>Wiener Börse AG – Derivatives Trading</b>					
Volume of trades	109,790	110,216	130,199	71,406	44,895
<b>Securities settlement systems</b>					
<b>Direct Settlement (DS) system of OeKB</b> (settlement of transactions outside the Wiener Börse)					
Volume of settlement instructions	156,673	138,216	154,999	137,506	172,061
<b>"Arrangement" system of OeKB</b> (settlement of transactions on the Wiener Börse)					
Volume of settlement instructions	659,830	1,446,870	1,569,212	1,429,456	873,224
<b>Derivative market of Wiener Börse</b> (clearing and settlement of standardised derivative products) <sup>1)</sup>					
Volume of settlement instructions	109,790	110,216	130,199	71,406	44,895

1) Database: Wiener Börse, Austrian Futures and Options Exchange (ÖTOB) until 1997.  
ÖTOB was merged with the Wiener Börse in December 1997.

**Table 11b**

**Instructions handled by trading platforms, clearing houses and securities settlement systems:  
market value of transactions**  
(EUR millions)

	1996	1997	1998	1999	2000
<b>Trading platforms</b>					
<b>Wiener Börse AG – Cash trading</b>					
Value of trades	17,938	23,603	35,067	22,638	21,555
<b>Wiener Börse AG – Derivatives Trading</b>					
Value of trades	54,016	55,334	44,188	19,417	14,131
<b>Securities settlement systems</b>					
<b>Direct Settlement (DS) system of OeKB</b> (settlement of transactions outside the Wiener Börse) <sup>1)</sup>					
Value of settlement instructions	235,791	149,906	179,768	167,583	115,624
<b>"Arrangement" system of OeKB</b> (settlement of transactions on the Wiener Börse)					
Value of settlement instructions <sup>2)</sup>	17,938	23,603	35,067	22,933	21,555
<b>Derivative market of Wiener Börse</b> (clearing and settlement of standardised derivative products)					
Value of settlement instructions	54,016	55,334	44,188	19,417	14,131

1) Database: central securities depository; free-of-payment transactions are not included.

2) Since 1999 including the unregulated market (Sonstiger Handel).

**Table 11c**

**Number of participants in trading platforms, clearing houses and securities settlement systems**

	1996	1997	1998	1999	2000
<b>Trading platforms</b>					
<b>Wiener Börse AG - Cash trading</b>					
Banks (members)	nav	505	484	437	539
<i>of which:</i>					
<i>domestic</i>	nav	74	78	58	65
<i>foreign</i>	nav	67	67	48	47
	nav	7	11	10	18

## Austria

Broker/dealer	nav	431	406	379	474
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	324	396
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	55	78
<b>Wiener Börse AG - Derivatives Trading</b>	nav	nap	nap	136	207
Banks (members)	nav	nap	nap	17	13
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nap</i>	<i>nap</i>	7	7
<i>foreign</i>	<i>nav</i>	<i>nap</i>	<i>nap</i>	10	6
Broker/dealer	nav	nap	nap	119	194
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nap</i>	<i>nap</i>	95	156
<i>foreign</i>	<i>nav</i>	<i>nap</i>	<i>nap</i>	24	38
<b>Securities settlement systems</b>					
<b>Direct Settlement (DS) system of OeKB</b>	nav	126	117	126	131
Banks	nav	113	104	116	119
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	96	102	102
<i>foreign</i>	<i>nav</i>	<i>nav</i>	8	14	17
Broker/dealer	nav	8	8	4	4
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	0	0	0	0
<i>foreign</i>	<i>nav</i>	8	8	4	4
Foreign CSDs	nav	5	5	6	8
<b>"Arrangement" system of OeKB</b>	nav	70	71	58	63
Banks	nav	67	64	53	58
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	67	63	50	48
<i>foreign</i>	<i>nav</i>	0	1	3	10
Broker/dealer	nav	3	7	5	5
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	3	7	5	5
<i>foreign</i>	<i>nav</i>	0	0	0	0
<b>Derivative market of Wiener Börse</b>	nav	7	7	11	8
Banks	nav	7	7	11	8
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	6	6
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	5	2
Broker/dealer	nav	0	0	0	0
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	0	0	0	0
<i>foreign</i>	<i>nav</i>	0	0	0	0

**Table 11d****Outstanding securities**

(end of year)

	1996	1997	1998	1999	2000
<b>Wiener Börse AG – Cash trading</b>					
Value of stocks listed (EUR billions) <sup>1)</sup>	26	33	29	32	31
Value of other securities listed (EUR billions) <sup>2)</sup>	93	98	105	112	122
Number of stocks listed	123	118	112	113	111
Number of other securities listed	1,656	1,605	1,450	3,385	3,267
<b>Direct Settlement (DS) system of OeKB (settlement of transactions outside the Wiener Börse)</b>					
Value of stocks issued (EUR billions) <sup>3)</sup>	nav	nav	nav	nav	nav

Value of other securities issued (EUR billions) <sup>4)</sup>	93	102	110	127	146
Number of stocks plus other securities issued	4,986	5,107	4,965	5,855	8,832
<b>"Arrangement" system of OeKB (settlement of transactions on the Wiener Börse)</b>					
Value of stocks listed (EUR billions)	26	33	29	32	31
Value of other securities listed (EUR billions)	93	98	105	112	122
Number of stocks listed	123	118	112	113	111
Number of other securities listed	1,656	1,605	1,450	3,385	3,267

1) Market capitalisation of domestic stocks listed on the official and semi-official market.

2) Market capitalisation of bonds listed on the official and semi-official market.

3) Only units (Stück) available. 1999: 1,977,140,102 units; 2000: 4,771,169,332 units.

4) Bonds: nominal value.

**Table 11e**

**Netting ratio in clearing systems**

	1996	1997	1998	1999	2000
<b>Name of system</b>	nap	nap	nap	nap	nap
Netting ratio for cash over year	nap	nap	nap	nap	nap
Netting ratio for securities over year	nap	nap	nap	nap	nap

**Table 12**

**Participation in SWIFT by domestic institutions**

	1996	1997	1998	1999	2000
Members	62	62	62	47	47
<i>of which live</i>	62	62	62	47	47
Sub-members	16	16	17	16	18
<i>of which live</i>	15	16	17	16	18
Participants	0	4	5	22	23
<i>of which live</i>	0	3	4	22	22
Total users	78	82	84	85	88
<i>of which live</i>	77	81	83	85	87
<i>Memorandum items:</i>					
Total SWIFT users	5,918	6,372	6,771	6,991	7,293
<i>members</i>	3,014	3,070	3,052	2,230	2,307
<i>sub-members</i>	2,500	2,621	2,781	2,825	3,037
<i>participants</i>	404	681	938	1,936	1,949

**Table 13**

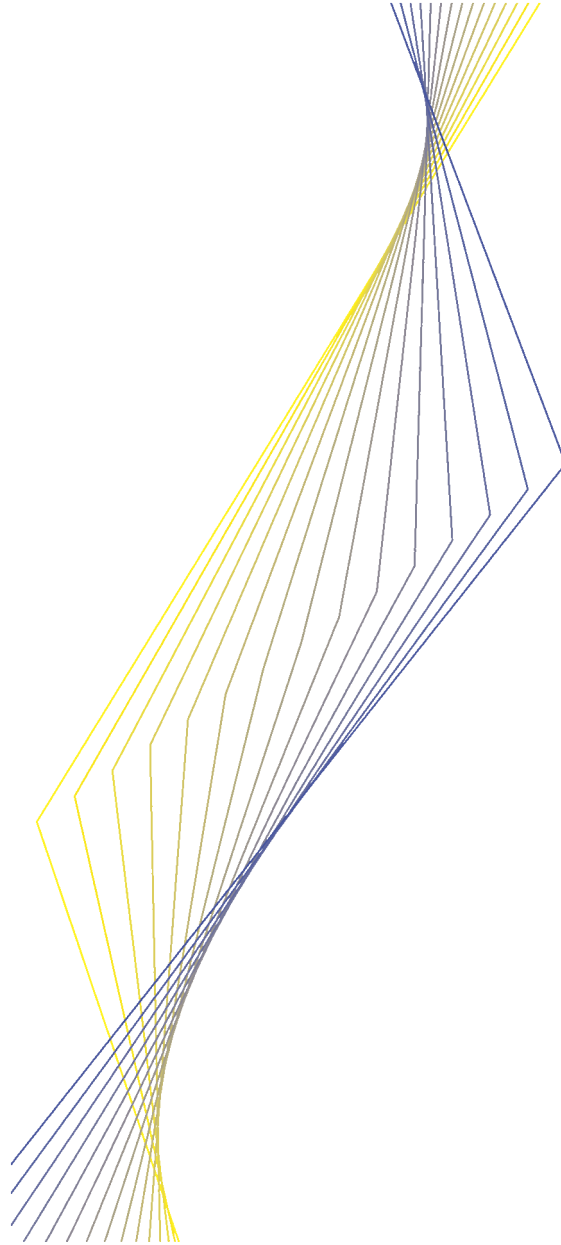
**SWIFT message flows to/from domestic users**

	1996	1997	1998	1999	2000
Total messages sent	13,480,754	14,531,271	15,888,958	16,123,133	18,239,371
<i>of which:</i>					
<i>category I</i>	5,163,626	5,221,236	5,838,867	7,371,589	7,643,028
<i>category II</i>	3,304,533	3,593,009	3,762,443	2,762,383	2,911,576
Total messages received	11,141,807	12,239,259	13,515,128	14,689,810	17,057,021
<i>of which:</i>					
<i>category I</i>	4,195,693	4,420,556	4,850,305	6,131,220	6,248,076
<i>category II</i>	2,039,355	2,192,675	2,447,766	2,000,524	2,195,954
Domestic traffic	2,945,226	3,269,698	3,826,572	3,925,717	4,342,000
<i>Memorandum item:</i>					
Global SWIFT traffic	687,785,294	812,117,556	941,235,088	1,058,836,425	1,273,912,754





EUROPEAN CENTRAL BANK



**Portugal**



**Table 1**  
**Basic statistical data**

	1996	1997	1998	1999	2000
Population (thousands)	9,927	9,941	9,969	9,989	10,004
GDP (ECU/EUR billions) <sup>1)</sup>	88.6	94.2	100.7	108.2	115.3
GDP per capita (ECU/EUR) <sup>1)</sup>	8,923	9,475	10,103	10,833	11,521
Exchange rate (domestic currency vis-à-vis ECU/EUR):					
<i>end of year</i> <sup>2)</sup>	195.968	202.137	200.482	200.482	200.482
<i>average</i> <sup>2)</sup>	195.761	198.589	201.695	200.482	200.482

1) Prior to 1999, converted using the the PTE/ECU exchange rate. In the following tables, the irrevocable conversion rate to the euro has been used for data prior to 1999.

2) Irrevocable conversion rates were adopted with the introduction of the euro on 1 January 1999.

**Table 2**  
**Settlement media used by non-banks**

(end of year, EUR billions)

	1996	1997	1998	1999	2000
Banknotes and coins	4.3	3.8	4.6	5.6	5.4
Transferable deposits	23.9	28.2	32.7	38.3	41.4
<i>of which held by:</i>					
<i>households</i>	13.9	16.0	18.7	22.0	23.1
<i>corporate sector</i>	7.1	9.0	9.8	11.2	12.7
<i>other</i>	2.9	3.2	4.2	5.2	5.6
Other	0.4	0.4	0.6	1.3	0.7
Narrow money supply (M1)	28.6	32.5	37.9	45.2	47.6
Transferable deposits in foreign currencies	1.0	2.3	3.3	4.1	3.3
Outstanding value on electronic money schemes	0.002	0.002	0.002	0.001	0.001
<i>of which:</i>					
<i>on card-based products</i>	0.002	0.002	0.002	0.001	0.0009
<i>on network-based products</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>

**Table 3**  
**Settlement media used by deposit-taking institutions**

(end of year, EUR billions)

	1996	1997	1998	1999	2000
Transferable balances held at central bank <sup>1)</sup>	1.8	1.8	2.6	2.7	3.1
<i>of which:</i>					
<i>required reserves</i>	1.8	1.8	2.5	2.7	3.1
<i>free reserves held at central bank</i>	0.006	0.021	0.002	0.011	0.010
Transferable balances held at other banks	0.1	0.6	1.6	2.3	2.6
<i>Memorandum item:</i>					
Institutions' borrowing from central bank <sup>2)</sup>	1.3	0.4	1.2	2.4	3.3

1) Average data for the last maintenance period of the year.

2) Only liquidity providing operations (end-of-year data).



**Table 4****Banknotes and coins**

(end of year, total value, EUR billions and PTE billions)

	1996		1997		1998		1999		2000	
	EUR	PTE	EUR	PTE	EUR	PTE	EUR	PTE	EUR	PTE
Total banknotes issued	4.67	937.0	4.36	873.5	5.08	1,018.8	6.93	1,389.9	6.20	1,243.3
<i>of which:</i>										
<i>PTE 10,000</i>	1.48	296.4	1.11	223.5	1.46	292.7	2.00	401.4	1.84	368.5
<i>PTE 5,000</i>	2.44	490.1	2.51	504.1	2.85	571.6	3.94	789.6	3.48	697.0
<i>PTE 2,000</i>	0.38	76.7	0.40	80.5	0.40	80.6	0.47	95.2	0.38	77.1
<i>PTE 1,000</i>	0.29	59.1	0.25	49.3	0.29	59.1	0.44	87.8	0.42	84.1
<i>PTE 500</i>	0.07	14.7	0.08	16.1	0.07	14.8	0.08	15.9	0.08	16.6
Total coins issued	0.24	48.6	0.26	52.8	0.31	63.1	0.34	68.3	0.35	71.1
<i>of which:</i>										
<i>PTE 200</i>	0.04	8.8	0.05	9.8	0.07	13.4	0.07	14.6	0.08	15.2
<i>PTE 100</i>	0.07	13.2	0.07	13.7	0.08	15.9	0.09	17.1	0.09	17.7
<i>PTE 50</i>	0.03	5.3	0.03	5.3	0.03	5.6	0.03	6.2	0.03	6.2
<i>PTE 20</i>	0.02	4.0	0.02	4.0	0.02	4.3	0.02	4.7	0.02	4.9
<i>PTE 10</i>	0.01	1.4	0.01	1.5	0.01	1.7	0.01	2.0	0.01	2.0
<i>PTE 5</i>	0.01	1.3	0.01	1.4	0.01	1.8	0.01	2.0	0.01	2.0
<i>PTE 2.5</i>	0.01	1.2	0.01	1.2	0.01	1.2	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>PTE 1</i>	0.00	0.4	0.00	0.4	0.00	0.4	0.00	0.4	0.00	0.5
<i>PTE 0.5</i>	0.00	0.1	0.00	0.1	0.00	0.1	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>Commemorative</i>	0.06	12.9	0.08	15.4	0.09	18.7	0.11	21.3	0.11	22.7
Total banknotes and coins issued	4.92	985.6	4.62	926.3	5.40	1,081.9	7.27	1,458.2	6.56	1,314.4
Banknotes and coins held by credit institutions	0.64	128.3	0.80	161.1	0.83	167.1	1.65	330.4	1.16	231.9
Banknotes and coins in circulation outside credit institutions	4.28	857.5	3.82	765.2	4.56	914.8	5.62	1,126.7	5.39	1,081.0

**Table 5**  
**Institutional framework**  
(end of 2000)

Categories	Number of institutions	Number of branches	Number of accounts (thousands)	Number of internet-linked accounts (thousands) <sup>1)</sup>	Value of accounts (EUR billions)
Central bank	1	11	nap	nap	nap
Commercial banks	67	4,894	19,547.1	314.4	39.8
Mutual agricultural credit banks and savings banks	153	599	1,691.3	nap	1.6
Post office	1	794	20.2	nap	0.005
Treasury	1	1	nap	nap	nap
<b>TOTAL</b>	<b>223</b>	<b>6,299</b>	<b>21,258.6</b>	<b>314.4</b>	<b>41.4</b>
<i>of which virtual institutions</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Branches of foreign banks	24	98	38.0	0.2	0.52
<i>of which EU-based</i>	<i>22</i>	<i>96</i>	<i>36.0</i>	<i>0.2</i>	<i>0.51</i>

1) Number of accounts relating to internet services (credit transfers, payment of bills etc. carried out via the internet).

**Table 6**  
**Payment card functions and accepting devices**  
(end of year)

	1996	1997	1998	1999	2000
<b>Cash function</b>					
Cards with a cash function (thousands)	7,024	8,132	9,315	10,824	11,756
Number of ATMs with a cash dispensing function	5,366	6,280	7,081	8,506	9,701
open access	4,422	5,153	5,869	6,831	7,864
limited access	944	1,127	1,212	1,675	1,837
Volume of transactions (millions) <sup>1)</sup>	180.9	216.7	260.3	289.0	323.2
at ATMs with open access	160.7	193.1	193.1	255.5	290.4
at ATMs with limited access	20.2	23.6	31.0	33.5	32.7
<i>of which cash withdrawals</i>	<i>169.0</i>	<i>195.0</i>	<i>223.0</i>	<i>252.0</i>	<i>274.6</i>
Value of transactions (EUR billions) <sup>1)</sup>	10.7	15.0	17.4	20.3	22.8
at ATMs with open access	8.6	12.6	12.6	14.1	16.0
at ATMs with limited access	2.1	2.4	4.9	6.2	6.8
<i>of which cash withdrawals</i>	<i>9.5</i>	<i>10.9</i>	<i>12.6</i>	<i>14.6</i>	<i>15.9</i>
Number of ATMs with a giro transfer function	nav	nav	nav	nav	nav
Volume of transactions	nav	nav	nav	nav	nav
Value of transactions	nav	nav	nav	nav	nav
<b>Debit function</b>					
Cards with a debit function (thousands)	7,024	8,132	9,315	10,824	11,756
<i>of which:</i>					
<i>retailer cards</i>	nap	nap	nap	nap	nap
Number of terminals	49,533	59,899	70,549	81,017	91,285
Volume of transactions (millions) <sup>2)</sup>	189.1	235.4	296.9	370.2	452.7
<i>of which:</i>					
<i>transactions with retailer cards</i>	nap	nap	nap	nap	nap
Value of transactions (EUR billions) <sup>2)</sup>	5.0	6.2	8.4	10.3	13.0
<i>of which:</i>					
<i>transactions with retailer cards</i>	nap	nap	nap	nap	nap
<b>Credit function</b>					
Cards with a credit function (thousands)	1,574	2,053	2,603	2,938	3,032
of which retailer cards	137	235	296	364	460
Number of terminals	49,533	59,899	70,549	81,017	91,285
Volume of transactions (millions) <sup>3)</sup>	52.3	84.0	118.5	157.7	197.7

Portugal

of which:

transactions with retailer cards	5.8	9.0	12.0	14.6	17.8
Value of transactions (EUR billions) <sup>3)</sup>	2.3	3.3	4.7	6.1	7.7

of which:

transactions with retailer cards	0.2	0.3	0.3	0.4	0.6
----------------------------------	-----	-----	-----	-----	-----

**Electronic money function**

Cards with an e-money function (thousands) <sup>4)</sup>	299	384	411	3,400	3,315
Number of terminals accepting the card	55,646	63,703	72,429	83,098	129,184
Number of purchase transactions (thousands)	6,235	5,913	5,128	4,958	4,791
Value of purchase transactions (EUR millions)	11.5	10.9	9.5	6.0	4.6
Number of loading transactions (thousands)	777.0	683.0	572.0	462.0	378.0
Value of money loaded (EUR millions)	11.6	10.9	9.1	6.1	4.5
Float (EUR millions)	2.0	2.1	1.9	1.2	0.9

Memorandum item:

Total number of cards in circulation (thousands)	8,252	9,717	11,139	16,064	16,957
--	-------	-------	--------	--------	--------

of which:

cards with a credit function	791	966	1,117	1,460	1,393
------------------------------	-----	-----	-------	-------	-------

cards with a debit function	6,379	7,280	8,421	9,665	10,560
-----------------------------	-------	-------	-------	-------	--------

cards with a combined credit and debit function	646	852	894	1,159	1,197
---	-----	-----	-----	-------	-------

cards with combined debit and

e-money function	nav	nav	nav	16	31
------------------	-----	-----	-----	----	----

cards with an e-money function <sup>4)</sup>	299	384	411	3,400	3,315
--	-----	-----	-----	-------	-------

cards with a credit function for internet

payments	nav	nav	nav	nav	1
----------	-----	-----	-----	-----	---

cards with a credit function issued by retailers	137	235	296	364	460
--	-----	-----	-----	-----	-----

cards with a cheque guarantee function	654	529	326	411	177
--	-----	-----	-----	-----	-----

1) Includes all transactions at ATM terminals, e.g. cash withdrawals, payment of utility bills, giro transfers and deposits.

2) Also including credit transactions.

3) Also including debit transactions.

4) Data before 1999 show number of cards which had been loaded at least once.

**Table 7**

**Payment instructions handled by selected interbank funds transfer systems:  
volume of transactions<sup>1)</sup>**

(millions)

	1996	1997	1998	1999	2000
<b>GROSS SETTLEMENT SYSTEMS</b>					
SPGT <sup>2)</sup>	0.4	0.5	0.5	0.5	0.5
SLOD	0.03	0.03	0.03	0.02	0.02
<b>NET SETTLEMENT SYSTEMS</b>					
SICOI	576.6	668.6	767.6	871.7	971.1
<b>Automated Clearing</b>					
CHEQUES	227.5	234.3	244.2	247.0	240.4
TEI	11.9	13.6	16.8	19.3	22.4
MULTIBANCO	332.1	414.6	503.5	601.7	702.9
EFEITOS (Bills of exchange)	5.1	6.1	3.1	3.7	5.4
<b>Traditional clearing<sup>3)</sup></b>	<b>10.4</b>	<b>7.6</b>	<b>3.0</b>	<b>nav</b>	<b>nav</b>
CHEQUES	6.6	5.5	2.3	nav	nav
Other <sup>4)</sup>	3.8	2.1	0.7	nav	nav
<b>Concentration ratio<sup>5)</sup></b>					
CHEQUES	nav	nav	nav	54.2%	52.5%
TEI	nav	nav	nav	56.8%	68.5%
MULTIBANCO	nav	nav	nav	nav	nav
EFEITOS (Bills of exchange)	nav	nav	nav	47.0%	55.3%

1) The table contains both customer and interbank transactions.

- 2) Received TARGET payments are not included, otherwise the figures would be: 1999 - 0.6; 2000 - 0.7.  
 3) Closed on 30 June 1998.  
 4) Mainly payment transfers.  
 5) Market share of the five largest payment systems service providers; based on the total volume of transactions.

**Table 8****Payment instructions handled by selected interbank funds transfer systems:****value of transactions <sup>1)</sup>**

(EUR billions)

	1996	1997	1998	1999	2000
<b>GROSS SETTLEMENT SYSTEMS</b>					
SPGT <sup>2)</sup>	2,470	3,641	4,540	2,325	2,286
SLOD	41	41	42	38	54
<b>NET SETTLEMENT SYSTEMS</b>					
SICOI	484	341	373	323	349
<b>Automated Clearing</b>					
CHEQUES	249	271	292	250	265
TEI	219	51	58	46	53
MULTIBANCO	13	15	19	23	27
EFEITOS (Bills of exchange)	3	4	4	4	4
<b>Traditional clearing <sup>3)</sup></b>					
CHEQUES	7	6	3	nap	nap
Other <sup>4)</sup>	2	1	0.1	nap	nap
<b>Concentration ratio <sup>5)</sup></b>					
CHEQUES	nav	nav	nav	50.0%	53.1%
TEI	nav	nav	nav	45.8%	65.6%
MULTIBANCO	nav	nav	nav	nav	nav
EFEITOS (Bills of Exchange)	nav	nav	nav	56.6%	56.2%

- 1) The table contains both customer and interbank transactions.  
 2) Received TARGET payments are not included, otherwise the figures would be: 1999 - 3,096; 2000 - 3,120.  
 3) Closed on 30 June 1998.  
 4) Mainly payment transfers.  
 5) Market share of the five largest payment systems service providers; based on the total value of transactions.

**Table 9****Indicators of use of various cashless payment instruments:****volume of transactions <sup>1)</sup>**

(millions)

	1996	1997	1998	1999	2000
Volume of transactions	580.4	643.8	722.0	835.7	945.4
Cheques	261.9	272.7	285.9	283.5	272.9
<i>of which truncated</i>	201.0	217.9	229.9	238.0	231.3
<i>of which:</i>					
<i>face-to-face</i>	261.9	272.7	285.9	283.5	272.9
<i>via PC or other terminal</i>	nap	nap	nap	nap	nap
<i>telebanking</i>	nap	nap	nap	nap	nap
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Payments by debit and credit cards <sup>2)</sup>	196.8	251.7	315.8	392.0	475.9
Payments by debit card <sup>2)</sup>	189.1	235.4	296.9	370.2	452.7
<i>of which:</i>					
<i>face-to-face</i>	189.1	235.4	296.9	370.2	452.7
<i>via PC or other terminal</i>	nap	nap	nap	nap	nap
<i>telebanking</i>	nap	nap	nap	nap	nap
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Payments by credit card <sup>2)</sup>	49.8	78.7	109.8	136.2	171.8
<i>of which:</i>					
<i>face-to-face</i>	49.8	78.7	109.8	136.2	171.8

Portugal

<i>via PC or other terminal</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>telebanking</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>via mobile phone</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Credit transfers <sup>3)</sup>	44.4	38.9	45.1	52.0	72.8
of which:					
<i>face-to-face</i>	44.4	38.9	45.1	52.0	71.4
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	1.0
<i>telebanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	0.4
<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>neg</i>
Direct debits	65.0	67.9	66.1	98.6	113.3
of which:					
<i>face-to-face</i>	65.0	67.9	66.1	98.6	113.3
<i>via PC or other terminal</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>telebanking</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>via mobile phone</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Bills of exchange	6.1	6.7	3.9	4.6	5.6
of which:					
<i>face-to-face</i>	6.1	6.7	3.9	4.6	5.6
<i>via PC or other terminal</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>telebanking</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>via mobile phone</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Card based electronic money	6.2	5.9	5.1	5.0	4.8
Network based electronic money	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>

1) This table contains all customer transactions irrespective of whether they are processed intra- or interbank.

2) This does not include retailer cards before 1997. Some of the card issuers do not provide data on transactions by type of function.

3) Includes items initiated by banks (million transactions): 1996-1999:- *nav*; 2000: 0.5.

**Table 10**

**Indicators of use of various cashless payment instruments:**

**value of transactions <sup>1)</sup>**

(EUR billions)

	1996	1997	1998	1999	2000
Volume of transactions	3,160.1	4,144.0	5,210.4	2,905.1	2,832.5
Cheques	283.2	312.1	339.1	300.7	322.7
<i>of which truncated</i>	36.8	58.2	73.6	90.8	93.2
of which:					
<i>face-to-face</i>	283.2	312.1	339.1	300.7	322.7
<i>via PC or other terminal</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>telebanking</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>via mobile phone</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Payments by debit and credit cards <sup>2)</sup>	5.6	7.1	9.4	11.5	14.2
Payments by debit cards <sup>2)</sup>	5.0	6.2	8.4	10.3	13.0
of which:					
<i>face-to-face</i>	5.0	6.2	8.4	10.3	13.0
<i>via PC or other terminal</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>telebanking</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>via mobile phone</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Payments by credit cards <sup>2)</sup>	2.4	3.4	4.7	5.1	6.4
of which:					
<i>face-to-face</i>	2.4	3.4	4.7	5.1	6.4
<i>via PC or other terminal</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>telebanking</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>via mobile phone</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Credit transfers <sup>3)</sup>	2,842.7	3,793.8	4,830.6	2,559.0	2,460.7
of which:					
<i>face-to-face</i>	2,842.7	3,793.8	4,830.6	2,559.0	2,460.5
<i>via PC or other terminal</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	0.2
<i>telebanking</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>neg</i>

<i>via mobile phone</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>neg</i>
Direct debits	22.2	24.7	23.6	25.7	29.4
of which:					
<i>face-to-face</i>	22.2	24.7	23.6	25.7	29.4
<i>via PC or other terminal</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>teleshopping</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>via mobile phone</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Bills of exchange	6.4	6.4	7.7	8.2	5.5
of which:					
<i>face-to-face</i>	6.4	6.4	7.7	8.2	5.5
<i>via PC or other terminal</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>teleshopping</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>via mobile phone</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Card based electronic money	0.011	0.011	0.010	0.006	0.005
Network based electronic money	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>

1) This table contains all customer transactions irrespective of whether they are processed intra- or interbank.

2) This does not include retailer cards before 1997. Some of the card issuers do not provide data on transactions by type of function.

3) Includes items initiated by banks (EUR billion): 1996-1999: *nav*; 2000: 1,963.

**Table 11a**

**Instructions handled by trading platforms, clearing houses and securities settlement systems:**

**volume of transactions**

(thousands)

	1996	1997	1998	1999	2000
LIST - Lisbon Trading					
Volume of trades	369.6	912.6	2,407.2	2,518.0	4,099.1
SEND (Derivatives market)					
Volume of trades	121.7	1,676.1	4,474.0	3,021.1	5,847.7
INTERBOLSA					
Volume of settlement instructions	717.2	1,787.9	4,773.0	5,174.0	8,652.0
SITEME					
Volume of settlement instructions	3.4	2.1	1.1	0.8	0.7
<i>of which central bank refinancing</i>	3.2	1.7	1.0	0.7	0.4

**Table 11b**

**Instructions handled by trading platforms, clearing houses and securities settlement systems:**

**market value of transactions**

(EUR billions)

	1996	1997	1998	1999	2000
LIST - Lisbon Trading					
Value of trades	16.9	30.0	49.4	42.1	62.6
SEND (Derivatives market)					
Value of trades	13.3	64.1	67.0	21.8	13.2
INTERBOLSA					
Value of settlement instructions	70.1	100.7	180.4	227.0	359.5
SITEME					
Value of settlement instructions	50.0	39.4	23.8	13.5	13.7
<i>of which central bank refinancing</i>	48.5	35.8	22.8	12.9	11.5

**Table 11c**  
**Number of participants in trading platforms, clearing houses and securities settlement systems**

	1996	1997	1998	1999	2000
<b>Trading systems</b>					
LIST - Lisbon Trading	22	21	26	25	26
Banks	nap	nap	nap	nap	nap
<i>of which:</i>					
<i>domestic</i>	nap	nap	nap	nap	nap
<i>foreign</i>	nap	nap	nap	nap	nap
Brokers/dealers	22	21	26	25	26
<i>of which:</i>					
<i>domestic</i>	22	21	26	25	25
<i>foreign</i>	0	0	0	0	1
Others	nap	nap	nap	nap	nap
SEND (Derivatives market)	33	32	33	37	36
Banks	16	16	17	21	19
<i>of which:</i>					
<i>domestic</i>	16	16	17	21	19
<i>foreign</i>	0	0	0	0	0
Brokers/dealers	17	16	16	16	17
<i>of which:</i>					
<i>domestic</i>	17	16	16	16	16
<i>foreign</i>	0	0	0	0	1
Others	nap	nap	nap	nap	nap
<b>Clearing systems</b>					
SEND (Derivatives market)	19	18	19	22	20
Banks	16	16	17	20	19
<i>of which:</i>					
<i>domestic</i>	16	16	17	20	19
<i>foreign</i>	0	0	0	0	0
Brokers/dealers	3	2	2	2	1
<i>of which:</i>					
<i>domestic</i>	3	2	2	2	1
<i>foreign</i>	0	0	0	0	0
Others	nap	nap	nap	nap	nap
<b>Securities settlement systems</b>					
INTERBOLSA	56	59	57	64	66
Banks	34	37	35	38	36
<i>of which:</i>					
<i>domestic</i>	34	37	35	37	34
<i>foreign</i>	0	0	0	1	2
Brokers/dealers	20	20	20	24	27
<i>of which:</i>					
<i>domestic</i>	20	20	20	24	27
<i>foreign</i>	0	0	0	0	0
Others:	2	2	2	2	3
Public Debt Management Office (IGCP)	1	1	1	1	1
Banco de Portugal	1	1	1	1	1
Investor Compensation System	nap	nap	nap	nap	1
SITEME	86	82	79	56	51
Banks	46	48	47	48	42
<i>of which:</i>					
<i>domestic</i>	38	40	38	40	36
<i>foreign</i>	8	8	9	8	6
Brokers/dealers	7	6	5	0	0
<i>of which:</i>					
<i>domestic</i>	7	6	5	nap	nap
<i>foreign</i>	0	0	0	nap	nap
Others	33	28	27	8	9
<i>of which:</i>					
<i>Leasing Companies</i>	14	11	11	0	0

**Table 11d**  
**Outstanding securities**  
(end of year)

	1996	1997	1998	1999	2000
LIST - Lisbon Trading					
Value of securities listed (EUR millions)	53,287	72,954	96,757	116,377	170,815
Number of securities listed	296	268	118	239	193
SEND (Derivatives market)					
Value of securities listed (EUR millions)	0.55	0.56	1.12	0.03	0.03
Number of securities listed	3	5	9	7	7
INTERBOLSA					
Value of securities issued (EUR millions)	nap	nap	nap	nap	nap
Number of securities listed	nap	nap	nap	nap	nap
Value of securities registered (EUR millions)	51,280	60,342	71,572	83,670	93,617
Number of securities registered	1,055	1,002	1,140	1,264	1,476
SITEME					
Value of stocks issued (EUR millions)	nap	nap	nap	nap	nap
Value of other securities issued (EUR millions)	14,769	11,542	8,599	4,574	3,784
Number of stocks issued	nap	nap	nap	nap	nap
Number of other securities issued	88	80	69	5	4

**Table 11e**  
**Netting ratio in clearing systems**

	1996	1997	1998	1999	2000
INTERBOLSA					
Netting ratio for cash over year	nav	32%	23%	19%	29%
Netting ratio for securities over year	80%	75%	73%	87%	90%

**Table 12**  
**Participation in SWIFT by domestic institutions**

	1996	1997	1998	1999	2000
Members	30	30	28	26	25
<i>of which live</i>	30	29	28	26	24
Sub-members	15	16	16	17	19
<i>of which live</i>	14	16	16	17	18
Participants	nap	1	3	8	8
<i>of which live</i>	nap	1	3	8	8
Total users	45	47	47	51	52
<i>of which live</i>	44	46	47	51	50
<i>Memorandum items:</i>					
Total SWIFT users	5,918	6,372	6,771	6,991	7,293
<i>members</i>	3,014	3,070	3,052	2,230	2,307
<i>sub-members</i>	2,500	2,621	2,781	2,825	3,037
<i>participants</i>	404	681	938	1,936	1,949

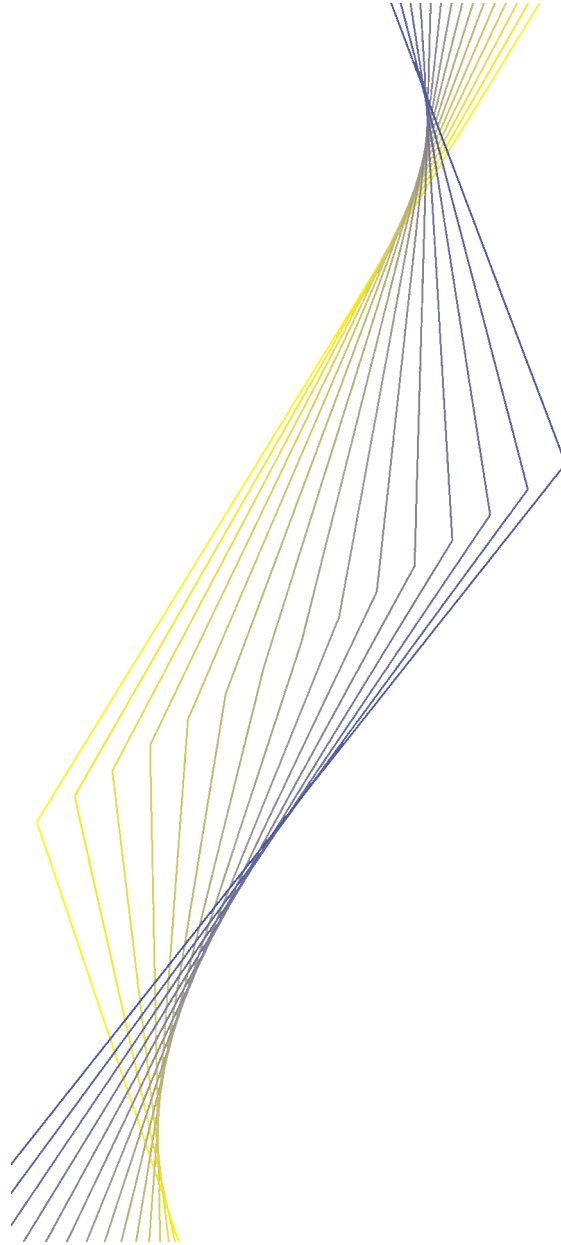


**Table 13**  
**SWIFT message flows to/from domestic users**

	1996	1997	1998	1999	2000
Total messages sent	4,345,301	4,897,672	5,658,690	5,511,820	5,717,725
<i>of which:</i>					
<i>category I</i>	1,023,514	1,185,554	1,414,573	1,718,528	1,793,346
<i>category II</i>	1,011,152	1,055,148	1,079,595	739,986	701,773
Total messages received	3,950,010	4,503,748	4,962,798	4,622,331	4,757,684
<i>of which:</i>					
<i>category I</i>	1,040,731	1,156,416	1,337,987	1,619,029	1,757,900
<i>category II</i>	640,528	768,321	824,781	363,905	329,329
Domestic traffic	404,919	436,757	418,400	307,703	300,786
<i>Memorandum item:</i>					
Global SWIFT traffic	687,785,294	812,117,556	941,235,088	1,058,836,425	1,273,912,754



EUROPEAN CENTRAL BANK



**Finland**



**Table 1****Basic statistical data**

	1996	1997	1998	1999	2000
Population (thousands)	5,125	5,140	5,153	5,165	5,176
GDP (ECU/EUR billions) <sup>1)</sup>	100.5	108.1	115.3	120.5	131.7
GDP per capita (ECU/EUR) <sup>1)</sup>	19,614	21,025	22,368	23,328	25,439
Exchange rate (domestic currency vis-à-vis ECU/EUR):					
<i>end of year</i> <sup>2)</sup>	5.81640	5.98726	5.94573	5.94573	5.94573
<i>average</i> <sup>2)</sup>	5.82817	5.88064	5.98250	5.94573	5.94573

1) Prior to 1999, converted using the FIM/ECU exchange rate. In the following tables, the irrevocable conversion rate to the euro has been used for data prior to 1999.

2) Irrevocable conversion rates were adopted with the introduction of the euro on 1 January 1999.

**Table 2****Settlement media used by non-banks**

(end of year, EUR billions)

	1996	1997	1998	1999	2000
Banknotes and coins	2.3	2.4	2.5	2.8	2.9
Transferable deposits	32.2	33.9	35.6	38.3	37.1
Narrow money supply (M1)	34.4	36.4	38.1	41.1	40.0
<i>Memorandum items:</i>					
Broad money supply	53.7	57.1	57.5	61.3	61.2
Transferable deposits in foreign currencies	2.1	2.1	1.8	1.3	1.2
Outstanding value on e-money schemes	nav	0.0003	0.0005	0.0006	0.0008
<i>of which:</i>					
<i>on card-based products</i>	nav	0.0003	0.0005	0.0006	0.0008
<i>on network-based products</i> <sup>1)</sup>	nav	nav	nav	nav	nav

1) The network-based system was in operation in 1996 and 1997. The amounts were very small and data about the transactions are not available.

**Table 3****Settlement media used by banks**

(end of year, EUR billions)

	1996	1997	1998	1999	2000
Transferable balances held at central bank	1.4	1.8	2.2	4.9	2.5
<i>of which:</i>					
<i>required reserves</i>	1.1	1.3	1.2	1.7	1.7
<i>free reserves</i>	0.3	0.5	1.0	3.2	0.8
Transferable balances held at other banks	0.5	0.5	0.5	0.5	0.6
<i>Memorandum item:</i>					
Institutions' borrowing from central bank <sup>1)</sup>	1.9	2.8	3.2	6.5	4.7

1) Intraday limits.

**Table 4**  
**Banknotes and coins**

(end of year, total value, EUR billions and FIM billions)

	1996		1997		1998		1999		2000	
	EUR	FIM	EUR	FIM	EUR	FIM	EUR	FIM	EUR	FIM
Total banknotes issued	2.50	14.84	2.64	15.69	2.61	15.51	2.97	17.66	2.95	17.51
<i>of which:</i>										
<i>FIM 1,000</i>	0.87	5.15	0.94	5.58	0.95	5.64	1.10	6.55	1.07	6.36
<i>FIM 500</i>	0.43	2.56	0.44	2.60	0.43	2.54	0.49	2.93	0.46	2.75
<i>FIM 100</i>	1.01	6.01	1.08	6.43	1.05	6.26	1.19	7.08	1.22	7.28
<i>FIM 50</i>	0.11	0.65	0.10	0.62	0.10	0.61	0.10	0.62	0.10	0.61
<i>FIM 20</i>	0.07	0.41	0.07	0.42	0.07	0.43	0.08	0.45	0.08	0.46
<i>FIM 10</i>	0.01	0.05	0.01	0.04	0.01	0.04	0.01	0.04	0.01	0.04
Total coins issued	0.24	1.44	0.25	1.49	0.23	1.35	0.24	1.43	0.25	1.50
<i>of which:</i>										
<i>FIM 10</i>	0.07	0.39	0.07	0.42	0.07	0.44	0.08	0.48	0.09	0.51
<i>FIM 5</i>	0.07	0.44	0.07	0.44	0.06	0.37	0.06	0.38	0.06	0.38
<i>FIM 1</i>	0.07	0.41	0.07	0.43	0.05	0.32	0.06	0.34	0.06	0.36
<i>50 penniä</i>	0.02	0.09	0.02	0.10	0.02	0.10	0.02	0.11	0.02	0.11
<i>10 penniä</i>	0.02	0.11	0.02	0.11	0.02	0.12	0.02	0.13	0.02	0.13
Total banknotes and coins issued	2.84	16.89	3.00	17.82	2.98	17.69	3.35	19.92	3.34	19.83
Banknotes and coins held by credit institutions	0.55	3.25	0.56	3.30	0.49	2.89	0.57	3.39	0.46	2.71
Banknotes and coins in circulation outside credit institutions	2.29	13.65	2.44	14.52	2.49	14.80	2.78	16.53	2.88	17.13
<i>of which cash in ATMs</i>	0.13	0.79	0.15	0.87	0.15	0.91	0.17	0.98	0.14	0.84
Memorandum items:										
Commemorative coins <sup>1)</sup>	0.05	0.28	0.05	0.31	0.03	0.19	0.03	0.19	0.03	0.20
Banknotes and coins which ceased to be legal tender on 1 January 1994	0.06	0.33	0.05	0.33	0.11	0.64	0.11	0.64	0.10	0.62

1) This item is included in "Banknotes and coins in circulation" in the balance sheet of Suomen Pankki - Finlands Bank.

**Table 5**  
**Institutional framework**  
(end of 2000)

Categories	Number of institutions	Number of branches	Number of accounts (thousands)	Number of internet-linked accounts (thousands) <sup>1)</sup>	Value of accounts (EUR billions)
Central bank <sup>2)</sup>	1	4	0.016	nap	3
Credit institutions	341	1,550	10,871	2,199	35
Postal institution <sup>3)</sup>	nap	nap	nap	nap	nap
<b>Total</b>	<b>342</b>	<b>1,554</b>	<b>10,871</b>	<b>2,199</b>	<b>37</b>
<i>of which:</i>					
<i>virtual institutions</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Branches of foreign banks	6	27	190	nav	1
<i>of which:</i>					
<i>EU-based</i>	<i>6</i>	<i>27</i>	<i>190</i>	<i>nav</i>	<i>1</i>

1) Number of accounts relating to internet services (credit transfers, payment of bills etc. carried out via the internet) based on the assumption that one internet service agreement is related only to one bank account.

2) Number of accounts: number of settlement accounts.

3) Postal institution ceased to offer payment services at the end of 1999.

**Table 6**  
**Payment card functions and accepting devices**  
(end of year)

	1996	1997	1998	1999	2000
<b>Cash function</b>					
Cards with a cash function (thousands)	4,768	5,148	5,405	5,505	5,884
Number of networks	1	1	1	1	1
Number of ATMs with a cash dispensing function	2,298	2,285	2,208	2,181	2,134
<i>of which:</i>					
<i>open access</i>	2,298	2,285	2,208	2,181	2,134
<i>limited access</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Volume of transactions (millions)	213	223	231	238	244
<i>of which:</i>					
<i>at ATMs with open access</i>	213	223	231	238	244
<i>at ATMs with limited access</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Value of transactions (EUR billions)	14	15	16	16	17
<i>of which:</i>					
<i>at ATMs with open access</i>	14	15	16	16	17
<i>at ATMs with limited access</i>	0	0	0	0	0
Number of ATMs with a giro transfer function	2,363	2,482	2,458	2,434	2,418
<i>volume of transactions (millions)</i>	68	68	81	86	84
<i>value of transactions (EUR billions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<b>Debit function</b>					
Cards with a debit function (thousands)	2,071	2,211	2,228	2,360	2,552
<i>of which:</i>					
<i>retailer cards (thousands)</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Number of networks	1	1	1	1	1
Number of terminals	51,000	54,000	57,000	60,000	62,000
Volume of transactions (millions)	176	178	191	217	255
<i>of which:</i>					
<i>transactions with retailer cards (millions)</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Value of transactions (EUR billions)	6	6	7	8	10
<i>of which:</i>					

<i>transactions with retailer cards (EUR billions)</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<b>Credit function</b>					
Cards with a credit function (thousands)	1,933	2,031	2,426	2,968	3,043
<i>of which:</i>					
<i>retailer cards (thousands)</i>	<i>1,580</i>	<i>1,582</i>	<i>1,849</i>	<i>2,155</i>	<i>2,184</i>
Number of networks	1	1	1	1	1
Number of terminals	51,000	54,000	57,000	60,000	62,000
Volume of transactions (millions)	48	53	62	60	66
<i>of which:</i>					
<i>transactions with retailer cards (millions)</i>	<i>37</i>	<i>40</i>	<i>48</i>	<i>49</i>	<i>53</i>
Value of transactions (EUR billions)	2	3	3	3	4
<i>of which:</i>					
<i>transactions with retailer cards (EUR billions)</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>2</i>	<i>3</i>
<b>Electronic money function</b>					
Cards with an e-money function (thousands)	1,175	164	324	454	623
Number of accepting terminals	5,000	1,344	3,627	5,272	6,109
Number of networks	1	1	1	1	1
Number of purchase transactions (millions)	3.8	0.1	0.2	0.5	0.6
Value of purchase transactions (EUR billions)	0.0030	0.0002	0.0003	0.0009	0.0012
Number of loading transactions (millions)	nav	nav	0.04	0.07	0.11
Number of loading terminals	100	2100	2208	2,181	2,134
Value of money loaded (EUR billions)	nav	nav	0.0008	0.0014	0.0022
Float (EUR billions)	nav	0.0003	0.0005	0.0006	0.0008
<b>Delayed debit cards (charge cards)</b>					
Cards with a delayed debit function (thousands)	847	909	863	930	1027
Number of terminals	51,000	54,000	57,000	60,000	62,000
Volume of transactions (millions)	39	41	44	47	49
Value of transactions (EUR billions)	3	3	3	3	3
<i>Memorandum item:</i>					
Total number of cards in circulation (thousands)	7,876	7,213	7,884	8,555	8,997
<i>of which:</i>					
<i>cards with a combined debit, cash and e-money function (thousands)</i>	<i>nap</i>	<i>74</i>	<i>135</i>	<i>143</i>	<i>143</i>
<i>cards with a cheque guarantee function (thousands)</i>	<i>4</i>	<i>3</i>	<i>2</i>	<i>1</i>	<i>1</i>

**Table 7**

**Payment instructions handled by selected interbank funds transfer systems:  
volume of transactions**  
(millions)

	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>
<b>Interbank Payment System (PMJ)</b>	<b>248.9</b>	<b>258.0</b>	<b>281.5</b>	<b>306.7</b>	<b>345.0</b>
Credit transfers	147.2	144.7	159.6	167.1	178.6
Debit card transfers	99.4	111.8	121.6	139.2	166.4
Cheque transfers	2.3	1.5	0.3	0.3	0.1
<b>POPS system</b>	<b>0.2</b>	<b>0.5</b>	<b>0.9</b>	<b>1.2</b>	<b>0.9</b>
Express transfers	0.0	0.1	0.1	0.1	0.2
Cheque transfers	0.2	0.4	0.8	1.0	0.7
<b>BoF-RTGS</b>	<b>0.1</b>	<b>0.1</b>	<b>0.2</b>	<b>0.4</b>	<b>0.4</b>
Credit transfers between account holders	0.1	0.1	0.1	0.2	0.2
Credit transfers between Suomen Pankki - Finlands Bank and account holders	0.04	0.04	0.04	0.03	0.03

Cross-border TARGET payments sent	nap	nap	nap	0.09	0.09
Cross-border TARGET payments received	nap	nap	nap	0.11	0.11
<b>Concentration ratio <sup>1)</sup></b>					
Interbank Payment System	99.99%	99.90%	99.80%	99.70%	99.20%
POPS	99.20%	96.90%	97.40%	94.90%	94.70%
BoF-RTGS	nav	66.90%	70.50%	85.40%	77.70%

1) Market share of the five largest participants in each payment system, based on the total volume of transactions.

**Table 8**

**Payment instructions handled by selected interbank funds transfer systems:  
value of transactions**

(EUR billions)

	1996	1997	1998	1999	2000
<b>Interbank Payment System (PMJ)</b>	<b>384</b>	<b>140</b>	<b>232</b>	<b>117</b>	<b>144</b>
Credit transfers	274	122	211	111	137
Debit card transfers	4	4	5	6	7
Cheque transfers	106	13	17	1	0
<b>POPS system</b>	<b>98</b>	<b>292</b>	<b>247</b>	<b>319</b>	<b>369</b>
Express transfers	44	192	154	217	257
Cheque transfers	54	100	93	102	112
<b>BoF-RTGS</b>	<b>1,340</b>	<b>1,516</b>	<b>1,936</b>	<b>4,369</b>	<b>4,674</b>
Credit transfers between account holders	1,241	1,377	1,779	1,309	1,560
Credit transfers between Suomen					
Pankki - Finlands Bank and account holders	99	139	157	54	70
Cross-border TARGET payments sent	nap	nap	nap	1,490	1,533
Cross-border TARGET payments received	nap	nap	nap	1,504	1,560
<b>Concentration ratio <sup>1)</sup></b>					
Interbank Payment System	97.00%	98.20%	97.40%	97.00%	96.50%
POPS	98.60%	97.20%	91.40%	93.50%	88.00%
BoF-RTGS	nav	62.00%	78.30%	80.60%	59.40%

1) Market share of the five largest participants in each payment system, based on the total value of transactions.

**Table 9**

**Indicators of the use of various cashless payment instruments:**

**volume of transactions <sup>1)</sup>**

(millions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques	4	3	2	1	1
<i>of which:</i>					
<i>face-to-face</i>	4	3	2	1	1
<i>via PC or other terminal</i>	nap	nap	nap	nap	nap
<i>telebanking</i>	nap	nap	nap	nap	nap
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Payments by debit card	176	178	191	217	255
<i>of which:</i>					
<i>face-to-face</i>	176	178	191	217	255
<i>via PC or other terminal</i>	nap	nap	nap	nap	nap
<i>telebanking</i>	nap	nap	nap	nap	nap
<i>via mobile phone</i>	nap	nap	nap	nap	nap
Payments by credit card <sup>2)</sup>	87	94	106	107	115
<i>of which:</i>					
<i>face-to-face</i>	87	94	106	107	115
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav



telebanking	nap	nap	nap	nap	nap
via mobile phone	nap	nap	nap	nap	nap
Credit transfers	448	470	496	519	541
of which:					
face-to-face	132	120	105	96	79
via PC or other terminal	nav	nav	nav	nav	92
telebanking	316	350	391	423	370
via mobile phone	nap	nap	nav	nav	nav
Direct debits	24	26	31	39	43
of which:					
face-to-face	nap	nap	nap	nap	nap
via PC or other terminal	nap	nap	nap	nap	nap
telebanking	24	26	31	39	43
via mobile phone	nap	nap	nap	nap	nap
Card-based electronic money	3.8	0.1	0.2	0.5	0.6
Network-based electronic money	neg	neg	nap	nap	nap
<b>Total</b>	<b>743</b>	<b>771</b>	<b>826</b>	<b>884</b>	<b>956</b>

1) Excludes items initiated by banks; these data are not available (they are included in BoF-RTGS data in Table 7).

2) Including delayed debit cards.

**Table 10**

**Indicators of the use of various cashless payment instruments:**

**value of transactions**<sup>1)</sup>

(EUR billions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques	168	123	121	110	126
of which:					
face-to-face	168	123	121	110	126
via PC or other terminal	nap	nap	nap	nap	nap
telebanking	nap	nap	nap	nap	nap
via mobile phone	nap	nap	nap	nap	nap
Payments by debit card	7	7	8	9	10
of which:					
face-to-face	7	7	8	9	10
via PC or other terminal	nap	nap	nap	nap	nap
telebanking	nap	nap	nap	nap	nap
via mobile phone	nap	nap	nap	nap	nap
Payments by credit card <sup>2)</sup>	4	5	5	5	6
of which:					
face-to-face	4	5	5	5	6
via PC or other terminal	nav	nav	nav	nav	nav
telebanking	nap	nap	nap	nap	nap
via mobile phone	nap	nap	nap	nap	nap
Credit transfers	1,441	1,413	1,491	1,476	1,499
of which:					
face-to-face	425	361	316	273	316
via PC or other terminal					
telebanking	1,016	1,053	1,175	1,203	1,183
via mobile phone					
Direct debits	11	15	18	18	21
of which:					
face-to-face	nap	nap	nap	nap	nap
via PC or other terminal	nap	nap	nap	nap	nap
telebanking	11	15	18	18	21
via mobile phone	nap	nap	nap	nap	nap
Card-based electronic money	0.0030	0.0002	0.0003	0.0009	0.0012
Network-based electronic money	neg	neg	nap	nap	nap
<b>Total</b>	<b>1,799</b>	<b>1,686</b>	<b>1,764</b>	<b>1,728</b>	<b>1,789</b>

1) Excludes items initiated by banks; these data are not available (they are included in BoF-RTGS data in Table 8).

2) Including delayed debit cards.

**Table 11a**

**Instructions handled by trading platforms, clearing houses and securities settlement systems:**

**volume of transactions**

(millions)

	1996	1997	1998	1999	2000
<b>Trading platforms</b>					
Helsinki Securities and Derivatives Exchange, Clearing House Ltd	0.4	0.6	0.9	1.7	3.2
Shares (incl. shares, subscription rights, warrants, covered warrants)	0.4	0.6	0.9	1.7	3.2
<b>Clearing houses</b> <sup>1)</sup>	nap	nap	nap	nap	nap
<b>Securities settlement systems</b>					
Finnish Central Securities Depository (APK), settlement of money market instruments	0.0	0.1	0.1	0.064	0.056
Bonds	nav	nav	0.046	0.043	0.033
CDs	0.01	0.02	0.022	0.020	0.021
TBs	nav	nav	0.003	0.002	0.001
Others	neg	neg	neg	neg	neg
Finnish Central Securities Depository (APK), settlement of shares	0.53	0.78	1.21	2.26	4.28

1) No independent clearing houses.

**Table 11b**

**Instructions handled by trading platforms, clearing houses and securities settlement systems:**

**market value of transactions**

(EUR billions)

	1996	1997	1998	1999	2000
<b>Trading platforms</b>					
Helsinki Securities and Derivatives Exchange, Clearing House Ltd	17	32	54	105	227
Shares (incl. shares, subscription rights, warrants, covered warrants)	17	32	54	105	227
<b>Clearing houses</b> <sup>1)</sup>	nap	nap	nap	nap	nap
<b>Securities settlement systems</b>					
Finnish Central Securities Depository (APK), settlement of money market instruments	398	706	805	487	489
Bonds	263	512	641	378	351
CDs	135	194	137	96	117
TBs	nav	nav	28	12	19
Others	nav	nav	nav	0	2
Finnish Central Securities Depository (APK), settlement of shares	17	31	53	102	551

1) No independent clearing houses.

**Table 11c****Number of participants in trading platforms, clearing houses and securities settlement systems**

	1996	1997	1998	1999	2000
<b>Trading systems</b>					
Helsinki Securities and Derivatives					
Exchange, Clearing House Ltd	27	27	28	26	31
Banks	10	5	8	5	7
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	4	4
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	1	3
Brokers	17	10	20	21	24
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	15	15
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	6	9
<b>Clearing systems <sup>1)</sup></b>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<b>Securities settlement systems</b>					
Finnish Central Securities Depository (APK), settlement of money market instruments	12	13	13	15	15
Banks	10	10	8	10	10
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	10	10
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Brokers	2	3	5	5	5
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	5	5
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Finnish Central Securities Depository (APK), settlement of shares	21	23	21	25	23
Banks	5	8	5	9	8
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	6	5
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	3	3
Brokers	16	15	16	16	15
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	7	7	11
<i>foreign</i>	<i>nav</i>	<i>nav</i>	9	9	4
Others	1	5	1	1	1

1) No independent clearing houses.

**Table 11d****Outstanding securities**

(end of year)

	1996	1997	1998	1999	2000
<b>Helsinki Securities and Derivatives</b>					
<b>Exchange, Clearing House Ltd</b>					
Value of securities issued (EUR billions)	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Number of securities issued	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Value of securities registered (EUR billions)	48	68	132	349	318
Number of securities registered	95	101	155	173	179
<b>Finnish Central Securities Depository (APK), settlement of money market instruments</b>					
Value of securities issued (EUR billions)	46	44	40	103	85
Value of bonds issued (EUR billions)	3	2	2	1	6
Value of CDs issued (EUR billions)	37	37	16	97	69
Value of TBs issued (EUR billions)	6	5	22	5	9
Value of other securities issued (EUR billions)	<i>nav</i>	<i>nav</i>	<i>nav</i>	0	1
Number of bonds issued	1	5	13	15	12

Number of CDs issued	1,343	1,371	1,381	2,160	2,127
Number of TBs issued	13	12	44	117	110
Number of other securities issued	nav	nav	nav	7	71
Value of securities registered (EUR billions)	nav	nav	nav	nav	nav
Number of securities registered	nav	nav	nav	nav	nav
<b>Finnish Central Securities Depository (APK), settlement of shares</b>					
Value of stocks issued (EUR billions)	49	68	130	350	1,284
Number of stocks issued	4	4	7	10	23

**Table 11e**  
**Netting ratio in clearing systems**

	1996	1997	1998	1999	2000
Finnish Central Securities Depository (APK), settlement of shares					
Netting ratio for cash over year	nav	nav	nav	nav	7.90%
Netting ratio for securities over year	nav	nav	nav	nav	nav

**Table 12**  
**Participation in SWIFT by domestic institutions**

	1996	1997	1998	1999	2000
Members	9	9	9	7	8
<i>of which live</i>	9	9	9	7	8
Sub-members	5	6	6	6	5
<i>of which live</i>	5	6	6	6	5
Participants	0	0	1	4	3
<i>of which live</i>	0	0	1	4	3
Total users	14	15	16	17	16
<i>of which live</i>	14	15	16	17	16
<i>Memorandum items:</i>					
Total SWIFT users	5,918	6,372	6,771	6,991	7,293
<i>members</i>	3,014	3,070	3,052	2,230	2,307
<i>sub-members</i>	2,500	2,621	2,781	2,825	3,037
<i>participants</i>	404	681	938	1,936	1,949

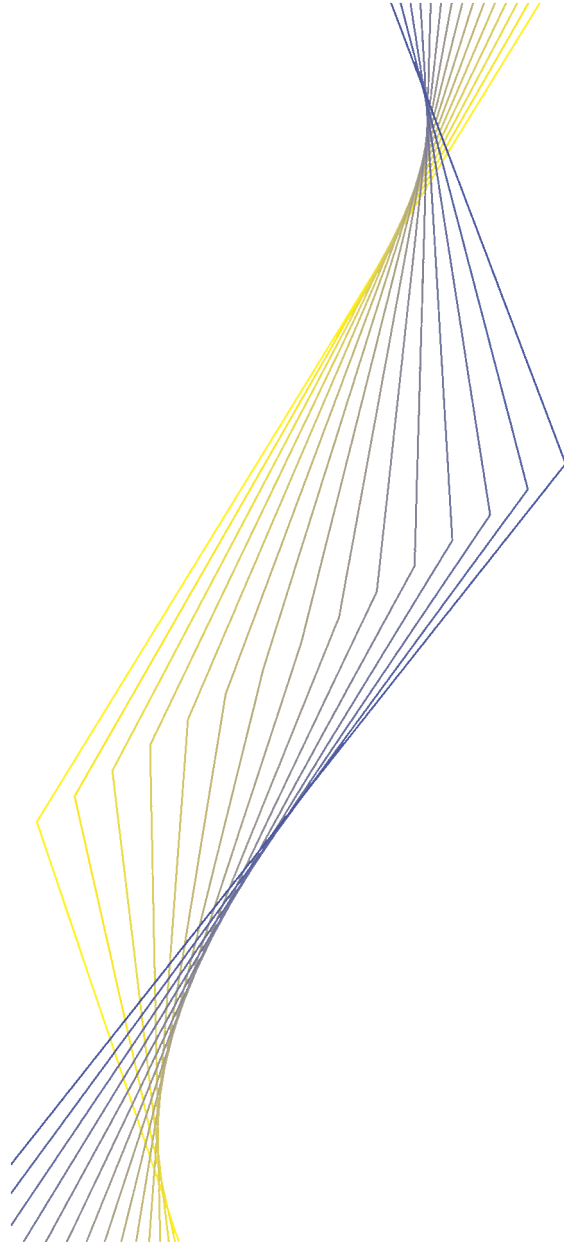
**Table 13**  
**SWIFT message flows to/from domestic users**

	1996	1997	1998	1999	2000
Total messages sent	5,030,370	5,751,091	6,723,267	7,616,708	10,063,504
<i>of which:</i>					
<i>category I</i>	2,146,159	2,282,875	2,586,846	2,904,906	3,083,826
<i>category II</i>	1,065,054	1,116,193	1,226,368	1,059,012	1,048,564
Total messages received	3,375,655	3,792,939	4,419,950	4,997,583	6,396,200
<i>of which:</i>					
<i>category I</i>	1,180,787	1,287,983	1,447,029	1,728,075	1,854,032
<i>category II</i>	686,231	733,604	851,434	551,995	550,498
Domestic traffic	421,391	390,903	521,669	619,052	731,391
<i>Memorandum item:</i>					
Global SWIFT traffic	687,785,294	812,117,556	941,235,088	1,058,836,425	1,273,912,754





EUROPEAN CENTRAL BANK



**Sweden**



**Table 1****Basic statistical data**

	1996	1997	1998	1999	2000
Population (thousands)	8,841	8,846	8,851	8,858	8,871
GDP (SEK billions)	1,756.4	1,823.8	1,905.3	2,004.7	2,098.5
GDP per capita (SEK)	198,661	206,172	215,269	226,310	236,552
Exchange rate (domestic currency vis-à-vis ECU/EUR):					
<i>end of year</i>	8.6280	8.7323	9.4880	8.5625	8.8313
<i>average</i>	8.5147	8.6512	8.9159	8.8075	8.4452

**Table 2****Settlement media used by non-banks**

(end of year, SEK billions)

	1996	1997	1998	1999	2000
Banknotes and coins	72	74	78	87	89
Transferable deposits	730	734	756	806	840
Others <sup>1)</sup>	13	19	10	34	17
Narrow money supply (M1)	nav	nav	nav	nav	nav
<i>Memorandum items:</i>					
Broad money supply (M3) <sup>2)</sup>	816	826	843	927	946
Transferable deposits in foreign currencies	27	35	31	45	54
Outstanding value on e-money schemes	nav	nav	neg	neg	neg
<i>of which:</i>					
<i>on card-based products</i>	nav	nav	neg	neg	neg
<i>on network-based products</i>	nav	nav	neg	neg	neg

1) Postal giro accounts and certificates of deposits.

2) The money supply M3 is defined as the non-bank sector's holdings of notes and coin (M0), plus the Swedish non-bank sector's deposits and holding of SEK denominated certificates of deposit. Pension savings in banks, IPS, are not included in the money supply.

**Table 3****Settlement media used by deposit-taking institutions**

(end of year, SEK billions)

	1996	1997	1998	1999	2000
Transferable balances held at central bank	1.5	2.0	1.7	4.5	0.1
<i>of which:</i>					
<i>required reserves</i>	nav	nav	nav	nav	nav
<i>free reserves</i>	1.5	2.0	1.7	4.5	0.1
Transferable balances held at other banks	73.4	94.5	113.4	94.2	74.7
<i>Memorandum item:</i>					
Institutions' borrowing from central bank	10.5	31.7	29.3	34.4	45.8

**Table 4****Banknotes and coins**

(end of year, total value, SEK billions)

	1996	1997	1998	1999	2000
Total banknotes issued	77.1	79.0	82.3	94.2	93.2
<i>of which:</i>					
<i>SEK 1,000</i>	38.6	39.2	41.0	46.8	45.9
<i>SEK 500</i>	25.6	27.2	29.2	35.0	35.5
<i>SEK 100</i>	10.3	9.9	9.4	9.7	8.9
<i>SEK 50</i>	0.9	1.0	1.0	1.0	1.0
<i>SEK 20</i>	1.3	1.4	1.4	1.4	1.5



SEK 10	0.3	0.3	0.3	0.2	0.2
SEK 5	0.1	0.1	0.1	0.1	0.1
Total coins issued	3.7	3.8	4.0	4.2	4.4
Total banknotes and coins issued	80.8	82.8	86.3	98.4	97.7
Banknotes and coins held by credit institutions	8.8	8.7	8.4	11.3	8.4
Banknotes and coins in circulation outside credit institutions	72.0	74.1	77.9	87.2	89.3

**Table 5**  
**Institutional framework**  
(end of 2000)

Categories	Number of institutions	Number of branches	Number of accounts (thousands)	Number of internet-linked accounts	Value of accounts (SEK billions)
Central bank	1	1	nav	nav	nav
Commercial banks	46	1,732	nav	nav	779
Savings banks	80	269	nav	nav	61
Co-operative and rural banks	nav	nav	nav	nav	nav
Post office	1	1,372	nav	nav	nav
Total	128	3,374	nav	nav	840
<i>of which:</i>					
<i>virtual institutions</i>	2	2	nav	nav	nav
Branches of foreign banks	20	20	nav	nav	44
<i>of which EC-based</i>	14	14	nav	nav	42

**Table 6**  
**Payment card functions and accepting devices**  
(end of year)

	1996	1997	1998	1999	2000
<b>Cash function</b>					
Cards with a cash function (thousands)	4,613	4,944	4,841	4,610	4,972
Number of networks	1	1	1	1	1
Number of ATMs with a cash dispensing function	2,379	2,370	2,485	2,580	2,617
<i>of which:</i>					
<i>open access</i>	2,379	2,370	2,485	2,580	2,617
<i>limited access</i>	nav	nav	nav	nav	nav
Volume of transactions (millions)	297	312	333	310	320
<i>of which:</i>					
<i>at ATMs with open access</i>	297	312	333	310	320
<i>at ATMs with limited access</i>	nav	nav	nav	nav	nav
Value of transactions (SEK billions)	239	249	287	257	271
<i>of which:</i>					
<i>at ATMs with open access</i>	239	249	287	257	271
<i>at ATMs with limited access</i>	nav	nav	nav	nav	nav
Number of ATMs with a giro transfer function	nav	nav	nav	nav	nav
<i>volume of transactions (millions)</i>	nav	nav	nav	nav	nav
<i>value of transactions (SEK billions)</i>	nav	nav	nav	nav	nav
<b>Debit function</b>					
Cards with a debit function (thousands)	2,194	2,845	3,396	4,179	4,570
<i>of which:</i>					
<i>retailer cards (thousands)</i>	nav	nav	nav	nav	nav
Number of networks	1	1	1	1	1
Number of terminals	61,400	68,800	74,400	81,135	87,133

Volume of transactions (millions)	88	121	160	198	256
<i>of which:</i>					
<i>transactions with retailer cards (millions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Value of transactions (SEK billions)	57	77	97	119	143
<i>of which:</i>					
<i>transactions with retailer cards (SEK billions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<b>Credit function</b>					
Cards with a credit function (thousands)	1,737	1,755	2,165	2,258	2,802
<i>of which:</i>					
<i>retailer cards (thousands)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Number of networks	1	1	1	1	1
Number of terminals	61,400	68,800	74,400	81,135	87,133
Volume of transactions (millions)	11	13	16	17	20
<i>of which:</i>					
<i>transactions with retailer cards (millions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Value of transactions (SEK billions)	8	10	11	13	16
<i>of which:</i>					
<i>transactions with retailer cards (SEK billions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<b>Electronic money function</b>					
Cards with an e-money function (thousands)	<i>nav</i>	<i>nav</i>	205	540	593
Number of accepting terminals	<i>nav</i>	<i>nav</i>	33,938	43,921	43,000
Number of networks	<i>nav</i>	<i>nav</i>	1	1	1
Number of purchase transactions (millions)	<i>nav</i>	<i>nav</i>	2.0	4.2	2.9
Value of purchase transactions (SEK billions)	<i>nav</i>	<i>nav</i>	0.1	0.2	0.2
Number of loading transactions (millions)	<i>nav</i>	<i>nav</i>	0.5	1.0	0.6
Number of loading terminals	<i>nav</i>	<i>nav</i>	5,680	6,376	6,918
Value of money loaded (SEK billions)	<i>nav</i>	<i>nav</i>	0.2	0.3	0.2
Float (SEK billions)	<i>nav</i>	<i>nav</i>	0.02	0.04	-0.01
<b>Delayed debit cards (charge cards)</b>					
Cards with a delayed debit function (thousands)	725	760	787	787	1,009
Number of terminals	61,400	68,800	74,400	81,135	87,133
Volume of transactions (millions)	33	35	36	40	46
Value of transactions (SEK billions)	36	37	40	42	50
<i>Memorandum item:</i>					
Total number of cards in circulation (thousands)	9,269	10,305	11,226	11,834	12,969
<i>of which:</i>					
<i>cards with a combined debit, cash and e-money function (thousands)</i>	<i>nav</i>	<i>nav</i>	3,396	4,179	4,570
<i>cards with a cheque guarantee function (thousands)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>

**Table 7**

**Payment instructions handled by selected interbank funds transfer systems:  
volume of transactions**  
(millions)

	1996	1997	1998	1999	2000
K-RIX	0.3	0.3	0.3	0.3	0.5
E-RIX <sup>1)</sup>	<i>nav</i>	<i>nav</i>	<i>nav</i>	0.05	0.06
Bankgirot, BGC	265	290	315	338	351
Dataclearing	113	106	91	85	78
Postgirot	423	435	472	458	454
<b>Concentration ratio</b>	<b><i>nav</i></b>	<b><i>nav</i></b>	<b><i>nav</i></b>	<b><i>nav</i></b>	<b><i>nav</i></b>

1) Total volume of domestic and cross-border payments sent via TARGET.

**Table 8**

**Payment instructions handled by selected interbank funds transfer systems:  
value of transactions**  
(SEK billions)

	1996	1997	1998	1999	2000
K-RIX	78,189	82,051	91,701	100,924	107,210
E-RIX <sup>1)</sup>	nap	nap	nap	12,735	14,509
Bankgirot, BGC	2,410	2,623	2,912	3,269	3,733
Dataclearing	2,330	2,388	2,191	1,511	1,348
Postgirot	3,637	4,886	4,796	4,064	4,086
<b>Concentration ratio</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>	<b>nav</b>

1) Total volume of domestic and cross-border payments sent via TARGET.

**Table 9**

**Indicators of the use of various cashless payment instruments:  
volume of transactions <sup>1)</sup>**  
(millions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques	40	18	4	4	2
<i>of which:</i>					
<i>face-to-face</i>	40	18	4	4	2
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Payments by debit card	88	121	160	198	254
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Payments by credit card <sup>2)</sup>	44	48	53	57	66
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Credit transfers	637	660	633	712	715
<i>of which:</i>					
<i>face-to-face</i>	196	208	175	171	154
<i>via PC or other terminal</i>	441	452	458	541	561
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Direct debits	54	65	74	85	91
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal</i>	54	65	74	85	91
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Card-based electronic money	nav	nav	2.0	4.2	2.9
Network-based electronic money	nav	nav	nav	nav	nav
<b>Total</b>	<b>863</b>	<b>912</b>	<b>926</b>	<b>1,060</b>	<b>1,131</b>

1) Excludes items initiated by banks; these data are not available.

2) Includes delayed debit card.

**Table 10**  
**Indicators of the use of various cashless payment instruments:**  
**value of transactions** <sup>1)</sup>  
 (SEK billions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques	nav	nav	43	30	22
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>teleshopping</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Payments by debit card	57	77	97	119	142
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>teleshopping</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Payments by credit card <sup>2)</sup>	44	47	52	55	66
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>teleshopping</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Credit transfers	6,732	7,317	7,498	7,108	7,562
<i>of which:</i>					
<i>face-to-face</i>	1,656	1,973	1,407	1,388	1,330
<i>via PC or other terminal</i>	5,076	5,344	6,091	5,720	6,232
<i>teleshopping</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Direct debits	202	193	210	227	257
<i>of which:</i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>teleshopping</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
Card-based electronic money	nav	nav	0.2	0.3	0.2
Network-based electronic money	nav	nav	nav	nav	nav
<b>Total</b>	<b>7,035</b>	<b>7,634</b>	<b>7,900</b>	<b>7,539</b>	<b>8,049</b>

1) Excludes items initiated by banks; these data are not available.

2) Includes delayed debit card.

**Table 11a**  
**Instructions handled by trading platforms, clearing houses and securities settlement systems:**  
**volume of transactions**  
 (millions)

	1996	1997	1998	1999	2000
CLICK and SAXESS					
Volume of trades - Derivatives	36.6	42.5	47.9	58.0	57.9
Volume of trades - Avista	3.3	4.8	6.4	8.4	13.8
Stockholmsbörsen Clearing					
Volume of trades cleared	36.6	42.5	47.9	58.0	57.9
VPC AB					
Volume of settlement instructions	3.7	5.3	5.8	8.9	7.7
Government securities	0.6	0.6	0.5	0.4	0.4
Equities	3.1	4.7	5.3	8.5	7.3

**Table 11b**
**Instructions handled by trading platforms, clearing houses and securities settlement systems:  
market value of transactions**  
(SEK billions)

	1996	1997	1998	1999	2000
CLICK and SAXESS					
Value of trades	918	1,346	1,830	2,609	4,456
Stockholmsbörsen Clearing					
Value of trades cleared	nav	nav	nav	nav	nav
VPC AB					
Value of settlement instructions	67,937	82,618	97,914	88,376	75,783
Government securities	66,432	80,272	94,782	84,227	68,743
Equities	1,505	2,346	3,132	4,149	7,040

**Table 11c**
**Number of participants in trading platforms, clearing houses and securities settlement systems**

	1996	1997	1998	1999	2000
CLICK and SAXESS	45	48	53	57	63
Banks	10	8	8	8	8
<i>of which:</i>					
<i>domestic</i>	10	8	8	8	8
<i>foreign</i>	nav	nav	nav	nav	nav
Broker/dealer	14	14	13	12	16
<i>of which:</i>					
<i>domestic</i>	14	14	13	12	16
<i>foreign</i>	nav	nav	nav	nav	nav
Members, banks and brokers, foreign owned	9	11	12	12	9
Members, banks and brokers, remote	12	15	20	25	30
Members, derivatives	43	42	40	44	45
OM Stockholm Exchange Clearing					
Banks					
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	nav	nav
<i>foreign</i>	nav	nav	nav	nav	nav
Broker/dealer					
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	nav	nav
<i>foreign</i>	nav	nav	nav	nav	nav
VPC AB	nav	55	57	51	55
Banks	nav	19	19	18	21
<i>of which:</i>					
<i>domestic</i>	nav	11	11	11	11
<i>foreign</i>	nav	8	8	7	10
Broker/dealer	nav	21	22	22	25
<i>of which:</i>					
<i>domestic</i>	nav	20	19	19	23
<i>foreign</i>	nav	1	3	3	2
Others	nav	15	16	11	9

**Table 11d**
**Outstanding securities**  
(end of year)

	1996	1997	1998	1999	2000
SAXESS					
Value of stocks listed (SEK billions)	1,687	2,164	2,413	3,717	3,583
Value of other securities listed (SEK billions)	nav	nav	nav	nav	nav
Number of stocks listed	229	261	276	300	311

Number of other securities listed	nav	nav	nav	nav	nav
VPC AB					
Value of stocks issued (SEK billions)	nav	nav	nav	nav	nav
Value of other securities issued (SEK billions)	nav	nav	nav	nav	nav
Number of stocks issued	nav	nav	nav	nav	nav
Number of other securities issued	nav	nav	nav	nav	nav

**Table 11e****Netting ratio in clearing systems**

	1996	1997	1998	1999	2000
VPC AB					
Netting ratio for cash over year	0.03	0.02	0.02	0.03	0.03
Netting ratio for securities over year	0.07	0.06	0.05	0.05	0.04

**Table 12****Participation in SWIFT by domestic institutions**

	1996	1997	1998	1999	2000
Members	9	8	7	7	7
<i>of which live</i>	8	7	7	7	7
Sub-members	12	13	13	12	11
<i>of which live</i>	12	13	13	11	11
Participants	3	6	9	13	13
<i>of which live</i>	2	2	9	13	12
Total users	24	27	29	32	31
<i>Memorandum items:</i>					
Total SWIFT users	5,918	6,372	6,771	6,991	7,293
<i>of which:</i>					
<i>members</i>	3,014	3,070	3,052	2,230	2,307
<i>sub-members</i>	2,500	2,621	2,781	2,825	3,037
<i>participants</i>	404	681	938	1,936	1,949

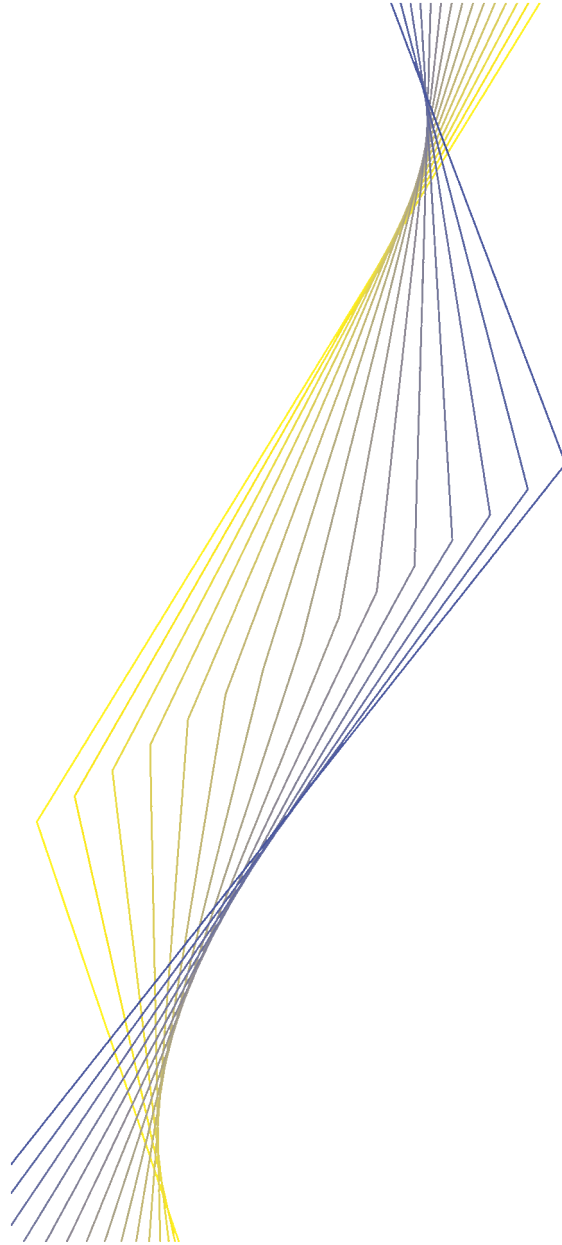
**Table 13****SWIFT message flows to/from domestic users**

	1996	1997	1998	1999	2000
Total messages sent	11,256,498	12,512,774	14,627,952	17,692,144	22,576,913
<i>of which:</i>					
<i>category I</i>	4,349,901	4,890,247	5,389,136	5,889,735	6,496,445
<i>category II</i>	2,400,631	2,576,992	2,866,339	3,168,282	3,432,628
Total messages received	8,992,702	10,296,368	11,844,938	13,950,316	16,844,471
<i>of which:</i>					
<i>category I</i>	3,167,954	3,649,313	4,122,240	4,636,178	5,193,749
<i>category II</i>	2,357,508	2,635,197	2,942,456	3,656,123	4,062,577
Domestic traffic	1,722,933	2,049,871	2,398,305	3,048,117	3,519,450
<i>Memorandum item:</i>					
Global SWIFT traffic	687,785,294	812,117,556	941,235,088	1,058,836,425	1,273,912,754





EUROPEAN CENTRAL BANK



**United Kingdom**





**Table 1****Basic statistical data**

	1996	1997	1998	1999	2000
Population <sup>1)</sup> (thousands)	58,782	59,021	59,227	59,435	59,672
GDP (GBP billions)	762.2	811.1	859.8	901.3	943.4
GDP per capita (GBP)	12,967	13,742	14,517	15,164	15,810
Exchange rate (domestic currency vis-à-vis EUR):					
<i>end of year</i>	0.73727	0.66680	0.70546	0.62170	0.62410
<i>average</i>	0.81380	0.69230	0.67640	0.65900	0.60948

1) Average for the year.

**Table 2****Settlement media used by non-banks**

	1996	1997	1998	1999	2000
Banknotes and coins	22.6	24.2	25.6	28.2	30.2
Transferable deposits	439.5	462.4	491.3	532.9	570.1
Narrow money supply (M2)	462.1	486.6	516.9	561.1	600.3
<i>Memorandum items:</i>					
Broad money supply	683.0	722.2	783.2	814.6	882.7
Transferable deposits in foreign currencies	69.4	64.4	60.8	65.8	80.5
Outstanding value on e-money schemes <sup>1)</sup>	neg	neg	neg	neg	neg
<i>of which:</i>					
<i>on card-based products</i>	neg	neg	neg	neg	neg
<i>on network-based products</i>	nap	nap	neg <sup>2)</sup>	nap	nap

1) There is no fully operational electronic money scheme currently in place.

2) A small trial scheme was run during 1998.

**Table 3****Settlement media used by banks**

(end of year, GBP billions)

	1996	1997	1998	1999	2000
Transferable balances held at central bank	2.94	2.74	1.60	2.06	1.56
<i>of which:</i>					
<i>required reserves <sup>1)</sup></i>	2.40	2.57	1.21	1.30	1.44
<i>free reserves</i>	0.54	0.17	0.39	0.76	0.12
Transferable balances held at other banks <sup>2)</sup>	227.6	243.6	232.4	230.0	255.3
<i>Memorandum item:</i>					
Institutions' borrowing from central bank <sup>3)</sup>	9.9	7.3	9.9	14.6	20.8

1) Reporting banks with average eligible liabilities of GBP 10 million or more were liable to lodge with the Bank of England non-operational, non-interest-bearing deposits of 0.35% of their eligible liabilities until 1 April 1998 and 0.25% until 1 June 1998 (institutions for which Northern Ireland is the main place of business in the United Kingdom were 0.25% throughout this period). On 1 June 1998 a statutory scheme came into effect whereby both banks and building societies with average eligible liabilities of GBP 400 million or more are required to hold non-interest-bearing deposits with the Bank of 0.15% of their eligible liabilities in excess of GBP 400 million.

2) Includes some time deposits.

3) Banks borrow from the Bank of England mainly through two-week repo transactions in gilt and euro debt, money bills and Treasury bills. Funds obtained in this way may be used for payment purposes.

**Table 4****Banknotes and coins**

(end of year, total value, GBP billions)

	1996	1997	1998	1999	2000
Total banknotes issued <sup>1), 2)</sup>	20.90	22.40	23.66	26.66	28.09
<i>of which:</i>					
GBP 50	3.37	3.71	3.99	4.24	4.67
GBP 20	10.02	11.14	12.38	14.47	15.50
GBP 10	6.34	6.43	6.21	6.79	6.80
GBP 5	1.12	1.08	1.09	1.17	1.11
GBP 1 <sup>3)</sup>	0.06	0.06	nap	nap	nap
Total coins issued <sup>4)</sup>	2.09	2.24	2.32	2.51	2.7
<i>of which:</i>					
GBP 5	nap	nap	nap	0.01 <sup>5)</sup>	nap
GBP 2	nap	nap	0.13	0.26	0.33
GBP 1	1.10	1.14	1.11	1.09	1.25
GBP 0.50	0.22	0.29	0.25	0.27	0.29
GBP 0.20	0.33	0.34	0.34	0.36	0.35
GBP 0.10	0.14	0.15	0.14	0.15	0.14
GBP 0.05	0.15	0.16	0.16	0.18	0.15
GBP 0.02	0.09	0.09	0.10	0.10	0.11
GBP 0.01	0.07	0.08	0.08	0.09	0.09
Total banknotes and coins issued	27.9	29.7	32.5	38.0	38.6
Banknotes and coins held by credit institutions <sup>6)</sup>	5.3	5.5	7.0	9.7	8.4
Banknotes and coins in circulation outside credit institutions <sup>6)</sup>	22.6	24.2	25.6	28.2	30.2

1) Bank of England banknotes only.

2) Average of Wednesdays in December.

3) GBP 1 notes "written-off" as at March 1998.

4) Estimate as at 31 December.

5) Millennium commemorative coin.

6) Not seasonally adjusted.

**Table 5****Institutional framework**

(end of 2000)

Categories	Number of institutions	Number of branches	Number of accounts (thousands)	Number of internet-linked accounts <sup>1)</sup>	Value of accounts (GBP billions)
Central bank	1	1 <sup>2)</sup>	nav	0	570.1 <sup>3), 4)</sup>
Credit institutions	500	15,059 <sup>4)</sup>	142,942 <sup>4)</sup>	6,446,000 <sup>4)</sup>	nap
Postal institution	1	18,393	16,200 <sup>5)</sup>	nap	1.3 <sup>6)</sup>
Total	502	33,452 <sup>6)</sup>	159,142 <sup>6)</sup>	6,446,000 <sup>6)</sup>	571.4
<i>of which:</i>					
virtual institutions	nap	nap	nap	nap	nap
Branches of foreign banks	245	nav	nav	nav	nav
<i>of which:</i>					
EU-based	120	nav	nav	nav	nav

1) Number of accounts associated to internet services (credit transfers, payment of bills etc. carried via the internet).

2) Central bank also has two outlets for note issue and 12 regional agencies for economic intelligence

*gathering purposes.*

3) *The Central bank and Credit institutions figure is amalgamated.*

4) *Includes private sector ordinary share and deposit accounts with United Kingdom building societies and shares and deposits below GBP 50,000 from corporate bodies, placed with building societies.*

5) *For Post Office, National Savings Ordinary Accounts only. NSB facilities are available at post offices on an agency basis.*

6) *Estimated figure.*

**Table 6**  
**Payment card functions and accepting devices**

(end of year)

	1996	1997	1998	1999	2000
<b>Cash function</b>					
Cards with a cash function (thousands)	88,946	96,825	106,131	111,857	118,682
Number of networks	3	3	3	1	1
Number of ATMs with a cash dispensing function	22,121	23,193	24,574	27,379	34,339
<i>of which:</i>					
<i>open access</i>	22,121	23,193	24,574	27,379	34,339
<i>limited access</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Volume of transactions (millions)	1,599	1,745	1,850	1,968	2,027
<i>of which:</i>					
<i>at ATMs with open access</i>	1,599	1,745	1,850	1,968	2,027
<i>at ATMs with limited access</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Value of transactions (GBP billions)	80	90	98	108	113
<i>of which:</i>					
<i>at ATMs with open access</i>	80	90	98	108	113
<i>at ATMs with limited access</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Number of ATMs with a giro transfer function	8,185	8,813	9,338	11,594	12,362
<i>volume of transactions (millions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>value of transactions (GBP billions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<b>Debit function</b>					
Cards with a debit function (thousands)	32,473	36,646	42,529	46,083	49,730
<i>of which:</i>					
<i>retailer cards (thousands) <sup>1)</sup></i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Number of networks	3	4	4	4	4
Number of terminals <sup>2)</sup>	550,000	530,000	610,000	700,000	735,000
Volume of transactions (millions) <sup>3)</sup>	1,290	1,528	1,767	2,100	2,385
<i>of which:</i>					
<i>transactions with retailer cards (millions)</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Value of transactions (GBP billions) <sup>3)</sup>	38.3	46.6	55.7	67.0	79.2
<i>of which:</i>					
<i>transactions with retailer cards (GBP billions)</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<b>Credit function</b>					
Cards with a credit function (thousands)	46,706	53,104	56,885	41,424	47,080
<i>of which:</i>					
<i>retailer cards (thousands) <sup>4)</sup></i>	15,370	17,643	18,586	<i>nav</i>	<i>nav</i>
Number of networks	2	2	2	2	2
Number of terminals <sup>2)</sup>	550,000	530,000	610,000	700,000	735,000
Volume of transactions (millions) <sup>3)</sup>	976	1,089	1,184	1,301	1,413
<i>of which:</i>					
<i>transactions with retailer cards (millions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Value of transactions (GBP billions) <sup>3)</sup>	46.3	53.7	60.2	70.4	78.8
<i>of which:</i>					
<i>transactions with retailer cards (GBP billions)</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>

United Kingdom

**Electronic money function** <sup>5)</sup>

Cards with an e-money function (thousands)	30	110	140	160	nav
Number of accepting terminals	1,922	3,537	1,642	1,921	nav
Number of networks	nav	nav	nav	nav	nav
Number of purchase transactions (millions)	nav	nav	nav	nav	nav
Value of purchase transactions (GBP billions)	neg	neg	neg	neg	neg
Number of loading transactions (millions)	0.06	0.10	0.19	0.35	neg
Number of loading terminals	nav	nav	nav	nav	nav
Value of money loaded (GBP billions)	neg	neg	neg	neg	neg
Float (GBP billions)	neg	neg	neg	neg	neg

**Delayed debit cards (charge cards)**

Cards with a delayed debit function (thousands)	2,803	2,982	3,270	3,447	3,772
Number of terminals	nav	nav	nav	nav	nav
Volume of transactions (millions)	149	163	177	189	205
Value of transactions (GBP billions)	12.3	13.9	15.1	17.7	23.6

*Memorandum item:*

Total number of cards in circulation <sup>6)</sup> (thousands)	96,642	104,355	112,277	118,238	127,194
<i>of which:</i>					
<i>credit, charge and debit cards with ATM functionality (thousands)</i>	64,244	72,505	82,384	88,653	95,758
<i>other cards with ATM functionality (thousands)</i>	24,702	24,320	23,747	23,204	22,924
<i>other cards (thousands)</i>	7,696	7,530	6,146	6,381	8,512

1) Retailers are not able to issue debit cards.

2) Estimate of total number of POS terminals in the United Kingdom. Most accept both credit and debit cards.

3) These data include use of UK-issued debit/credit cards at ATMs and at POS outside the United Kingdom.

4) This figure does not include the number of cards issued by smaller retailers. Data not available after 1998.

5) All major e-money trials in the United Kingdom had finished by end-2000.

6) Excluding any stand-alone e-money cards and retailer cards.

**Table 7**

**Payment instructions handled by selected interbank funds transfer systems:**

**volume of transactions** <sup>1)</sup>

(millions)

	1996	1997	1998	1999	2000
<b>CHAPS</b>	<b>14.4</b>	<b>16.5</b>	<b>18.0</b>	<b>22.3</b>	<b>25.0</b>
CHAPS sterling	14.4	16.5	18.0	19.8	21.7
CHAPS euro <sup>2)</sup>	nap	nap	nap	2.5	3.3
<b>Cheque and credit clearings</b> <sup>3)</sup>	<b>2,342</b>	<b>2,295</b>	<b>2,241</b>	<b>2,158</b>	<b>2,033</b>
Cheques	2,167	2,114	2,059	1,981	1,869
Paper-based credit transfers	175	181	182	177	164
<b>BACS</b>	<b>2,476</b>	<b>2,683</b>	<b>2,905</b>	<b>3,096</b>	<b>3,317</b>
Credit transfers	1,033	1,099	1,169	1,233	1,307
Direct debits	1,443	1,584	1,736	1,863	2,010
<b>Total</b>	<b>4,832</b>	<b>4,995</b>	<b>5,164</b>	<b>5,276</b>	<b>5,375</b>
<b>Concentration ratio</b> <sup>4)</sup>					
CHAPS sterling	83%	82%	82%	82%	84%
CHAPS euro	nap	nap	nap	67%	72%
Cheque and credit clearings	79%	79%	80%	78%	79%
BACS	76%	74%	78%	79%	76%

1) The table contains both customer and banks' own account transactions. Excludes inter-branch items.

2) Includes both domestic and cross-border (TARGET) payments.

3) Includes Northern Ireland (estimated) and Scotland.

4) Market share of the five largest participants in each payment system, based on the total volume of transactions.

**Table 8****Payment instructions handled by selected interbank funds transfer systems:****value of transactions<sup>1)</sup>**

(GBP billions)

	1996	1997	1998	1999	2000
<b>CHAPS</b>	<b>28,881</b>	<b>36,032</b>	<b>41,501</b>	<b>66,814</b>	<b>74,462</b>
<i>CHAPS sterling</i>	28,881	36,032	41,501	44,704	49,146
<i>CHAPS euro<sup>2)</sup></i>	nap	nap	nap	22,110	25,316
<b>Cheque and credit clearings<sup>3)</sup></b>	<b>1,405</b>	<b>1,456</b>	<b>1,470</b>	<b>1,473</b>	<b>1,453</b>
<i>Cheques</i>	1,304	1,355	1,372	1,379	1,365
<i>Paper-based credit transfers</i>	101	101	98	94	88
<b>BACS</b>	<b>1,250</b>	<b>1,432</b>	<b>1,602</b>	<b>1,762</b>	<b>1,922</b>
<i>Credit transfers</i>	897	1,025	1,147	1,277	1,405
<i>Direct debits</i>	353	407	455	485	517
<b>Total</b>	<b>31,536</b>	<b>38,920</b>	<b>44,573</b>	<b>70,049</b>	<b>77,837</b>
<b>Concentration ratio<sup>4)</sup></b>					
<i>CHAPS sterling</i>	82%	82%	81%	80%	80%
<i>CHAPS euro</i>	nap	nap	nap	75%	82%
<i>Cheque and credit clearings</i>	82%	82%	82%	82%	82%
<i>BACS</i>	nav	nav	nav	nav	nav

1) The table contains both customer and banks' own account transactions. Excludes inter-branch items.

2) Includes both domestic and cross-border (TARGET) payments.

3) Includes Northern Ireland (estimated) and Scotland.

4) Market share of the five largest participants in each payment system, based on the total value of transactions.

**Table 9****Indicators of the use of various cashless payment instruments:****volume of transactions<sup>1)</sup>**

(millions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
<i>Cheques<sup>2)</sup></i>	3,201	3,090	2,989	2,860	2,698
<i>of which:</i>					
<i>face-to-face</i>	3,201	3,090	2,989	2,860	2,698
<i>via PC or other terminal</i>	nap	nap	nap	nap	nap
<i>telebanking</i>	nap	nap	nap	nap	nap
<i>via mobile phone</i>	nap	nap	nap	nap	nap
<i>Payments by debit card<sup>3)</sup></i>	1,271	1,503	1,736	2,062	2,337
<i>of which:<sup>4)</sup></i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
<i>Payments by credit card<sup>3), 5)</sup></i>	1,025	1,128	1,224	1,344	1,452
<i>of which:<sup>4)</sup></i>					
<i>face-to-face</i>	nav	nav	nav	nav	nav
<i>via PC or other terminal</i>	nav	nav	nav	nav	nav
<i>telebanking</i>	nav	nav	nav	nav	nav
<i>via mobile phone</i>	nav	nav	nav	nav	nav
<i>Credit transfers<sup>6)</sup></i>	1,589	1,660	1,726	1,800	1,848
<i>of which:</i>					
<i>face-to-face<sup>7)</sup></i>	419	419	407	408	386
<i>via PC or other terminal<sup>8)</sup></i>	1,170	1,241	1,319	1,392	1,462

United Kingdom

televanking	nav	nav	nav	nav	nav
via mobile phone	nav	nav	nav	nav	nav
Direct debits <sup>3)</sup>	1,443	1,584	1,736	1,863	2,010
of which:					
face-to-face	nap	nap	nap	nap	nap
via PC or other terminal	1,443	1,584	1,736	1,863	2,010
televanking	nap	nap	nap	nap	nap
via mobile phone	nap	nap	nap	nap	nap
Card-based electronic money	nav	nav	nav	nav	nav
Network-based electronic money	nap	nap	neg	neg	nap
<b>Total</b>	<b>8,529</b>	<b>8,965</b>	<b>9,411</b>	<b>9,929</b>	<b>10,345</b>

1) This table contains all customer transactions. It also, for a number of instruments, includes banks' own account transactions where these cannot be identified separately (see further footnotes). Includes Northern Ireland and Scotland. Also includes some data and/or estimates of inter-branch and in-house processed items.

2) Includes inter-branch cheques and estimates of in-house processed cheques. Will include some own account items.

3) Customer transactions only.

4) There is no information on POS, non-POS etc. use of debit/credit cards.

5) Includes charge cards.

6) Includes inter-branch paper credit transfers plus some in-house automated transactions (including some transactions on banks' own accounts). From 1999 onwards, the figures include all payments into and out of the United Kingdom through TARGET and domestic CHAPS euro payments.

7) Paper credit transfers.

8) All other credit transfers.

**Table 10**  
**Indicators of the use of various cashless payment instruments:**  
**value of transactions <sup>1)</sup>**  
(GBP billions)

	1996	1997	1998	1999	2000
<b>Instruments</b>					
Cheques <sup>2)</sup>	1,925	1,979	1,991	1,991	1,971
of which:					
face-to-face	1,925	1,975	1,991	1,991	1,971
via PC or other terminal	nap	nap	nap	nap	nap
televanking	nap	nap	nap	nap	nap
via mobile phone	nap	nap	nap	nap	nap
Payments by debit card <sup>3)</sup>	37	45	54	65	76
of which: <sup>4)</sup>					
face-to-face	nav	nav	nav	nav	nav
via PC or other terminal	nav	nav	nav	nav	nav
televanking	nav	nav	nav	nav	nav
via mobile phone	nav	nav	nav	nav	nav
Payments by credit card <sup>3), 5)</sup>	50	58	64	76	87
of which: <sup>4)</sup>					
face-to-face	nav	nav	nav	nav	nav
via PC or other terminal	nav	nav	nav	nav	nav
televanking	nav	nav	nav	nav	nav
via mobile phone	nav	nav	nav	nav	nav
Credit transfers <sup>6)</sup>	30,073	37,349	42,932	68,378	76,143
of which:					
face-to-face <sup>7)</sup>	242	234	220	217	207
via PC or other terminal <sup>8)</sup>	29,831	37,115	42,712	68,161	75,936
televanking	nap	nap	nap	nap	nap
via mobile phone	nap	nap	nap	nap	nap

Direct debits <sup>3)</sup>	353	407	455	485	517
<i>of which:</i>					
<i>face-to-face</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>via PC or other terminal</i>	353	407	455	485	517
<i>teletanking</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
<i>via mobile phone</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>	<i>nap</i>
Card-based electronic money	neg	neg	neg	nav	nav
Network-based electronic money	nap	nap	neg	neg	nap
<b>Total</b>	<b>32,438</b>	<b>39,838</b>	<b>45,496</b>	<b>70,995</b>	<b>78,794</b>

1) This table contains all customer transactions. It also, for a number of instruments, includes banks' own account transactions where these cannot be identified separately (see further footnotes). Includes Northern Ireland and Scotland. Also includes some data and/or estimates of inter-branch and in-house processed items.

2) Includes inter-branch cheques and estimates of in-house processed cheques. Will include some own account items.

3) Customer transactions only.

4) There is no information on POS, non-POS etc. use of debit/credit cards.

5) Includes charge cards.

6) Includes inter-branch paper credit transfers plus some in-house automated transactions (including some transactions on banks' own accounts). From 1999 onwards, the figures include all payments into and out of the United Kingdom through TARGET and domestic CHAPS euro payments.

7) Paper credit transfers.

8) All other credit transfers.

**Table 11a**

**Instructions handled by trading platforms, clearing houses and securities settlement systems:**

**volume of transactions**

(millions)

	1996	1997	1998	1999	2000
<b>Trading platforms</b>					
<b>London Stock Exchange</b>					
Volume of transactions <sup>1)</sup>	15.6	18.8	23.4	28.6	40.7
<i>of which:</i>					
<i>United Kingdom</i>	11.0	13.3	16.3	21.1	29.4
<i>other</i>	4.6	5.4	7.1	7.6	11.3
<b>Tradepoint</b>					
Volume of transactions <sup>1)</sup>	neg	0.01	0.03	0.03	0.05
<b>Clearing houses</b>					
<b>London Clearing House</b>					
Volume of trades cleared <sup>2)</sup>	233.8	304.0	267.2	206.0	197.3
<i>of which:</i>					
<i>securities</i>	<i>nav</i>	<i>nav</i>	189.9	116.1	100.7
<i>commodities</i>	<i>nav</i>	<i>nav</i>	77.3	89.9	96.6
<b>Securities settlement systems</b>					
<b>CREST</b> <sup>3), 4), 5)</sup>					
Volume of settlement instructions	1.6	29.0 <sup>6)</sup>	35.8	43.2	59.1
<b>CGO</b> <sup>5), 7)</sup>					
Volume of settlement instructions	1.0	1.0	1.1	2.1	nav
<b>CMO</b> <sup>5)</sup>					
Volume of settlement instructions	0.3	0.3	0.2	0.3	0.2
<b>ESO</b> <sup>5), 8)</sup>					
Volume of settlement instructions	neg	neg	nap	nap	nap

1) Number of bargains settled.

2) Number of contracts.

3) CREST commenced operations on 15 July 1996.



- 4) Data are for United Kingdom and Northern Ireland. Irish transactions in 1999 accounted for 1.6% of the total volume.  
 5) Volumes include one side of each transaction.  
 6) TALISMAN and CREST data are combined.  
 7) CGO was closed in July 2000 and the settlement of government securities taken over by CREST.  
 8) ESO was closed on 31 December 1997.

**Table 11b**
**Instructions handled by trading platforms, clearing houses and securities settlement systems:  
 market value of transactions**

(GBP billions)

	1996	1997	1998	1999	2000
<b>Trading platforms</b>					
<b>London Stock Exchange</b>					
Value of transactions	1,781	2,456	3,220	3,831	5,416
<i>of which:</i>					
<i>United Kingdom</i>	742	1,013	1,037	1,411	1,896
<i>other</i>	1,039	1,443	2,183	2,420	3,520
<b>Tradepoint</b>					
Value of transactions	0.4	2.5	7.5	7.1	13.6
<b>Clearing houses</b>					
<b>London Clearing House</b>					
Value of trades cleared <sup>1)</sup>	nav	nav	nav	50,177	62,535
<b>Securities settlement systems</b>					
<b>CREST</b> <sup>2), 3), 4)</sup>					
Value of settlement instructions	109	3,996 <sup>5)</sup>	7,367	9,473	48,693
<b>CGO</b> <sup>4), 6)</sup>					
Value of settlement instructions	24,288	28,283	32,962	33,146	nav
<b>CMO</b> <sup>4)</sup>					
Value of settlement instructions	3,483	3,842	3,316	2,337	2,405
<b>ESO</b> <sup>4), 7)</sup>					
Value of settlement instructions	90	141	nav	nav	nav

1) Contract values, securities.

2) CREST commenced operations on 15 July 1996.

3) Data are for United Kingdom and Northern Ireland.

4) Turnover includes one side of each transaction.

5) TALISMAN and CREST data are combined.

6) CGO was closed in July 2000 and the settlement of government securities taken over by CREST.

7) ESO was closed on 31 December 1997.

**Table 11c**
**Number of participants in trading platforms, clearing houses and securities settlement systems**

	1996	1997	1998	1999	2000
<b>Trading systems</b>					
<b>London Stock Exchange</b>	<b>302</b>	<b>273</b>	<b>276</b>	<b>289</b>	<b>293</b>
Banks	nav	nav	nav	nav	nav
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	nav	nav
<i>foreign</i>	nav	nav	nav	nav	nav
Broker/dealer	nav	nav	nav	nav	nav
<i>of which:</i>					
<i>domestic</i>	nav	nav	nav	nav	nav
<i>foreign</i>	nav	nav	nav	nav	nav
Other institutions	nav	nav	nav	nav	nav
<i>of which:</i>					

<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<b>Tradepoint</b>	<b>63</b>	<b>81</b>	<b>91</b>	<b>128</b>	<b>127</b>
Banks	<i>nav</i>	<i>nav</i>	<i>nav</i>	42	36
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	39	35
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	3	1
Broker/dealer	<i>nav</i>	<i>nav</i>	<i>nav</i>	54	58
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	41	46
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	13	12
Other institutions	<i>nav</i>	<i>nav</i>	<i>nav</i>	32	33
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	29	31
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	3	2
<b>Clearing systems</b>					
<b>London Clearing House</b>	<b>126</b>	<b>126</b>	<b>117</b>	<b>110</b>	<b>112</b>
Banks <sup>1)</sup>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	35
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	8
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	27
Broker/dealer <sup>2)</sup>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	69
<i>of which:</i>					
<i>domestic</i> <sup>3)</sup>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	57
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	12
Other institutions	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	8
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<b>Securities settlement systems</b>					
<b>CREST</b>	<b>1,143</b>	<b>3,432</b>	<b>5,365</b>	<b>22,949</b>	<b>28,489</b>
Banks, brokers/dealers etc.	994	1,466	1,713	1,715	1,636
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Others	149	1,966	3,652	21,234	26,853
<i>of which:</i>					
<i>private clients</i>	149	1,966	3,652	21,234	26,853
<b>CGO</b> <sup>4)</sup>	<b>264</b>	<b>232</b>	<b>322</b>	<b>378</b>	<b>nap</b>
Banks, brokers/dealers etc.	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Others	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>of which:</i>					
<i>private clients</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<b>CMO</b>	<b>59</b>	<b>88</b>	<b>84</b>	<b>60</b>	<b>70</b>
Banks, brokers/dealers etc.	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>of which:</i>					
<i>domestic</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>foreign</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
Others	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>
<i>of which:</i>					
<i>private clients</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>	<i>nav</i>

1) Deposit-taking bank institutions.

2) Includes broker/dealers that are wholly-owned by banks.

3) Includes firms/institutions registered in the United Kingdom though ultimately owned by a foreign registered parent.

4) CGO was closed in July 2000 and the settlement of government securities taken over by CREST.

**Table 11d****Outstanding securities**

(end of year)

	1996	1997	1998	1999	2000
<b>London Stock Exchange</b>					
Value of securities issued <sup>1)</sup> (GBP billions)	3,405	3,686	4,231	5,425	5,338
<i>of which:</i>					
United Kingdom	1,017	1,257	1,427	1,834	1,812
other	2,388	2,429	2,804	3,591	3,526
Number of securities issued <sup>1)</sup>	2,958	2,991	2,921	2,791	2,929
<i>of which:</i>					
United Kingdom	2,425	2,465	2,399	2,292	2,428
other	533	526	522	499	501
Value of securities registered <sup>2)</sup> (GBP billions)	3,405	3,686	4,231	5,425	5,338
Number of securities registered <sup>2)</sup>	2,958	2,991	2,921	2,791	2,929
<b>Tradepoint</b>	nav	nav	nav	nav	nav
<b>Securities settlement systems</b>					
<b>CREST</b>					
Value of securities issued (GBP billions)	455	1,040	1,169	1,320	1,785
Volume of securities issued	960	3,089	3,496	5,852	10,873
Value of securities registered <sup>2)</sup> (GBP billions)	455	1,040	1,169	1,320	1,785
Number of securities registered <sup>2)</sup>	960	3,089	3,496	5,852	10,873
<b>CGO</b> <sup>3)</sup>					
Value of securities issued (GBP billions)	nav	nav	nav	256	nav
Volume of securities issued	nav	nav	nav	184	nav
Value of securities registered <sup>2)</sup> (GBP billions)	nav	nav	nav	256	nav
Number of securities registered <sup>2)</sup>	nav	nav	nav	184	nav
<b>CMO</b> <sup>4)</sup>					
Value of securities issued (GBP billions)	118	124	140	154	143
Number of securities issued	54,525	60,084	57,920	63,119	58,805
Value of securities registered <sup>2)</sup> (GBP billions)	118	124	140	154	143
Number of securities registered <sup>2)</sup>	54,525	60,084	57,920	63,119	58,805

1) Data show value and number of securities listed on the London Stock Exchange.

2) In the UK, all securities are both listed and registered.

3) CGO was closed in July 2000 and the settlement of government securities taken over by CREST.

4) CMO only settles bearer instruments.

**Table 11e****Netting ratio in clearing systems**

	1996	1997	1998	1999	2000
<b>London Clearing House</b>					
Netting ratio for cash over year	nav	nav	nav	nav	65%
Netting ratio for securities over year <sup>1)</sup>	nav	nav	nav	nav	50%

1) Excludes financial and equity derivatives; end year.

**Table 12****Participation in SWIFT by domestic institutions**

	1996	1997	1998	1999	2000
Members	68	66	63	57	60
<i>of which live</i>	66	65	59	53	58
Sub-members	239	243	253	245	294

<i>of which live</i>	236	240	250	243	289
Participants	91	112	129	146	119
<i>of which live</i>	80	104	120	134	115
Total users	398	421	445	448	473
<i>of which live</i>	382	409	429	430	462
<i>Memorandum items:</i>					
Total SWIFT users	5,918	6,372	6,771	6,991	7,293
members	3,014	3,070	3,052	2,230	2,307
sub-members	2,500	2,621	2,781	2,825	3,037
participants	404	681	938	1,936	1,949

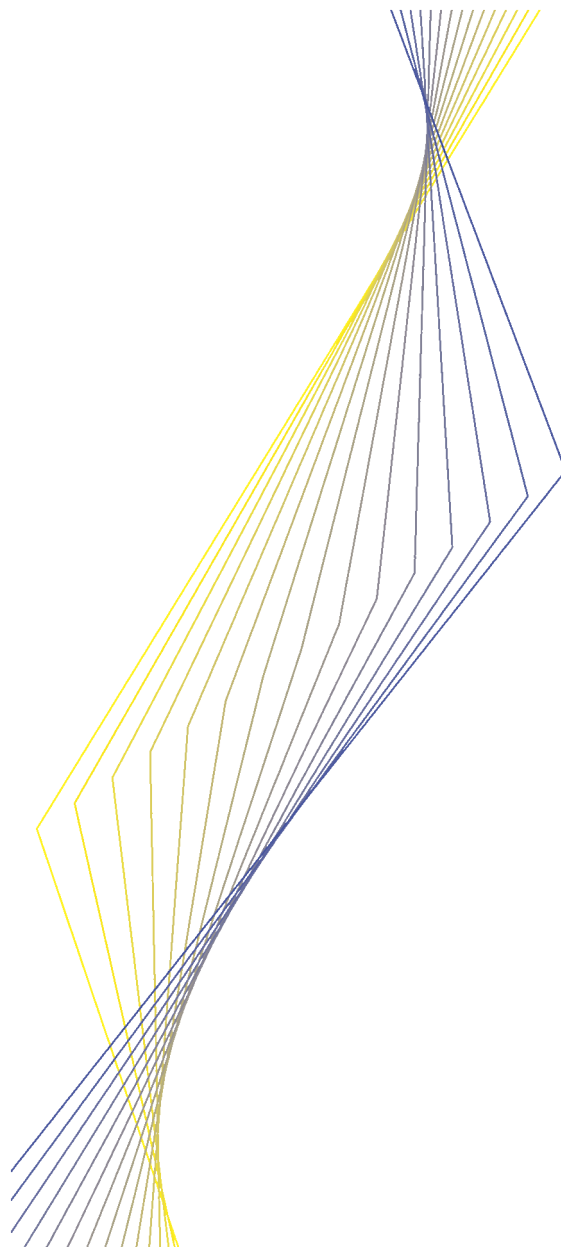
**Table 13**  
**SWIFT message flows to/from domestic users**

	1996	1997	1998	1999	2000
Total messages sent	82,578,192	100,441,417	116,671,655	139,153,660	178,684,934
<i>of which:</i>					
<i>category I</i>	12,312,467	13,797,623	15,438,669	19,241,474	22,091,421
<i>category II</i>	23,419,297	26,714,116	29,200,240	28,971,353	29,459,448
Total messages received	79,741,899	101,914,835	124,101,890	157,627,881	208,351,654
<i>of which:</i>					
<i>category I</i>	15,500,253	17,009,249	18,595,169	22,267,913	25,003,567
<i>category II</i>	9,429,168	11,142,323	12,208,457	18,941,986	21,433,758
Domestic traffic	19,335,978	23,902,129	28,685,906	39,076,825	51,680,311
<i>Memorandum item:</i>					
Global SWIFT traffic	687,785,294	812,117,556	941,235,088	1,058,836,425	1,273,912,754





EUROPEAN CENTRAL BANK



## **Annexes**

### **Methodology for the statistical data**

**July 2002**



## Statistical methodology for the country tables

### General

Exceptions	Data in the tables conform to this methodology unless otherwise indicated. However, it should be noted that varying methods of collecting data can also complicate cross-country comparisons.
Breaks in series	These are indicated by a footnote.
Sources of data	These are indicated where appropriate.
Definitions	Definitions in the tables which are not given in this methodology are based on the glossary included in "Payment and securities settlement systems in the European Union", ECB, June 2001 ( <a href="http://www.ecb.int">http://www.ecb.int</a> ).  Where necessary, footnotes to individual tables explain the country-specific definitions, e.g. of "banks". (It should be noted that, in general, the term "banks" should be broadly construed according to local regulations so as to include all relevant financial institutions, e.g. "credit institutions" in EU countries.)
Intrabank items	These are included as appropriate, except where indicated.
Foreign currency	Foreign currencies are not included in the figures unless otherwise indicated.
Total	Totals are calculated on the basis of the items available.
Time period	Each table indicates the period (e.g. year) or point of time (e.g. end-year) to which the data apply. Where the data apply to a period, the data are the total for that period, unless otherwise indicated (e.g. a daily average).
Estimated data	Where data are broadly estimated and thus only indicative, this is indicated in a footnote (except for population and GDP in Table I and data in Tables I2 and I3, where it is understood that the data are estimated).
Seasonal adjustment	Figures are not seasonally adjusted unless otherwise indicated.
"nav", "nap", "neg" and "0"	Where data are not available, this is indicated by "nav". Where data are not applicable, this is indicated by "nap". Where data are very small (relative to other relevant data in the table concerned), this is indicated by "neg". Where data mean absolutely zero or none, rather than being a small number rounded to zero, this is indicated by "0".



<b>Table 1:</b>	<b>Basic statistical data</b>
Population	Figures are averages for the year or at a point in the year as indicated.
GDP	Figures are nominal (not real).
GDP per capita	This figure is the GDP figure divided by the population figure.
Exchange rate (domestic provided currency vis-à-vis EUR) end-of-year average	The exchange rate of the local currency against the euro is both as an end-of-year value and as an average for the year.

<b>Table 2:</b>	<b>Settlement media used by non-banks</b>
Banknotes and coins	Banknotes and coins represent the value of cash in circulation in the economy. This excludes the value of banknotes and coins kept in vaults at central banks or at banks (see Table 4), but includes the value held by non-residents.
Transferable deposits	These are transferable deposits, which can be used to make cashless payments using one of the instruments mentioned in Tables 9 and 10. They do not include deposits in foreign currencies unless these are included in M1. If they are not included in M1, they are included under the separate item transferable deposits in foreign currencies.
Others	Filled in only if the narrow money supply (M1) includes items other than banknotes and coins and transferable deposits.
M1	Cash in circulation and transferable deposits held by non-banks. This line has not been filled in by countries which no longer calculate this aggregate.
<i>Memorandum item:</i>	
Broad money supply	Included in some cases. Footnotes to individual tables explain the definition of broad money supply used and how it differs from narrow money supply.
Outstanding value on e-money schemes	The difference between the value of cash loaded onto electronic purses (a reloadable multi-purpose prepaid card which may be used for small retail or other payments instead of banknotes and coins) or onto electronic wallets (a computer device used in some electronic money systems which can contain an IC card or in which IC cards can be inserted and which may perform more functions than an IC card) and the value spent.

**Table 3:****Settlement media used by banks**

Transferable balances held at central bank	Deposits held by banks at the central bank which can be used for payment purposes, regardless of the type of account (e.g. current account, reserve account, settlement account or clearing account).
of which: <i>required reserves</i>	Funds that banks are required to hold at the central bank. If only part of the required reserves can be used for payment purposes, that amount is indicated here.
<i>free reserves</i>	Funds held voluntarily at the central bank that can be used for payment purposes.
Transferable deposits at other banks	Deposits held at other banks in the country (not at the central bank) which can be used for payment purposes.
Others	Included only if assets other than balances held at central bank and transferable deposits at other banks are relevant. In some cases a breakdown is provided. In other cases a footnote indicates what is included in this item.
<i>Memorandum item:</i>	
Institutions' borrowing from central bank	Institutions' borrowing (in the forms defined in a footnote by the respective country) from the central bank which can be used for payment purposes.

**Table 4:****Banknotes and coins (end-of-year figures)**

Total banknotes issued	Value of banknotes which are part of the central bank's liabilities. A breakdown by denomination is provided.
Total coins issued	The total value of coins is provided along with a breakdown by denomination.
Total banknotes and coins issued	Value of banknotes and coins excluding those kept in vaults at central banks or at treasury departments (but including those held at banks).
Banknotes and coins held by credit institutions	Banknotes and coins in the vaults of credit institutions and thus not in circulation.
Banknotes and coins in circulation outside credit institutions	Total banknotes and coins issued minus banknotes and coins held by credit institutions (identical to banknotes and coins in Table 2).

<b>Table 5:</b>	<b>Institutional framework (end-of-year figures)</b>
Categories	Categories of institutions are based on the individual countries' own financial systems. Particular categories are explained in a footnote, where necessary.
Columns 1 and 2	Number of points of entry into the cashless payment system.
Column 1: number of institutions	Any institution which executes cashless payments is mentioned even if it does not hold deposits for customers (e.g. because the money transferred is given to the institution in cash by the customer, or debited from a sight account held at another institution).
Column 2: number of branches	All branches of an institution. As a rule, the head office of the institution is counted as a branch if it offers cashless payment services.
Column 3: number of accounts	Number of accounts on which cashless payments (see definitions in Tables 9 and 10) can be made.  The only accounts mentioned here are those which: <ul style="list-style-type: none"> <li>– are held by deposit-taking institutions for non-deposit-taking institutions;</li> <li>– can be debited directly using one of the instruments mentioned in Tables 9 and 10.</li> </ul>
Column 4: number of internet-linked accounts	Number of accounts, relating to internet services (credit transfers and the payment of bills, etc. carried out via the internet).
Column 5: value of accounts	Aggregate amount of deposits held on accounts mentioned in Columns 3 and 4. As a rule, the sum of the entries in the last column is identical to transferable deposits in Table 2.
Virtual institutions	Institutions providing services only via the internet.
<i>Memorandum item:</i>	
Branches of foreign banks	Branches or agencies of foreign banks. Banks which are foreign-owned or are subsidiaries of foreign banks are not included here.
of which EU-based	Sub-item to branches of foreign banks, giving the number of branches for which the head office is located in the EU.

**Table 6: Payment card functions and accepting terminals (end-of-year figures)**

All items include systems operated by banks and non-banks.

A card which has several functions is counted in each relevant line (e.g. a eurocheque card in Europe which can be used to withdraw cash, to make payments and to guarantee cheques is counted in each of the first three main items). Similarly, a number of terminals accept both debit and credit cards. Therefore, in general, these figures should not be added.

A transaction might also include balance enquiries, rather than only those which affect the account balances. It is indicated in a footnote if this is the case, and it cannot be measured separately.

Cards with a cash function	Any card enabling the holder to withdraw cash from a cash dispenser.
Number of networks	A network of ATMs is defined as a group of ATMs managed by one or more service providers for a bank or group of banks.
ATMs with a cash dispensing function	Electro-mechanical device allowing the authorised user to withdraw cash from its account and in some cases to access a range of other services, such as balance enquiries, transfers of funds and acceptance of deposits. The ATM may be operated online (with real-time reference to an authorisation database) or offline.
Number of machines	As a rule, each terminal is counted as one machine.
Open access	The ATM can be accessed by a holder of a card issued by a bank other than the bank which owns the ATM, subject to an agreement between the two banks.
Limited access	The ATM can only be accessed by a holder of a card issued by the bank which owns the ATM.
ATMs with a giro transfer function	ATMs which allow a cardholder to make credit transfers from its own account to other accounts held at the same institution or at different institutions.
Card with a debit function	A card which enables the holder to have purchases directly charged to funds on the cardholder's account at a deposit-taking institution (may sometimes be combined with another function, such as that of a cash card or cheque guarantee card).
Retailer card	A card issued by non-banking institutions for use at specified retail outlets.
EFTPOS	A terminal at a retail location which is designed to capture, and in some cases also transmit, debit card transactions by electronic means.

Number of networks	An EFTPOS network is defined as a group of EFTPOS terminals managed by one or more service providers for a bank or group of banks.
Number of machines	As a rule, each EFTPOS terminal is counted as one machine.
Card with a credit function	A card indicating that the holder has been granted a line of credit. It enables the holder to make purchases and/or withdraw cash up to a pre-arranged ceiling. The credit granted may be settled in full by the end of a specific period, or may be settled in part, with the balance taken as extended credit. Interest is charged on the amount of extended credit and the holder is sometimes charged an annual fee.
Retailer credit card	A card issued by non-banking institutions for use at specified retail outlets. The holder of the card is granted a line of credit.
Card with an e-money function	A reloadable multi-purpose prepaid card which can be used at the sites of several service providers for a wide range of purposes and which has the potential to be used on a national or an international scale, but may sometimes be restricted to a certain area.  Only the number of valid cards in circulation should be provided, not the number of cards issued, since this figure would not be very informative if empty or invalid cards were included.
Accepting terminals	Refers to the number of terminals (devices) at the point of sale for receiving e-money. Mobile phones should not be included in this figure.
Float	Amount of money (cash value) which has been loaded onto the e-money card and has not been used.

Travel and entertainment cards need to be mentioned in the relevant category.

Delayed debit cards should be mentioned separately.

#### **Tables 7 and 8: Volume and value of payment instructions handled by selected interbank funds transfer systems**

With regard to the volume and value of transactions, each payment instruction is counted once (not twice, i.e. the debit from the payer's account and the credit to the payee's account are not counted separately).

IFTS	Interbank funds transfer systems in which most (or all) direct participants are credit institutions and which are used primarily to process cashless payments.
Funds transfer systems (FTS)	A formal arrangement based on private contract or statute law with multiple membership, common rules and standardised arrangements for the transition and settlement of money obligations arising between the members. As a rule, all IFTSs are mentioned here, both those managed by central banks and those managed by private operators. Figures are provided system by system, with categories of various payment instruments (such as cheques, direct debits, credit transfers, postal drafts, ATMs and POSs, etc.) as sub-items.
Concentration ratio	Market share of the five largest participants in each system.

#### **Tables 9 and 10: Volume and value of Indicators of use of various cashless payment instruments**

These tables present the instruments that customers use for initiating payments to the banking system. Data on the instruments that the banks themselves use are also included, if available. The inclusion/exclusion of the latter data is indicated with a footnote. The objective of these tables is to estimate the volume and the value of cashless payment instruments used in the country concerned. Figures concerning only a sample of banks or customers should not be given, but should be extrapolated to provide figures covering the whole volume and value of cashless payment instruments used in the country.

In principle, the term “payment” is defined here to exclude any funds transfer in which the originator and the beneficiary are the same. This definition excludes any funds transfers in which the originator and the beneficiary are the same institution or individual. Therefore, any instrument which is used by banks’ customers to obtain cash should not be counted (e.g. cheques used to obtain cash, or ATM withdrawals - although these operations might be included in Tables 7 and 8, which have a different focus). Likewise, transfers between accounts in the same name at the same institution are excluded (e.g. transfers from a cheque account to a savings account, if both accounts are held at the same bank). However, because in practice it is usually impossible to exclude them from the data, transfers between accounts in the same name, but where the accounts are held at different institutions, are included unless indicated otherwise.

Strictly speaking “cashless” means “without the involvement of cash”. Such a narrow definition would exclude money (postal) orders, which involve cash at one or both ends of the transaction, as well as the majority of traveller’s cheques, which are often paid in cash. It is not realistic to use such a narrow definition because it is very doubtful whether available statistics would permit a breakdown of the number of money orders or traveller’s cheques according to the way they are paid or settled. Therefore, all payment instruments which involve cashless interbank settlement are included in the statistics.

In the case of cross-border payments, there is a need to avoid double counting (i.e. in the country of the originator and in the country of the beneficiary). Cross-border cashless payments are accordingly counted in the country of the originator.

The following guidelines are also followed:

- No distinction is made between interbank items (bank A to bank B), inter-branch items (bank A branch to another bank A branch), or intra-branch items (bank A customer to another bank A customer at the same branch): all are included in the statistics.
- Funds transfers used to settle credit card transactions are included (this is a payment from the user to the issuer).
- Money orders are included under credit transfers.
- Delayed debit cards are included under debit or credit cards, the means of inclusion is explained in a footnote.

The division of each payment instrument into sub-categories is based on the way in which the customer submits the payment instrument to the bank. Accordingly, each payment instrument is distinguished as follows:

- |                            |   |
|----------------------------|---|
| – face-to-face             | – paper-based (e.g. cheques) or electronically submitted (e.g. debit card at EFTPOS); |
| – via PC or other terminal | – the client submits the payment instrument via the internet;                         |
| – telebanking              | – via a fixed line network;   |
| – via mobile               | – via a wireless network.   |

Cheques issued	Traveller's cheques, eurocheques and bankers' drafts are included under cheques. Commercial bills are included if funds transfers can be made on the basis of these, without using another medium.
Payments by debit and credit cards	Also includes charge cards.
Other card payments	Payments made using retailer cards or prepaid cards are shown here if the data are available. The row label or a footnote indicates the type of payments included.
Credit transfers	A payment order or possibly a sequence of payment orders made for the purpose of placing funds at the disposal of the beneficiary.
Direct debits	Pre-authorized debit of the payer's account by the payee.
Total	The sum of the above items.

**Tables I Ia and I Ib: Instructions handled by trading platforms, clearing houses and securities settlement systems (volume and value of transactions)**

Figures are provided separately for each trading platform, clearing house and securities settlement system, with categories of various securities (such as government securities, bonds, shares, certificates of deposits (CDs), futures, options, etc.) as sub-items. Where data are not available for some of the sub-items, this is indicated with “nav”.

Central banks can provide figures separately for each trading platform, clearing house and securities settlement system or have the option to provide figures only in respect of securities settlement systems, indicating “nav” for not available or “nap” for not applicable for data relating to trading platforms and clearing houses.

Transfer instructions comprise all transfer instructions entered into the trading platform, clearing house or securities settlement system (including deliveries free of payment). As regards options, all the contracts are included.

As far as CDs are concerned, transactions should be considered regardless of their issuers (banks, central bank or mortgage institutions). Each transaction is counted once (not twice for sale and purchase). It is the transactions themselves that are counted and not the double message notifications.

Trading platform	An infrastructure or mechanism aimed at facilitating securities transactions between those who wish to buy and sell. A trading platform could be a legal entity recognised as an exchange or an integrated part of a stock exchange.
Clearing house	A department of an exchange or a separate legal entity which provides a range of services related to the clearing and settlement of transactions and payments and to the management of risks associated with the resulting contracts. In many cases, the clearing house acts as the central counterparty.
Securities settlement systems	Transfer systems which settle transfer instructions for both securities and funds. As a rule all SSSs are mentioned here, not only those managed by the central bank, but also those managed by private operators.

**Table I Ic: Number of participants in trading platforms, clearing houses and securities settlement systems**

Figures are provided separately for each trading platform, clearing house and securities settlement system, with categories of various participants (such as banks and stockbrokers, etc.) as sub-items.

Central banks can provide figures separately for each trading platform, clearing house and securities settlement system or have the option to provide figures only in respect of securities



settlement systems, indicating “nav” for not available or “nap” for not applicable for data relating to trading platforms and clearing houses.

**Table 11 d: Outstanding securities**

Number and value of securities which have been issued; number and value of securities which have been registered. Countries can also provide figures for the “total volume”.

Number of stocks listed	This covers the number of companies whose shares are traded on that particular trading platform. If a particular company has more kinds of shares listed on the same platform, these should only count as one.
Number of other securities listed	The number of ISIN codes that are traded on that particular trading platform (not counting the shares that have already been counted in the line above).

**Table 11 e: Netting ratio in clearing systems**

The figure showing the size of the netted transactions in relation to the size of the traded transactions before netting takes place. The ratio refers to the value of the transactions.

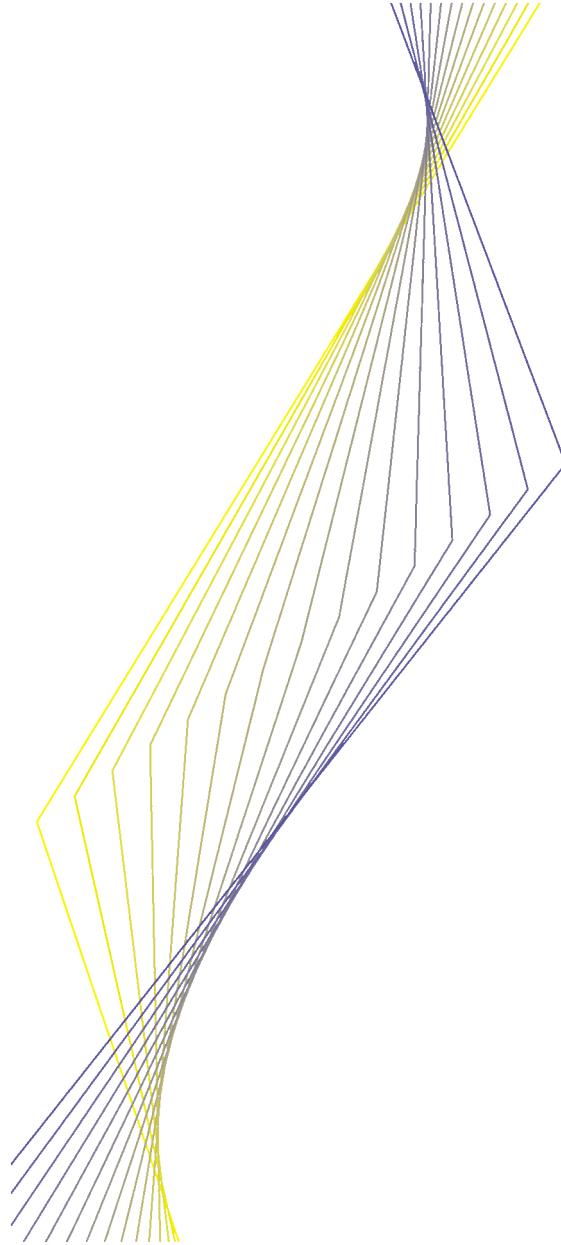
**Tables 12 and 13: SWIFT tables**

These figures are provided by SWIFT.

Sub-members (Table 12)	Domestic users sponsored by members abroad.
Participants (Table 12)	Participants are not shareholders of SWIFT and their message traffic over the network is restricted.
Category I (Table 13)	Messages used by banks to transfer funds to an account of a customer (i.e. messages relating to payments that are messages, category I e.g. MT100 messages).
Category II (Table 13)	Messages used by banks to transfer funds to an account of another bank (i.e. messages relating to payments that are category II messages, e.g. MT200 messages).
Domestic traffic (Table 13)	Messages sent to/received from domestic users.



EUROPEAN CENTRAL BANK



**Editorial Group Members**

**July 2002**



## Members of the Editorial Group from the national central banks responsible for the 2002 edition of the “Blue Book” Addendum

Nationale Bank van België/ Banque Nationale de Belgique	Mr. Koen Geenen
Danmarks Nationalbank	Mr. Allan Christensen
Deutsche Bundesbank	Ms Sylvia Tyroler Mr. Christian Starck
Bank of Greece	Ms Georgia Karageorgis
Banco de España	Mr. Carlos Conesa Ms Montserrat Jimenez
Banque de France	Ms Christine Bardinet Ms France Picatto
Central Bank of Ireland	Ms Margaret Daly
Banca d'Italia	Mr. Luca Risolo
Banque centrale du Luxembourg	Mr. Marc Roncar
De Nederlandsche Bank	Ms Elisabeth Ledrut Mr. Rob Valcq
Oesterreichische Nationalbank	Dr. Martin Oppitz
Banco de Portugal	Mr. José Manuel Rodrigues
Suomen Pankki – Finlands Bank	Ms Kirsti Tanila
Sveriges Riksbank	Mr. Björn Segendorff
Bank of England	Mr. Roy Clive

Special thanks to those who have contributed to this edition of the “Blue Book” Addendum: Ms Maria Foskolou, Mr. Rodrigo Oliveira-Soares, Ms Anca Zimmermann, Ms Elke Wunstorf, Ms Sarah Ann Croasdale, Mr. Peter Wilkinson and Ms Isabelle Eeman of the European Central Bank and Mr. Gynedi Srinivas and Mr. Stephan Arthur of the Bank for International Settlements.