## E-Payments without frontiers

Rafaël Rondelez

Deputy Head of the crimes against property and financial crime unit

> European Central Bank Frankfurt, 10 November 2004



## New kinds of attacks in e-payment infrastructures

- Skimming
- Hacking
- Phishing
  - □ By e-mail
  - False merchant sites or trangulation
  - Spyware
    - trojan horse virus
    - keystroke loggers
- Social engineering
- Wire tapping



Affected types of systems and communication networks

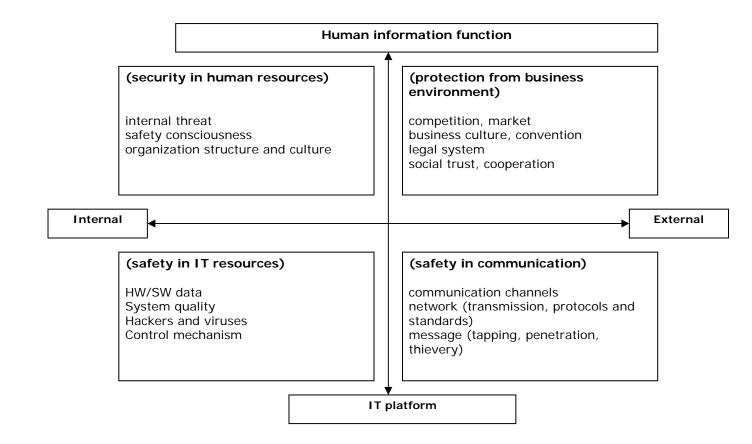
- Systems using magnetic stripe payment cards
- Merchant databases
- Online/home banking systems
- Mediating systems



## Spread and origin of fraud

Cardening
IRC Chat rooms
ICQ messages
Carder websites
Use of proxy servers
Belarus, Ukraine..

## Protection and Prevention measures



EUROPO



E-mail: <u>RondelezR@europol.eu.int</u> Tel. +31 70 302 51 86