Introduction	Setting	ECB Access	QE Eligibility	Extensions	Conclusion

Monetary Policy Disconnect ECB-RFS Macro-Finance Conference 2021

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Motivation					

"...there is a risk that, under the current framework, some short-term market rates would **not respond fully** to changes in our key interest rates or, even if they would, that a continued dispersion of short-term rates would **adversely impact** the transmission of our monetary policy stance."

-Benoît Cœuré in May 2018

Introduction	Setting	ECB Access	QE Eligibility	Extensions	Conclusion
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Paper in a	a nutshell				

Two aspects of the central bank framework lead to the monetary policy disconnect.

- **Banks with access** the deposit facility at the central bank.
- Loans secured by assets eligible for **Quantitative Easing** (QE) programs.

Studying the repurchase agreement (**repo**) market, we find that interbank rates are more disconnected from the MP rate if:

- Lent by banks with access to central bank facilities.
- Secured by assets eligible for QE programs.
- Both effects create rate dispersion and add to one another.

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Contributi	on				

Literature on the effectiveness of monetary policy.

- Duffie and Krishnamurthy, 2016, and Drechsler, Savov, and Schnabl, 2017, analyze the interest-rate pass-through in the United States.
- On a macro level, Kalemli-Özcan, 2019 finds that capital flows are associated with an imperfect pass-through of policy rates to short rates in emerging markets; and Avouyi-Dovi, Horny, and Sevestre, 2017, find a slowdown of the interest rates transmission mechanism, which Al-Eyd and Berkmen, 2013, associate with segmentation along country lines.

Literature on short-term funding markets.

- Arrata et al., 2020, and Corradin and Maddaloni, 2020, investigate the effects of QE purchases on *special* repo rates. Kraenzlin and Nellen, 2015, analyze segmentation effects in the Swiss unsecured money market.
- Cross-sectional dispersion in repo rates in Europe (e.g., Mancini, Ranaldo, and Wrampelmeyer, 2016; Boissel et al., 2017; Ranaldo, Schaffner, and Vasios, 2020; Ballensiefen and Ranaldo, 2020) and the United States (e.g., Bartolini et al., 2011; Gorton and Metrick, 2012; Copeland, Martin, and Walker, 2014; Krishnamurthy, Nagel, and Orlov, 2014; Infante, 2020).

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Monetary policy pass-through efficiency

- A consistent and uniform response of money market rates to the monetary policy stance is the first sign of an effective pass-through mechanism.
- "In an idealized money market, any change in the main monetary policy rate should pass through perfectly to all money market rates." (Corradin et al., 2020, p.13).
- "The money market plays a crucial part in the transmission of monetary policy decisions" (ECB, 2011).
- By contrast, a "wider dispersion in short-term money market rates" causes "a reduction in the efficacy and transmission of monetary policy" (BIS, 2017, p.32).

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The importance of the repo market

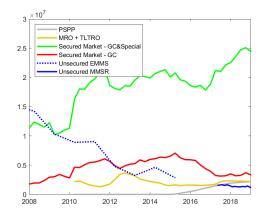


Figure: Different market turnovers (in euro million)

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Monetary policy pass-through to lending rates

	(1)	(2)
	Non-Fin. Corporate Δr^L b/t	New Housing Δr^L b/t
$\Delta PolRate$	0.470^{***} (5.335)	0.729*** (8.118)
$\Delta PolRate \cdot D^{Dispersion}$	-0.351^{***} (-2.739)	-0.444^{***} (-3.379)
$\Delta PolRate \cdot PSPP^{Volume}$	-0.034^{*} (-1.651)	-0.042** (-2.066)
$\stackrel{N}{ m adj.} R^2$	991 0.073	907 0.089

Both regressions include year-country fixed effects and heteroscedasticity-robust standard errors.

Introduction	Setting 000	ECB Access	QE Eligibility	Extensions O	Conclusion
ECB acce	ess				

Only euro area banks can access the ECB deposit facility.

- Deposit facility represents a **safe and convenient** way to store liquidity.
- It is **more convenient** when the repo rate falls below the deposit facility rate.
- Importance of the deposit rate and access to the central bank's facilities is stressed in the theoretical (Cúrdia and Woodford, 2011; Bech and Monnet, 2016; Williamson, 2019) and empirical (Bech and Klee, 2011; Kraenzlin and Nellen, 2015) literature.

Hypothesis I

Banks with (without) access to the ECB deposit facility lend at repo rates less (more) aligned to the monetary policy target rate.

Theoretical Framework: Link, Dispersion: Link, Volume and Spread: Link

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Access/nonaccess banks

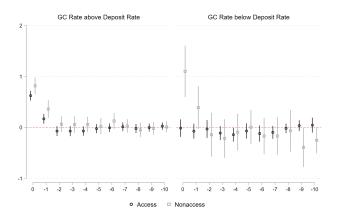


Figure: Impulse response after changes in policy rate

Introduction	Setting	ECB Access	QE Eligibility	Extensions	Conclusion
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Regression results

Table: ECB acc	ess - Germa	an collateral
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	(1)	(2)	(3)
	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$
	ON/TN b/t	ON/TN b/t	ON/TN b/t
$\Delta PolRate$	0.539^{***} (15.700)	0.717^{***} (10.745)	$\begin{array}{c} 0.675^{***} \\ (8.781) \end{array}$
D^{Dep}	-0.046^{**} (-2.265)		$\begin{array}{c} -0.047^{**} \\ (-2.338) \end{array}$
$\Delta PolRate \cdot D^{Dep}$	-0.176^{**} (-2.216)		$\begin{array}{c} 0.265^{**} \\ (2.082) \end{array}$
D^{Access}		$\begin{array}{c} -0.001 \\ (-0.071) \end{array}$	
$\Delta PolRate \cdot D^{Access}$		$\substack{-0.264^{***} \\ (-3.549)}$	$\begin{array}{c} -0.177^{**} \\ (-2.100) \end{array}$
$\Delta PolRate \cdot D^{Access} \cdot D^{Dep}$			$\begin{array}{c} -0.719^{***} \\ (-4.970) \end{array}$
$\Delta repo^{GC}$ lagged	-0.332^{***} (-14.230)	-0.332^{***} (-14.147)	
$\frac{N}{R^2}$	$10,001 \\ 0.210$	$ \begin{array}{c} 10,001 \\ 0.213 \end{array} $	$ \begin{array}{r} 10,001 \\ 0.220 \end{array} $

All regressions include basket-month-term fixed effects and heteroscedasticity-robust standard errors.

Robustness checks:

All European countries different fixed effects

Introduction	Setting	ECB Access	QE Eligibility	Extensions	Conclusion
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Collatera	l eligibility				

Assets that qualify for the QE asset purchase program.

- Comparing repo lending rates of eligible and noneligible assets.
- Employ the provisions of the Public Sector Purchase Program (PSPP) since the start of QE and retrospectively to compare time trends between (hypothetically) eligible and noneligible assets (difference-in-difference estimation setting).
- Role of central bank purchases is highlighted in the theoretical (Gertler and Karadi, 2013; Araújo, Schommer, and Woodford, 2015; Piquard and Salakhova, 2019) and empirical (Koijen et al., 2017; Avdjiev, Everett, and Shin, 2019; Schlepper et al., 2017; Arrata et al., 2020; Corradin and Maddaloni, 2020) literature.

Hypothesis II

Repos using collateral that is (not) eligible for QE programs are more (less) misaligned from the monetary policy rate. Observing similar reactions of both types of collateral before QE would imply common trends and allow us to interpret the results as causal.

Theoretical framework: Link, Dispersion measure: Link Volume and Spread: Link

Introduction	Setting	ECB Access	QE Eligibility	Extensions	Conclusion
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Regression results

	(1)	(2)	(3)
	$\Delta repo^{Special}$	$\Delta repo^{Special}$	$\Delta repo^{Special}$
	TN/SN b/t	TN/SN b/t	TN/SN b/t
$\Delta PolRate$	0.106*** (19.644)	0.098*** (12.937)	0.109*** (13.130)
D^{QE}	-0.016 (-1.462)		-0.016 (-1.434)
$\Delta PolRate \cdot D^{QE}$	-0.150^{***} (-15.837)		-0.120^{***} (-8.154)
$D^{Eligible}$		0.004 (0.454)	0.004 (0.440)
$\Delta PolRate \cdot D^{Eligible}$		0.006 (0.537)	-0.005 (-0.463)
$\Delta PolRate \cdot D^{Eligible} \cdot D^{QE}$		-0.172^{***} (-14.035)	-0.052^{***} (-2.737)
$\Delta repo^{Special}$ lagged	-0.364^{***} (-20.719)	$\begin{array}{c} -0.364^{***} \\ (-20.716) \end{array}$	-0.364^{***} (-20.719)
$\frac{N}{R^2}$	301,608 0.119	301,608 0.119	$301,608 \\ 0.119$

Table: QE eligibility - German collateral

All regressions include ISIN-month-term fixed effects and heteroscedasticity-robust standard errors.

Robustness checks: Core European countries All European countries different fixed effects different standard errors other monetary policy target rates

Introduction	Setting	ECB Access	QE Eligibility	Extensions	Conclusion
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Extensions					

Our **results do not rely** on the choice of the **EONIA** as the monetary policy target rate. We also employ:

- EONIA-€STR combination with €STR rates beginning in March 2017.
- Overnight euro LIBOR.
- Overnight point of the OIS-implied zero curve and the EURIBOR-implied zero curve.
- One-week OIS rate.
- Rate on the ECB GC Pooling Basket.

We consider the joint effects of the two features of the central bank framework:

- GC baskets with a higher share of collateral assets that are eligible for asset purchase are less sensitive to changes in the monetary policy rate. Results
- Access banks also react less sensitively in the special market after controlling for asset eligibility. Results

Introduction	Setting	ECB Access	QE Eligibility	Extensions	Conclusion
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Conclusion

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Conclusior	า				

Although designed to support monetary policy, two crucial aspects of the central bank framework have led to a disconnect of short-term rates from the monetary policy rate.

- Banks with access to the central bank's deposit facility lend at short-term rates that are more misaligned with the monetary policy target rate.
- Secured loans whose collateral assets are the target of Quantitative Easing programs are more disconnected from the monetary policy rate.
- Those two effects also reinforce one another and thus add to the disconnect between monetary policy and short-term secured rates.

Introduction	Setting 000	ECB Access	QE Eligibility	Extensions O	Conclusion
Policy im	nlications				

- The notion that unconventional policies safeguard the transmission of the monetary policy has to be interpreted in the light of our results.
- Policies such as tiering and CRR amendments could encourage additional amounts to be deposited at the ECB deposit facility creating even stronger segmentation.
- Other policies such as central bank certificates of deposits and central bank digital currency (CBDC) can widen the access to the central bank's facilities.

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Reference	es I				

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Reference	es II				

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Reference	es IV				

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Appendix: Repo market

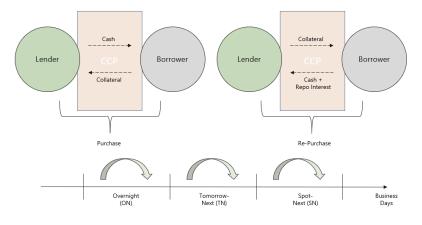
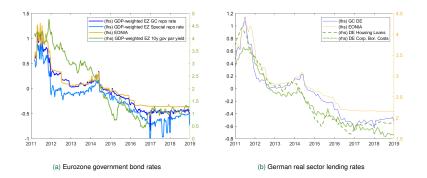


Figure: Repo market

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Appendix: Interest rate co-movements



Appendix: Dispersion measure of GC repo rates

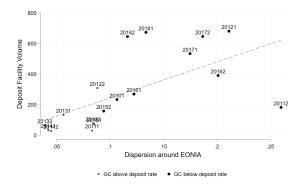


Figure: Dispersion of access and nonaccess rates



Appendix: Dispersion measure of special repo rates

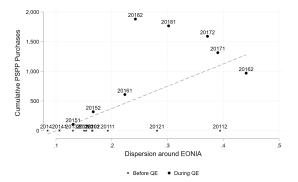


Figure: Dispersion of eligible and noneligible rates



Appendix: Access/nonaccess model

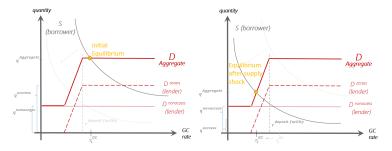


Figure: Impact of supply shock in the GC market



Appendix: Eligible/noneligible model

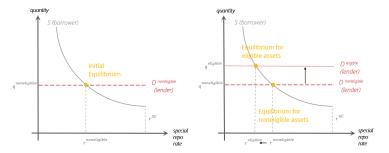
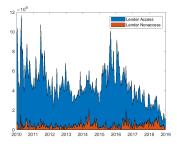


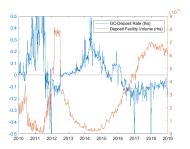
Figure: Impact of demand shock in the special repo market

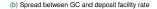


Appendix: ECB access





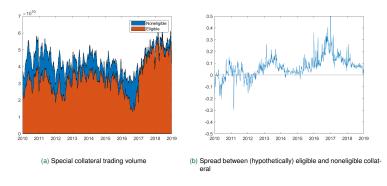








Appendix: Collateral eligibility







Appendix: Access/nonaccess by term type

	(1) $\Delta repo^{GC}$ ON	(2) $\Delta repo^{GC}$ TN	(3) $\Delta repo^{GC}$ ON/TN	(4) $\Delta repo^{GC}$ ON	(5) $\Delta repo^{GC}$ TN	(6) $\Delta repo^{GC}$ ON/TN	(7) $\Delta repo^{GC}$ ON	(8) $\Delta repo^{GC}$ TN	(9) $\Delta repo^{GC}$ ON/TN
	b/t	b/t	b/t	b/t	b/t	b/t	b/t	b/t	b/t
$\Delta PolRate$	0.742*** (10.017)	0.456*** (11.476)	0.539*** (15.700)	0.646*** (6.547)	0.760*** (8.970)	0.717*** (10.745)	0.601 · · · · (5.285)	0.719*** (7.428)	0.675*** (8.781)
D^{Dep}	$-0.042 \\ (-1.102)$	-0.045° (-1.890)	-0.046^{**} (-2.265)				-0.043 (-1.136)	-0.047^{**} (-1.986)	-0.047^{*} (-2.338)
$\Delta PolRate \cdot D^{Dep}$	$-0.130 \\ (-0.891)$	-0.210^{**} (-2.229)	-0.176^{**} (-2.216)				$0.238 \\ (1.477)$	0.287 (1.614)	0.265** (2.082)
DAccess				-0.003 (-0.142)	0.001 (0.067)	-0.001 (-0.071)	$\begin{array}{c} -0.001 \\ (-0.080) \end{array}$	0.001 (0.074)	-0.000 (-0.035
$\Delta PolRate \cdot D^{Access}$				0.114 (0.912)	$\begin{array}{c} -0.424^{***} \\ (-4.685) \end{array}$	$\begin{array}{c} -0.264^{***} \\ (-3.549) \end{array}$	$\begin{pmatrix} 0.194 \\ (1.387) \end{pmatrix}$	-0.337 (-3.274)	-0.177 (-2.100
$\Delta PolRate \cdot D^{Access} \cdot D^{Dep}$							-0.625^{**} (-2.461)	-0.760^{***} (-4.037)	-0.719** (-4.970
$\Delta repo^{GC}$ lagged	$^{-0.311}_{(-7.411)}$	-0.326 (-11.237)	-0.332^{***} (-14.230)	-0.311 (-7.531)	-0.321^{***} (-10.978)	-0.332 (-14.147)	$\begin{array}{c} -0.313^{***} \\ (-7.491) \end{array}$	-0.321 (-11.027)	-0.332 (-14.15)
N R ²	2,828 0.332	7,173 0.161	10,001 0.210	2,828 0.332	7,173 0.172	10,001 0.213	2,828 0.336	7,173 0.179	10,001 0.220

Table 3.6. ECB access: Germany

The table reports the regression results examining the impact of access to the ICTV depart facility on the pass-through of the monetary policy target mass into GC trays rates. In the deparading worksholds the densing in the GC new Acryptic², arAthene factors the charget in the polyrer, max², polyrer and it factors are charged as the polyrer max². The property depart mass is a country of CC rate is below the departed the table, $D^{++++}_{\rm count}$ (as $C_{\rm count}$) and $D^{++++}_{\rm count}$ (as $C_{\rm count}$) are constant of CC rates in below the depart facility, $D^{++++}_{\rm count}$ (as $C_{\rm count}$) are constant of CC rates in below the depart facility. The depart facility of the depart of the dep



Appendix: Access/nonaccess by term type

	(1) $\Delta repo^{GC}$	(2) $\Delta repo^{GC}$	(3) $\Delta repo^{GC}$	(4) $\Delta repo^{GC}$	(5) $\Delta repo^{GC}$	(6) $\Delta repo^{GC}$	(7) $\Delta repo^{GC}$	(8) $\Delta repo^{GC}$	(9) $\Delta repo^{GC}$
	ON b/t	TN b/t	ON/TN b/t	ON b/t	TN b/t	ON/TN b/t	ON b/t	TN b/t	ON/TN b/t
$\Delta PolRate$	0.679*** (15.740)	0.376*** (16.033)	0.472*** (23.035)	0.810*** (13.089)	0.624*** (11.957)	0.683*** (16.875)	0.801 · · · · (10.747)	0.576*** (10.245)	0.643*** (14.261)
D^{Dep}	$\begin{array}{c} -0.020 \\ (-1.132) \end{array}$	-0.037 ^{***} (-2.682)	$\begin{array}{c} -0.032^{***} \\ (-2.940) \end{array}$				$-0.017 \\ (-1.014)$	$\begin{array}{c} -0.038^{***} \\ (-2.794) \end{array}$	-0.032** (-2.922)
$\Delta PolRate \cdot D^{Dep}$	-0.219 (-2.637)	0.030 (0.438)	$-0.048 \\ (-0.897)$				0.045 (0.472)	0.450 · · · · (4.129)	0.298*** (3.968)
D ^{Access}				$\begin{pmatrix} -0.002 \\ (-0.231) \end{pmatrix}$	$^{-0.006}_{(-0.801)}$	$^{-0.005}_{(-0.819)}$	$^{-0.002}_{(-0.226)}$	$^{-0.005}_{(-0.685)}$	-0.004 (-0.743
$\Delta PolRate \cdot D^{Access}$				$\begin{array}{c} -0.201^{***}\\ (-2.692) \end{array}$	-0.324^{***} (-5.644)	$\begin{array}{c} -0.284^{+++}\\ (-6.242) \end{array}$	-0.155° (-1.782)	$\begin{array}{c} -0.263^{***} \\ (-4.261) \end{array}$	-0.222** (-4.423
$\Delta PolRate \cdot D^{Access} \cdot D^{Dep}$							$\begin{array}{c} -0.528^{***} \\ (-3.986) \end{array}$	$^{-0.604}_{(-4.584)}$	-0.561** (-5.885)
$\Delta repo^{GC}$ lagged	$\begin{array}{c} -0.302^{\bullet \bullet \bullet} \\ (-15.168) \end{array}$	$-0.345^{\bullet \bullet \bullet}$ (-18.622)	$\begin{array}{c} -0.337^{***}\\ (-24.685) \end{array}$	$\begin{array}{c} -0.303^{***} \\ (-15.259) \end{array}$	-0.340 · · · · · (-18.181)	$\begin{array}{c} -0.335^{***} \\ (-24.388) \end{array}$	-0.303 · · · · (-15.180)	$\begin{array}{c} -0.341^{***} \\ (-18.237) \end{array}$	-0.335 (-24.410
$\frac{N}{R^2}$	12,219 0.253	$22,863 \\ 0.143$	$35,082 \\ 0.180$	12,219 0.254	$22,863 \\ 0.150$	35,082 0.185	12,219 0.257	$22,863 \\ 0.153$	35,082 0.187

Table 3.7. ECB access: Core countries

The table space the regression scenarios the impact decreases to the RCW, departed fully on the post-funged of the materity pilor trapet rate into CP protons. The departed workshole takings in the CP crass $P_{\rm eff}^{\rm const}$ and $P_{\rm eff}^{\rm const}^{\rm const}$ and $P_{\rm eff}^{\rm const}^{\rm const}$ and $P_{\rm eff}^{\rm const}^{\rm const}^{\rm const}$ and $P_{\rm eff}^{\rm const}^{\rm con$



Appendix: Access/nonaccess by term type

	(1) $\Delta repo^{GC}$	(2) $\Delta repo^{GC}$	(3) $\Delta repo^{GC}$	(4) $\Delta repo^{GC}$	(5) $\Delta repo^{GC}$	(6) $\Delta repo^{GC}$	(7) $\Delta repo^{GC}$	(8) $\Delta repo^{GC}$	(9) $\Delta repo^{GC}$
	ON b/t	TN b/t	ON/TN b/t	ON b/t	TN b/t	ON/TN b/t	ON b/t	TN b/t	ON/TN b/t
$\Delta PolRate$	0.660*** (19.491)	0.304*** (15.542)	0.424*** (24.699)	0.708*** (10.666)	0.520*** (12.869)	0.589*** (16.774)	0.694*** (9.670)	0.484*** (11.494)	0.560*** (15.106)
D^{Dep}	0.033*** (2.675)	-0.020° (-1.775)	$\begin{array}{c} 0.001 \\ (0.143) \end{array}$				0.034*** (2.774)	-0.020° (-1.775)	$\begin{array}{c} 0.002\\ (0.221) \end{array}$
$\Delta PolRate \cdot D^{Dep}$	-0.200^{**} (-2.562)	0.122* (1.882)	0.011 (0.220)				0.169^{*} (1.808)	0.525*** (5.546)	0.384*** (5.668)
D ^{Access}				$^{-0.002}_{(-0.302)}$	$^{-0.004}_{(-0.726)}$	$\begin{array}{c} -0.003 \\ (-0.755) \end{array}$	$^{-0.002}_{(-0.273)}$	$^{-0.004}_{(-0.674)}$	-0.003 (-0.709
$\Delta PolRate \cdot D^{Accuss}$				-0.085 (-1.152)	-0.279^{***} (-6.199)	$\begin{array}{c} -0.223^{***} \\ (-5.687) \end{array}$	$^{-0.047}_{(-0.594)}$	$-0.240^{\bullet \bullet \bullet}$ (-5.104)	-0.184 (-4.438
$\Delta PolRate \cdot D^{Access} \cdot D^{Dep}$							$\begin{array}{c} -0.657^{***} \\ (-5.109) \end{array}$	$\begin{array}{c} -0.595^{***}\\ (-5.022) \end{array}$	-0.595^{**} (-6.733
$\Delta repo^{OC}$ lagged	$\begin{array}{c} -0.324^{***} \\ (-15.436) \end{array}$	$\begin{array}{c} -0.382^{***} \\ (-25.063) \end{array}$	$\begin{array}{c} -0.372^{***} \\ (-30.291) \end{array}$	$\begin{array}{c} -0.324^{***} \\ (-15.482) \end{array}$	-0.381 · · · · · (-24.915)	$\begin{array}{c} -0.371^{***} \\ (-30.133) \end{array}$	-0.324 · · · · · (-15.452)	$\begin{array}{c} -0.381^{\bullet \bullet \bullet} \\ (-24.929) \end{array}$	-0.371 (-30.16)
$N R^2$	$21,894 \\ 0.248$	36,289 0.140	58,183 0.174	21,894 0.248	36,289 0.145	58,183 0.177	21,894 0.250	36,289 0.147	58,183 0.178

Table 3.8. ECB access: All countries

The table properts the regression results for impact the impact of access to the EQDs (spin full) or a the pose through of the mesodary picky trapet target target the final GP (spin full), and the dependent worklight the table gas in the GP (see $A_{\rm eff})$. ArX-fibric dense the despin fully ($B^{\rm eff}$ and B^{\rm



Appendix: Access/nonaccess by fixed effect specification

	(1)	(2)	(3)	(4)	(5)
	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$
	ON/TN b/t	ON/TN b/t	ON/TN b/t	ON/TN b/t	ON/TN b/t
$\Delta PolRate$	0.675*** (8.781)	0.684*** (9.301)	0.712*** (9.197)	0.725*** (8.733)	0.725*** (8.709)
D^{Dep}	$\begin{array}{c} -0.047^{**} \\ (-2.338) \end{array}$	$\begin{array}{c} -0.047^{**} \\ (-2.274) \end{array}$	-0.027^{**} (-2.068)	$\begin{array}{c} -0.032^{***} \\ (-3.605) \end{array}$	-0.021^{*} (-1.795)
$\Delta PolRate \cdot D^{Dep}$	0.265** (2.082)	$\binom{0.269^{**}}{(2.350)}$	0.279^{**} (2.225)	$\begin{array}{c} 0.313^{**} \\ (2.358) \end{array}$	0.293** (2.228)
D^{Access}	$-0.000 \\ (-0.035)$	$^{-0.002}_{(-0.147)}$	$\begin{array}{c} 0.003\\ (0.265) \end{array}$	0.002 (0.155)	0.003 (0.339)
$\Delta PolRate \cdot D^{Access}$	-0.177^{**} (-2.100)	-0.149° (-1.766)	$-0.130 \\ (-1.456)$	-0.138 (-1.461)	-0.139 (-1.468)
$\Delta PolRate \cdot D^{Access} \cdot D^{Dep}$	$\begin{array}{c} -0.719^{***} \\ (-4.970) \end{array}$	$^{-0.686^{***}}_{(-4.821)}$	$\begin{array}{c} -0.665^{***} \\ (-4.400) \end{array}$	$\begin{array}{c} -0.591^{***} \\ (-3.616) \end{array}$	-0.583^{***} (-3.608)
$\Delta repo^{GC}$ lagged	-0.332^{***} (-14.151)	$\begin{array}{c} -0.321^{***} \\ (-14.032) \end{array}$	-0.307 ^{***} (-12.483)	-0.298^{***} (-12.005)	-0.299*** (-12.072)
FE	$\begin{array}{c} Basket \times \\ Month \times \\ Term \end{array}$	Basket× Month	Basket× Year	Basket	Year
$\frac{N}{R^2}$	10,001 0.220	10,098 0.239	10,165 0.227	10,168 0.220	10,168 0.223

Table 3.9. ECB access: Germany, different fixed effect specifications

The table reports the regression neuralise catasiling the impact of access to the IGCTM deputit formily on the proceedings of the mostery prody starget rate into GC rays. The deputy the most product starget rate into GC rays are the most product starget rate into GC rays. The deputy the most product starget rate into GC rays is the GC rays of the most product starget rate into GC rays in the GC rays of the most product starget rate into GC rays in the first product starget rate into GC rays is the first product starget rate into GC rays in the first product starget rate into GC rays in the first product starget rate into GC rays in the first product starget rate into GC rays in the first product starget rate into GC rays in the first product rate in the rate rate rate of the first product rate in the rate of the first product rate of the rate of



Appendix: Access/nonaccess by fixed effect specification

	(1)	(2)	(3)	(4)	(5)
	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repd^{GC}$
	ON/TN b/t	ON/TN b/t	ON/TN b/t	ON/TN b/t	ON/TN b/t
$\Delta PolRate$	0.643*** (14.261)	0.672*** (15.044)	0.709*** (15.028)	0.716*** (14.735)	0.715*** (14.721)
D^{Dep}	$\begin{array}{c} -0.032^{***} \\ (-2.922) \end{array}$	-0.027^{**} (-2.434)	$\begin{array}{c} -0.019^{***} \\ (-2.594) \end{array}$	-0.018 (-4.059)	-0.015^{**} (-2.243)
$\Delta PolRate \cdot D^{Dep}$	0.298*** (3.968)	0.293*** (4.140)	0.298*** (3.908)	0.326*** (4.127)	0.310*** (3.966)
D^{Access}	$-0.004 \\ (-0.743)$	$^{-0.004}_{(-0.662)}$	$\begin{array}{c} -0.002 \\ (-0.331) \end{array}$	$^{-0.003}_{(-0.487)}$	$\begin{array}{c} -0.001 \\ (-0.156) \end{array}$
$\Delta PolRate \cdot D^{Access}$	$\begin{array}{c} -0.222^{***} \\ (-4.423) \end{array}$	-0.230^{***} (-4.565)	$\begin{array}{c} -0.227^{***} \\ (-4.262) \end{array}$	-0.227^{***} (-4.162)	$\begin{array}{c} -0.225^{***} \\ (-4.126) \end{array}$
$\Delta PolRate \cdot D^{Access} \cdot D^{Dep}$	$\begin{array}{c} -0.561^{***} \\ (-5.885) \end{array}$	$\begin{array}{c} -0.512^{***} \\ (-5.599) \end{array}$	$\begin{array}{c} -0.482^{***} \\ (-5.029) \end{array}$	-0.429^{***} (-4.262)	$\begin{array}{c} -0.423^{***} \\ (-4.230) \end{array}$
$\Delta repo^{GC}$ lagged	$\begin{array}{c} -0.335^{***} \\ (-24.410) \end{array}$	$\begin{array}{c} -0.327^{***}\\ (-23.978) \end{array}$	$\begin{array}{c} -0.310^{***} \\ (-22.599) \end{array}$	-0.303^{***} (-22.093)	$\begin{array}{c} -0.304^{***} \\ (-22.134) \end{array}$
FE	Basket× Month× Term	Basket× Month	Basket× Year	Basket	Year
$\frac{N}{R^2}$	35,082 0.187	35,376 0.199	35,624 0.192	35,631 0.188	35,631 0.190

Table 3.10. ECB access: Core countries, different fixed effect specifications

The table reports the regression results examining the impact of access to the ECD's deposit facility of the post-frame of the mostery project upper rates. The deposite studied is the accession of the mostery project upper rates. The deposite studied is the accession of the studied of the deposite facility, D^{-1} —regains II is known by the studied of the deposite facility, "", ", and " spectra studied facility, D^{-1} —regains II is known by the studied of the deposite facility, "", ", and " spectra studied facility, D^{-1} —regains II is known by the studied of the studied are in posterily as the studied facility of the studied facility of the studied of the studied of the studied facility of the studied facility of the studied facility of the studied of the studied of the studied facility of the studied of the s



Appendix: Access/nonaccess by fixed effect specification

	(1)	(2)	(3)	(4)	(5)
	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$
	ON/TN	ON/TN	ON/TN	ON/TN	ON/TN
	b/t	b/t	b/t	b/t	b/t
$\Delta PolRate$	0.560***	0.583***	0.616***	0.622***	0.621***
	(15.106)	(15.963)	(16.619)	(16.527)	(16.500)
D^{Dep}	0.002	0.005	-0.002	-0.011^{***}	-0.002
	(0.221)	(0.553)	(-0.311)	(-2.815)	(-0.530)
$\Delta PolRate \cdot D^{Dep}$	0.384***	0.383***	0.397***	0.429***	0.417***
	(5.668)	(5.995)	(5.843)	(6.082)	(5.976)
D^{Access}	-0.003	-0.004	-0.003	-0.004	-0.003
	(-0.709)	(-0.816)	(-0.746)	(-1.009)	(-0.904)
$\Delta PolRate \cdot D^{Access}$	-0.184^{***} (-4.438)	-0.188^{***} (-4.586)	-0.190^{***} (-4.537)	$\begin{array}{c} -0.182^{***} \\ (-4.259) \end{array}$	-0.180*** (-4.217)
$\Delta PolRate \cdot D^{Access} \cdot D^{Dep}$	-0.595^{***} (-6.733)	-0.533^{***} (-6.303)	-0.495^{***} (-5.567)	-0.454^{***} (-4.889)	
$\Delta repo^{GC}$ lagged	$\begin{array}{c} -0.371^{***} \\ (-30.167) \end{array}$	$\begin{array}{c} -0.363^{***} \\ (-30.027) \end{array}$	$\begin{array}{c} -0.347^{***} \\ (-28.923) \end{array}$	$\begin{array}{c} -0.342^{***} \\ (-28.550) \end{array}$	$\begin{array}{c} -0.342^{***} \\ (-28.577) \end{array}$
FE	$\begin{array}{l} Basket \times \\ Month \times \\ Term \end{array}$	Basket× Month	Basket× Year	Basket	Year
$\frac{N}{R^2}$	58,183	58,626	58,983	58,996	58,997
	0.178	0.191	0.188	0.186	0.188

Table 3.11. ECB access: All countries, different fixed effect specifications

The table reports the regression member examining the impact of access to the EGN's depend for finite the proceeding of the monotory policy area for also GC program. The dependent weakles is if a control of the monotory policy area for a finite GC policy in the structure of th



Appendix: Access/nonaccess by clustered standard errors

	(1)	(2)	(3)
	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$
	b/t	b/t	b/t
$\Delta PolRate$	0.539* (7.367)	0.717^{*} (10.556)	0.675* (9.705)
D^{Dep}	-0.046 (-4.366)		-0.047 (-4.723)
$\Delta PolRate \cdot D^{Dep}$	$^{-0.176}_{(-0.631)}$		$\begin{array}{c} 0.265 \\ (3.538) \end{array}$
D^{Access}		-0.001 (-0.126)	
$\Delta PolRate \cdot D^{Access}$		-0.264^{**} (-15.995)	
$\Delta PolRate \cdot D^{Access} \cdot D^{Dep}$			$^{-0.719^{*}}_{(-11.802)}$
$\Delta repo^{GC}$ lagged		-0.332^{**} (-55.699)	
$\frac{N}{R^2}$	$ \begin{array}{r} 10,001 \\ 0.210 \end{array} $	$ \begin{array}{c} 10,001 \\ 0.213 \end{array} $	$10,001 \\ 0.220$

Table 3.12. ECB access: Germany

The table reports the regression results examining the impact of access to the CRU spopershift of the log-scheduler of the log-scheduler and the log-scheduler and the density in the CRU spoper and the density in the CRU spoper and the log-scheduler variable to the density in the CRU spoper and the log-scheduler and the log-sche



Appendix: Access/nonaccess by clustered standard errors

	(1)	(2)	(3)
	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$
	b/t	b/t	b/t
$\Delta PolRate$	$\begin{array}{c} 0.472^{*} \\ (6.571) \end{array}$	0.683^{**} (16.968)	
D^{Dep}	-0.032 (-3.318)		$^{-0.032}_{(-2.634)}$
$\Delta PolRate \cdot D^{Dep}$	-0.048 (-0.209)		0.298* (7.263)
D^{Access}		$-0.005 \\ (-2.577)$	
$\Delta PolRate \cdot D^{Access}$		$\begin{array}{c} -0.284^{***} \\ (-74.521) \end{array}$	
$\Delta PolRate \cdot D^{Access} \cdot D^{Dep}$			$\begin{array}{c} -0.561^{**} \\ (-28.590) \end{array}$
$\Delta repo^{GC}$ lagged		-0.335^{**} (-52.065)	
$\frac{N}{R^2}$	$35,082 \\ 0.180$	$35,082 \\ 0.185$	$35,082 \\ 0.187$

Table 3.13. ECB access: Core countries

The table reports the regression results examining the impact of access to the ECB's deposit facility on the pass-through of the monetary polley farger rate into GC reps rates using distorted standard errors. The index of the table of the polley stars of the probability of the table index the change in the polley rate. D^{Monses} equals 11 & a heading bank has access to the deposit facility. J^{Monses} equals 11 & a heading bank has access to the deposit facility. J^{Monses} equals 11 & a heading bank has access to the deposit facility. J^{Monses} equals 11 & a heading bank has 10% level, respectively, to statistics are an analysis of the constant of the row exceeding facility of bank and the statistics are in parentheses. All regressions intices for core European countries pooled across the term types ON and TK for the time-point 2000-2003.



Appendix: Access/nonaccess by clustered standard errors

	(1)	(2)	(3)
	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$
	b/t	b/t	b/t
$\Delta PolRate$	0.424* (6.626)	0.589** (18.599)	0.560** (18.663)
D^{Dep}	0.001 (0.079)		0.002 (0.107)
$\Delta PolRate \cdot D^{Dep}$	$\begin{array}{c} 0.011 \\ (0.047) \end{array}$		$\begin{array}{c} 0.384 \\ (6.133) \end{array}$
D^{Access}		$\begin{array}{c} -0.003 \\ (-2.754) \end{array}$	$-0.003 \\ (-2.053)$
$\Delta PolRate \cdot D^{Access}$		-0.223 (-6.139)	$^{-0.184}_{(-5.411)}$
$\Delta PolRate \cdot D^{Access} \cdot D^{Dep}$			-0.595^{**} (-17.311)
$\Delta repo^{GC}$ lagged		-0.371^{**} (-21.317)	
$\frac{N}{R^2}$	$58,183 \\ 0.174$	58,183 0.177	58,183 0.178

Table 3.14. ECB access: All countries

The table reports the regression results examining the impact of access to the CFU spheroid facility on the passe transmission of the term storage of the monotary point parameters into GC report rates using thetered standard errors. The most methange in the loop rate Li 100 errors 100 and 100 report 100 errors are implicated as a standard errors are constant of the deposit facility. Dreamet significance at a 1, 5, and 10% leads basics to main the final deposit and match errors assuming for dark basics the standard errors are constanting for the standard errors error errors for the standard errors error errors for the standard errors error errors for the standard errors error error error errors for the standard errors error error error errors for the standard errors error error error errors error errors error errors error error errors error er



Appendix: Alternative Rates and access/nonaccess banks

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	EONIA	€STR	euro LIBOR	zero OIS	zero EURIBOR	OIS 1W	GC Poolin
	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$
	ON/TN b/t	ON/TN b/t	ON/TN b/t	ON/TN b/t	ON/TN b/t	ON/TN b/t	ON/TN b/t
$\Delta PolRate$	0.675*** (8.781)	0.705*** (9.274)	0.480*** (9.220)	0.334*** (6.013)	0.179*** (5.055)	0.329*** (4.349)	0.723*** (14.246)
D^{Dep}	-0.047^{**} (-2.338)	-0.026^{**} (-2.059)	-0.051^{**} (-2.520)	-0.021 (-1.564)	-0.029^{**} (-2.061)	-0.029^{**} (-2.249)	-0.041** (-2.108)
$\Delta PolRate \cdot D^{Dep}$	0.265** (2.082)	0.253** (2.086)	0.356*** (4.003)	0.268** (2.571)	0.179** (2.196)	0.363*** (3.249)	0.277** (2.320)
Dyccess	$-0.000 \\ (-0.035)$	$\begin{array}{c} 0.002 \\ (0.183) \end{array}$	$\begin{array}{c} 0.004 \\ (0.339) \end{array}$	0.001 (0.120)	-0.004 (-0.361)	0.001 (0.090)	-0.005 (-0.482)
$\Delta PolRate \cdot D^{Access}$	-0.177^{**} (-2.100)	-0.128 (-1.474)	-0.117^{*} (-1.743)	-0.165^{***} (-2.702)	-0.072^{*} (-1.887)	$-0.046 \\ (-0.516)$	-0.162^{**} (-2.702)
$\Delta PolRate \cdot D^{Access} \cdot D^{Dep}$	-0.719^{***} (-4.970)	-0.648^{***} (-4.425)	-0.670^{***} (-5.607)	-0.378^{***} (-3.377)	-0.264^{***} (-3.058)	-0.258^{*} (-1.740)	-0.657^{***} (-4.166)
$\Delta repo^{GC}$ lagged	$\begin{array}{c} -0.332^{***} \\ (-14.151) \end{array}$	$\begin{array}{c} -0.311^{***} \\ (-12.972) \end{array}$	-0.420^{***} (-15.125)	$\begin{array}{c} -0.323^{***} \\ (-12.711) \end{array}$	-0.311^{***} (-12.876)	$\begin{array}{c} -0.324^{***} \\ (-12.113) \end{array}$	-0.307^{**} (-11.913)
$N R^2$	10,001 0.220	10,158 0.231	9,952 0.187	9,778 0.124	9,758 0.114	$10,078 \\ 0.144$	10,060 0.297

Table 6. ECB access: Germany

see results for core countries, all countries Back to presentation

	(1)	(2)	(3)	(4)	(5)	(6)
	EONIA	€STR	euro LIBOR	zero OIS	zero EURIBOR	OIS 1W
	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$
	ON/TN b/t	ON/TN b/t	ON/TN b/t	ON/TN b/t	ON/TN b/t	ON/TN b/t
$\Delta PolRate$	0.643*** (14.261)	0.704*** (15.067)	0.440*** (8.908)	0.312*** (9.306)	0.135*** (7.426)	0.348*** (6.378)
D^{Dep}	$\begin{array}{c} -0.032^{***} \\ (-2.922) \end{array}$	-0.018^{**} (-2.488)	-0.030^{***} (-2.770)	-0.020^{**} (-2.575)	-0.025^{***} (-3.260)	$\begin{array}{c} -0.022^{***} \\ (-2.961) \end{array}$
$\Delta PolRate \cdot D^{Dep}$	0.298*** (3.968)	0.299*** (3.943)	0.375*** (5.581)	0.210*** (3.317)	0.198*** (4.152)	$\begin{array}{c} 0.319^{***} \\ (4.315) \end{array}$
D^{Access}	$^{-0.004}_{(-0.743)}$	$-0.001 \\ (-0.192)$	-0.005 (-0.785)	$^{-0.001}_{(-0.231)}$	-0.006 (-1.033)	$^{-0.004}_{(-0.619)}$
$\Delta PolRate \cdot D^{Access}$	-0.222^{***} (-4.423)	-0.226 · · · · · (-4.310)	-0.122^{**} (-2.094)	-0.186^{***} (-5.242)	-0.059^{***} (-2.947)	-0.117^{**} (-2.006)
$\Delta PolRate \cdot D^{Access} \cdot D^{Dep}$	-0.561^{-1} (-5.885)	-0.497 (-5.259)	-0.417^{***} (-4.766)	-0.240^{***} (-3.612)	-0.231^{***} (-4.533)	-0.233 (-2.711)
$\Delta repo^{GC}$ lagged	-0.335^{***} (-24.410)	-0.313 (-22.963)	-0.401^{***} (-26.606)	-0.318^{***} (-22.834)	-0.305^{***} (-22.875)	-0.318 ^{***} (-22.775)
$\frac{N}{R^2}$	$35,082 \\ 0.187$	$35,607 \\ 0.195$	$34,949 \\ 0.168$	34,606 0.118	$34,519 \\ 0.106$	$35,295 \\ 0.135$

Table 3.16. ECB access: Core countries

The table reports the robustness results examining the impact of access to the ECD's deposit facility on the monstary policy pass-through for alternative monetary policy target rates. The dependent variable is the damps in the GC rate $\Delta repo^(D)$, $\Delta PdIdate$ denotes the change in different policy rates. D^{Dep} organis 11 fa soning rates in the deposit facility. D^{1-inv} can be a similar to the deposit facility, π^{i+i} , and π^{i} represent in the deposit facility. D^{1-inv} can be a similar to the deposit facility, π^{i+i} , and π^{i+i} represents the deposit heteroscience of the deposit facility of the deposit facility, π^{i+i} , and π^{i+i} represents the deposit heteroscience of the deposit facility of the deposit facility π^{i+i} and π^{i+i} represents the deposit heteroscience of the deposit facility of the deposit facility π^{i+i} and π^{i+i} represents the deposit facility π^{i+i} and π^{i+i} represents the deposit heteroscience of the deposit facility of the deposit facility π^{i+i} represents the deposit facility π^{i+



	(1)	(2)	(3)	(4)	(5)	(6)
	EONIA	€STR	euro LIBOR	zero OIS	zero EURIBOR	OIS 1W
	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$
	ON/TN b/t	ON/TN b/t	ON/TN b/t	ON/TN b/t	ON/TN b/t	ON/TN b/t
$\Delta PolRate$	0.560*** (15.106)	0.612*** (16.587)	0.379*** (10.586)	0.250*** (10.923)	0.127*** (10.831)	0.262*** (6.977)
D^{Dep}	$\begin{array}{c} 0.002\\ (0.221) \end{array}$	$-0.002 \\ (-0.354)$	$\begin{array}{c} 0.003 \\ (0.340) \end{array}$	-0.003 (-0.468)	-0.007 (-1.055)	$-0.005 \\ (-0.804)$
$\Delta PolRate \cdot D^{Dep}$	0.384*** (5.668)	0.400*** (5.872)	0.396*** (6.898)	0.289*** (5.154)	0.210*** (5.112)	0.417*** (6.987)
D^{Access}	$^{-0.003}_{(-0.709)}$	$^{-0.002}_{(-0.509)}$	$-0.003 \\ (-0.641)$	$-0.002 \\ (-0.447)$	-0.004 (-0.961)	$-0.002 \\ (-0.535)$
$\Delta PolRate \cdot D^{Access}$	$-0.184^{}$ (-4.438)	-0.193 (-4.635)	-0.112^{***} (-2.677)	$-0.142^{-0.142}$ (-5.732)	-0.052*** (-4.004)	-0.102^{**} (-2.462)
$\Delta PolRate \cdot D^{Access} \cdot D^{Dep}$	-0.595 (-6.733)	-0.500 · · · · · (-5.763)	-0.362^{***} (-4.753)	-0.283 (-4.711)	$-0.231^{}(-5.198)$	-0.200 (-2.713)
$\Delta repo^{GC}$ lagged	$\begin{array}{c} -0.371^{***}\\ (-30.167) \end{array}$	-0.350^{***} (-29.208)	-0.416^{***} (-30.883)	$\begin{array}{c} -0.354^{***} \\ (-28.331) \end{array}$	-0.346^{***} (-27.758)	$-0.345^{-0.345}(-28.558)$
$\frac{N}{R^2}$	58,183 0.178	58,961 0.189	57,864 0.160	57,214 0.133	57,026 0.128	58,447 0.139

Table 3.17. ECB access: All countries

The table reports the robustness results examining the impact of access to the ICB's deposit facility on the monstary policy pass-through for alternative memoralry policy target rates. The dependent variable is the damage in the G7 rates $\Delta^{erge} \delta^{erg}$, $\Delta^{erg} def denotes the change in different policy rates. <math>D^{beg}$ regards 11 f a doming to the deposit finding, D^{erge} , D^{erge} , and D^{erge} regards 11 f a doming to the access to the deposit field start of the denotes of the denotes of the deposit facility. The deposit facility D^{erge} , and D^{erge} regards 11 f a doming to the denotes of the deposit denotes of the denotes of the denotes of the deposit facility. The deposit facility of the denotes the denotes of the denotes



Appendix: Eligible/noneligible by term type

	(1) $\Delta repo^{Specad}$	(2) $\Delta repo^{Special}$	(3) $\Delta repo^{Special}$	(4) $\Delta repo^{Special}$	(5) $\Delta repo^{Special}$	(6) $\Delta repo^{Special}$	(7) ∆repo ^{Special}	(8)Δrepo^{Special}	(9) Δrepo ^{Special}
	TN b/t	SN b/t	TN/SN b/t	TN b/t	SN b/t	TN/SN b/t	TN b/t	SN b/t	TN/SN b/t
$\Delta PolRate$	0.190*** (17.269)	0.061*** (11.084)	0.105*** (19.644)	0.171*** (11.689)	0.058*** (6.992)	0.098*** (12.937)	0.186*** (11.598)	0.066*** (7.315)	0.109*** (13.130)
D^{QE}	-0.022 (-0.996)	-0.010 (-0.877)	-0.016 (-1.462)				-0.022 (-0.995)	-0.010 (-0.839)	-0.016 (-1.434)
$\Delta PolRate \cdot D^{QE}$	-0.206 (-10.786)	-0.119^{***} (-12.683)	-0.150 (-15.837)				-0.165 (-5.586)	-0.095 (-6.505)	-0.120^{***} (-8.154)
DEligible				-0.001 (-0.013)	0.005 (0.575)	0.004 (0.454)	-0.001 (-0.051)	0.005 (0.568)	0.004 (0.440)
$\Delta PolRate \cdot D^{Elighte}$				0.023 (1.097)	-0.001 (-0.127)	0.006 (0.537)	0.008 (0.356)	-0.010 (-0.837)	-0.005 (-0.463)
$\Delta PolRate \cdot D^{Elightle} \cdot D^{QE}$				-0.235*** (-9.456)	-0.138*** (-11.374)	-0.172^{***} (-14.035)	-0.070^{*} (-1.820)	-0.043^{**} (-2.290)	-0.052^{***} (-2.737)
Δrepo ^{Special} lagged	$\begin{array}{c} -0.424^{***} \\ (-56.995) \end{array}$	$\begin{array}{c} -0.312^{***} \\ (-9.357) \end{array}$	$\begin{array}{c} -0.364^{***} \\ (-20.719) \end{array}$	$\begin{array}{c} -0.424^{***} \\ (-56.981) \end{array}$	$\begin{array}{c} -0.312^{***} \\ (-9.356) \end{array}$	$\begin{array}{c} -0.364^{***} \\ (-20.716) \end{array}$	$\begin{array}{c} -0.424^{***} \\ (-56.992) \end{array}$	-0.312^{***} (-9.357)	-0.364^{***} (-20.719)
N R ²	106,105	195,503	301,608 0.119	106,105 0.159	195,503 0.084	301,608 0,119	106,105 0,159	195,503	301,608 0.119

Table 4.6. Collateral eligibility: Germany

The table reports the regression models can using the increase of sense of significant to equivalent in sensing as the pseudramity of the properties processary pelor parent rules in speed are provided in the design in the provide rules are designed. The *M*-results was the design in the proceeding of the properties of the provide rule of the provided rule of the provided



Appendix: Eligible/noneligible by term type

	(1) $\Delta repo^{Special}$	(2) $\Delta repo^{Special}$	(3) $\Delta repo^{Special}$	(4) $\Delta repo^{Special}$	(5) $\Delta repo^{Special}$	(6) $\Delta repo^{Special}$	(7) Δrepo ^{Special}	(8) Δrepo ^{Special}	(9) Δrepo^{Special}
	TN b/t	SN b/t	TN/SN b/t	TN b/t	SN b/t	TN/SN b/t	TN b/t	SN b/t	TN/SN b/t
$\Delta PolRate$	0.184*** (26.371)	0.063*** (18.168)	0.105*** (31.179)	0.147*** (14.900)	0.063*** (10.447)	0.095*** (17.681)	0.157*** (14.724)	0.071*** (10.779)	0.103*** (17.810)
D^{QE}	-0.010 (-0.719)	-0.006 (-0.802)	-0.008 (-1.187)				-0.010 (-0.709)	-0.005 (-0.700)	-0.008 (-1.158)
$\Delta PolRate \cdot D^{QE}$	-0.160^{***} (-12.396)	-0.110^{***} (-17.603)	-0.126^{***} (-19.814)				-0.124^{***} (-5.922)	-0.092^{***} (-8.172)	-0.104^{***} (-9.643)
DEligible				0.000 (0.013)	0.008 (1.179)	0.005 (0.972)	0.000 (0.007)	0.008 (1.181)	0.005 (0.969)
$\Delta PolRate \cdot D^{Eligible}$				0.055*** (4.088)	-0.004 (-0.526)	0.011 (1.592)	0.044*** (3.169)	-0.011 (-1.472)	0.002 (0.295)
$\Delta PolRate \cdot D^{Elegable} \cdot D^{QE}$				-0.182^{***} (-11.145)	-0.120^{***} (-16.192)	-0.137^{***} (-17.552)	-0.058^{**} (-2.189)	-0.028^{**} (-2.005)	-0.033^{**} (-2.453)
∆repo ^{Special} lagged	$\begin{array}{c} -0.409^{***} \\ (-81.121) \end{array}$	-0.316^{***} (-19.471)	-0.357^{***} (-39.267)	-0.409^{***} (-81.084)	-0.316^{***} (-19.470)	-0.357^{***} (-39.259)	-0.409^{***} (-81.092)	$\begin{array}{c} -0.316^{***} \\ (-19.472) \end{array}$	-0.357 ^{***} (-39.264)
$N = R^2$	238,165 0.146	467,468	705,633 9,115	238,165 0.146	467,468 0.008	705,633 0.115	238,165 0.146	467,468 0.088	705,633

Table 4.7. Collateral eligibility: Core countries

The table papers the spension sensiting the impact of start diplicity for quantitative starge rate harmody of the paratery papers target rate in papers of papers in the provide start of the start of the paratery papers target rate in the paper of the paratery is high-paraterially independent on the paraterial start of the paratery is high-paraterially independent on the paraterial start of the paraterial start



Appendix: Eligible/noneligible by term type

	(1) Δrepo^{Special}	(2) $\Delta repo^{Special}$	(3) $\Delta repo^{Special}$	(4) $\Delta repo^{Special}$	(5) $\Delta repo^{Special}$	(6) $\Delta repo^{Special}$	(7) $\Delta repo^{Special}$	(8) $\Delta repo^{Special}$	(9) Δrepo ^{Special}
	TN b/t	SN b/t	TN/SN b/t	TN b/t	SN b/t	TN/SN b/t	TN b/t	SN b/t	TN/SN b/t
$\Delta PolRate$	0.174*** (26.299)	0.061*** (17.227)	0.099*** (30.205)	0.145*** (15.800)	0.062*** (10.508)	0.094*** (18.394)	0.153*** (15.406)	0.069*** (10.844)	0.101*** (18.358)
D^{QE}	-0.021 (-1.046)	-0.012 (-1.404)	-0.017^{*} (-1.752)				-0.021 (-1.047)	-0.012 (-1.375)	-0.016^{*} (-1.740)
$\Delta PolRate \cdot D^{QE}$	-0.126^{***} (-10.342)	-0.105^{***} (-16.347)	-0.108 (-17.339)				-0.094^{***} (-4.601)	-0.088^{***} (-7.479)	-0.089^{***} (-8.198)
D ^{Eligible}				-0.007 (-0.658)	0.009 (1.374)	0.004 (0.659)	-0.007 (-0.675)	0.009 (1.365)	0.004 (0.629)
$\Delta PolRate \cdot D^{Rlighte}$				0.041*** (3.259)	-0.005 (-0.625)	0.004 (0.562)	0.033** (2.508)	-0.012 (-1.545)	-0.004 (-0.565)
$\Delta PolRate \cdot D^{Elighte} \cdot D^{QE}$				-0.145^{***} (-9.453)	-0.114^{***} (-14.766)	-0.117 (-15.319)	-0.051^{**} (-1.995)	-0.026^{*} (-1.869)	-0.028^{**} (-2.119)
$\Delta repoSpecial lagged$	-0.412^{***} (-95.132)	-0.324^{***} (-27.036)	$^{-0.362^{***}}_{(-51.918)}$	-0.412^{***} (-95.101)	-0.324^{***} (-27.036)	$^{-0.362^{***}}_{(-51.911)}$	$^{-0.412^{***}}_{(-95.110)}$	-0.324^{***} (-27.037)	-0.362^{***} (-51.915)
$\frac{N}{R^2}$	323,263 0.151	620,086 0.093	943,349 0.118	323,263 0.151	620,086 0.093	943,349 0.118	323,263 0.151	620,086 0.063	943,349 0.118

Table 4.8. Collateral eligibility: All countries

The table reports the reportion remains canning the impact of users digitably for quantitative using on the pass-theory of the reports proton provides produce provides the sharing the logical product of the share the resolution proton $L^{(0)}_{\rm cont}$. ArXiv filter down the share the logical proton $L^{(0)}_{\rm cont}$ ($L^{(0)}_{\rm cont}$) (



Appendix: Eligible/noneligible by fixed effect specification

	(1)	(2)	(3)	(4)	(5)
	$\Delta repo^{Special}$ TN/SN b/t	$\Delta repo^{Special}$ TN/SN b/t	$\frac{\Delta repo^{Special}}{TN/SN}$ b/t	$\Delta repo^{Special}$ TN/SN b/t	$\Delta repo^{Special}$ TN/SN b/t
$\Delta PolRate$	0.109*** (13.130)	0.111*** (13.151)	0.117*** (13.619)	0.118*** (13.718)	0.119*** (13.765)
D^{QE}	-0.016 (-1.434)	-0.016 (-1.428)	0.048*** (9.022)	0.013*** (5.858)	0.048*** (9.408)
$\Delta PolRate\cdot D^{QE}$	-0.120^{***} (-8.154)	-0.121^{***} (-8.170)	-0.129^{***} (-8.598)	-0.129^{***} (-8.558)	-0.131^{***} (-8.715)
$D^{Eligible}$	0.004 (0.440)	0.004 (0.505)	-0.010^{**} (-2.344)	$^{-0.002}_{(-0.827)}$	$-0.000 \\ (-0.017)$
$\Delta PolRate \cdot D^{Eligible}$	-0.005 (-0.463)	$-0.006 \\ (-0.511)$	-0.002 (-0.219)	-0.003 (-0.302)	-0.004 (-0.348)
$\Delta PolRate \cdot D^{Eligible} \cdot D^{QE}$	-0.052^{***} (-2.737)	-0.053^{***} (-2.739)	-0.053^{***} (-2.711)	-0.051^{***} (-2.596)	-0.052^{**} (-2.642)
$\Delta repo^{Special}$ lagged	-0.364^{***} (-20.719)	-0.360^{***} (-21.031)	-0.350*** (-20.941)	-0.349^{***} (-20.941)	-0.349^{***} (-20.950)
FE	$\begin{array}{c} \mathrm{ISIN}\times\\ \mathrm{Month}\times\\ \mathrm{Term} \end{array}$	ISIN× Month	ISIN× Year	ISIN	Year
$\frac{N}{R^2}$	301,608 0.119	301,859 0.123	301,896 0.121	301,897 0.121	301,897 0.121

Table 4.9. Collateral eligibility: Germany, different fixed effect specifications



Appendix: Eligible/noneligible by fixed effect specification

	(1)	(2)	(3)	(4)	(5)
	$\Delta repo^{Special}$	$\Delta repo^{Special}$	$\Delta repo^{Special}$	$\Delta repo^{Special}$	$\Delta repo^{Specia}$
	TN/SN	TN/SN	TN/SN	TN/SN	TN/SN
	b/t	b/t	b/t	b/t	b/t
$\Delta PolRate$	0.103***	0.106***	0.114***	0.115***	0.115***
	(17.810)	(18.194)	(19.593)	(19.711)	(19.745)
D^{QE}	-0.008	-0.008	0.045***	0.010***	0.045***
	(-1.158)	(-1.148)	(13.006)	(7.362)	(13.513)
$\Delta PolRate \cdot D^{QE}$	-0.104^{***} (-9.643)	-0.107 (-9.860)	-0.119^{***} (-10.855)	-0.119^{***} (-10.823)	-0.121^{***} (-11.030)
$D^{Eligible}$	0.005 (0.969)	$\begin{pmatrix} 0.005 \\ (0.972) \end{pmatrix}$	-0.007^{**} (-2.470)	$^{-0.002}_{(-1.324)}$	$\begin{array}{c} 0.001 \\ (0.599) \end{array}$
$\Delta PolRate \cdot D^{Eligible}$	0.002	0.003	0.006	0.005	0.005
	(0.295)	(0.400)	(0.858)	(0.764)	(0.722)
$\Delta PolRate \cdot D^{Eligible} \cdot D^{QE}$	-0.033^{**}	-0.033^{**}	-0.031^{**}	-0.029^{**}	-0.030^{**}
	(-2.453)	(-2.426)	(-2.305)	(-2.096)	(-2.179)
$\Delta repo^{Special}$ lagged	-0.357^{***}	-0.352^{***}	-0.341^{***}	-0.340^{***}	-0.340^{***}
	(-39.264)	(-39.715)	(-39.287)	(-39.274)	(-39.297)
FE	ISIN× Month× Term	ISIN× Month	ISIN× Year	ISIN	Year
N	705,633	706,207	706,252	706,255	706,255
R ²	0.115	0.119	0.116	0.116	0.116

Table 4.10. Collateral eligibility: Core countries, different fixed effect specifications

The table reports the regression results examining the impact of nexes eligibility for quantitative easing on the post-frame of the monotoxy policy target rate into operating results. The dependent ratio is the change in the special report the $\Delta regression = 2 \Delta relation of the target rate of target ra$



Appendix: Eligible/noneligible by fixed effect specification

	(1)	(2)	(3)	(4)	(5)
	$\Delta repo^{Special}$	$\Delta repo^{Special}$	$\Delta repo^{Special}$	$\Delta repo^{Special}$	$\Delta repo^{Specia}$
	TN/SN	TN/SN	TN/SN	TN/SN	TN/SN
	b/t	b/t	b/t	b/t	b/t
$\Delta PolRate$	0.101***	0.105***	0.113***	0.114***	0.114***
	(18.358)	(18.825)	(20.418)	(20.554)	(20.584)
D^{QE}	-0.016^{*}	-0.017^{*}	0.038***	0.011***	0.039***
	(-1.740)	(-1.764)	(10.253)	(8.196)	(11.222)
$\Delta PolRate \cdot D^{QE}$	-0.089^{***}	-0.092^{***}	-0.104^{***}	-0.104^{***}	-0.106^{***}
	(-8.198)	(-8.437)	(-9.547)	(-9.563)	(-9.737)
$D^{Eligible}$	0.004	0.004	-0.007^{***}	-0.001	0.001
	(0.649)	(0.727)	(-2.867)	(-0.652)	(0.611)
$\Delta PolRate \cdot D^{Eligible}$	$-0.004 \\ (-0.565)$	-0.003 (-0.369)	$\begin{pmatrix} 0.001 \\ (0.181) \end{pmatrix}$	0.001 (0.096)	$\begin{array}{c} 0.000\\ (0.057) \end{array}$
$\Delta PolRate \cdot D^{Eligible} \cdot D^{QE}$	-0.028^{**}	-0.029^{**}	-0.031^{**}	-0.028^{**}	-0.029^{**}
	(-2.119)	(-2.165)	(-2.310)	(-2.076)	(-2.170)
$\Delta repo^{Special}$ lagged	-0.362^{***}	-0.356^{***}	-0.345^{***}	-0.344^{***}	-0.344^{***}
	(-51.915)	(-52.505)	(-51.939)	(-51.934)	(-51.964)
FE	ISIN× Month× Term	ISIN× Month	ISIN× Year	ISIN	Year
$\frac{N}{R^2}$	943,349	944,265	944,331	944,335	944,335
	0.118	0.122	0.119	0.119	0.119

Table 4.11. Collateral eligibility: All countries, different fixed effect specifications

The table reports the regression results examining the impact of asset eliphility for quantitative using on the specification of the structure of the structur



Appendix: Eligible/noneligible by clustered standard errors

	(1)	(2)	(3)
	$\Delta repo^{Special}$	$\Delta repo^{Special}$	$\Delta repo^{Special}$
	b/t	b/t	b/t
$\Delta PolRate$	0.106** (32.158)	0.098** (33.661)	0.109** (36.511)
D^{QE}	-0.016 (-0.832)		-0.016 (-0.835)
$\Delta PolRate \cdot D^{QE}$	-0.150 (-5.792)		-0.120^{**} (-20.932)
$D^{Eligible}$		0.004 (0.400)	0.004 (0.400)
$\Delta PolRate \cdot D^{Eligible}$		0.006 (1.925)	-0.005 (-1.309)
$\Delta PolRate \cdot D^{Eligible} \cdot D^{QE}$		-0.172^{***} (-175.810)	-0.052^{*} (-8.421)
$\Delta repo^{Special}$ lagged	-0.364^{**} (-22.869)	-0.364^{**} (-22.935)	-0.364^{**} (-22.804)
$\frac{N}{R^2}$	301,608 0.119	$301,608 \\ 0.119$	$301,608 \\ 0.119$

Table 4.12. Collateral eligibility: Germany

The table reports the regression results canning the impact of assot tightly for quantitative using no the monotary polytop such tendpo having distanced standard errors. The dependent variable is the change in the special regress rate dependent variable is the change in the special regression of the tend of the special regression include 181N model engineer the PSPP. Diverse constrained area in parallel regression include 181N model engiphility for quantum regression include 181N model engiphility is the special regression include 181N model engineers and the special regression include 181N model engiphility is the special regression include 181N model engineers are the special regression of the tender period 2010 2015.



Appendix: Eligible/noneligible by clustered standard errors

	(1)	(2)	(3)
	$\Delta repo^{Special}$	$\Delta repo^{Special}$	$\Delta repo^{Special}$
	b/t	b/t	b/t
$\Delta PolRate$	0.105*** (134.397)	0.095*** (72.001)	0.103*** (81.078)
D^{QE}	$-0.008 \\ (-0.716)$		$-0.008 \\ (-0.694)$
$\Delta PolRate \cdot D^{QE}$	-0.126^{*} (-8.472)		-0.104^{**} (-39.994)
$D^{Eligible}$		0.005 (1.050)	(1.028)
$\Delta PolRate \cdot D^{Eligible}$		0.011* (7.979)	(1.168)
$\Delta PolRate \cdot D^{Eligible} \cdot D^{QE}$		-0.137^{***} (-195.384)	-0.033^{**} (-12.887)
$\Delta repo^{Special}$ lagged	-0.357^{**} (-29.353)	-0.357^{**} (-29.473)	-0.357^{**} (-29.314)
$\frac{N}{R^2}$	705,633 0.115	705,633 0.115	705,633 0.115

Table 4.13. Collateral eligibility: Core countries

The table reports the regression results examining the impact of assot eighbility for quantitative assign to the monetary policy pass-through using clustered standard errors. The dependent variable is the change in the special regress rate $2e_{\rm spec}^{\rm const}$. Support the special regression of the special regression in the special regression of the special regression in the special regression is the special regression in the special regression in the special regression in the special regression is the special regression in the special regression in the special regression in the special regression is the special regression in the special regression in the special regression is the special regression in the special regression in the special regression in the



Appendix: Eligible/noneligible by clustered standard errors

	(1)	(2)	(3)
	$\Delta repo^{Special}$	$\Delta repo^{Special}$	$\Delta repo^{Special}$
	b/t	b/t	b/t
$\Delta PolRate$	0.099** (45.807)	0.094*** (110.286)	0.101*** (99.326)
D^{QE}	-0.017 (-0.666)		$-0.016 \\ (-0.661)$
$\Delta PolRate\cdot D^{QE}$	-0.108^{*} (-8.733)		-0.089^{**} (-48.349)
$D^{Eligible}$		0.004 (0.702)	0.004 (0.667)
$\Delta PolRate \cdot D^{Eligible}$		$\begin{array}{c} 0.004 \\ (3.383) \end{array}$	$-0.004 \\ (-1.931)$
$\Delta PolRate \cdot D^{Eligible} \cdot D^{QE}$		-0.117^{***} (-186.211)	-0.028^{**} (-31.726)
$\Delta repo^{Special}$ lagged	-0.362^{**} (-43.257)	-0.362^{**} (-43.367)	-0.362^{**} (-43.092)
$\frac{N}{R^2}$	943,349 0.118	943,349 0.118	943,349 0.118

Table 4.14. Collateral eligibility: All countries

The table reports the regression results examining the impact of assot eighting for quantitative using in the mostery probability probability of the probability of the errors. The dependent variable is the change in the special regress rate $\Delta regress = 10^{-10}$ rm^{-10} and rm^{-10} rm^{-10} rm^{-10} rm^{-10} rm^{-10} rm^{-10} rm^{-10} rm^{-10} rm^{-10} rm^{-



Appendix: Alternative Rates and eligible/noneligible collateral

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	EONIA	€STR	euro LIBOR	zero OIS	zero EURIBOR	OIS 1W	GC Pooling
	$\Delta repo^{Special}$	$\Delta repo^{Special}$	$\Delta repo^{Special}$	$\Delta repo^{Special}$	$\Delta repo^{Special}$	$\Delta repo^{Special}$	$\Delta repo^{Specia}$
	TN/SN	TN/SN	TN/SN	TN/SN	TN/SN	TN/SN	TN/SN
	b/t	b/t	b/t	b/t	b/t	b/t	b/t
$\Delta PolRate$	0.109***	0.109***	0.105***	0.054***	0.046***	0.101***	0.117***
	(13.130)	(13.130)	(11.394)	(9.442)	(9.250)	(12.053)	(13.854)
D^{QE}	-0.016	-0.016	-0.040^{***}	-0.028^{**}	-0.031^{**}	-0.039^{***}	0.042***
	(-1.434)	(-1.421)	(-3.105)	(-2.303)	(-2.465)	(-3.456)	(3.461)
$\Delta PolRate \cdot D^{QE}$	-0.120^{***}	-0.116^{***}	-0.109^{***}	-0.025^{***}	-0.019^{***}	-0.039^{**}	0.406***
	(-8.154)	(-7.867)	(-9.346)	(-3.565)	(-2.984)	(-2.427)	(6.250)
$D^{Eligible}$	0.004 (0.440)	0.004 (0.435)	0.003 (0.316)	$\begin{array}{c} 0.003\\ (0.314) \end{array}$	0.002 (0.254)	(0.002) (0.187)	0.002 (0.202)
$\Delta PolRate \cdot D^{Eligible}$	-0.005	-0.005	-0.000	0.015**	0.002	-0.022^{**}	0.013
	(-0.463)	(-0.463)	(-0.015)	(1.987)	(0.355)	(-2.059)	(1.172)
$\Delta PolRate \cdot D^{Eligible} \cdot D^{QE}$	-0.052^{***}	-0.044^{**}	-0.023	-0.031^{***}	-0.017^{**}	-0.023	-0.216^{***}
	(-2.737)	(-2.289)	(-1.491)	(-3.346)	(-2.021)	(-1.086)	(-2.972)
$\Delta repo^{Special}$ lagged	$\begin{array}{c} -0.364^{***}\\ (-20.719) \end{array}$	$\begin{array}{c} -0.364^{***}\\ (-20.719) \end{array}$	-0.365^{***} (-20.277)	-0.363^{***} (-19.856)	$\begin{array}{c} -0.363^{***} \\ (-19.668) \end{array}$	-0.359^{***} (-20.195)	-0.356^{***} (-69.536)
$\frac{N}{R^2}$	301,608 0.119	301,608 0.119	299,889 0.120	290,153 0.119	289,058 0.120	$298,718 \\ 0.116$	$303,446 \\ 0.119$

Table 7. Asset eligibility: Germany



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	(1)	(2)	(3)	(4)	(5)	(6)
	EONIA	€STR	euro LIBOR	zero OIS	zero EURIBOR	OIS 1W
	$\Delta repo^{Special}$	$\Delta repo^{Special}$	$\Delta repo^{Special}$	$\Delta repo^{Special}$	$\Delta repo^{Special}$	$\Delta repo^{Specie}$
	TN/SN	TN/SN	TN/SN	TN/SN	TN/SN	TN/SN
	b/t	b/t	b/t	b/t	b/t	b/t
$\Delta PolRate$	0.103***	0.103***	0.099***	0.055***	0.041***	0.074***
	(17.810)	(17.810)	(15.179)	(13.493)	(11.908)	(12.705)
D^{QE}	-0.008 (-1.158)	-0.008 (-1.140)	-0.033^{***} (-3.990)	-0.023^{***} (-2.845)	-0.026^{***} (-3.244)	-0.032^{***} (-4.581)
$\Delta PolRate \cdot D^{QE}$	-0.104^{***} (-9.643)	-0.097^{***} (-8.995)	-0.094^{***} (-10.427)	-0.037^{***} (-7.136)	(-0.023^{***}) (-4.925)	$^{-0.001}_{(-0.049)}$
$D^{Eligible}$	0.005	0.005	0.006	0.004	0.003	0.004
	(0.969)	(0.959)	(1.003)	(0.688)	(0.612)	(0.629)
$\Delta PolRate \cdot D^{Eligible}$	$\begin{array}{c} 0.002 \\ (0.295) \end{array}$	(0.002) (0.295)	0.017** (2.108)	0.005 (1.112)	0.001 (0.270)	0.028*** (3.810)
$\Delta PolRate \cdot D^{Eligible} \cdot D^{QE}$	-0.033**	-0.028^{**}	-0.028^{**}	-0.010	-0.005	-0.026^{*}
	(-2.453)	(-2.133)	(-2.517)	(-1.591)	(-0.937)	(-1.754)
$\Delta repo^{Special}$ lagged	-0.357^{***}	-0.357^{***}	-0.359^{***}	-0.356^{***}	-0.356^{***}	-0.352^{***}
	(-39.264)	(-39.264)	(-38.341)	(-37.516)	(-37.058)	(-38.194)
$\frac{N}{R^2}$	705,633	705,633	701,859	681,324	678,897	699,266
	0.115	0.115	0.117	0.114	0.115	0.113

Table 4.16. Collateral eligibility: Core countries

The table reports the regression results examining the impact of asset eligibility for quantitative easing on the measure policy post-transfs of arbitrarily measure policy target rates. The dependent variable is the damge in the operation port and $\Delta T P \delta I data$ depided denotes the change in different policy rates. D^{TR} equals 1 daring the PSPP, $D^{Tinghet}$ equals 1 is a scettric is (hypothetically) eligible for partness where the PSPP wet, "is all α " represent significance at a 1, β and D^{TI} data and D^{TI} d



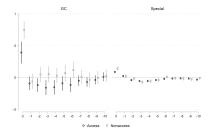
	(1)	(2)	(3)	(4)	(5)	(6)
	EONIA	€STR	euro LIBOR	zero OIS	zero EURIBOR	OIS 1W
	$\Delta repo^{Special}$					
	TN/SN	TN/SN	TN/SN	TN/SN	TN/SN	TN/SN
	b/t	b/t	b/t	b/t	b/t	b/t
$\Delta PolRate$	0.101***	0.101***	0.092***	0.055***	0.040***	0.065***
	(18.358)	(18.358)	(15.576)	(14.263)	(12.556)	(11.882)
D^{QE}	-0.016^{*}	-0.016^{*}	-0.039^{***}	-0.031^{***}	-0.034^{***}	-0.040^{***}
	(-1.740)	(-1.729)	(-3.990)	(-3.185)	(-3.471)	(-4.399)
$\Delta PolRate \cdot D^{QE}$	-0.089^{***}	-0.083^{***}	-0.086^{***}	-0.033^{***}	-0.018^{***}	0.030**
	(-8.198)	(-7.669)	(-9.474)	(-6.308)	(-3.803)	(2.538)
$D^{Eligible}$	0.004	0.004	0.004	0.001	0.001	0.002
	(0.649)	(0.642)	(0.685)	(0.218)	(0.124)	(0.298)
$\Delta PolRate \cdot D^{Eligible}$	-0.004	-0.004	0.007	-0.003	-0.003	0.039***
	(-0.565)	(-0.565)	(0.902)	(-0.634)	(-0.659)	(5.593)
$\Delta PolRate \cdot D^{Eligible} \cdot D^{QE}$	-0.028^{**}	-0.024^{*}	-0.005	-0.001	-0.002	-0.013
	(-2.119)	(-1.781)	(-0.439)	(-0.103)	(-0.287)	(-0.857)
$\Delta repo^{Special}$ lagged	-0.362^{***}	-0.362^{***}	-0.363^{***}	-0.360^{***}	-0.360^{***}	-0.358****
	(-51.915)	(-51.915)	(-50.806)	(-49.173)	(-48.554)	(-50.579)
$\frac{N}{R^2}$	943,349	943,349	938,391	913,396	910,329	934,884
	0.118	0.118	0.120	0.118	0.118	0.117

Table 4.17. Collateral eligibility: All countries

The table reports the regression results canning the impact of asset eligibility for quantitative cosing on the maxtary policy post-brough for distributive cosing region (see the structure) of the structure of



Appendix: Market spillover



Appendix: Regression results for time since eligibility

	Gerr	nany	C	ore	All		
	$\Delta repo^{Special}$	$\Delta repo^{Special}$					
	TN/SN b/t	TN/SN b/t	TN/SN b/t	TN/SN b/t	TN/SN b/t	TN/SN b/t	
$\Delta PolRate$	0.106*** (19.643)	0.106*** (19.643)	0.105*** (31.179)	0.105^{***} (31.179)	0.099*** (30.205)	0.099*** (30.205)	
D^{QE}	-0.015 (-1.380)	-0.016 (-1.423)	-0.008 (-1.102)	-0.008 (-1.157)	-0.016^{*} (-1.699)	-0.016^{*} (-1.736)	
$\Delta PolRate \cdot D^{QE}$	-0.094^{***} (-9.018)	-0.120^{***} (-8.469)	-0.080^{***} (-11.341)	-0.103^{***} (-9.773)	-0.070^{***} (-10.103)	-0.082^{***} (-7.509)	
$\Delta PolRate \cdot TSE$	-0.001^{***} (-9.635)		-0.001^{***} (-9.882)		$\begin{array}{c} -0.001^{***} \\ (-10.592) \end{array}$		
$\Delta PolRate*$							
TSE^1_{Bucket}		-0.008 (-0.486)		-0.010 (-0.847)		-0.022^{*} (-1.802)	
TSE_{Bucket}^2		-0.279^{***} (-5.995)		-0.086^{**} (-2.491)		-0.036 (-1.344)	
TSE_{Bucket}^3		-0.470^{***} (-6.521)		-0.459^{***} (-9.542)		-0.382^{***} (-11.200)	
$\Delta repo^{Special}$ lagged	-0.364^{***} (-20.715)	-0.364^{***} (-20.716)	-0.357^{***} (-39.263)	-0.357^{***} (-39.265)	-0.362^{***} (-51.913)	-0.362^{***} (-51.917)	
$\frac{N}{R^2}$	$301,608 \\ 0.119$	$301,608 \\ 0.119$	705,633 0.115	705,633 0.115	943,349 0.118	$943,349 \\ 0.118$	

Table 4. Asset eligibility: time since eligibility

All regressions include ISIN-month-term fixed effects and heteroscedasticity-robust standard errors.

Appendix: Regression results for Joint Effects - Eligible Share in GC Baskets

		Germany		Core			All		
	(1a)	(1b)	(2)	(3a)	(3b)	(4)	(5a)	(5b)	(6)
	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{Special}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{Special}$	$\Delta repo^{GC}$	$\Delta repo^{GC}$	$\Delta repo^{Special}$
	ON/TN	ON/TN	TN/SN	ON/TN	ON/TN	TN/SN	ON/TN	ON/TN	TN/SN
	b/t	b/t	b/t	b/t	b/t	b/t	b/t	b/t	b/t
$\Delta PolRate$	0.475***	0.599***	0.159***	0.576***	0.606***	0.154***	0.606***	0.653***	0.160***
	(5.030)	(6.026)	(12.959)	(10.521)	(10.483)	(17.617)	(12.420)	(12.430)	(18.668)
$D^{D_{cp}}$	-0.067^{**}	-0.066^{**}	0.015***	-0.037^{***}	-0.037^{***}	0.005	-0.024^{**}	-0.024^{**}	0.006**
	(-2.456)	(-2.400)	(2.794)	(-2.699)	(-2.733)	(1.575)	(-2.077)	(-2.095)	(2.147)
$\Delta PolRate \cdot D^{Dep}$	$\begin{array}{c} 0.361^{***} \\ (2.692) \end{array}$	$\begin{array}{c} 0.458^{***} \\ (2.814) \end{array}$	$\begin{array}{c} 0.012\\ (0.416) \end{array}$	$\begin{array}{c} 0.383^{***} \\ (4.260) \end{array}$	0.389*** (4.343)	0.103*** (4.510)	$\begin{array}{c} 0.349^{***} \\ (4.165) \end{array}$	$\begin{array}{c} 0.362^{***} \\ (4.358) \end{array}$	0.105*** (4.686)
D^{Access}	$-0.004 \\ (-0.265)$	-0.003 (-0.193)	-0.005^{***} (-2.582)	$-0.006 \\ (-1.018)$	$-0.006 \\ (-0.940)$	-0.005^{***} (-4.127)	$-0.005 \\ (-0.908)$	$\begin{array}{c} -0.005 \\ (-0.794) \end{array}$	-0.005^{***} (-4.455)
$\Delta PolRate \cdot D^{Access}$	-0.181^{**} (-2.015)	-0.183^{*} (-1.836)	-0.062^{***} (-5.181)	$\begin{array}{c} -0.260^{***} \\ (-4.594) \end{array}$	$\begin{array}{c} -0.265^{***} \\ (-4.732) \end{array}$	-0.063^{***} (-7.875)	$\begin{array}{c} -0.311^{***} \\ (-6.132) \end{array}$	$\begin{array}{c} -0.311^{***} \\ (-6.135) \end{array}$	-0.074^{***} (-9.305)
$\Delta PolRate \cdot D^{Access} \cdot D^{Dep}$	-0.606^{***}	-0.795^{***}	-0.161^{***}	-0.456^{***}	-0.525^{***}	-0.225^{***}	-0.402^{***}	-0.477^{***}	-0.214^{***}
	(-3.775)	(-4.232)	(-5.413)	(-4.341)	(-4.890)	(-9.418)	(-4.035)	(-4.719)	(-8.988)
D^{QE}	-0.113	-0.119	-0.014	-0.047	-0.053	-0.007	-0.056	-0.062	-0.012
	(-1.489)	(-1.519)	(-1.231)	(-1.340)	(-1.503)	(-0.983)	(-1.071)	(-1.191)	(-1.309)
$D^{Eligible}$	-0.017	-0.008	0.003	-0.010^{**}	0.010*	0.005	-0.010^{**}	0.007	0.005
	(-1.509)	(-0.681)	(0.371)	(-2.047)	(1.910)	(0.911)	(-2.180)	(1.603)	(0.908)
$\Delta PolRate \cdot D^{Eligible}$	0.252***	0.045	-0.006	0.141***	0.077*	0.006	0.102**	0.006	0.005
	(3.338)	(0.490)	(-0.541)	(3.255)	(1.782)	(0.816)	(2.576)	(0.138)	(0.643)
$\Delta PolRate \cdot D^{Eligible} \cdot D^{QE}$	-0.315^{***}	-0.040	-0.097^{***}	-0.429^{***}	-0.301^{***}	-0.104^{***}	-0.349^{***}	-0.220^{***}	-0.110^{***}
	(-2.872)	(-0.261)	(-5.713)	(-6.802)	(-5.256)	(-9.822)	(-5.467)	(-3.633)	(-11.432)
$\Delta repo$ lagged	-0.340^{***} (-11.817)	-0.341^{***} (-11.603)	-0.364^{***} (-20.711)	$\begin{array}{c} -0.338^{***}\\ (-22.734) \end{array}$	-0.338^{***} (-22.683)	-0.357^{***} (-35.249)	-0.337^{***} (-24.814)	-0.338^{***} (-24.821)	-0.360^{***} (-40.685)
$\frac{N}{R^2}$	6,802 0.262	$^{6,484}_{0.255}$	301,475 0.119	30,314 0.239	29,996 0.237	628,208 0.115	37,453 0.233	37,135 0.231	759,772 0.118

Table 5. Joint effects of both forms of segmentation

All regressions include basket-month-term fixed effects and heteroscedasticity-robust standard errors. Back to presentat

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