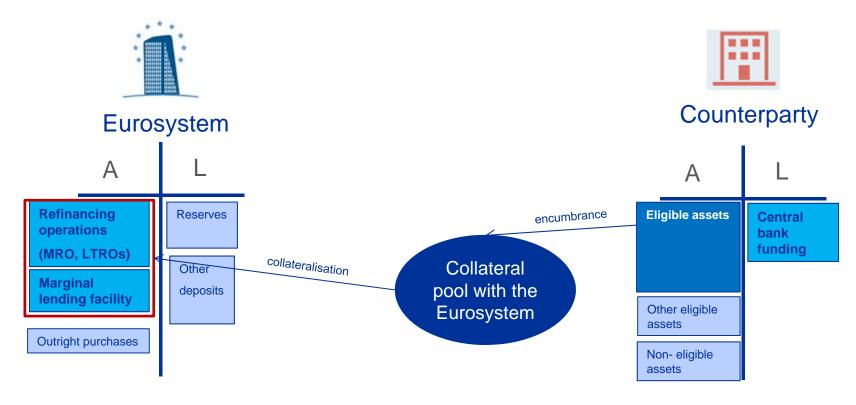


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The Eurosystem collateral framework and the functioning of collateral markets

ECB Central Banking Seminar 13 July 2018 Definition of COLLATERAL: property (such as securities) pledged by a borrower to protect the interests of the lender

Source: Merriam-Webster dictionary



Uncollateralised lending does not fit the central bank's role, expertise and constraints

- Unsecured lending is subject to high credit risk
 - Not central bank's area of expertise
 - Too high discretion might endanger accountability
 - Uniform application of interest rates does not compensate for credit risk
 - Higher probability of losses >> reputational loss
 - Counterparties with different credit risk
- Central banks need to act quickly
 - Regular operations
 - Extraordinary interventions (financial stability)
- High number of counterparties

Adequate collateral protects the Eurosystem and ensures transmission of monetary policy

- Article 18.1 of the Statute of the ESCB requires all credit operations to be based on "adequate collateral"
 - collateral must be able to protect the Eurosystem from incurring losses in its credit operations
 - there must be <u>sufficient collateral available</u> to ensure that the Eurosystem can carry out its tasks
- Hence, a broad range of assets accepted as collateral in all credit operations since inception (effective choice during crisis)
- Same type of collateral accepted in all credit operations (monetary) policy and intraday credit)
- 'Single list' of marketable collateral for the whole Eurosystem since 2007
- A broad range of counterparties is eligible to Eurosystem operations and has therefore a collateral pool with the Eurosystem

Main objectives	Support smooth conduct of monetary policy	
	Protect the Eurosystem against losses in case of counterparty default	
Main constraints	Consistency with broad set of counterparties	
	Flexibility combined with continuity over time	
	Market neutrality	
	No adverse impact on financial stability	
Secondary objectives	Cost efficiency	
	Operational efficiency	
	Simplicity	
	Transparency	

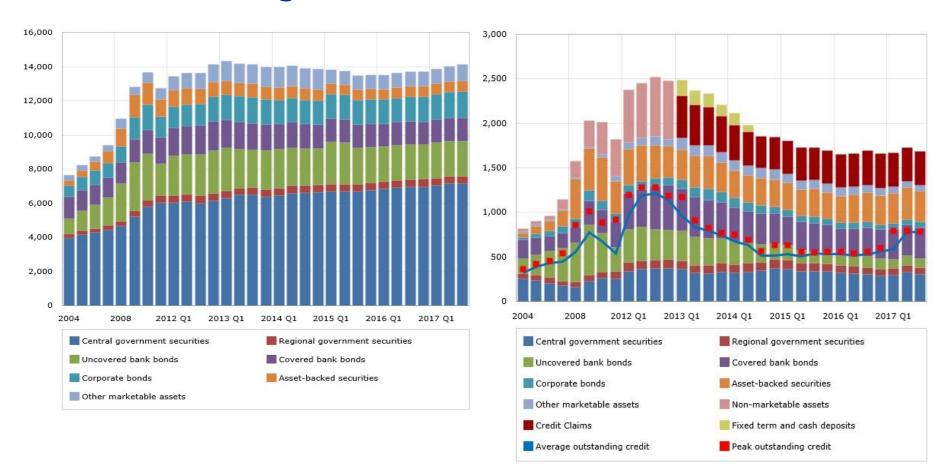
Eligibility criteria determine which assets can be used as collateral (1)

	Permane framewor		Temporary framework
Asset type	Government bonds Unsecured bank bonds Covered bank bonds Corporate bonds ABS Credit claims Fixed-term deposits/cash		
			its/cash
		_	Additional credit claims (ACC) Additional short-term debt
Structure	fixed and unconditional principal amount accepted coupon structures non-subordination		
Type of issuer/ debtor/guarantors	NCBs, public sector, private sector, international and supranational institutions		
Place of issuance (marketable)	EEA		
Accepted markets (marketable)	Admitted to trading on EU regulated market or non- regulated markets accepted by Eurosystem		

Eligibility criteria determine which assets can be used as collateral (2)

	Permane	nt framewo	rk	Temporary framework
Place of establishment of the issuer, debtor, guarantor	marketable	EEA non-EEA G10 euro area	issuer	guarantor/ABS entities guarantor
Credit assessment sources (CAS)	Moody's, Fitch, S&P and DBRS (ECAIs) Other CAS are available for unrated marketable assets and debtors of non- marketable assets			
Credit standards	ECAI rating must be equal to or above BBB- Other CAS: 1-year probability of default < 0.4%			
	ABS: at least two credit ratings at A-		ABS: at least two credit ratings at a BBB-	
				Assets issued or guaranteed by central governments of countries under a EU/IMF program
Currency	EUR			
				USD, GBP, JPY

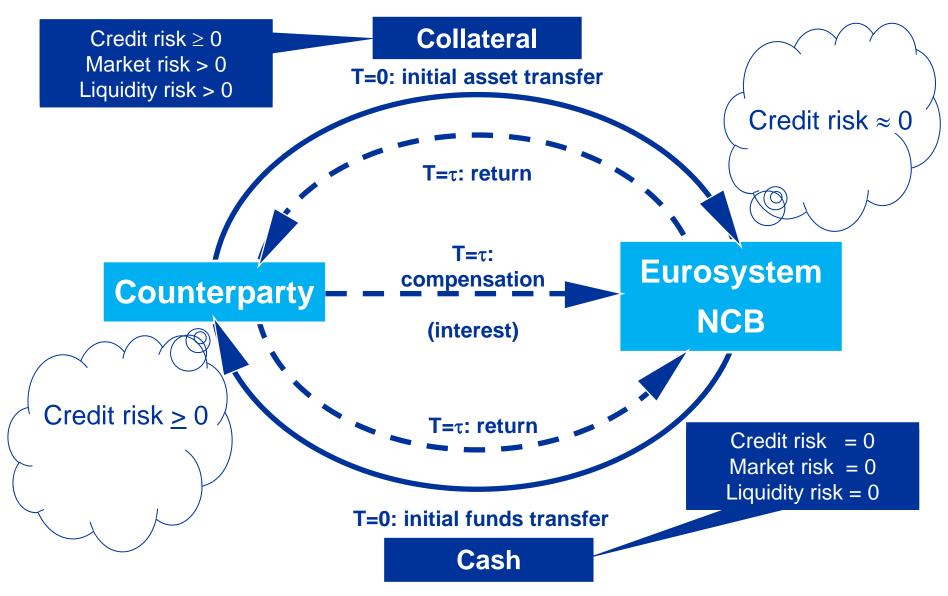
Amounts of eligible and mobilised collateral



Eligible marketable assets.

EUR billion, nominal amounts, averages of end of month data over each time period shown

Use of collateral: averages of end of month data over each time period shown . EUR billion, after valuation and haircuts Since Q1 2013, the category "Non-marketable assets" is split into two categories: "Fixed term and cash deposits" and "Credit claims".



Risk mitigation framework

CREDIT ASSESSMENT FRAMEWORK

ECAIs (S&P, Fitch, Moody's, DBRS) –for marketable assets

In-house credit assessment systems (operated by NCBs)

Counterparties' IRB systems (approved for use in monetary policy operations)

Rating tools

VALUATION

Valuation of eligible marketable assets performed by the Common Eurosystem Pricing Hub (CEPH)

Use of the most representative price on the business day preceding the valuation date

Use of theoretical price for illiquid assets which do not have direct and reliable market quotes

HAIRCUTS

Dependent on the type of asset and issuer, residual maturity/weighted average life, coupon type and credit quality

Additional haircuts applied to own-used covered bonds, theoretically priced assets and foreign currency denominated assets

Also concentration limits, valuation markdowns and margin calls are applicable

Haircuts are strongly differentiated across liquidity and credit quality

	Credit quality	Minimum haircut	Maximum haircut
Marketable assets 1)	CQS 1-2 ("AAA – A")	0.5%	25.5%
	CQS 3 ("BBB")	6%	38%
Credit claims (fixed interest payments) 2)	CQS 1-2 ("AAA – A")	12%	45%
	CQS 3 ("BBB")	19%	63%
Additional credit claims (ACCs)	CQS 1-2 ("AAA – A")	12%	45%
(minimum haircut schedule)* 3)	CQS 3 ("BBB")	19%	65%
	CQS 4 ("BB+")	42%	80%
	CQS 5 ("BB")	54%	85%
Greek government-related bonds after reinstatement of the waiver ⁴⁾	Government bonds	15%	71%
	Government-guaranteed bonds	23%	81%

^{*} Example of the application by the Central Bank of Ireland. ACCs' eligibility and risk control measures are established by NCBs, as laid down in the Guidelines of the ECB (ECB/2014/31) of 9 July 2014 on additional temporary measures relating to Eurosystem refinancing operations and eligibility of collateral.

Source: Bindseil et al. (2017)

Sources: 1) Guideline ECB/2015/35, as amended by Guideline 2016/32, Annex , Table 2; 2) Guideline ECB/2015/35, as amended by Guideline ECB/2016/32, Annex , Table 3²⁵;

³⁾ http://www.centralbank.ie/mpolbo/mpo/Documents/Supplementary%20Documentation%20on%20Monetary%20Policy%20Instruments%20and%20Procedures%202014.pdf;

⁴⁾ Decision (EU) 2016/1041 of the ECB of 22 June 2016 on the eligibility of marketable debt issued or fully guaranteed by the Hellenic Republic and repealing Decision (EU) 2015/300, Annex²⁶.

Close-links between counterparty and collateral issuer are prohibited

- A counterparty cannot use assets issued or guaranteed by itself or closely-linked entities ("own-use"):
 - Exception for CRR compliant covered bonds
 - Since March 2015, government-guaranteed bank bonds (GGBBs) can no longer be ownused
- A counterparty cannot have more than 2.5% of its collateral pool composed of uncovered bank bonds issued by the same banking group (i.e. a credit institution and its closely-linked entities):
 - does not apply to covered bonds and GGBBs
 - does not apply if the total amount is below EUR 50 million

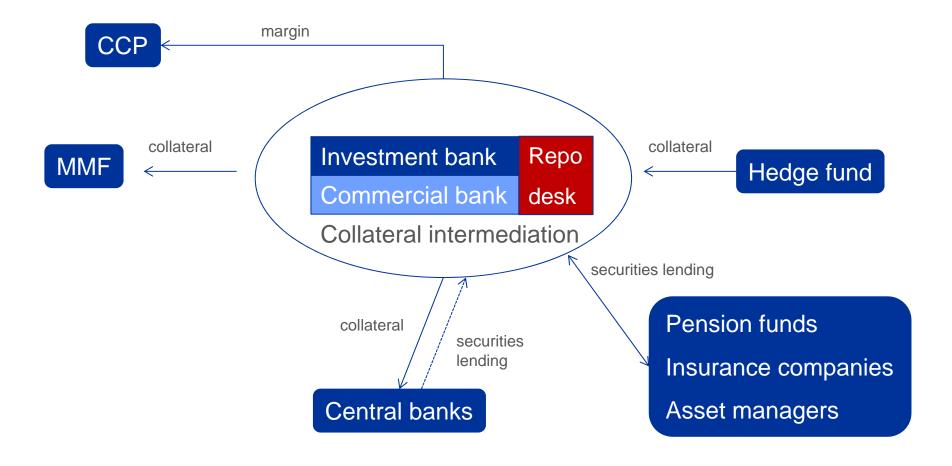
Collateral management in the Eurosystem

- Principle of decentralised implementation of monetary policy (with respect to collateral)
 - Legally and operationally counterparties of NCBs, not ECB
 - Collateral management is performed by NCBs, i.e. acceptance of assets as collateral, valuation, risk control measures, margin calls etc.
- Legal and operational set-up differs between NCBs. In most cases:
 - Legal: Collateralised loans (rather than 'repurchase agreements'):
 Counterparties pledge or assign assets to NCBs. They remain legal owners of collateral until counterparty default
 - Operational: Pooling system (rather than earmarking): the same collateral pool is used to collateralise all monetary policy (credit) operations and intraday credit in T2

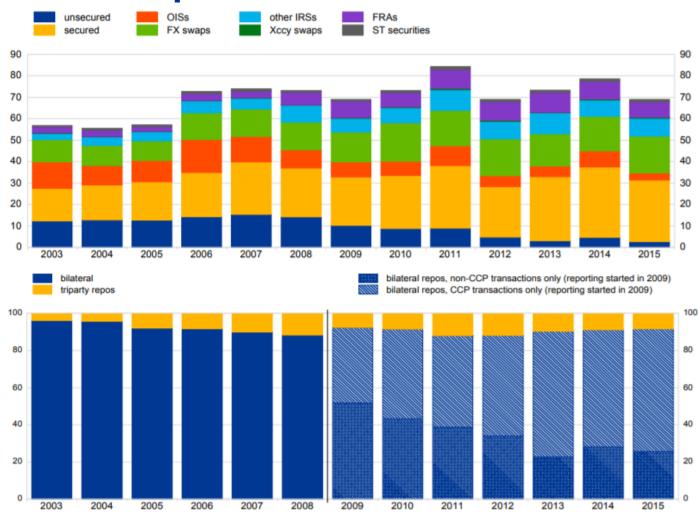
	Collateral sets	Breadth	Pooling	Counterparties
Eurosystem	Uniform	Wide	Yes	1749 (OMO) 1979 (MLF) 2455 (DF)
Federal Reserve	Differentiated	Narrow (OMO) Wide (SF)	Yes (SF) No (OMO)	23 primary dealers
Bank of England	Differentiated	3 levels depending on the facility	Yes	93 (OMO) 187 (SF) 146 (DW)
Bank of Japan	Uniform	Wide	Yes	51(repo) 271 (pooled coll)

Source: ECB [Bindseil at al (2017)]; Federal Reserve website; Bank of England website; Bank of Japan report Market Operations in Fiscal 2016

Repol securities lending markets is where collateral is priced, sourced and mobilised

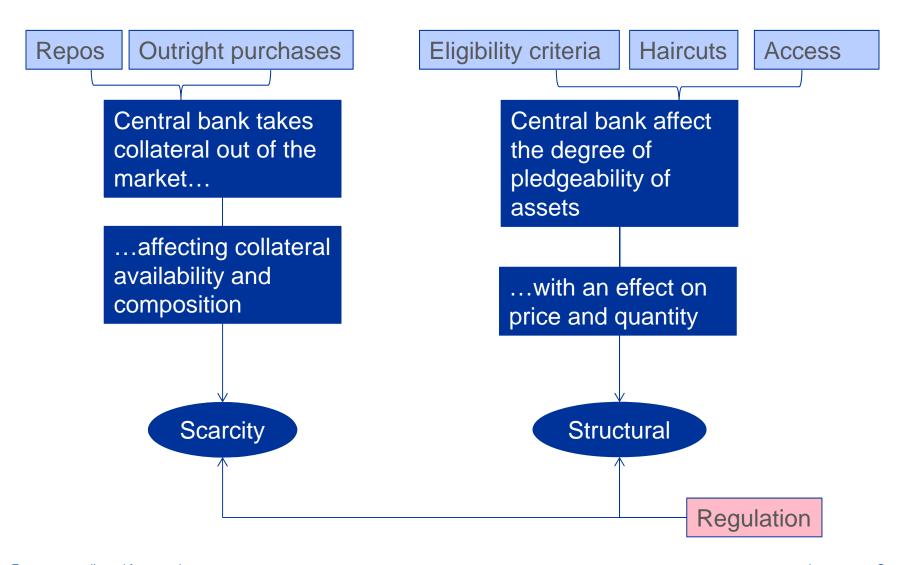


European secured transactions are mostly via bilateral CCP repos

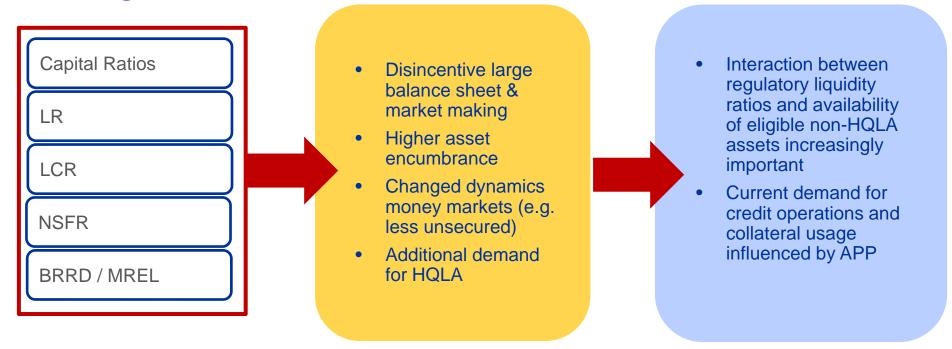


Source: ECB Money market survey (2015)

Scarcity and structural channels



Changes to the financial market environment



Liquidity Coverage Ratio (LCR) and liquidity transformation by the Eurosystem:

- Central bank reserves count as HQLA for the LCR
- LCR, together with other changes to the financial market environment, provide stronger incentives for banks to mobilise less liquid collateral than pre-crisis

Thank you