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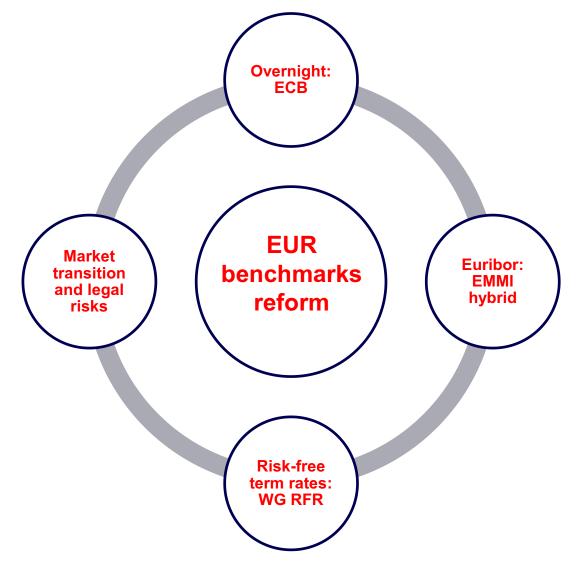
European Central Bank DG Market Operations Money Market and Liquidity Division

Presentation of ESTER (Euro Short-Term Rate)

ECB roundtable on euro risk-free rates Frankfurt, 9 November 2018

Foreword

ESTER part of a new navigation route to reform reference rates



Overview

1 Why involve ECB in benchmark reform

- 2 Context, constraints, consultations
- 3 How ESTER works
- 4 Operational aspects

ECB is competent for monetary policy implementation and how it is met... but is not benchmark administrator

price stability

Primary objective

...from the Treaty on the Functioning of the EU *maintain inflation rate below, but close to, 2% over the medium term*

Monetary policy strategy Quantitative definition of the

objective and the delivery horizon

appropriate level of very short-term interest rates

. . .

Implementation of monetary policy

Choice of operational target for monetary policy and instruments to achieve it *standard* and *unconventional tools*

EONIA reform efforts at risk, ECB stepped in

- EONIA low underlying volumes, high panel concentration: not compliant with the Benchmark Regulation
- Banks leaving the panel
- Given the systemic importance of benchmark rates reform, ECB announced in September 2017:
 - The production of an overnight unsecured rate by October 2019
 - The setup of the Working Group on risk-Free Rates (WG RFR) led by ING, with ECB in charge of Secretariat
- EMMI and the panel banks announced the end of reform efforts early 2018: EONIA cannot be used in new contracts as of 1/1/2020

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Context (1): IOSCO principles



Governance

- Administrator role
- Control and oversight



- Benchmark quality
- Design and data quality
- Hierarchy of inputs



Methodology quality

- Process transparency
- Internal controls on data



Accountability

* Audit trail

* Records

Not 'one size fits all' approach: to be applied where relevant and appropriate and proportionate to identified risk (e.g. manipulation)

ECB policy choice to implement the principles where relevant for ESTER, although they are not applicable to central banks.

Context, constraints, consultations Context (2): ESTER Guideline to be adopted

- Dedicated ECB legal act (e.g. Guideline) on top of MMSR and other statistical regulations to
 - Designate administrator
 - Establish separate oversight function within the Administrator entity
 - Adopt control framework to ensure integrity and reliability of benchmark

 The separate oversight body from the ESTER will challenge every aspect of the process and advise the decision making bodies

ECB-PUBLIC

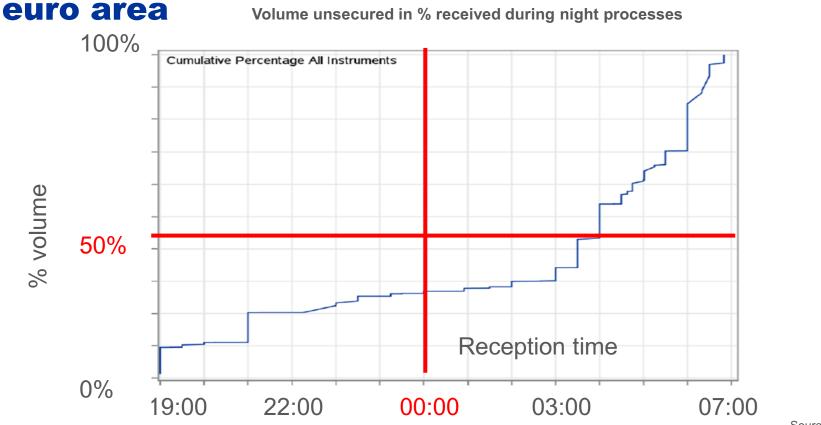
Constraints (1): New models, from quick and nongranular to delayed and granular

EONIA, Old Sonia: published at the end of the day but no granular data: 1 number per bank New SONIA, OBFR: published one day later at 9:00am based on granular statistical data: 500 to 1,200 trades SOFR: published at 8:00am based on granular data from repo platforms, several thousands trades BUT already confirmed

ESTER will be published by 9:00 the day after

Context, constraints, consultations

Constraints (2): MMSR data collection constraint, same-day publication not a realistic option in the



Source: Eurosystem

Same-day publication

Not feasible as it takes time for reporting agents to prepare files 25% of unsecured volumes only received at midnight MMSR data collection requirements not altered

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Consultations: a new rate is born

August 2018 Public consultation: 88% of respondents in favour of ESTER versus GC Pooling-Repo Funds

13 September 2018 ESTER selected by WG RFR as EONIA replacement

PR 13 September: ESTER [...] will be produced by ECB at the latest as of October 2019

Why not a secured rate comparable to SOFR: is volume everything?

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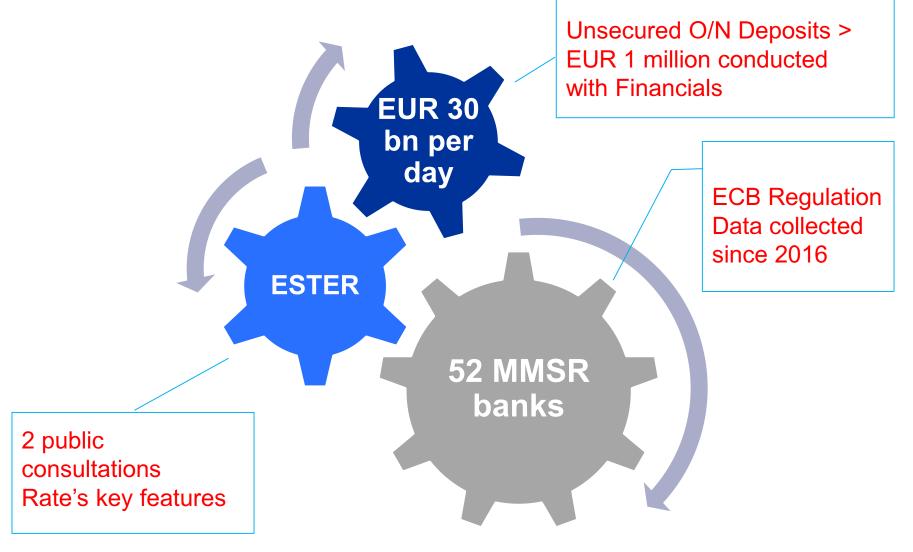
4 Operational aspects

Main features of the rate

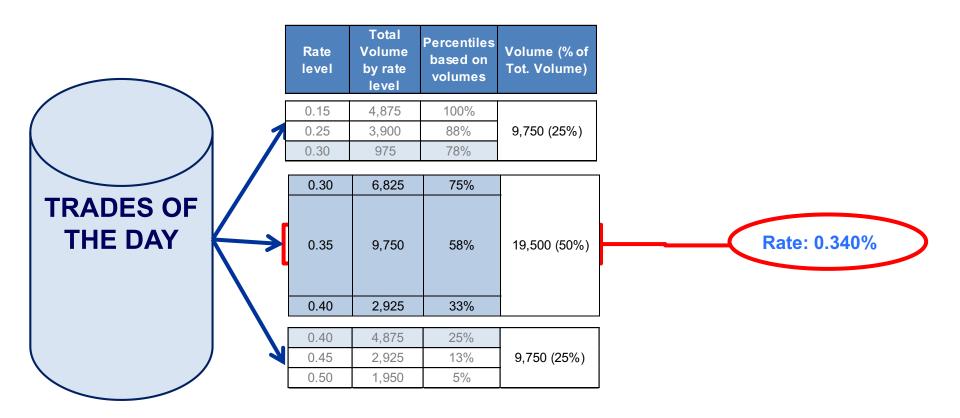
	Scope: unsecured overnight deposits to measure borrowing costs	Calculation: weighted average, trimming 25%
	Data sufficiency policy: contingency triggers (20 banks, 75% top 5 banks' concentration ratio)	Governance and processes: ESTER published by 9:00 am Frankfurt time
o you want to now more?	Publication policy and transparency on errors	Rate published daily by October 2019 Pre-ESTER publications since 28 June

Parameters more detailed in the statement of methodology https://www.ecb.europa.eu/paym/initiatives/interest rate benchmarks/share d/pdf/ecb.ESTER methodology and policies.en.pdf

ESTER is fully transactions-based, and relies on clear computation parameters



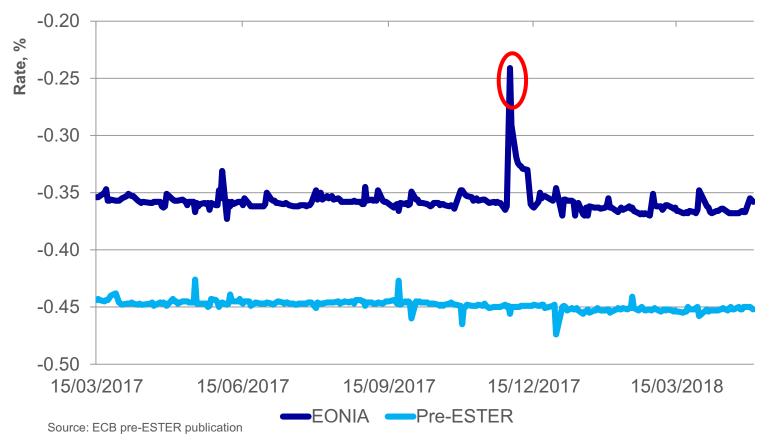
Trimming at 25% level – stylised example



No information loss:

- All trades used to determine ESTER
- ESTER calculation based on the centre of the trades' distribution

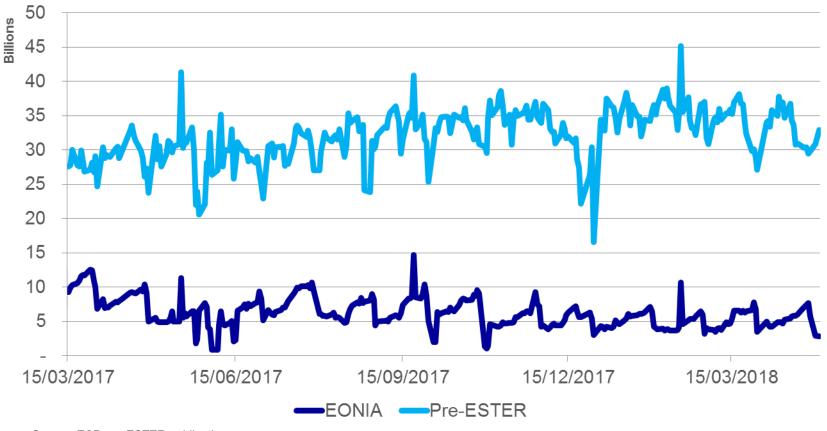
ESTER is quite stable



- Rate reacts to market factors (Excess Liquidity, rate falls at quarter-ends)
- While being less vulnerable to outliers
- Pre-ESTER (post corrections) very similar to ESTER (based on 7:00 data)
- Pre-ESTER data available on ECB website:

https://www.ecb.europa.eu/paym/initiatives/interest_rate_benchmarks/euro_short-term_rate/html/index.en.html

Volumes are steady



Source: ECB pre-ESTER publication

ESTER volume remains in a range at high levels, falls at quarter-ends Rate behaviour and volume represent a good compromise Clear conceptual logic to measure borrowing costs

Rate robustness



Source: ECB pre-ESTER publication

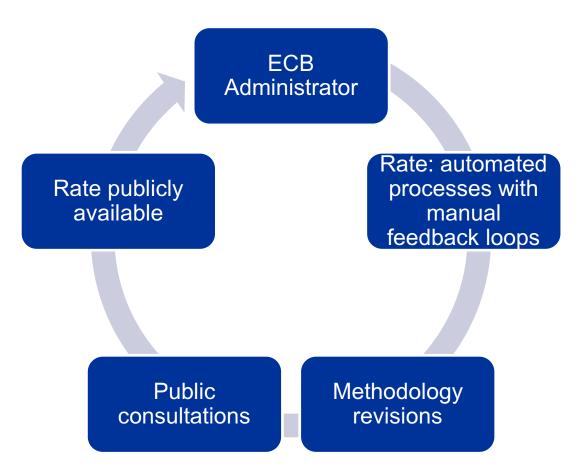
No contingency triggered by lack of transactions (data: March 2017 to May 2018) Data sufficiency and low concentration

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From governance to processes

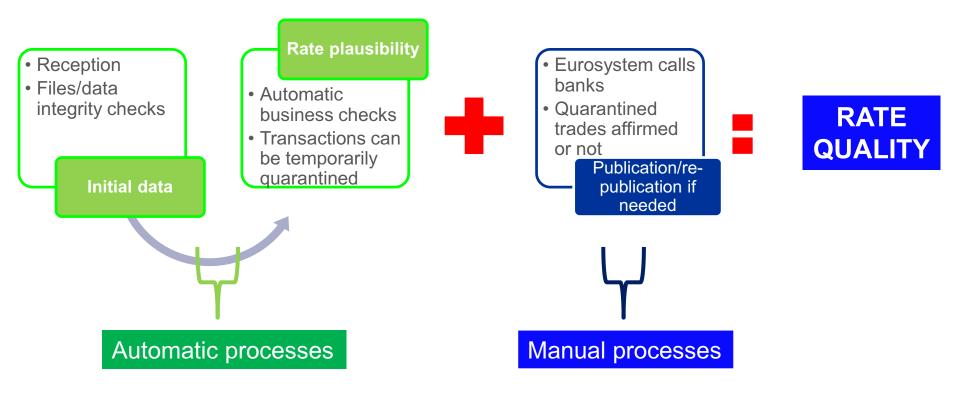


At regular intervals, ESTER methodology will be re-assessed and

- Adapted with market changes,
- Or re-confirmed

Operational aspects

Rate production process guarantees quality



Speed, timeliness and quality: differs from MMSR in terms of system criticality This requires thorough testing which is taking time (=> by October 2019) Eurosystem will call reporting banks to ensure highest quality possible

Operational aspects

Market informed every day on how the rate was determined

- 1) Rate, 3 decimals
- 2) Total volume
- 3) Number of transactions
- 4) Mode: normal, contingency

- 1) Number of banks
- 2) Share volume by largest 5 reporting banks
- 3) Rates at 25th and 75th percentiles

Rate determination

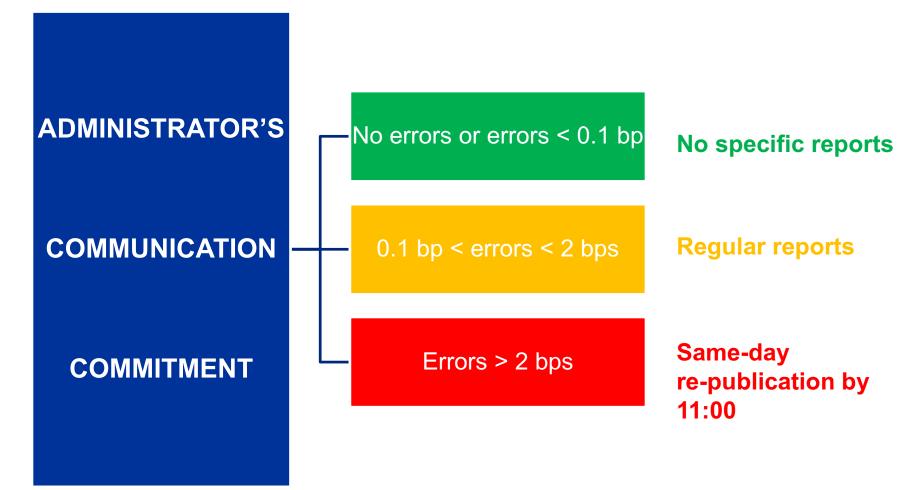
Additional information



Rate is well explained to the markets and the public

Operational aspects

Transparency policy: frequency of communication depends on importance of errors



Ad hoc communications if needed: transparency and flexibility Re-publication risk: 1 occurrence in a year (technical issue)

Interlinkages ESTER/work of the WG RFR on transition

- BMR: EONIA cannot be used as of 1 January 2020, so the new rate is needed way before 1 January 2020 in order to phase out EONIA-based contracts (derivatives, repos)
- EONIA transition mostly impacts wholesale activities, rather than retail loans
- A BMR deadline extension was requested by the WG RFR to facilitate transition