

#### EUROPEAN CENTRAL BANK

EUROSYSTEM

# €STR and the euro benchmark reform

Riksbankens Forum for RFR



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# Background: euro area critical benchmarks



### Methodology – not compliant with BMR

Market activity underpinning EONIA was very low and the volume was concentrated in a limited number of panel <u>banks</u> The panel of contributing banks currently consists of 18 CONTRIBUTORS.

<b>Belgium</b> Belfius	Netherlands ING Bank
<b>France</b> BNP-Paribas - HSBC France - Natixis -	Portugal Caixa Geral De Depósitos (COP)
Fallbacks	
In the second	Other EU Banks
Luxembourg Banque et Caisse d'Épargne de l'État	Barclays

### **EURIBOR**

### **Reformed methodology**

Challenges in terms of panel stability, limited underlying transactions Fallbacks as a regulatory requirement

# Background: ECB's involvement

 Owing to substantial risks related to the euro area critical benchmarks, in September 2017 the ECB announced:

#### Euro short-term rate

- ECB to develop a daily euro unsecured overnight interest rate
- Based on data already available to the Eurosystem through the ECB's MMSR
- Reflects wholesale borrowing costs of the euro area financial institutions

### WG on euro risk-free rates (RFR)

- Set-up of an industry working group together with the European Commission, ESMA and the FSMA
- Chaired by ING (Deutsche Bank since May 2021)
- Initial membership centred around credit institutions, also included associations, benchmarks providers. Composition is now broader with representation of the buy-side.
- The ECB provided Secretariat until May 2021 (ESMA thereafter).
- <u>Mandate of the WG on euro RFR</u>: (i) Identifying alternative euro RFRs, (ii) identifying best practices for contract robustness, (iii) developing an adoption plan and, if necessary, (iv) creating a transition plan for legacy contracts referencing existing benchmarks.

### **Governance**: example of the initial organisation of the WG on euro RFR

#### Organisation chart working group euro risk-free rates – phase 1



January 2018 to March 2019:

- Workstream 1: Selection of €STR as Euro RFR;
- Subgroup 2: consultation on a €STR term structure;
- Subgroup 3: legal issues, EONIA legal action plan;
- Subgroup 4: consultation and recommendation on an EONIA "transition path"

Decision-making: consensus-building approach; importance of the transparency in the decision-making process; importance of competition law framework; formal decisions made by a vote.

# **EONIA** transition impact

- EONIA was widely used as:
  - Reference rate in financial contracts
  - Remuneration rate for cash collateral held with CCPs
  - Cash flow discounting rate for contracts referencing EONIA and EURIBOR
- <u>€STR recommended as the euro risk-free rate</u> in September 2018
- WG on euro RFR (industry group) supported the transition:
  - ✓ By identifying a "transition path" from EONIA to the €STR
  - ✓ By identifying how to transition from EONIA to the €STR: T to T+1 move, impact on EONIA legacy contracts, impact on current risk management practices, impact on financial accounting, establishment of a liquid €STR market, etc.

# Transition from EONIA to €STR through a temporary change in EONIA methodology



- On 13 September 2018 the WG recommended the €STR as euro-risk free rate (after a public consultation, and preferrable to EUR repo indices).
- On 14 March 2019: the WG <u>recommends a transition</u> <u>path</u> between EONIA and €STR : EONIA methodology to be ''recalibrated'' and indexed on €STR for 2 years until its discontinuation, including a fixed historical spread.
- On 31 May 2019:
  - <u>EMMI (administrator) confirms EONIA's change of methodology</u>.
- ✓ The ECB publishes the <u>one-off computation of the</u> <u>fixed spread between €STR and EONIA (8.5 bp,</u> calculated on the past 12 months historical data with a 15% trimming methodology).

# Timeline of the transition from EONIA to €STR





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### A smooth transition in €STR/EONIA OIS markets



#### Monthly Volume, by Flagged Implied Underlying Rate



Source: LCH

### International comparison in the OIS markets

# <u>LCH data</u>: full transition done in €STR, steady progress in the US markets as SOFR outstanding amounts now match those of €STR

Percentage of OIS volumes linked to new risk free rate

OIS outstanding amounts linked to new risk-free rates



=> For EUR markets, the transition to €STR in OIS markets is complete; the issue remains regarding the usage of €STR in other product types

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# WG recommendations: EONIA to €STR(1/2)

Main legal recommendations (2019)

- New contracts:
  - Avoiding entering into new contracts referencing EONIA, in particular those maturing after 31 December 2021
  - Where new contracts still reference EONIA and mature after December 2021, market participants should include robust fallback provisions
- Legacy contracts:
  - Replacing EONIA as a primary rate as soon as possible, especially for those contracts maturing after December 2021. Alternatively contracts should embed robust fallback clauses
  - Considering using standard market documentation
- EONIA fallback rate: €STR + 8.5 bps
- Acknowledgement: considering including a clarification on EONIA's change in methodology

# WG recommendations: EONIA to €STR(2/2)

• <u>Recommendations from an operational and valuation</u> standpoint to address the impact on IT systems, market conventions and documentation used in:

#### **Products**

- Derivatives
- Cash products (Securities, secured and unsecured cash products, investment funds, other products)

#### Processes

• Calculation of prices, coupons, interest or collateral remuneration

• Involving contractual settlement dates

#### Models

- Funds transfer pricing
- Interest rate curve construction
- Interest rate term structure
- Discounted cash flow, derivatives pricing, derivatives value adjustment
- <u>Recommendations from a risk management perspective</u> to smooth the impact of the transition
- Recommendations from a <u>financial accounting</u> perspective.

# Annexes: EONIA exposures in 2018 main features of the €STR

#### EONIA exposures in 2018 – unsecured segment (1/2)

- Amount outstanding:
- EUR 647 billion of deposits (excluding call accounts) plus short-term securities, o.w. EUR 89 billion (14%) linked to EONIA.
- EUR 56.1 billion of call accounts, o.w. EUR 18.8 billion (33%) linked to EONIA

Amount of unsecured deposits and short-term securities outstanding (17 Apr. 2018; LHS: EUR billion; RHS: percentages)

Linked to other variable rates and fixed rates



Linked to Over Night EONIA

Source: ECB MMSR. Note: Call accounts are excluded on this chart.

#### EONIA exposures in 2018 – unsecured segment (2/2)

• **Residual maturity:** By construction the stock of transactions linked to EONIA would take approximately 1 year to mature.

Amount outstanding of EUR denominated unsecured deposits and short-term securities (1 Jun. 2017 - 31 Mar. 2019; EUR billion)

Linked to other rates + Fixed
Linked to Over Night EONIA



Source: ECB MMSR. Note: Call accounts are excluded on this chart.

#### **EONIA** exposures in 2018 – secured segment

- **Amount outstanding:** EUR 1.9 trillion, o.w. EUR 0.4 trillion linked to EONIA.
- Residual maturity: below 1 year.

Amounts of secured transactions outstanding (17 Apr. 2018; LHS: EUR billion; RHS: percentages)

Linked to other variable rates and fixed rates



Source: ECB MMSR.

#### **EONIA** exposures in 2018 – OIS segment

- **Amount outstanding:** EUR 10.9 trillion linked to EONIA.
- **Residual maturity:** 73% of these transactions to mature by end 2019.

### Amounts of OIS transactions outstanding and percentage (17 Apr. 2018; EUR trillion)



Source: ECB MMSR.

# €STR – underlying data

### Money Market Statistical Reporting (MMSR)

- Reporting by the 50 largest euro area banks
- Collection started in July 2016
- MMSR covers four market segment:

### -Unsecured market

- -Secured market
- -FX swap
- -OIS

More information under: https://www.ecb.europa.eu/st ats/financial\_markets\_and\_int erest\_rates/money\_market/ht ml/index.en.html

# Euro short term rate: main features

### 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: €STR published at 08:00 am Frankfurt time

Publication policy and transparency on errors

Rate published daily from 2 October 2019 Pre-€STR publications since 28 June 2018

#### Parameters more detailed in the statement of methodology

# €STR is quite stable, reacting to changes in the policy rate.

€STR rate and volume, with the 25<sup>th</sup> and 75<sup>th</sup> percentiles



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