Introduction

- Policymakers around the world have determined that LIBOR and other similar benchmarks are no longer fit for purpose as they no longer reflect market financing practices and rely on “expert judgement” rather than recorded transactions, making them susceptible to manipulation. Policymakers have therefore decided to initiate a transition from IBORs to a new set of Risk-Free Rates (RFRs), which comply with new international standards for benchmarks.

- In some jurisdictions and for certain financial products, parties may not be able to reference benchmarks that fail to meet regulatory requirements such as those found in the International Organisation of Securities Commissions (IOSCO) standards and the EU Benchmarks Regulation (BMR).

- The transition to RFR benchmarks is likely to be complex, given the size and diversity of the markets which reference IBORs. Financial contracts worth hundreds of trillions of US dollars reference IBOR benchmarks, in products as diverse as consumer loans, residential and commercial mortgages, corporate bonds and loans, interest rate swaps and other derivatives, as well as securitised products.

- The timescale for transition from IBORs to RFR-based benchmarks is short compared to the complexity and effort involved in the change. After the end of 2021, the UK’s FCA, which regulates LIBORs, will no longer consider it necessary for it “to persuade, or compel, banks to submit to LIBOR” or “to sustain the benchmark through [its] influence or legal powers” (The Future of LIBOR, July 2017).

- This note describes the new RFRs in various jurisdictions, plans for the transition from IBOR-referencing to RFR-referencing benchmarks, and the development of fallbacks for legacy contracts referencing IBORs.

- BNP Paribas is committed to helping our clients manage the benchmark transition process. More details about benchmark reform can be found in our various publications on the BNP Paribas websites, including our Markets 360 publications.

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1 IOSCO has member organisations in over 100 countries, which regulate more than 95% of the world’s securities markets.
1. Reform of IBORS

- The methodologies for calculating IBORs are currently in the process of being reformed in order to help ensure that IBORs remain compliant with regulatory requirements and IOSCO standards for benchmarks.
  - Previous “expert opinion” surveys are being replaced by a “waterfall” or “hybrid” methodology referencing in the following order: transactions in defined tenors; transactions in nearby tenors (appropriately adjusted); expert judgement.
  - The new methodology for LIBORS has been accepted as compliant as the UK’s FCA has authorised the ICE Benchmark Administration Limited (IBA) as a regulated benchmark administrator under the BMR. For EURIBOR, EMMI will file for authorisation as a benchmark administrator with Belgium’s FSMA by Q2 2019; starting in Q2, EMMI will gradually implement the new methodology (to be completed by end of 2019).

- Nonetheless, regulators in the US, UK and in some other jurisdictions are committed to switching market benchmarks away from IBORs to the new RFRs. As a result, it is likely that LIBOR fixings will cease after the end of 2021.

- IBORs have faced less strong official opposition in some other jurisdictions, notably the euro area, Japan, Australia and Canada where it is contemplated that markets would continue to use IBORs while developing RFRs.

2. Risk-Free Rates

United States

- RFR: Secured Overnight Financing Rate (SOFR) is based on repo transactions reported by (i) General Collat Finance (GCF) repo, (ii) tri-party ex-GCF and (iii) FICC’s DVP repo service.
- Transition methodology: The Federal Reserve’s Alternative Reference Rate Committee (ARRC) has created a Paced Transition Plan; SOFR futures were launched in May 2018, and some swaps and bonds referencing SOFR have already been transacted. SOFR swaps have been accepted by FASB for hedge accounting under US GAAP. By Q1 2020 central counterparties (CCPs) will accept SOFR to calculate variation margin (PAI) and discounting, alongside the existing Effective Federal Funds Rate (EFFR) framework. By Q2 2021 CCPs will no longer accept clearing with EFFR for PAI and discounting, except for closing out or reducing risk.
- Term rates: ARRC is encouraging the development of a market in term SOFR rates, starting with SOFR futures trading.
- Indicative levels: On average, SOFR has been fixed at the Federal Reserve’s interest rate on excess reserves (IOER).

United Kingdom

- RFR: Reformed Sterling Overnight Index Average (SONIA). Based on overnight unsecured transactions via brokers and negotiated bilaterally.
- Transition from “old” to “new” SONIA has already happened (April 2018).
- Term rates: Consultation on term SONIA reference rate (TSRR) is complete. The Working Group favours collecting firm quotes on spot-starting OIS swaps. TSRR is expected to be available from H2 2019.
- Indicative levels: Since April 2018 SONIA swap rate has fixed on average 4.5bp below the Bank of England’s Bank Rate.
Euro area
- RFR: Euro Short-Term Rate (€STR) is based on unsecured overnight borrowing rates reported by 52 reporting agents for all of their financial counterparties. (Differs from EONIA which limited the pool of reported transactions to interbank and had fewer reporting agents.)
- Transition: €STR publication is scheduled to begin on 2 October 2019. "Pre-€STR" is already being published. EONIA in its current form will not be benchmark compliant at the end of the transition period (likely to be extended to end of 2021): the ECB working group has recommended that EONIA be re-defined as €STR plus a fixed spread in due course.
- Term rates: The ECB working group's consultations on term €STR reference rates have recommended a similar methodology to that for term SONIA. Such methodology will be used as a fallback in EURIBOR-linked contracts.
- Indicative levels: Since the inception of pre-€STR, it has fixed on average 4bp below the ECB’s Deposit Rate.

Switzerland
- RFR: Swiss Average Rate Overnight (SARON) is a secured overnight rate published by SIX Swiss exchange.
- Transition: SARON has been established since 2009.
- Term rates: Attempts have been made to create SARON term rates, but it is likely not to happen.

Japan
- RFR: Tokyo Overnight Average Rate (TONAR) is based on unsecured overnight call money rates.
- Transition: The Bank of Japan has recently concluded a consultation on the outlook for onshore and offshore TIBOR. It seems likely that domestic TIBOR and TONAR will co-exist as benchmark reference rates.

Australia
- RFR: The RFR for the AUD is the interbank overnight cash rate (Cash Rate), which is administered by the RBA. The methodology is already aligned with IOSCO principles. The Cash Rate is calculated directly from the market transactions data with average daily transactions around AUD 5bn and has been in place for 20 years.
- Transition: Australia’s credit based benchmark (BBSW) has undergone a methodology review to bring it in line with IOSCO principles and is now a VWAP transaction based price with a waterfall calculation methodology. Currently there are no plans for a formal transition and it is expected that both BBSW and the RFR can co-exist as the key benchmarks.
- Term rates: There is already a functioning basis market between BBSW and OIS allowing the use of both benchmarks.

3. Fallbacks for legacy IBORs
- The potential end of the publication of IBORs presents a challenge for existing contracts which reference an IBOR rate. Some contracts may already contain detailed fallback provisions, while some others specify fallbacks which may create their own difficulties, and some have no fallback provisions at all. Participants in IBOR-referencing contracts should ensure they understand each contract’s fallback provisions. Gathering this information may in itself be an onerous exercise.
- Policymakers are working to help create fallback provisions in order to minimise adverse consequences from benchmark reform.
Derivatives contracts make up the majority of IBOR-referencing contracts by face value. Fortunately, derivatives transactions are mostly governed by the ISDA documentation and are largely cleared through a few CCPs, and work on creating a fallback methodology for ISDA-governed transactions is at an advanced stage.

- ISDA has completed consultations for GBP, JPY and CHF IBORs.
- The consultations found strong support for fallbacks to be constructed using the RFR with a “term adjustment” compounded in arrears and a credit “spread adjustment” based on a historical average (See Summary of Responses for details).
- Further consultations are planned for USD LIBOR (early 2019), EUR LIBORs and EURIBOR (from October 2019 onwards). The same preferences are expected.
- Once fallback methodologies are agreed, ISDA will update its documentation for new swaps and create a protocol to which swap counterparties would be able to adhere to amend legacy swaps to incorporate the new fallbacks. Take-up is expected to be more or less universal among swap market participants, and would be helped along by CCPs’ adoption of an approach reflecting the protocol, and encouragement from regulators. No publication date for these initiatives has yet been given.

Fallbacks for IBOR references in contracts and transactions outside the derivatives markets present much more of a challenge. In the US, ARRC has conducted consultations in USD markets for floating rate notes and syndicated loans, and for bilateral business loans and securitisations. Recommendations should be published early during this year. In Europe, the EUR RFR Working Group is considering a forward-looking term €STR as the basis for a fallback for EURIBOR-linked products.

- A key difference between the cash market and derivatives market consultations has been that there is more support among cash market participants for a forward-looking “term adjustment” (vs the in-arrears term adjustment favoured in the derivatives market).

Retail-facing contracts referencing IBORs may have to be renegotiated on a bilateral basis.

4. Action points

- Institutions and firms with IBOR-referencing contracts should ensure they understand the contractual terms, especially regarding fallback provisions, which determine their IBOR exposures.

- There may also be exposure to different fallback provisions in the event an IBOR ceases to be published. For example, where fallback provisions differ for different products (e.g. swaps vs bonds) or for different currencies (e.g. cross-currency basis) hedging mismatches may arise between fallback rates which do not exist as long as IBORs are published.

- Renegotiation of contract terms (“repapering”) may be necessary outside areas governed by officially-sanctioned protocols (and in some cases, perhaps, also where protocols do exist).

- BNP Paribas is committed to helping our clients manage the benchmark transition process. Please contact your BNP Paribas representative with any questions.
Timeline across currencies and benchmarks

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<th>Currency</th>
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<td>Publishable Term Reference Rates</td>
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