### **Singapore**

24 January 2020



## A Primer on New Benchmark Rates

#### **Selena Ling**

Head of Research and Strategy +65 6530 4887 LingSSSelena@ocbc.com

#### Terence Wu

FX Strategist +65 6530 4367 TerenceWu@ocbc.com

#### **Background**

Since the LIBOR manipulation scandal broke in 2012, the reduction of the reliance on the IBOR family of benchmarks was effectively inevitable. In 2017, the UK Financial Conduct Authority (FCA) announced that it will support the IBOR benchmarks only until 2021. As such, the survival of LIBOR would not be guaranteed and hence it was in market participants' interests to develop and transit to other risk-free rates accordingly.

With this announcement, the focus shifted towards establishing IBOR-alternatives. The ICE Benchmark Administration (IBA, administrator of the IBOR benchmarks) floated the ICE Bank Yield Index (BYI) as a possible replacement in January 2019. However, given the long-time gap between the initial announcement and the ICE BYI report, this alternative is not expected to gain significant traction. The respective central banks were, by then, deep into the process of developing their own reference rates in replacement of the IBOR benchmarks.

#### Meeting the replacements

	Alternative Rate	Administrator
United States	Secured Overnight Financing rate (SOFR)	Federal Reserve Bank of New York
United Kingdom	Sterling Overnight Index Average (SONIA)	Bank of England
Eurozone	Euro Short Term Rate (€STR)	European Central Bank
Switzerland	Swiss Average Overnight Rate (SARON)	Swiss Infrastructure and Exchange
Japan	Tokyo Overnight Average Rate (TONAR)	Bank of Japan

Fundamentally, the differences between the IBOR benchmarks and the new set of replacements can be summarized into:

 Construction methodology: Historically, IBOR benchmarks are set through submissions by a panel of banks. This methodology implied that the door was open to game theory-esque issues. This was subsequently (if only partially) addressed by the adoption of the "waterfall methodology" by 1Q 2019. The replacement benchmarks are likely to be fully transaction-based.

### **Singapore**

24 January 2020



- 2. Inherent risk premium: By definition, the IBOR benchmarks are how much the major banks charge one another for short term loans. This includes elements of credit risk between the major banks. The replacement benchmarks are generally derived from secured (except SONIA and €STR) and overnight transactions, limiting the impact of credit risk.
- 3. Term periods: The IBOR benchmarks covering seven maturities (O/N to 12M) are set at the start of the term. The replacement benchmarks are currently overnight, with term equivalents retroactively calculated by compounding. The impact of this is beyond administrative, as retroactive calculation implies that the actual rate can only be available at the end of the period.

At this juncture, the various regulatory bodies and organizations are deep in the process of producing loan templates, contractual fall-back terms and other standardized documentation to facilitate the transition. While legal issues have yet to be fully ironed out, progress has definitely been made on this front.

Apart from the typical inertia and gamesmanship in the hope that regulators kick the can down the road, it appears that the main holdback from greater adoption is the lack of forward-looking term equivalents in the replacement benchmarks.

Note that while the US and UK authorities are targeting a complete transition from LIBOR to suggested alternatives by end-2021, many other jurisdictions have adopted a "multiple-rate" approach.

#### The experience in the US, UK and Europe

In the **United States**, the Alternative Reference Rate Committee (ARRC) recommended the **SOFR** as the preferred benchmark in replacement of the USD LIBOR in June 2017. The daily SOFR is calculated based on transactions in the overnight Treasury repo market. The Fed has been publishing the rate since April 2018 as part of an effort to replace LIBOR. State-linked entities and financial institutions have started issuing debt securities tied to the SOFR since 2H 2018. However, there is still a lack of acceptance by the wider business community beyond state-linked entities and financial institutions.

The traders, however, have taken to SOFR products reasonably well. The open interest in the trading of SOFR futures traded on the CME and ICE platforms reached \$2.1 trillion in nominal terms in December 2019, compared to just \$250 billion at the start of 2019. This reflects about 22% and 19% of the open interest in Fed fund futures and Eurodollar futures on CME respectively. On the swaps front, the outstanding notional of SOFR swaps on LCH SwapClear and CME have also picked up significantly over the

### Singapore

24 January 2020



course of 2019. However, these still only represent 3% and 1% of Fed funds swap and USD LIBOR swaps respectively.

The reformed **SONIA** was launched in April 2018 in the **United Kingdom** to replace the GBP LIBOR. The SONIA is based on actual transactions and is the average interest rate that banks pay to borrow GBP from the interbank market overnight. The first corporate loan referenced to SONIA was launched in July 2019, and there have been successful cases of conversion of existing bonds from a LIBOR-based coupon to a SONIA-based coupon.

While the adoption of SONIA products in the derivative market is less aggressive than the SOFR counterparts, there is still a sizable trading volume in SONIA derivatives. In particular, open interest in SONIA futures have picked up steadily over the course of 2019. The SONIA swaps volume is sizable compared to GBP LIBOR swaps, but the proportion has not increased in 2019.

However, the **Eurozone** is generally lagging behind in this search for new benchmark rates. The earmarked successor to the EONIA, **€STR**, is first published by the European Central Bank (ECB) only in October 2019. The **€STR** is a volume weighted average of the borrowing costs of euro area banks on their transactions in the wholesale market on the previous business day. However, it is still early days for the **€STR** in the derivative market, with the notional outstanding in **€STR** swaps still miniscule compared to EONIA and Euribor swaps.

#### Singapore: Issue is with SOR, not SIBOR

In **Singapore**, the discussion is slightly different. The **SIBOR** is likely to persist in the enhanced **SIBOR+** guise. The construction of SIBOR+ will migrate to a "waterfall methodology" that places actual transactions in the underlying wholesale funding market at highest priority, then actual transactions in related markets (ie. the current **SOR**), and finally expert judgement.

The main issue is the current **SOR** has USD LIBOR as an input in its computation methodology. With the cessation of the LIBOR benchmark, the calculation of the SOR value becomes impossible. This has obvious follow-through effects on the derivatives and cash products referencing the SOR. It also weakens the waterfall methodology in SIBOR+ computation. Thus, the decision was made by the Association of Banks in Singapore (ABS) to replace the SOR with the **Singapore Overnight Rate Average (SORA)** by the end of 2021, which is in line with the global deadline for the phasing out of the IBOR benchmarks. The SORA has been published by the MAS since 2005, and is derived by using the volume-weighted average of all SGD overnight transactions in Singapore's interbank market.

### **Singapore**

24 January 2020



SORA may be subject to some volatility as an overnight rate, but given that financial products would usually utilise an average rate for a period of time, this may address some of the concerns attached to an overnight rate. The transition and market acceptance may take a bit of time until there is greater familiarity by all stakeholders including commercial and retail customers. In particular, the phasing out of legacy SOR contracts could potentially be complex, but clear communication and public education will go a long way to ensure a smooth transition.

In November 2019, OCBC and Standard Chartered Bank completed an overnight indexed swap (OIS) transaction using the SORA as the benchmark. This marks the SORA's maiden involvement in the SGD derivatives market, and also a step towards the "multiple rate approach" for Singapore. The existing outlook postulates SORA (and the subsequent development of Term-SORAs) as the reference for all SGD derivative products, and an attractive alternative to the SIBOR+ as the reference for the cash market. In this situation, the SIBOR+ will likely remain as the dominant interest rate in the cash markets for the medium term, but its long-term viability will be pending changes in bank funding structures and international developments. Overall, the multiple rate approach should add to financial market stability to reduce the reliance on a single benchmark.

### **Singapore**

24 January 2020



# **Treasury Research & Strategy**

#### **Macro Research**

**Selena Ling** 

Head of Research & Strategy <a href="mailto:LingSSSelena@ocbc.com">LingSSSelena@ocbc.com</a>

**Howie Lee** 

Thailand, Korea & Commodities <u>HowieLee@ocbc.com</u> **Tommy Xie Dongming** 

Head of Greater China Research

XieD@ocbc.com

Carie Li

Hong Kong & Macau carierli@ocbcwh.com

Wellian Wiranto

Malaysia & Indonesia
WellianWiranto@ocbc.com

Dick Yu

Hong Kong & Macau dicksnyu@ocbcwh.com

**Credit Research** 

**Andrew Wong** 

Credit Research Analyst WongVKAM@ocbc.com Ezien Hoo

Credit Research Analyst EzienHoo@ocbc.com Wong Hong Wei

Credit Research Analyst
WongHongWei@ocbc.com

Terence Wu FX Strategist

FX Strategist <u>TerenceWu@ocbc.com</u>

Seow Zhi Qi

Credit Research Analyst

<u>ZhiQiSeow@ocbc.com</u>

This publication is solely for information purposes only and may not be published, circulated, reproduced or distributed in whole or in part to any other person without our prior written consent. This publication should not be construed as an offer or solicitation for the subscription, purchase or sale of the securities/instruments mentioned herein. Any forecast on the economy, stock market, bond market and economic trends of the markets provided is not necessarily indicative of the future or likely performance of the securities/instruments. Whilst the information contained herein has been compiled from sources believed to be reliable and we have taken all reasonable care to ensure that the information contained in this publication is not untrue or misleading at the time of publication, we cannot guarantee and we make no representation as to its accuracy or completeness, and you should not act on it without first independently verifying its contents. The securities/instruments mentioned in this publication may not be suitable for investment by all investors. Any opinion or estimate contained in this report is subject to change without notice. We have not given any consideration to and we have not made any investigation of the investment objectives, financial situation or particular needs of the recipient or any class of persons, and accordingly, no warranty whatsoever is given and no liability whatsoever is accepted for any loss arising whether directly or indirectly as a result of the recipient or any class of persons acting on such information or opinion or estimate. This publication may cover a wide range of topics and is not intended to be a comprehensive study or to provide any recommendation or advice on personal investing or financial planning. Accordingly, they should not be relied on or treated as a substitute for specific advice concerning individual situations. Please seek advice from a financial adviser regarding the suitability of any investment product taking into account your specific investment objectives, financial situation or particular needs before you make a commitment to purchase the investment product. OCBC Bank, its related companies, their respective directors and/or employees (collectively "Related Persons") may or might have in the future interests in the investment products or the issuers mentioned herein. Such interests include effecting transactions in such investment products, and providing broking, investment banking and other financial services to such issuers. OCBC Bank and its Related Persons may also be related to, and receive fees from, providers of such investment products.

This report is intended for your sole use and information. By accepting this report, you agree that you shall not share, communicate, distribute, deliver a copy of or otherwise disclose in any way all or any part of this report or any information contained herein (such report, part thereof and information, "Relevant Materials") to any person or entity (including, without limitation, any overseas office, affiliate, parent entity, subsidiary entity or related entity) (any such person or entity, a "Relevant Entity") in breach of any law, rule, regulation, guidance or similar. In particular, you agree not to share, communicate, distribute, deliver or otherwise disclose any Relevant Materials to any Relevant Entity that is subject to the Markets in Financial Instruments Directive (2014/65/EU) ("MiFID") and the EU's Markets in Financial Instruments Regulation (600/2014) ("MiFIR") (together referred to as "MiFID II"), or any part thereof, as implemented in any jurisdiction. No member of the OCBC Group shall be liable or responsible for the compliance by you or any Relevant Entity with any law, rule, regulation, guidance or similar (including, without limitation, MiFID II, as implemented in any jurisdiction).

Co.Reg.no.:193200032W