

### LIBOR – what is it? (1)

### "London Interbank Offered Rate"

- key reference rate for about \$350tn of financial products, ranging from interest rate swaps and corporate loans to credit cards, mortgages and savings accounts
- syndicated loans, bonds, and derivatives are not the only products impacted...

# LIBOR – what is it? (2)

# Wide impact of LIBOR transition

	Product		Product examples		Market participants		
	Over-the-counter (OTC) derivatives	•	Interest rate swaps, forward rate agreements (FRAs), cross-currency swaps		Central counterparties	•	Asset managers
•	Exchange-traded derivatives (ETDs)		Interest rate options, Interest rate futures		Exchanges     Government-sponsored enterprise (GSE)     Investment banks		Pension funds Hedge funds
	Loans	•	Syndicated loans, business loans, mortgages, credit cards, auto loans, consumer loans, student loans			•	Regulated funds
	Bonds and floating rate notes (FRNs)	•	Corporate and non-US government bonds, agency notes, leases, trade finance, FRNs, covered bonds, capital securities, perpetuals				Insurance/ Reinsurance
	Short-term instruments	٠	Repos, reverse repos, time deposits, credit default swaps (CDS), commercial paper			٠	Corporations
	Securitized products	•	Mortgage-backed securities (MBS), asset-backed securities (ABS), commercial mortgage-backed securities (CMBS), collateralized loan obligation (CLO), collateralized mortgage obligation (CMO)	Commercial banks     Retail banks	Carlo al construction of the construction	•	Non-bank lenders
	Other	•	Late payments, discount rates, overdraft	'	Retail Daliks		Supranationals Others

Source: IBOR Global Benchmark Survey 2018 Transition Roadmap (AFME, ICMA, ISDA, SIFMA, SIFMA AMG)

# LIBOR – what is it? (3)

### Key features

ICE LIBOR Output Statement defines LIBOR as:

"A wholesale funding rate anchored in LIBOR panel banks' unsecured wholesale transactions to the greatest extent possible, with a waterfall to enable a rate to be published in all market circumstances "

Five currencies (CHF, EUR, GPB, JPY, and USD)

Seven tenors (Overnight/Spot Next, 1 Week, 1 Month, 2 Months, 3 Months, 6 Months and 12 Months)

Publication of 35 rates every applicable London Business Day

### LIBOR – who does it?

### e.g. – US dollar LIBOR panel composition

16 banks currently\* contribute to the fixing of US Dollar LIBOR:

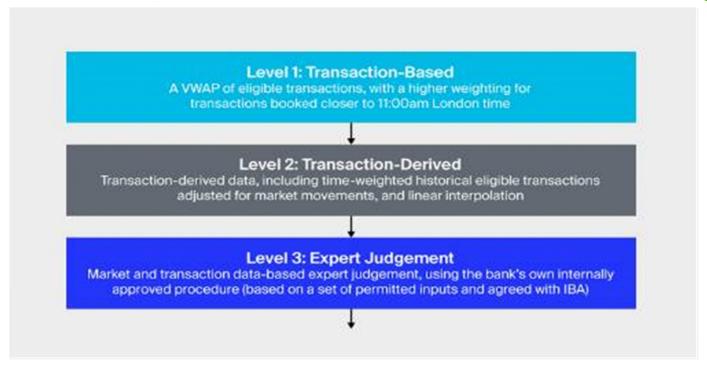
(\*today: see ICE panel website)

- Bank of America N.A. (London Branch)
- Barclays Bank plc
- Citibank N.A. (London Branch)
- Cooperative Rabobank U.A.
- Credit Agricole Corporate & Investment Bank
- Credit Suisse AG (London Branch)
- Deutsche Bank (London Branch)
- HSBC Bank plc

- JPMorgan Chase Bank, N.A. (London Branch)
- Lloyds Bank plc
- MUFG Bank, Ltd
- National Westminster Bank plc
- Royal Bank of Canada
- Sumitomo Mitsui Banking Corporation **Europe Limited**
- Norinchukin Bank
- **UBS AG**

### LIBOR – how is it set?

### Use of a standardised, transaction data-driven Waterfall Methodology



Source: https://www.theice.com/iba/libor

# Background to LIBOR Reform (1)

### 2011-2014: LIBOR misconduct allegations

#### • 2011

First bank to report in public filings that it is being investigated in relation to LIBOR conduct

#### • 2012

- First bank to settle with regulators and other authorities (June 2012)
- Regulators and authorities continue probes into alleged manipulation of LIBOR and other benchmark rates by other large US and European bank

#### • 2013 and 2014

- Investigations, including in Japan, Australia, Switzerland, the UK and US, into various US and European banks conclude
- Findings of LIBOR misconduct in various forms made, focusing on particular LIBOR currencies (especially JPY but also Swiss Franc, USD and GPB)

### LIBOR: Reform (1)

### 2012: Wheatley

- Following the widespread allegations and numerous fines imposed on several international banks, UK Government conducted the Wheatley Review (2012), where FSA's Martin Wheatley:
  - recommended <u>reform</u>, <u>rather than replacement</u>, of LIBOR
  - called for <u>strict processes</u> to verify submissions with transaction data
  - suggested that <u>market participants should play a significant role</u> in LIBOR production and oversight

# LIBOR: Reform (2)

#### 2013: Statute

- Significant reforms came in:
  - British government regulates LIBOR by criminal and regulatory laws passed by **Parliament**
  - Financial Services Act 2012:
    - brings LIBOR activities under UK statutory regulation oversight (including submission and administration of LIBOR)
    - creates a new criminal offence for knowingly or deliberately making false or misleading statements in relation to benchmark-setting such as for LIBOR

# LIBOR: Reform (3)

### 2014: transfer of oversight

- British Banker's Association (BBA) transferred oversight of LIBOR to UK regulators
- ICE Benchmark Administration Ltd (IBA) took over administration of LIBOR from BBA

# LIBOR: Replacement (1)

#### 2014: Review

- IOSCO's Principles for Financial Benchmarks: Review by Administrators of EURIBOR, LIBOR and TOBOR (2014):
  - said ICE LIBOR closer to principles than BBA LIBOR but
  - questioned whether LIBOR provided an accurate or reliable representation of the economic realities it sought to measure
- Financial Stability Board (FSB) publishes **Reforming Major Interest Rate Benchmarks (2014)**:
  - suggested a 'multi-rate' approach to reforming interest rate benchmarks across currencies, ie
  - (1) <u>strengthening existing IBORs</u> (anchoring in real transactions; implementing IOSCO Principles
    - (2) <u>developing alternative nearly risk-free reference rates</u> ("RFRs")

# LIBOR: Replacement (2)

### 2017-2018: Bailey

- 27 July 2017: Andrew Bailey speech as Chief Executive of FCA
  - highlighted <u>limitations</u> on LIBOR reform (due to absence of active underlying markets on which these benchmarks are based)
  - stressed focus should be on LIBOR <u>discontinuation</u> and switch to RFRs post transition period during which panel bank support to sustain LIBOR to continue
  - banks committed to continue LIBOR <u>submissions until end-2021</u> (Nov 2017)
- 12 July 2018: Andrew Bailey's second speech
  - reaffirmed commitment to transition to RFRs
  - "The discontinuation of LIBOR must not be considered a remote probability 'black swan' event. Firms should treat it as something that will happen and which they must be prepared for"

### RFRs – what are they? (1)

#### "Risk Free Rates"

- Backward-looking overnight rates
- LIBOR vs RFRs:
  - No "moral hazard" grounded in real transactions
  - No credit risk premium derived from secured / collateralised markets
  - No term funding premium does not include the premium paid on longer-dated funds
  - No liquidity premium derived from liquid markets

# RFRs – what are they? (2)

### Selected to date

Currency	RFR	Secured?	Publication time
Sterling (£)	SONIA (Sterling Overnight Index Average) SONIA reform was completed on 23 April 2018	N	09:00 GMT T+1
Euro (€)	ESTER (Euro Short-Term Rate) This is a new overnight rate being developed by the ECB and expected to be published by October 2019	N	09:00 CET T+1
US Dollar (\$)	SOFR (Secured Overnight Funding Rate) This is a new rate which has been published since 3 April 2018	Y	08:00 ET T+1
Swiss Franc (CHF)	ARON (Swiss Average Rate Overnight) is replaced TOIS fixing in December 2017	Y	12:00, 16:00 and 18:00 CET same day
Japanese Yen (¥)	TONA (Tokyo Overnight Average Rate)	N	10:00 JST T+1

Source: The future of LIBOR: what you need to know (second edition); LMA/ACT

# RFRs – Asia (the exception) (1)

### Singapore

- Association of Banks in Singapore Benchmarks Administration Co Pte Ltd ("ABS") and the Singapore Foreign Exchange Market Committee ("SFEMC") – gathered proposals to strengthen SIBOR
- Joint public consultation exercise concluded July 2018
- Key principle is to strengthen SIBOR, computing SIBOR using the following waterfall methodology:
  - transactions in the underlying wholesale funding markets;
  - transactions in related markets; and
  - expert judgment.

#### RFRs – Issues?

### Not forward-looking or term rates, therefore impact on...

- Pricing and risk management
  - credit/term risk: not priced into RFRs; components of total price will need to be adjusted
- Cash management
  - must be re-rated daily:
    - surplus cash balances to accommodate rate movements?
    - hurdles to repay mid-interest period?
- Operational issues
  - borrower payment/lender loan product systems: must be adapted (costs of entry? reduced liquidity?)
- Market uniformity
  - times: publication of/transition to each rate (different for different currencies and jurisdictions)
  - methodologies: eg spread adjustment will need to be bespoke for SONIA/SOFR
    - fragmentation (currencies; products)

### RFRs – Some Transitional Challenges

### Challenges we are facing and should consider

- <u>selection</u>: determining an appropriate replacement benchmark rate
- <u>contractual</u>: how to manage legacy loan agreements referencing LIBOR
- <u>economic</u>: including calculation of credit spread to minimise value transfer
- <u>technical</u>: determining appropriate fallbacks
- <u>operational</u>: systems; calculation methodologies
- <u>cross-product and cross-currency</u>: coordination of matching reference rates

### RFRs – Loan Documentation (1)

### Key provisions

• LMA interest fall back provisions:

Screen Rate

Interpolated Screen Rate

Shortened (Fallback) Interest Period

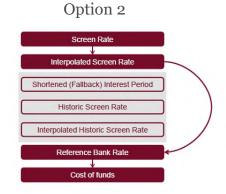
Historic Screen Rate

Additional fallbacks

Interpolated Historic Screen Rate

Reference Bank Rate

Cost of funds



- Replacement of Screen Rate wording
  - recently updated: LMA May 2018 rider
  - widened from 2014 wording, but not a solution still needs Majority Lender consent
- Cost of Funds wording the ultimate fallback...

# RFRs – Loan Documentation (2)

### Hard-wired approach?

- ARRC proposed framework
- Components necessary for hard-wired approach:
  - (i) triggers for transition from LIBOR to a new rate;
  - (ii) what the new rate is (defined waterfall);
  - (iii) spread adjustment to account for the difference between LIBOR and the new rate; and
  - (iv) mechanism to amend the loan agreement (if waterfall fails to result in fallback rate)
- Not possible yet...
- ...still need forward-looking term rate

# Litigation risk (1)

### Expect litigation over unamended instruments:

- if a LIBOR continues in some reduced form alongside replacements (twilight zone LIBOR)
- about latest available rate language? (floating obligations may become fixed ones)
- about fallback clauses (lender discretion clauses, lender's cost of funds?)
- other exposures:
  - competition/anti-trust law implications in settling a new benchmark
  - inadequate disclosures re effect of uncertainty about end of LIBOR
  - exposure as reference bank

# Litigation risk (2)

How will courts approach cases where there is no negotiated amendment?

- limits of legal doctrines:
  - construction of contracts (the 'alternative valuation machinery' cases)
  - implication of terms
  - 'impracticability'
- courts will be reluctant to reform or amend or re-write contracts by adding LIBOR replacement language
- cross border risks New York vs English law. Singapore law?
- frustrated contracts parties' obligations are treated as discharged

# What next? (1)

### **Action points**

- Identify long dated instruments (ie terms post 2021): will need to be amended if LIBOR discontinues ('bucketise')
- Consider amendment mechanic for when new benchmarks set
- For new documents:
  - always include Cost of Funds provisions
  - lower creditor thresholds & snooze you lose/yank the bank provisions
  - update Replacement of Screen Rate/Fallback provisions

# What next? (2)

#### Conclusion?

- LIBOR currently tabled to discontinue
- BUT currently no solution / forward-looking rate
- 2 years left to end-2021 deadline
- Possibility will continue...
- ...non-LIBOR LIBOR?
- Expert determination?

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