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IBOR TRANSITION

Overview

What are IBORs?

Interbank offered rates (**IBORs**) include London Interbank Offered Rate (**LIBOR**), Euro Interbank Offered Rate (**EURIBOR**), Euro Overnight Index Average (**EONIA**) and certain other rates. IBORs serve as widely accepted benchmark interest rates that represent the cost of short-term unsecured borrowing by large banks.

IBORs are used not only as benchmarks in financial contracts, but also as the basis for many asset valuations. LIBOR is used in financial products denominated in USD (US Dollar), EUR (Euro), GBP (British Pound), JPY (Japanese Yen) and CHF (Swiss Franc). Certain currencies use specific non-LIBOR interest rate benchmarks such as EURIBOR and EONIA for EUR, the Tokyo Interbank Offered Rate (**TIBOR**) for JPY, the Bank Bill Swap Rate (**BBSW**) for Australian Dollars, Hong Kong Interbank Offered Rate (**HIBOR**) for Hong Kong Dollars etc.

Many IBORs are now in the process of being reformed or replaced.

Why are IBORs being reformed or replaced?

Financial Stability Board (**FSB**) in 2014 initiated steps to reform major interest rate benchmarks and to transition to more representative alternative benchmarks, such as near risk-free rates (**RFRs**), that are based on more active and liquid overnight lending markets, instead of IBORs.

The UK Financial Conduct Authority (**FCA**) has stated that after 2021, it will no longer compel banks to submit rates used for calculation of LIBOR. This means that LIBOR will very likely be discontinued at the end of 2021, if not sooner. Regulators globally have emphasized that market participants must start transitioning away from the use of IBORs and adopt alternative benchmark rates.

Regulatory authorities, public, private sector working groups in several jurisdictions, including International Swaps and Derivatives Association (**ISDA**), Sterling Risk-Free Rates Working Group, Working Group on Euro Risk-Free Rates and the Alternative Reference Rates Committee (**ARRC**), have been discussing alternative benchmark rates to replace IBORs.

Risk Free Rates (RFRs)

Regulators and working groups in several jurisdictions have identified replacement benchmarks and have developed strategies for transition. RFRs in the jurisdictions of each LIBOR currency have been judged to comply with new regulatory standards governing financial benchmarks that have been adopted since the 2008-era financial crisis. These standards are derived from principles set forth by the International Organization of Securities Commissions (**IOSCO**).

RFRs are calculated based on information gathered from large volumes of actual transactions, often taken from regulated exchanges or other central clearing platforms, and do not rely on the expert judgment of panel banks. In this regard, RFRs have been judged to be more robust and transparent than LIBOR, and less susceptible to potential manipulation.



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Certain jurisdictions have adopted multiple rate approach, which sees jurisdiction's existing IBOR being reformed and to exist alongside new RFR for currency in such jurisdiction. Certain examples of IBOR replacement benchmarks which are either being replaced or reformed are in table below.

	USD	EURO	GBP	JPY
ARR	Secured Overnight Funding Rate (SOFR)	Euro Short Term Rate (ESTR)	Sterling Overnight Index Average (SONIA)	Tokyo Overnight Average Rate (TONAR)
Administrator	Federal Reserve Bank NY	European Central Bank	Bank of England	Bank of Japan
Working Group	Alternative Reference Rate Committee	Working Group on Risk-Free Reference Rates for Euro Area	Working Group on Sterling RiskFree Reference Rates	Study Group on Risk-Free Reference Rate
Publication Date	3 Apr 2018	2 Oct 2019	23 Apr 2018	4 Jan 2017

The table above is not exhaustive. There may be other interest rate benchmarks which either are or will be discontinued or where changes have been or will be made to their methodology.

Key differences/comparison between RFRs and LIBOR/other IBORs

IBORs are term rates which are published for a number of different terms (such as three months and six months). IBORs are also forward-looking rates, that is, they are published at the beginning of the relevant observation period. This means that, for example, a borrower will know at the time of borrowing what the interest rate will be for the term of borrowing.

However, RFRs are backward-looking overnight interest rates based on actual historical transaction data (as opposed to relying on the expert judgment of panel banks as is the case with IBORs), and are published after the end of the overnight borrowing period. This means that borrowers can only know at the end of the term what the relevant rate was. Unlike IBORs, overnight RFRs, by definition, do not have different tenors.

RFRs are near risk free rates while IBORs incorporate both term risk (i.e. they have a term element, such as one month, three months, six months and so on) and counterparty credit risk (i.e. the risk that a counterparty defaults on repayment of sums owed). IBORs on the other hand incorporate elements of counterparty credit risk premium and liquidity premium.

To effect a transition of existing contracts and agreements that refer to IBORs to RFRs, adjustments for credit and term differences may need to be incorporated and applied to the RFR so as to ensure the economic and commercial performance of the RFR is comparable to the IBOR being replaced.

Industry working groups as well as market participants are reviewing the calculation methodologies for these adjustments, with a view to developing robust forward-looking term versions of the RFRs. To date, no forward term version of an RFR has been determined to comply with the new benchmark regulatory standards adopted since the 2008-era financial crisis. As these methodologies still remain in development, it is not certain that "term" RFRs will be finalised prior to the cessation of a relevant IBOR.



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What market participants should do

All market participants should identify their own exposure to IBORs, and the need to undertake IBOR transition in their contracts and business relationships. Certain steps to consider include:

- conducting review of all existing contracts to identify where references to IBORs may arise;
- considering what steps need to be taken from a legal, operational, risk, compliance accounting and tax perspective to ensure readiness for transition;
- engaging with counterparties and their own customers to facilitate transition of existing contractual arrangements to include appropriate fallbacks to alternative rates;
- remaining aware of industry and regulatory developments; and
- Understanding the new RFRs and considering whether and when to enter into new transactions that utilize new RFRs.

For existing transactions that extend beyond 2021, clients may have to decide whether to replace LIBOR with the alternative benchmark in advance or to use "fallback" provisions that provide a mechanism for the replacement of LIBOR with an alternative benchmark if a trigger event occurs.

Market participants should take similar steps with respect to other IBORs.

Trigger events for these fallbacks may differ, but frequently refer to either a cessation of an IBOR or a regulatory determination that, prior to actual cessation, the IBOR does not reflect underlying financial reality or is not sufficiently representative of the market (so called "pre-cessation" triggers).

There are industry efforts to standardize approaches across jurisdictions and financial products, although fallbacks may include different provisions across products such as different trigger events or a different fallback rate. Market participants should be aware of the possibility that a mismatch may exist between fallback provisions in related assets or financial products, which may have unintended or unforeseen consequences.

What could these changes mean for PNBHK clients?

The changes arising from IBOR transition may affect number of our products and services currently used by you or which you may use in the future. The impact will depend on various factors, such as:

- which particular IBOR is referred to in a product;
- adjustments to be made to reflect credit & term differences between relevant IBOR and the RFR;
- the nature and term of the product or contract;
- the date when any changes arising from IBOR transition take effect; and
- the nature of any fallback provisions in the particular contract, if any.

IBOR transition could have number of effects on PNBHK's clients. These include, for example, changes to value of products, need to amend existing contracts, possibility that products may no longer serve purpose for which they were originally intended and making changes to existing operational processes/systems. There may also be tax, regulatory, legal, accounting effects depending on client's particular situation.

PNBHK recommends you conduct your own independent assessment of the impacts and risks as a result of the IBOR transition.



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Will contracts or products which refer to HIBOR be affected?

Currently, there is no plan to discontinue HIBOR, whether for HKD or for offshore Chinese Renminbi (CNH). HIBOR has been used for Hong Kong Dollar transactions for many years and remains widely recognized by market participants as a credible and reliable interest rate benchmark. For HIBOR, HONIA has been identified by the Treasury Markets Association (TMA) in Hong Kong as the preferred alternative reference rate. It is expected that both HIBOR and HONIA will co-exist. Existing HIBOR-based transactions can continue to be used, notwithstanding that HONIA will also be available for use as alternative reference rate for HKD transactions. We do not expect that HIBOR will be replaced by HONIA as alternative reference rate in existing contracts and transactions in the near future. The basis of calculation of HIBOR may, however, be continuously enhanced.

What are some of the key target and dates for IBOR transition?

Several of working groups have set target dates for LIBOR transition milestones to occur prior to LIBOR's scheduled discontinuation date at end of 2021. For example, ARRC has set target dates for US financial institutions ceasing to offer new USD LIBOR-denominated products (which vary by product, but the latest of which is 30 June 2021) and for the inclusion of fallbacks in financial contracts denominated in USD LIBOR. The UK FCA has set target date for financial institutions ceasing to offer GBP LIBOR-denominated loans (expiring after Q4 2021) by the end of Q1 2021. The HKMA has also instructed the Banks to not deal in LIBOR related products by 30th June 2021.

Although the effects of the COVID-19 pandemic have led some regulators to delay some target dates (and the target dates set forth above account for such delays), the FCA has reiterated that the end-2021 date when it will cease to support LIBOR has not changed. Many regulators and working groups have stated that market participants should not assume LIBOR will exist after the end of 2021 and should plan accordingly.

It is expected that ISDA will publish an update of the 2006 ISDA Definitions and a related multilateral protocol in the third quarter of 2020, with a delayed implementation window of four months later. The revised ISDA definitions will contain IBOR fallbacks to RFRs for new trades. The protocol will allow parties to have revised definitions apply to legacy trades among protocol adherents. The protocol and revised definitions will become effective on same date (often referred to as a "big bang" date).

How is transition likely to occur for particular financial products?

Depending on the product, currency and jurisdiction involved, parties may be able to enter into a new transaction that refers to an RFR now. RFR-denominated transactions include futures, derivatives, floating rate notes, securitizations and loans.

In many cases, parties to legacy transaction that refers to an IBOR will need to amend the underlying documentation to refer to a different interest rate or to include a fallback provision (if a fallback is not already included). In some instances, fallback provisions already exist, such as to "cost of funding" in the case of many facility agreements, but these may prove difficult to implement on a long-term basis. Market participants may also consider refinancing or replacing their IBOR-denominated products with RFR- denominated products, although there may be costs involved in doing so.



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For legacy derivatives using ISDA definitions, it is expected that amendments to include the revised ISDA definitions and fallbacks may be accomplished by using the protocol, if the other party also adheres to the protocol. Parties to legacy derivatives may also enter into bilateral amendments.

Where derivatives are used to hedge an underlying transaction that itself references an IBOR, such as a loan portfolio, there may be a mismatch between the fallback rate under the derivative determined by applying the ISDA methodology and the rate used in the underlying transaction, which may apply existing fallbacks or new model fallback methodologies recommended by relevant industry bodies such as the Loan Market Association (LMA) or Asia Pacific Loan Market Association (APLMA), which are different from the ISDA fallbacks. This mismatch may, for example, result in the hedging being "imperfect". Parties seeking amendments may need to obtain the requisite consent of their contractual counterparties, and should be mindful of required vote thresholds. For example, many indentures require a 100% bondholder vote to change the interest rate provisions.

PNBHK is actively monitoring developments on IBOR transition and assessing any changes which may need to be made to existing contracts, products and transactions. PNBHK will continue to provide more information on this topic as appropriate. IBOR transition may affect products and services in a number of ways and the information provided on this page is general in nature and is not exhaustive. You should contact your professional advisors on the possible impact of IBOR transition on the financial products and services you use or may use in the future.

The content of this page reflects our current understanding of IBOR transition as at 04th November 2020. Due to current level of uncertainty, this overview is not complete or exhaustive and does not constitute any form of advice or recommendation. Clients should contact their professional advisors on possible implications of IBOR transition, such as financial, legal, accounting or tax consequences.

For more information

If you wish to obtain general information on the IBOR transition, please consider reviewing published information from regulators, working groups and other industry bodies, including those listed below:

Country	Agency
US	Alternative Reference Rates Committee (ARRC)
Euro-zone	European Central Bank (ECB)
United Kingdom	Bank of England (BoE), Financial Conduct Authority (FCA)
Japan	Cross-Industry Committee on Japanese Yen Interest Rate Benchmarks
Switzerland	Swiss National Bank (SNB)
Hong Kong	Hong Kong Monetary Authority (HKMA), Treasury Markets Association (TMA)
Global	<ul style="list-style-type: none"> ● Asia Pacific Loan Market Association (APLMA) ● Financial Stability Board (FSB) ● International Swaps and Derivatives Association (ISDA) ● Loan Market Association (LMA) ● Loan Syndications & Trading Association (LSTA)