



## **Derivative Workstream Mandate**

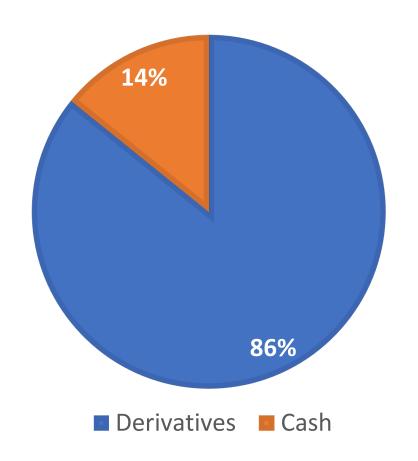
- Consulting widely and making recommendations on the development of derivative markets and contracts that reference the successor rate
- Formulating and implementing strategies to facilitate the market adoption of derivatives that reference the successor rate
- Formulating and recommending strategies to derive term risk free rates from underlying derivatives activity
- Providing input to the finalization and refinement of the transition plan and monitor the progress made in the derivative markets
- Aligning with progress and recommendations of all workstreams of the MPG

# **IOSCO Principles: ZARONIA vs JIBAR**

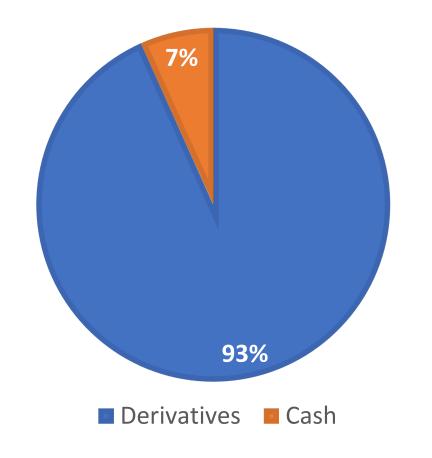
	JIBAR	ZARONIA
Integrity		
<ul> <li>Reliability</li> </ul>		
<ul> <li>Robustness</li> </ul>		
<ul> <li>Representativeness</li> </ul>		
Efficacy		
<ul> <li>Frequency</li> </ul>		
<ul> <li>Availability</li> </ul>		
<ul> <li>Transmission</li> </ul>		

## Derivative Market vs Cash Market Depth

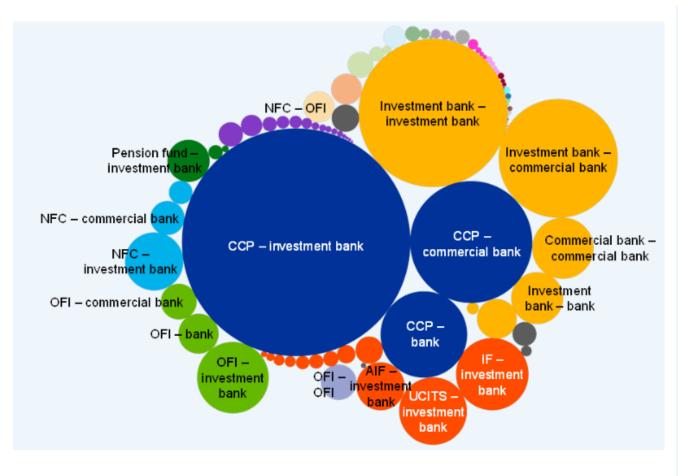
LIBOR Survey 2016 – Notional Reference



JIBAR Survey 2015 – Notional Reference



### Non-Bank Derivative Users: European Derivative Ecosystem



Banks	Investment	43.1%
	Commercial	13.2%
	Not allocated	4.8%
CCPs		23.3%
Investment funds (IFs)	UCITS	
	AIFs	1.2%
	Not allocated	2.0%
Other financial institutions (OFIs)		4.3%
Non-financial corporations (NFCs)		3.0%
Insurance companies	Life and composite	0.3%
	Non-life	0.1%
	Not allocated	0.3%
Pension funds (PFs)	Private	0.4%
	Public	0.1%
	Not allocated	0.1%
Government institutions		0.4%
Central bank		0.1%
Money market funds	T <sup>*</sup>	0.0%

### Minimum requirements in foundational and adoption phases

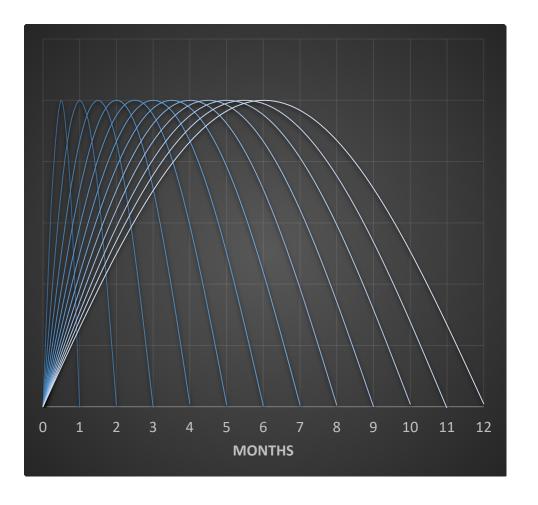
- Market Education to enable convention commentary
- Finalised product conventions
- Derivative Infrastructure Requirements clearing house eligibility
- Alternative Reference rate data analytics including a back-filled time series
- Add ZARONIA to ISDA definitions

# White Paper: Objectives

- Facilitate professional participants to drive liquidity build
- Participants require a well-informed blueprint
- Intended outcome to ensure depth, market stability and global alignment
- Technical detail and consistency is important

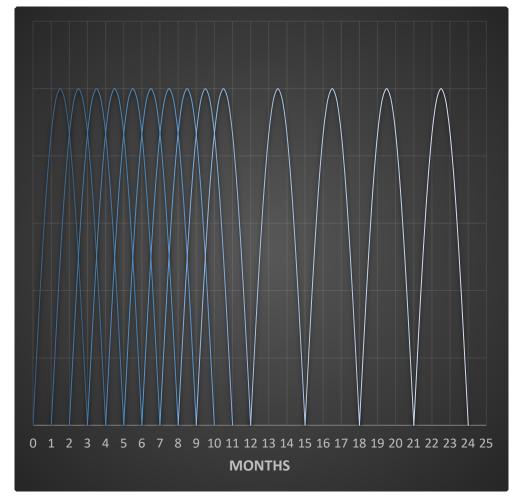
#### Spot-Starting Single-Period Overnight Indexed Swaps

The main objective for creating a market in short-term (i.e., tenors less than or equal to 12M) spot-starting single period OISs, with recommended conventions below, is to facilitate the production of term reference rates. Unlike the current suite of JIBAR rates, it should be understood that these OIS rates will provide equivalent term rates that are near risk-free, i.e., they will not constitute term credit and funding spreads.



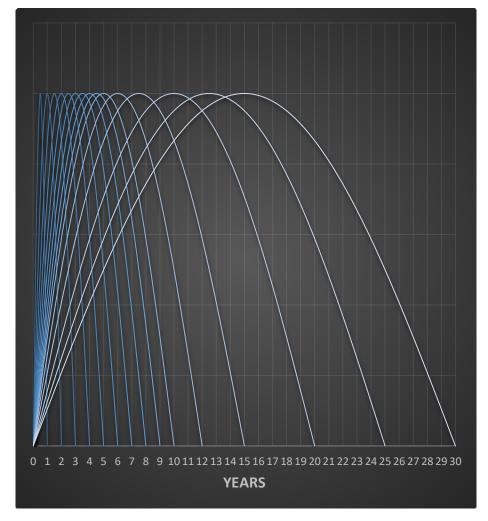
#### Forward-Starting Single-Period Overnight Indexed Swaps

The current Forward Rate Agreement (FRA) market provides deep hedging and speculation capability. This market also provides a strong underpin for derivative market depth as well as insight into monetary policy expectations. The main objective for creating a market in forward-starting single-period OISs, with the recommended conventions below, is to create a "replacement" for the aforementioned FRAs that reference 3-month JIBAR



#### **Spot-Starting Multi-Period Overnight Indexed Swaps**

The current available set of vanilla Interest Rate Swap (IRS) contracts that reference 3-month (JIBAR) provides an important building block for interest curve construction as well as a fundamental underpin to valuation. The main objective for creating a market in spot-starting multi-period OISs, with the recommended conventions below, is to create a "replacement" for the aforementioned IRS contracts.



# **Key Next Steps**

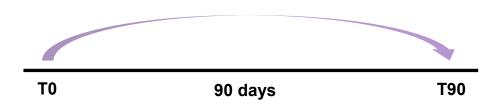
- Engage infrastructure providers to ensure that OIS product can be hosted appropriately
- Finalise and publish White Paper Conventions
- Add ZARONIA to ISDA definitions
- Produce ZARONIA data analytics
- Above detail to feature in a formalized transition plan

2023 is a critical year for establishing the necessary conditions for adoption



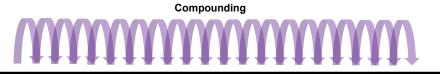
### **Annexure**

#### **Old World**



- One rate required to calculate payment.
- Rate set at T0.
- Cash flow known 90 days in advance.
- Sufficient time to load into payment systems.
- Operationally simple

#### **New World**



T0 365 days T365

- Multiple rates required to calculate payment.
- Require historic observation of rates over the entire reset period.
- Cash flow only known on day 365 due to rate publication delay.
- Convention provision to made to allow sufficient time to calculate and make payment.
  - Calculation lag
  - Payment lag
- Operationally more complex

### **Annexure: Derivative Market vs Cash Market Depth**

Table 1: USD LIBOR Market Footprint by Asset Class<sup>1</sup>

		Volume	% LIBOR
		(\$BN)	Related
Loans	Syndicated loans <sup>2</sup>	~3,400	97%
	Corporate business loans <sup>2</sup>	1,650	30–50%
	Noncorporate business loans	1,252	30-50%
	CRE/Commercial mortgages	3,583	30–50%
	Retail mortgages	9,608	15%
	Credit cards	846	Low
	Auto loans	810	Low
	Consumer loans	139	Low
	Student loans	1,131	7%
Bonds	Floating/Variable Rate Notes	1,470	84%
Securitization	Residential mortgage-backed securities	~7,500	24%
	Commercial mortgage-backed securities	~636	4%
	Asset-backed securities	~1,400	37%
	Collateralized loan obligations	~300	71%
Over-the-Counter Derivatives	Interest rate swaps	106,681	65%
	Forward rate agreements	29,044	65%
	Interest rate options	12,950	65%
	Cross currency swaps	22,471	65%
Exchange Traded	Interest rate options	20,600	98%
Derivatives	Interest rate futures	12,297	82%

<sup>&</sup>lt;sup>1</sup> Source: Market Participants Group (2013). Data as of year-end 2013ome overlap exists between estimates of syndicated and corporate business loans.

Table 1 Jibar footprint in the South African financial markets<sup>16</sup>

		ou	Amount tstanding IR billion)	% growth since 2015
Derivatives that reset against Jibar	Forward rate agreements	R	26,821	72
	Interest rate swaps	R	9,654	52.3
	Cross-currency swaps	R	745	6
	Other	R	645	-16.7
	Secured assets	R	19	65.9
	Unsecured assets	R	968	25.4
against Jibar	Liabilities	R	766	10.6

Source: SARB

<sup>&</sup>gt; \$5 Trillion Estimated USD LIBOR Exposure \$1-\$5 Trillion Estimated USD LIBOR Exposure < \$1 Trillion Estimated USD LIBOR Exposure