

# Update from the Alternative Rates subgroup



CARR Alternative Rates subgroup November 19<sup>th</sup>, 2018



#### Important note

All analysis in this presentation should be considered preliminary and is subject to a number of important data limitations and assumptions.

A future Benchmark Administrator's calculation of Enhanced CORRA could deviate from the analysis presented here and will be dependent on the ultimate data source selected.



# Path to public consultation

	Deliverables	Date
September CARR	<ul> <li>Endorsed a focus on overnight transactions in Government of Canada (GoC) bonds and bills between all counterparty types (i.e. dealer to dealer and dealer to client)</li> <li>Endorsed expanded subgroup</li> </ul>	September 17 <sup>th</sup>
October CARR	<ul> <li>Discussed two options for a calculation methodology: 1) a Rate Median approach and 2) a Bond Rate approach</li> <li>Subgroup agreed to return with a methodology recommendation in November</li> </ul>	October 15 <sup>th</sup>
November CARR	<ul> <li>Set a near final direction for consultation paper: finalized recommended methodology and most outstanding issues (e.g. calibration and whether to include Bank of Canada / Receiver General operations)</li> </ul>	November 19 <sup>th</sup>
December CARR	- Discuss draft consultation paper including approach to integrating comments	December 17 <sup>th</sup>
January CARR	- Approve consultation document for publication	January 21st
Publish consultation document	- Publicly release consultation document for comment	January/February 2019



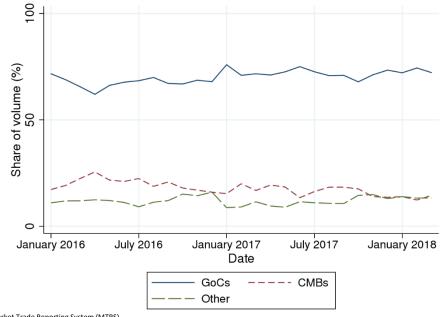
## Background: Subgroup's objectives for Enhanced CORRA

- Enhanced CORRA should satisfy the below criteria.
  - 1. Risk-free
  - 2. Derive from more volume than CORRA today
  - 3. Represent General Collateral (GC) funding
  - 4. Simple and easy to explain
- Subgroup considered consistency with existing CORRA in the evaluation of the preferred RFR.



### Background: The recommended focus is on all repos in GoC bills and bonds

Volume shares for overnight repos for same-day settlement



Source: Market Trade Reporting System (MTRS) Collateral: All Dates: Jan 2016 to Dec 2017 Filters: Outliers removed (data anomalies)

- Total overnight repo volumes for all collateral types, with same-day settlement of the opening leg, range between \$40 and \$55 billion per day (reported to Market Trade Reporting System).
- For Government of Canada (GoC) bonds and bills, the range is \$30 to \$40 billion per day (before any filters are applied – discussed later).
- The subgroup recommended a focus on GoC bills and bonds because they represent the largest share of this volume and fit today's definition of GC.
  - Including other collateral types may also introduce new sources of variability to the rate.
- Trades between all counterparties, where data is available, should be included.
  - Analysis showed an important share of volume would be lost by focussing only on inter-dealer trades.
  - No conclusive difference in rates was seen between counterparty types.

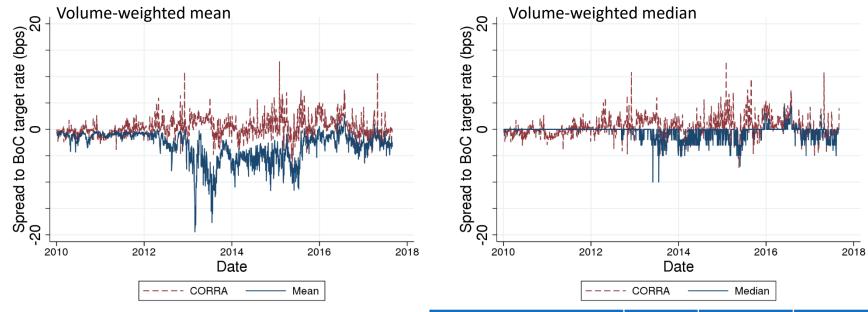


#### Background: The impact of "specials" is an issue for Enhanced CORRA

- The large transaction set, proposed for Enhanced CORRA, exhibits mean and median daily rates that trend below existing CORRA and the Bank of Canada target rate.
- The subgroup attributed this trend to "specials" being included in the data.
- The subgroup opined that "specials" typically do not provide information on general collateral funding conditions and should therefore be excluded.
  - "Specials" are motivated by the need to source specific securities rather than to source cash.
- However, there is no industry accepted definition of "specials" or means to easily identify them in the data.



#### Background: The impact of "specials" is an issue for Enhanced CORRA



Spread to BoC target rate (bps)	CORRA	Mean	Median
Mean	0.3	-3.5	-0.6
Standard deviation	1.8	3.1	1.2

Source: CDS/CDCC Collateral: GoC bonds Dates: Jan 2010 to Dec 2017 Filters: Outliers removed (data anomalies)



### Background: We discussed four methodologies to correct for "specials"

- The subgroup identified the need to correct for "specials" in Enhanced CORRA.
- Four filter methodologies were proposed:
  - 1. No filter at all

Final rate includes "specials" and general collateral transactions

2. "Rate method"

Drop a fixed lower percentile of trades each day by rate

3. "Bond/rate method"

Drops a variable number of trades each day based on the rate at which a bond is pledged

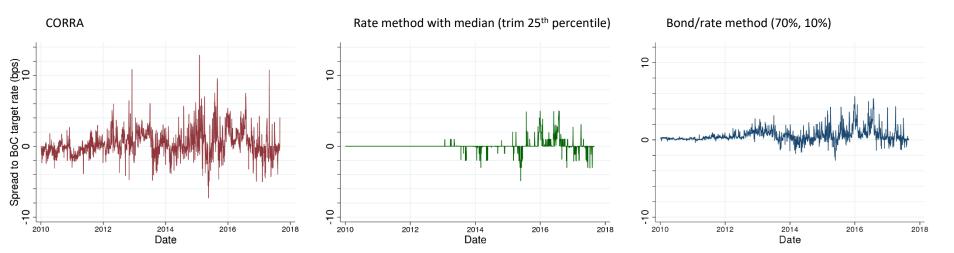
4. "Mixture method"

Separate the distributions of specials and general collateral

The Rate method and Bond Rate method were shortlisted by the subgroup.



#### Background: Comparing rate vs bond / rate methods



Source: CDS/CDCC Collateral: GoC bonds and bills Dates: January 2010 to September 2017 Filters: Outliers (data anomalies)



#### Recommendation: The Rate method with a median and 25% filter

- The subgroup has found consensus on its recommendation of a Rate method with a median.
  - Low volatility in the approach was seen as positive: hedgers will benefit from a rate that more closely tracks the Bank of Canada overnight rate and issuers will benefit from stability in payments.
  - In a market with extreme levels of "specials", the rate will trend lower to reflect a different nature of funding.
  - The Bond Rate approach was seen as too complex to govern and administer.
  - The Rate Median is simple and consistent with the US approach.
- The proposed calibration is to trim the bottom 25<sup>th</sup> percentile of transactions each day to account for "specials".
  - This calibration was based on historical analysis that looked at the spread and volatility of Enhanced CORRA to the Bank of Canada overnight rate and to current CORRA.

	2010-2017		2016-2017	
Spread to BoC target rate (bps)	CORRA	Recommendation: Median (trimmed 25%)	CORRA	Recommendation: Median (trimmed 25%)
Mean	0.3	0.1	0.5	0.4
Standard deviation	1.8	0.7	1.9	1.1

Source: CDS/CDCC Collateral: GoC bonds and bills Dates: January 2010 to September 2017 Filters: Outliers (data anomalies)