



Residential mortgage-backed securities

April 24, 2018

Introduction

- ❖ At the last CFIF meeting, members expressed interest in discussing the development of a Canadian residential mortgage-backed securities (RMBS) market
- ❖ Recent developments suggest that RMBS is attracting renewed interest (for example, MCAP's 2018 deal)
- ❖ This deck covers the following:
 - The current landscape
 - Potential avenues to explore in the development of a RMBS market
 - Proposal for a workshop

What is RMBS?

- ❖ RMBS transform uninsured illiquid mortgages into a tradeable security ⁽¹⁾
- ❖ Rather than keeping mortgage loans on their books, lenders pool their mortgages and sell parts of this pool to investors
- ❖ Each part of this RMBS pool is a claim to the cash flows that the lender receives when borrowers make payments on their mortgages

(1) For additional discussion, see Mordel and Stephens (2015) ["Residential Mortgage Securitization in Canada: A Review"](#)

Uninsured mortgage credit origination is on the rise...

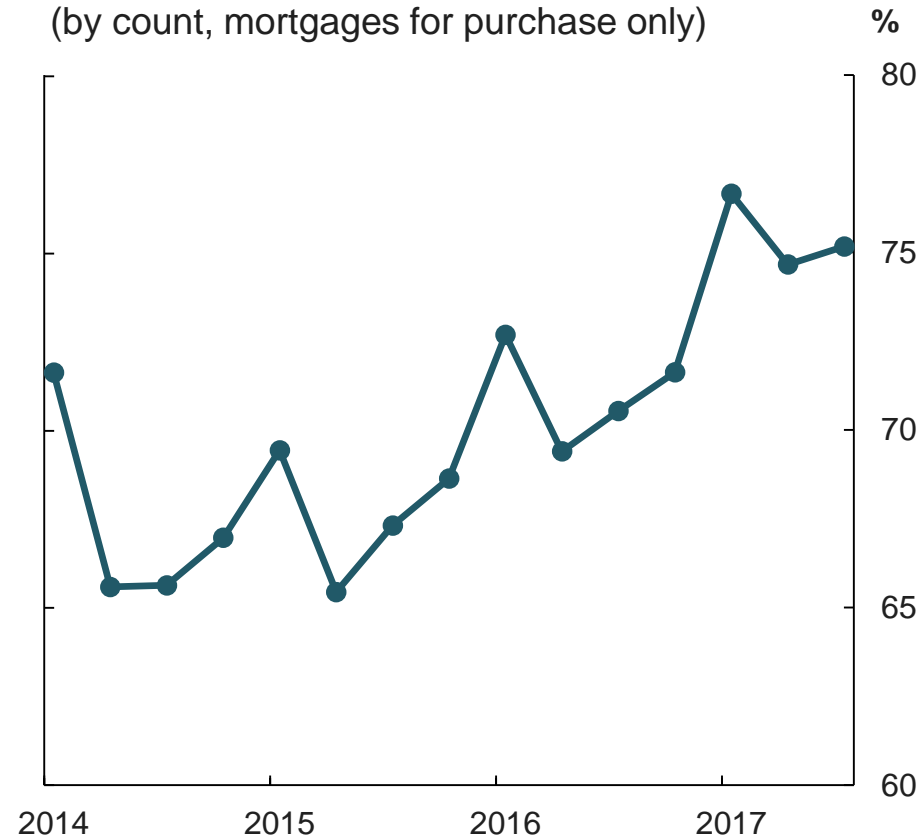
❖ Federally regulated financial institutions' share of low-ratio originations for home purchases has grown rapidly:

- From 2/3 in 2014 to 3/4 in 2017
- Now 90% in Toronto and Vancouver

❖ Potential drivers for this trend include:

- Tighter mortgage insurance criteria
- Rising house prices: more properties over \$1M cap for mortgage insurance
- Reduced access to portfolio insurance, notably since fall 2016
- Higher premiums

Tighter access to mortgage insurance has led to a larger share of low-ratio originations (by count, mortgages for purchase only)

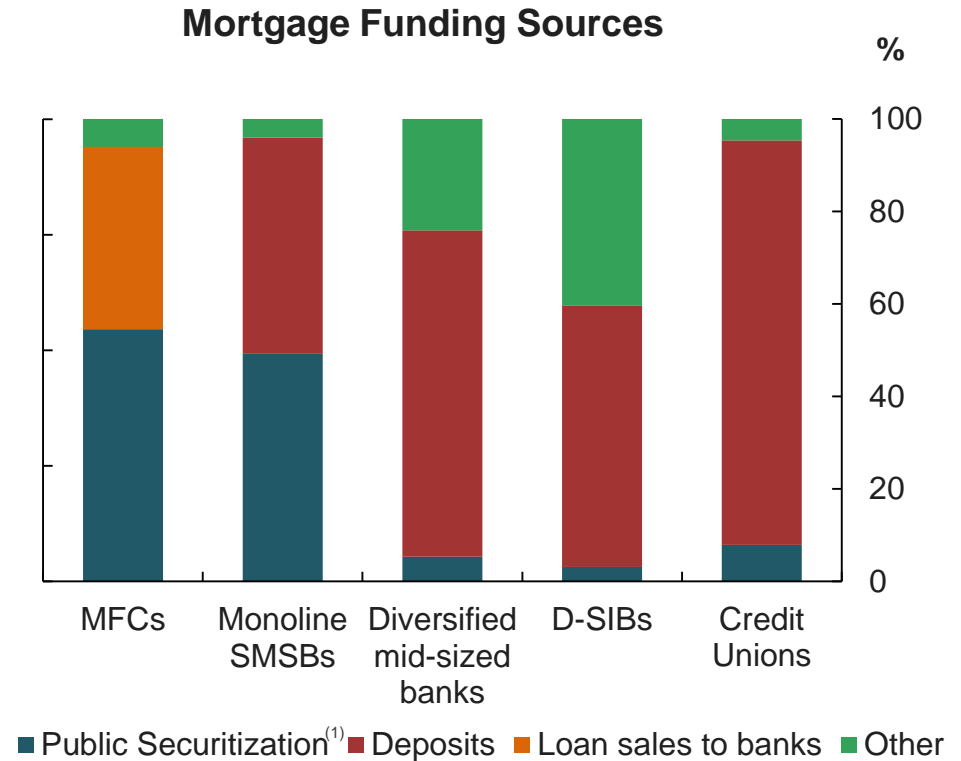


Source: Regulatory filings of Canadian banks and Bank of Canada calculations

Last observation: 2017Q3

...limiting funding scope for some originators

- ❖ Funding uninsured mortgages may be constrained for:
 - Mortgage finance companies (MFCs) or small and medium size banks (SMSBs) that rely heavily on public securitization (NHA MBS and CMB programs)
 - lenders with less sticky deposit bases
 - those close to the covered bond issuance cap

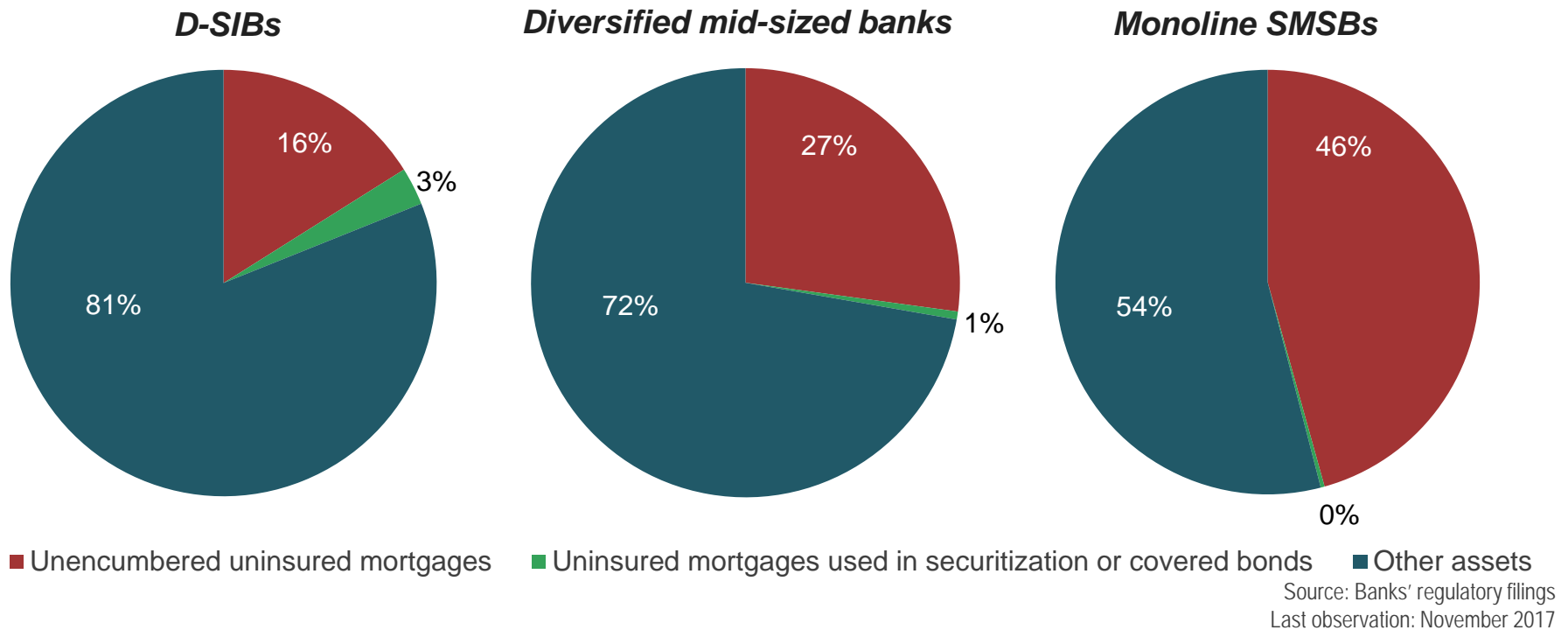


Source: Banks' regulatory returns, Statistics Canada, company websites
Last observation: 2017Q3

(1) Public securitization funding refers to NHA-MBS and CMB

There are potential opportunities for the development of a private RMBS market

- ❖ There is \$891B of unencumbered uninsured mortgages on bank balance sheets
 - Monoline SMSBs hold approximately \$24B of that total



Monoline SMSBs hold more unencumbered uninsured mortgages as a percent of total assets

There are a number of impediments to the development of a private RMBS market

- ❖ Some examples of impediments to the development of a private RMBS market include:

Supply Side

- ❖ D-SIBs have access to cheaper funding sources (deposits, deposit notes, GICs, covered bonds)
- ❖ Non-D-SIBs may not be able to securitize their mortgages
 - Smaller size
 - Potentially riskier mortgages

Demand Side

- ❖ Valuation challenges due to lack of granular-level historical data
- ❖ Yield relative to other fixed income assets
- ❖ Limited appetite for monthly amortizing assets
- ❖ Limited market liquidity and issuance size

Potential avenues to explore for the development of a private RMBS market

- ❖ Establishing standards for:
 - collateral
 - deal structure
 - disclosure requirements

- ❖ Establishing the appropriate vehicle for RMBS issuance

Potential standards for collateral could include:

- ❖ Mortgage size
- ❖ Term
- ❖ Payment type & frequency
- ❖ Property type
- ❖ Value
- ❖ LTV
- ❖ TDS/GDS
- ❖ Borrower credit score

Standards which could be established for pools and deal structure could include:

Pool

- ❖ Size
- ❖ Geographic distribution
- ❖ Servicer quality

Deal

- ❖ Pass through vs. senior/subordinated structure
- ❖ Number of tranches
- ❖ Ratings
- ❖ Risk retention
- ❖ Addressing balloon risk

Establishing disclosure requirements

- ❖ Access to granular loan-level data, both historical and ongoing, could promote investor interest
 - This supports investor protection, improves market efficiency, and reduces systemic risk⁽¹⁾
- ❖ Data on insured mortgages could serve as a basis of comparison for the quality of the underlying uninsured mortgages
- ❖ In general, disclosure requirements could help establish an appropriate benchmark to determine RMBS spread

(1) See Hendry et al. (2010) [“Securitized Products, Disclosure, and the Reduction of Systemic Risk”](#)

Establishing the appropriate vehicle for RMBS issuance

- ❖ Benefits of a single-seller:
 - Pricing could potentially reflect more acutely the quality of the mortgage pool

- ❖ Benefits of a multi-seller:
 - Standardization of security and pool structures (consistent with items 1 and 2, i.e. setting collateral and deal standards)
 - Backed by common mortgage eligibility requirements
 - Larger issue sizes, promoting liquidity

Potential workshop to further investigate these topics

Proposal:

- ❖ A half-day workshop on the issues related to establishing a private RMBS market
 - Participation: could be broader than CFIF membership to include all types of relevant stakeholders (sell-side, buy-side, issuers, and rating agencies)
 - Timing: June / September

- ❖ Areas for discussion could include:
 - Current landscape for an RMBS market
 - Supply and demand side impediments to the creation of an RMBS market
 - Measures to support market development



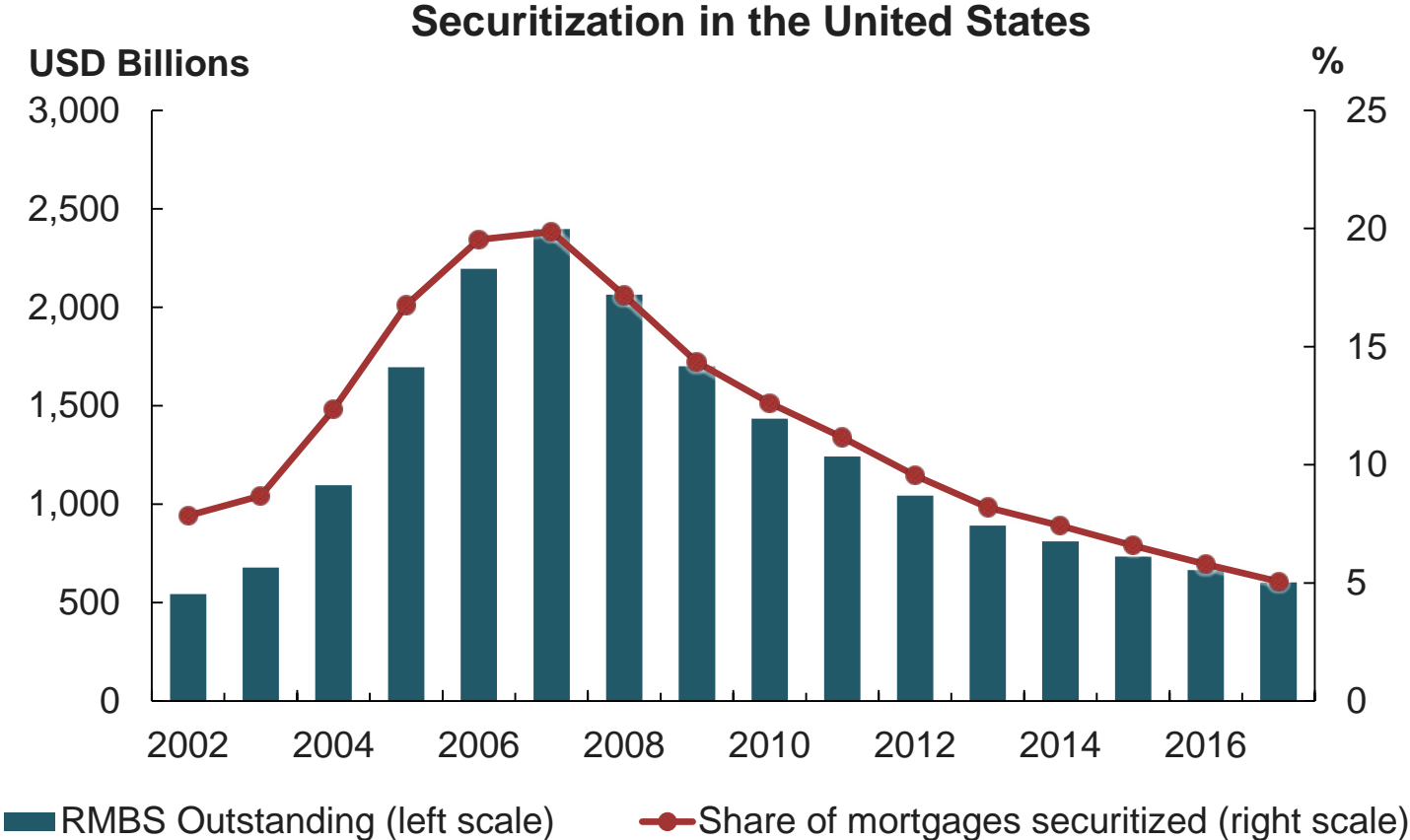
Appendix

Amounts outstanding for covered bonds and RMBS in Europe

	Covered Bonds		RMBS	
	Outstanding, € Billions	% of mortgage debt	Outstanding, € Billions	% of mortgage debt
UK	97	6%	91	6%
Germany	207	18%	1	0%
France	178	18%	3	0%
Netherlands	68	10%	46	7%
Spain	232	44%	43	8%
Italy	139	37%	12	3%
Ireland	17	17%	6	6%
Portugal	33	35%	8	9%
Europe	1,639	21%	213	3%

Source: Deutsche Bank
Last observation: February 2018

RMBS securitization in the U.S.



Notes: Non-agency MBS only

Source: Federal Reserve

Last observation: December 2017