



BlackRock Solutions and particular and beneen line ason. I. BlackRock Solutions Overview

II. BlackRock Solutions CMBS Methodology and CMBS Fu ndamentals





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- II. BlackRock Solutions CMBS Methodology and CMBS Fu ndamentals
- III. BlackRock Solutions Commercial Real Estate Assu mptions

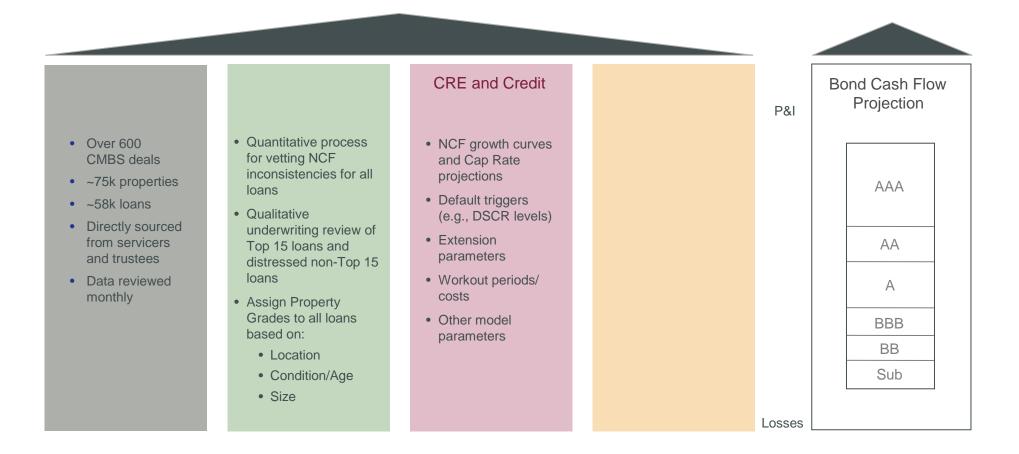


RMBS	CMBS
<ul> <li>Tends to be backed by relatively homogeneous collateral – mortgages are secured by single family residences</li> </ul>	<ul> <li>Tends to be more heterogeneous collateral – mortgages are secured by a variety of property types including office, retail, multifamily, industrial and hospitality</li> </ul>
<ul> <li>Each securitization typically contains thousands of mortgages</li> </ul>	<ul> <li>Most securitizations contain approximately 15-300 mortgages</li> <li>Generally the Top 15 loans account for approximately 50% of the balance of a CMBS trust</li> </ul>
The default of a single mortgage does not tend to materially impact deal performance	• The default of a single mortgage can have a significant impact to the owners of all related CMBS tranches
<ul> <li>More consistency in loan documentation for residential mortgages</li> </ul>	Loan documentation tends to be unique for each borrower/mortgage
<ul> <li>Modeling is typically based on law of large numbers, applying a probabilistic approach to projecting performance outcomes (e.g. CDR, CPR, Severities, etc.)</li> </ul>	<ul> <li>Commercial real estate is less amenable to statistical modeling due to idiosyncratic aspects of each underlying commercial property and mortgage</li> </ul>



#### **BRS CMBS Modeling Framework**

BRS uses a bottom-up approach to analyzing CMBS, bu ilt on loan-level data and a forward-looking determ inistic modeling framework





## BRS CMBS Modeling Framework: Loan and Property Datab ase

BRS maintains its own database of commercial mortga CMBS transactions

ge and property information backing US

• All loan- and bond-level analysis and projections ar



#### **BRS CMBS Modeling Framework: Loan-Level Review**

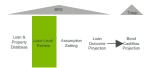
BRS performs a qualitative review of the Top 15 loa top 15 loans meeting certain review criteria (e.g. de

ns for each CMBS trust, along with any nondelinquent or specially serviced loans)

• All other loans undergo a quantitative vetting process

Loan review process assesses the reasonableness of for the following:

servicer reported information to account



- Top 15 Loans
- Watch List Loans
- Specially Servicedvoans

- Review disclosure documents
- Assess recent financials and servicer commentary
- Research tenancy and sponsor developments
- Review market specific developments



## BRS CMBS Modeling Framework: Assumption Setting

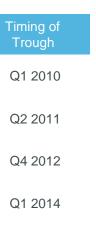




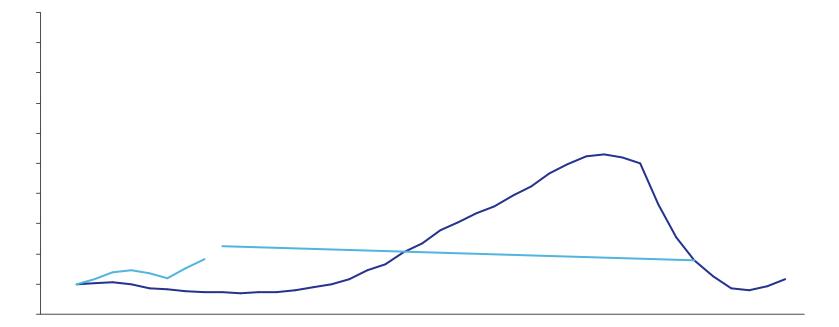




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### Important Notes

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