

MSCI Mortgage and MBS Model Suite

► Manage the risk of complex mortgage instruments more effectively with MSCI's integrated fixed income risk analytics.

Gain deeper portfolio insight

Identify key drivers of performance across multiple mortgage collateral segments with MSCI models that leverage granular inputs to deliver a greater level of insight.

- Our modeling framework is built to offer consistent and precise single security valuations and risk measures, in line with models traditionally offered by dealers.
- Our industry thought leadership includes advanced proprietary modeling methodologies and AI technology.

Make more effective investment decisions

- MSCI's securitized products models are designed to be accurate, relevant, and are backed by the latest research, seeking to help asset managers make more effective investment decisions in the mortgage and MBS space.
- The models utilize comprehensive macro-economic information and granular loan/ borrower level information and insights.
- We aim to enhance model credibility with regular and timely investor and client communications.

Broad analytical and instrument coverage

Instrument and segment coverage

- U.S. mortgage loans and Mortgage-Backed Securities (MBS)
- Fannie Mae, Freddie Mac, Ginnie Mae, Pools, CMOs, TBA and generics
- Non-Agency MBS including Prime Jumbo, Non-QM, and Legacy sectors
- MBS CRT (Credit Risk Transfer) securities
- Mortgage loans

Model components

- 2 factor stochastic interest rate models
- Mortgage rate models including current coupon models and primary/ secondary spread models
- Prepayment, delinquency and default, loss severity models
- House price models

Portfolio analytics

- Risk Measures: OAS, OAD, OAC, yield, prepayment, default, loss severity, etc.
- Portfolio VaR and attribution
- Portfolio factor attribution and risk forecasts

Scenario analysis

- Interest rates instantaneous shocks
- Macroeconomic shock scenarios
- Model dials for prepayment, default, severity, house prices, and mortgage rates
- Horizon analysis (future interest rates shocks)

Integrated into MSCI's multi-asset class analytics

In today's cost-conscious environment, investment managers often can no longer afford having multiple niche platforms across different asset classes to help them manage their multi-asset class portfolios. MSCI's mortgage and MBS model suite is integrated into our unified, industry-leading analytics framework, delivering a broad view of risk across fixed income, commodities, equities and FX. We offer:

- Multiple Value-at-Risk (VaR) simulation methodologies
- Robust stress testing
- Sensitivity analysis
- Flexible instrument pricing models

Easily access and integrate fixed income content

Integrate MSCI content into your workflows without disrupting your existing investment processes.



Interactive applications

MSCI applications, including Risk Insights, Single Security Analyzer and Excel plug-in, enable portfolio managers to receive fixed income analytics directly in the Order Management System (OMS).

Examples of strategic collaborations:



MSCI fixed income analytics

MSCI's mortgage and MBS model suite is part of our extensive suite of fixed income portfolio analytics. Backed by expert research and rigorously reviewed data, our solutions are designed to help clients address critical areas of fixed income portfolio risk and performance management.



Large-scale batch reporting

MSCI managed production of standardized and custom reports in PDF, Excel, CSV, XML and other formats for thousands of portfolios.



APIs

Direct, intraday access to MSCI's data and calculation engines via modern API's that maximize speed of delivery.

About MSCI

MSCI is a leading provider of critical decision support tools and services for the global investment community. With over 50 years of expertise in research, data and technology, we power better investment decisions by enabling clients to understand and analyze key drivers of risk and return and confidently build more effective portfolios. We create industry-leading research-enhanced solutions that clients use to gain insight into and improve transparency across the investment process. To learn more, please visit www.msci.com.

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