

# Top 10 Ways Beacon Enhances Risk Management

## Performs Pre-Trade Analysis

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- Price trade ideas, build sample portfolios, and run risk reports
- Include mix of any instrument type and asset class
- Calculate risk sensitivities and add hedging instruments

## Improves Visibility and Risk Management

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- Integrate and centralize data, models, and processes to improve visibility of risks
- Enable intraday views of risk with cloud processing for more timely reports
- Run large, complex, or custom scenarios

## Encourages Customization and Extension

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- Transparent source code license and foundational tools to customize and add to
- Integrated development environment that accelerates ideas to production
- Customize risk reports for internal or regulatory compliance

## Includes Integrated Beacon Notebook

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- Research and build strategies in Notebooks with real market data
- Use existing libraries for pricing, backtesting, risk analytics
- Move code directly from Notebook to integrated development environment

## Supercharges Spreadsheets

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- Tools that can read and convert spreadsheets into cloud objects
- Access to production data for improved consistency and reproducibility
- Reduce risk of spreadsheet errors and billions of dollars in fines and losses

## Automates Sales and Trader Workflows

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- Track, orchestrate, and automate trade execution processes
- Automate trade validation logic
- Maintain audit trail for internal and regulatory compliance

## Enables Strategy Backtesting

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- Simulate performance of rule-based strategies for any instrument and asset class
- Output results in P&L tables, plot charts, or transfer to spreadsheet
- Save strategies for reuse, build apps to run them with different parameters

## Marks Curves and Volatility Surfaces

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- Work from comprehensive view of markets with links to multiple platforms
- Mark and publish curves in real-time to manage spreads
- Fit and mark shift, wings, and skew of volatility surfaces

## Consolidates Views of Portfolio and Risk

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- Bring together trading info, portfolio positions, supporting data, and analytics
- Ingest data from multiple sources with available data connectors
- Respond quickly to market opportunities with alerts for risk limits

## Maintains Audit Trail

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- Time-traveling database with both “entry” and “as-of” records
- Integrated code version control and trading logs of who changed what, when
- Compare risk and P&L impact before and after data corrections