

# Top 10 Ways Beacon Supercharges the Development Process

## Reduces Infrastructure Management Overhead

- Cloud-agnostic system simplifies management and avoids vendor lock-in
- Dashboards and schedulers to orchestrate compute resources
- Cost-effective reliability and performance

## Fosters Collaboration

- Integrated version control and software development lifecycle (SDLC) processes
- Use with Git or in-house code repositories
- Tech skills closer to frontline to work with quants, traders, and portfolio managers

## Efficiently Processes Large Calculations

- Dashboards give full control over compute pools and segregate for specific tasks
- Enterprise-scale dependency graph makes recalculations more efficient
- Better management and debugging of calculation chains and dependencies

## Integrates Easily With Existing Tech Stack

- Wide range of data and code integrations to interface with existing applications
- Embed proprietary libraries in C, C++, C#/.NET, and Python within Beacon
- Remote procedure calls to support existing processes

## Accelerates the Rate of Innovation

- Speed and ease of prototyping system with enterprise-scale controls
- Secure but connected development and production environments
- Full visibility of functionality and ownership of intellectual property

## Includes Comprehensive Set of Data Warehouse Tools

- Multiple architecture options including APIs, FTPs, REDIS, and Kafka
- Database choices MongoDB, Postgres, InfluxDB, MySQL
- Data providers Bloomberg, CME, ICE, Intex, Refinitiv, and Snowflake Data Cloud

## Provides a Secure Environment

- Segregated cloud environment with full control over user access
- Layered, containerized architecture
- DevSecOps approach with automated governance, build, and test processes

## Integrates UI Framework

- Full suite of UI components and bindings to access and manipulate data
- Abstracts details of HTML, CSS, and JavaScript for faster app development
- Fragments Framework simplifies development and improve consistency

## Reduces Reliance on Spreadsheets

- 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

## Boosts Developer Productivity

- IDE and workflow automation that accelerates ideas to production
- Transparent source code license and foundational tools to customize and add to
- Package management for experimentation without risking stability of production