

OVERVIEW

Companies that employ engineers, scientists, and researchers are faced with costly barriers to maximizing effectiveness in problem solving, raising productivity levels, and accelerating innovation and product development. Many of these companies are unknowingly and needlessly paying more than once for the same insights, thereby incurring costly delays and inefficiencies that inhibit productivity and innovation. Researchers and experimenters are also unable to leverage prior knowledge as a starting point for new studies. Experiments tend to become isolated data, which is inaccessible after being generated, without consideration for their collective value when shared and reused.

To help engineers in problem solving and R&D teams in gaining a competitive edge in product and process design and development, Predictum's CoBase™ system provides powerful analytical capabilities in a collaborative and centralized data management solution. CoBase enables users to use, share, and maintain structured and reliable data for research, experiments, and analytical discoveries collaboratively and routinely. Users are able to visualize and explore patterns and relationships in historical and current data from a unified system to identify inconsistencies in prior studies and determine the best factor settings for subsequent studies. CoBase's rapid-time-to-value system and simple deployment empowers users to make discoveries and uncover insights from high-quality data assets to optimize process improvement in research and experimentation.

KEY FEATURES AND BENEFITS

Predictum's CoBase system is a software solution with powerful baseline features and functionality, which leverages statistical analysis, design of experiments, and interactive data visualization, and is tailored to meet clients' particular requirements and business objectives.

Key Features

Collaborative and centralized data management system for sharing, reusing, and managing data assets

Auto-classification of data tagged with intelligent metadata

Advanced analytical capabilities for data visualization, analysis, and reporting

Benefits

- Never again paying more than once for the same insights from your research and experimental data
- Uncovering solutions to current problems from prior knowledge
- Users are empowered with centralized knowledge assets at their fingertips for making discoveries and greater insights in research and experimentation.

- Flexible classification of production factors and responses, critical-to-quality characteristics (CTQs), and other parameters
- Contextual tagging using natural language and a rules-based approach
- Management of relevant metadata schema through administrator-level features

- Problem solving is streamlined by enabling engineers and scientists to pinpoint inconsistencies and their sources readily
- Ability to view and analyze effects, interactions, and higher-order terms of multiple factors and responses for better decision making
- Optimization of factor settings for subsequent experiments that will reduce variation, increase statistical power, and boost the success rate of uncovering useful insights



Figure 1. Visualization of consistencies in how effects influence responses across historical studies

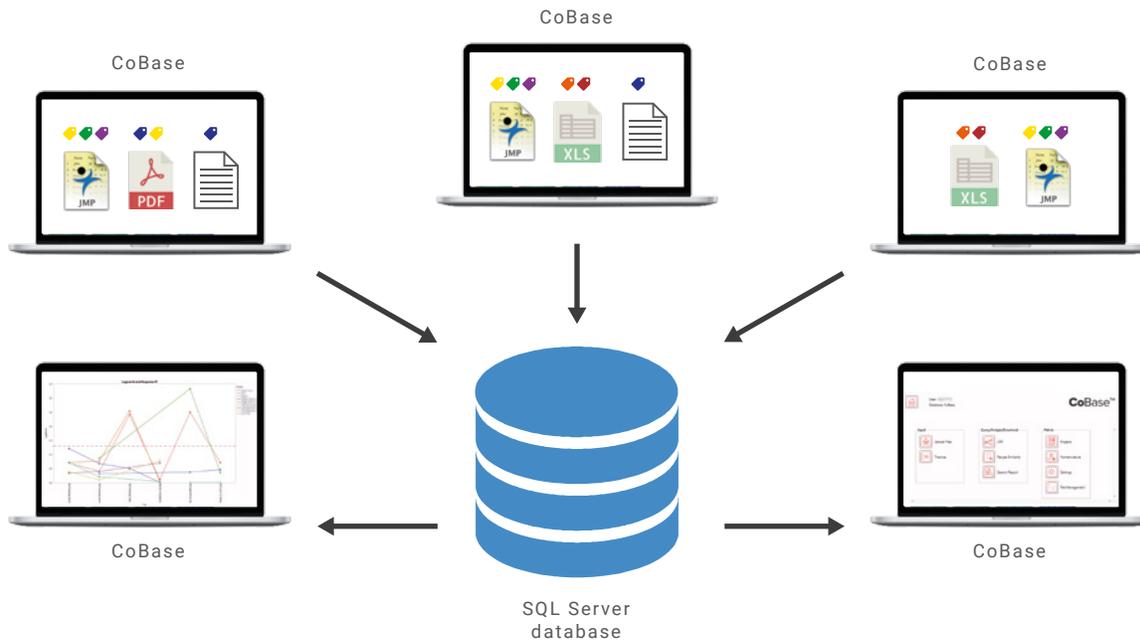


Figure 2. Visualization of how a single effect influences a group of responses across historical studies



Figure 3. Correlation between effects and responses from multiple perspectives across historical studies

SYSTEM ARCHITECTURE



ABOUT PREDICTUM INC.

Predictum Inc. is an analytical solutions company with clients of all sizes, including Fortune 100 companies in the semiconductor, biotechnology, pharmaceutical, chemical, consumer products, and automotive industries.

For over 25 years, Predictum has been enabling companies to achieve higher levels of analytical productivity, using advanced analytics and statistical methods routinely and effectively for continuous process improvement. Our team of engineers, statisticians, and programmers brings deep industry knowledge and experience in integrated analytical applications development, data science, and machine learning to provide our clients with robust and scalable solutions that deliver higher business value.

SYSTEM REQUIREMENTS

Software

JMP® or JMP Pro software
13 and later versions

Operating Systems

Windows 7 SP1 – 32-bit and
64-bit

Windows 8 and 8.1 – 32-bit
and 64-bit

Windows 10 – 32-bit and
64-bit

macOS 10.13 High Sierra and
later versions

Processor

Minimum – Intel Pentium
4.2.8 GHz or equivalent

Recommended – Intel Core i5
2.4 GHz or equivalent

RAM Memory

Minimum – 8 GB

Recommended – 16 GB
or more

Hard Disk Space

Minimum – 10 GB free

Recommended – more than
10 GB

Database

Microsoft SQL Server

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