Pentaho Business Analytics
Integrate > Explore > Visualize > Predict

By tightly coupling data integration with business analytics, Pentaho brings together IT and business users to access, integrate, blend, visualize and analyze all data that impacts business results. Pentaho’s open source heritage drives continued innovation in a modern, unified, embeddable analytics platform that brings together any data including big and diverse data types.

Pentaho’s pluggable, open platform creates a flexible analytics solution to support existing infrastructures today yet adjusts to tomorrow’s inevitable changes. Pentaho Business Analytics provides a spectrum of increasingly advanced analytics from reporting to data visualization and predictive analytics in a complete platform. Inherently open, Pentaho is fast to deploy, easy to use and extremely cost-effective — in short purpose built for the future of analytics.

PENTAHO'S MODERN UNIFIED BUSINESS ANALYTICS PLATFORM

Data Discovery
- Reports
- Dashboards
- Analysis
- Visualizations

Data Integration
- Access
- Integrate
- Cleanse
- Enrich
- Scoring

Predictive Analytics
- Score Forecast

Power to the User – Any User
Business & IT Collaboration
Broad Spectrum of Insight
Easily Embeddable into Enterprise Apps
Insight into all Data (Big & Diverse Data)
Pentaho Data Integration

Organizations face an increasing challenge to manage and extract value from growing varieties and volumes of data. With Pentaho Data Integration, organizations can access data from complex and heterogeneous sources and blend it with both existing and diverse data types to produce high quality ready-to-analyze information. A rich graphical user interface and a parallel processing engine in Pentaho Data Integration offer high performance ETL (extract, transform and load) capabilities that cover all data integration needs, including big data.

**PENTAHO DATA INTEGRATION PROVIDES:**
- A rich graphical visual design environment to reduce time and complexity
- Broad connectivity to any type and source of data
- Enterprise scalability and performance
- Big data integration with deep native support and job orchestration for Hadoop, NoSQL and analytic databases
- Integrated, interactive reporting and analysis

Data Discovery and Exploration

Pentaho Business Analytics provides a modern, highly interactive and intuitive web-based interface for business users to access and discover all data, including big data. With a spectrum of increasingly advanced analytics, users can create reports and dashboards, visualize and analyze data across multiple dimensions without dependence on IT or developers. IT benefits with secure, scalable, flexible and simple to manage business analytics. Pentaho can be deployed on-premise, in the Cloud or seamlessly embedded into other software applications.

**PENTAHO BUSINESS ANALYTICS PROVIDES:**
- Point and click access to any data
  - Web-based data access wizard for business users
  - Powerful data integration and federation for IT and developers
  - Access to diverse data types and sources from Excel to Hadoop
- User-driven interactive reporting
  - Intuitive web-based interactive reporting for business users
  - Rich graphical enterprise report designer for power users
  - Scalable in-memory caching for speed-of-thought results
- Interactive Dashboards
  - Rich visualizations with navigation, drilling, and a library of filter controls
  - Web-based drag and drop dashboard designer for business users
  - Portal and mash-up integration to seamlessly integrate business analytics with other web applications
- Interactive data visualization and analysis
  - Visual lasso filtering and zooming to understand or exclude outliers
  - Attribute highlighting for better visual contrast among data displays
  - A rich library of interactive visualizations such as geo mapping, heat grids and scatter/bubble charts
  - Drill down into supporting reports and dashboards
  - Extreme scale in-memory data caching for speed-of-thought analysis of large data volumes
PENTaho MOBILE

• Pentaho gives business users a true mobile experience including data discovery, interactive analysis and visualization on the iPad. Mobile users are instantly productive accessing, analyzing and sharing information anywhere.
• iPad-optimized mobile experience with native gestures such as touch filtering, drill-thru, and touch-enabled drag and drop
  • Creation of analytic reports from the iPad with access to all interactive dashboards, analysis and reports
  • Personalization capabilities including tagging favorites and customizing start-up
  • Web-based and open architecture ideal for ISV and SaaS providers to embed into mobile applications

Big Data

Pentaho Business Analytics for big data enables companies to realize business value from large volumes of diverse data by dramatically reducing the time and complexity required to design, develop and deploy big data analytics. Pentaho offers a complete solution that covers the entire big data lifecycle, with data extraction and preparation of both big and traditional data types in any infrastructure with a spectrum of analytics from data discovery to predictive analytics.

Analytics Auto-Prepared

PENTaho is the LEADING SOLUTION FOR BIG DATA ANALYTICS:

• Up to 15 times faster to achieve big data results with a complete solution
• Pentaho Visual Design Environment eliminates coding reducing development costs and increasing productivity for developers.
  • Pentaho Visual MapReduce — makes developing and deploying MapReduce code-free with parallel execution across a Hadoop cluster for outstanding performance
• An adaptive big data layer to provide deep native integration with leading and emerging big data sources including Hadoop, NoSQL and analytic databases
• Speed of thought analysis of big data
Embedded Business Analytics

100% Java, open APIs and multi-tenant ready architecture make Pentaho Business Analytics ideal for ISV and SaaS companies looking to embed business analytics into their information-centric applications. The Powered by Pentaho program offers partners a pragmatic approach to embedding visual and sophisticated analysis, reporting and dashboards into solutions in as little as eight weeks.

ISV’S AND SAAS PARTNERS CHOOSE PENTAHO FOR:
• Easy to embed and cloud-ready technology
• Superior partnerships and support
• Fully customizable branding & visualizations

“With Pentaho, we now are instantly aware if we are dealing with a single occurrence of an error or if there is a pattern. Pentaho is very intuitive to use and we can easily and flexibly adapt it to our changing requirements.”

– LUFTHANSA

Predictive Analytics

Beyond data discovery, Pentaho provides powerful, state-of-the-art machine learning algorithms and data processing tools. Data scientists and analysts can uncover meaningful patterns and correlations otherwise hidden with standard analysis and reporting. Sophisticated, advanced analytics such as time series forecasting help plan for future outcomes based on a better understanding of prior business performance.

• Supports the whole process of Predictive Analytics
• Preparation of input data
• Statistical evaluation of learning schemes
• Visualization of input data and the result of learning
• Includes powerful algorithms such as classification, regression, clustering and association
• Import 3rd-party models using Predictive Modeling Markup Language (PMML)
• Store and version models
• Operationalize models inside or outside of a Hadoop Cluster
• Incorporate algorithms into Pentaho’s visual interface