DATASHEET

Pentaho Business Analytics

Empower Your Data Analysis

Access, prepare, and analyze all data from any source, in any environment.

Dynamic Exploration, Simplified integration, and Innovative Reporting Tools

Visualize your data, create reports, and design dashboards without depending on IT or developers with Pentaho Business Analytics, a powerful, cost-effective, and customizable no-code data visualization tool. Enable seamless, data-driven decision making and break down barriers to data access with real-time self-service capabilities and built-in data modeling.

Pentaho Business Analytics is an integrated suite of data modeling, data visualization, and reporting tools that enable self-service analytics. It empowers businesses to access, integrate, analyze, and visualize their data from various sources, enabling data-driven decision-making. When combined with Pentaho Data Integration, you get a robust set of tools designed to work across the entire data lifecycle from modeling to ingestion & blending to visualization & reporting.

> "Using Pentaho, we are now helping clients blend a 360-degree view of all equipment data sources to enable early prediction of potential machinery failure."
>
> Caterpillar Marine Asset Intelligence

Unlock Insights with Ease

Discover flexible analytics that both leverage existing data infrastructure and future-proof deployments against tomorrow's inevitable change (see Figure 1). Use the Pentaho Business Analytics web-based components to share business intelligence solutions by analyzing data, creating reports, and deploying integrated dashboards.

- Slice and dice data dynamically beyond KPIs.
- Deploy rich dashboards through a drag-and-drop interface.
- Scale interactive and pixel perfect reporting across the Enterprise independent of IT dependencies.
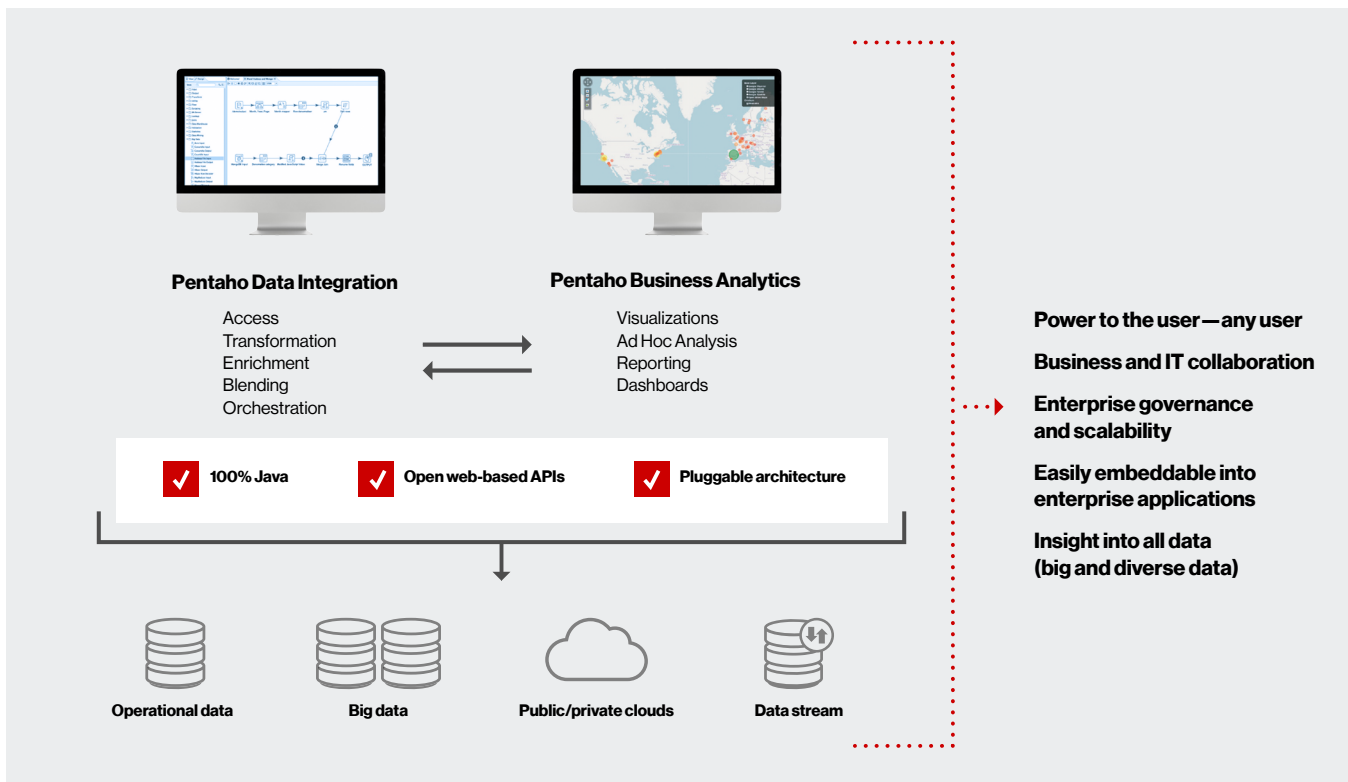

Pentaho Data Integration
Access
Transformation
Enrichment
Blending
Orchestration

Pentaho Business Analytics
Visualizations
Ad Hoc Analysis
Reporting
Dashboards

✓ 100% Java   ✓ Open web-based APIs   ✓ Pluggable architecture

Operational data   Big data   Public/private clouds   Data stream

Power to the user — any user

Business and IT collaboration

Enterprise governance and scalability

Easily embeddable into enterprise applications

Insight into all data (big and diverse data)

Fig. 1 Pentaho Business Analytics

No-Code Data Visualization Tool

Pentaho Business Analytics provides a modern, highly interactive, and intuitive web-based interface for business users to discover and explore virtually any data. With a full spectrum of analytics tools, users can create reports and dashboards as well as visualize and analyze data across multiple dimensions without dependence on IT or developers. Meanwhile, IT benefits from secure, scalable and governed analytics for the whole enterprise.

Ad Hoc Analysis and Visualization

- A rich library of interactive visualizations such as geographic maps, heat grids, bubble charts and more (see Figure 4).
- Extreme scale of in-memory data caching for speed-of-thought analysis on large data volumes using a drag-and-drop paradigm.
- Visual lasso filtering and zooming to understand or exclude outliers.
- Attribute highlighting for better visual contrast among data displays.
- The ability to drill down into supporting reports for detailed data.
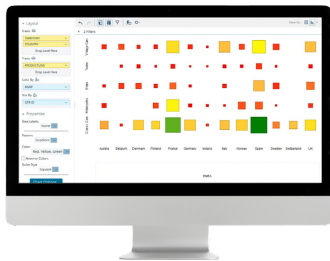

Fig. 4 Heat grid analysis in Pentaho Business Analytics

Flexible Dashboards

- Web-based drag-and-drop dashboard designer for business users.
- Portal and mashup integration to seamlessly embed business analytics with other web applications.
- Rich visualizations with navigation, drill-down capabilities and a library of filter controls.
- Advanced dashboard framework for 100% tailored user experiences.

Enterprise Reporting

- Full support for operational reports, parameterized reports, and interactive self-service reporting against ransactional databases.
- Intuitive web-based interactive reporting for business users.
- Rich graphical pixel-perfect report designer for power users.
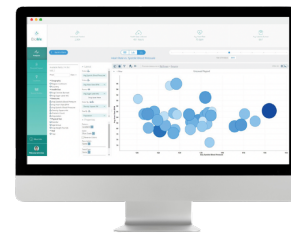

Fig. 5 Intuitive dashboard

Fig. 6 Capability embedded into a web application

Embedable & Extensible Analytics

Flexible, cloud-ready Pentaho Business Analytics is purpose-built for embedding into and integrating with your applications, portals and processes.

- Embeddable Reports: Seamlessly embed real-time visualizations reports and dashboards into existing applications (See Figures 5 and 6).
- Highly Customizable Web-Based User Interface: Robust web APIs offer maximum control over look, feel and user experience.
- Flexible Capabilities: Multitenant deployment as well as rich single sign-on and security integration.
- Tailored Training: Access to architect-level staff who have made hundreds of organizations successful.
- API Integration: Comprehensive REST and SOAP APIs for seamless integration with other systems.
- Plugin Architecture: Extend Pentaho's capabilities with a rich plugin ecosystem.
- Third-Party Tool Integration: Integrates with popular BI tools, databases, and other enterprise applications.

Deployment Options

- On-Premises: Install on your own infrastructure for full control.
- Cloud Deployment: Deploy on cloud platforms like AWS, Google Cloud, or Azure.
- Hybrid Deployment: Flexibility to use a combination of on-premises and cloud solutions.

Discover Pentaho Business Analytics →

Pentaho Business Analytics Technical Specifications and Compatible Components
Learn More

Pentaho