



# ACHIEVE FAST-TRACKED BIG DATA IMPLEMENTATION

## WIPRO'S BIG DATA READY ENTERPRISE BUILT ON THE HORTONWORKS DATA PLATFORM

Data has become far too precious to discard. Today, we have numerous, cost-effective ways to store, manage and analyze data within realistic timelines. However, as big data and Apache™ Hadoop® implementations have scaled across the enterprise, big data challenges must be addressed properly. The Wipro Big Data Ready Enterprise (BDRE™) accelerates big data implementations and helps enterprises drive actionable intelligence for faster innovation.

### DRIVING ACTIONABLE INTELLIGENCE FROM BIG DATA

BDRE is a comprehensive application development and operationalization platform that addresses the complete lifecycle of data management. Enterprises can ingest, organize, enrich, process, analyze, govern and extract data from an enterprise data lake at a fast pace.

BDRE leverages the Hortonworks Data Platform (HDP™), the industry's only true secure, enterprise-ready open source Apache™ Hadoop® distribution based on a centralized architecture (YARN). HDP addresses the complete needs of data-at-rest, powers real-time customer applications and delivers robust analytics that accelerate decision making and innovation. By helping to speed migration of a traditional enterprise data warehouse to HDP, BDRE significantly accelerates big data implementation in a cost effective manner.

BDRE is an open source product released to the community to support product growth in terms of new features and capabilities, encourage collaborative development and enable faster innovation.

### KEY FEATURES INCLUDE:

#### Configurability

BDRE can be configured based on specific organizational requirements. Enterprise organizations can readily replace, add and operationalize data applications that have already been developed for HDP platforms.

#### Data Ingestion

Simple wizard tools help technical users to easily and rapidly ingest data from multiple data sources into HDP.

#### Data Workflow Builder

A complex workflow editor provides a canvas-like interface and toolbox to choose the components including Hive query, Pig script, Java, R, and Python which get packaged into a generated oozie workflow deployable into the HDP cluster with a single click. This feature drives efficiencies for developers and technical users.

### Intuitive User Interface

The HTML5-based user interface enables developers to create various jobs using simple ingestion wizards or semantic workflows drag and drop. Administrators can install applications from the App Store or import applications from a single tar ball. Analytical self-service users create their own workflows using technologies including Spark, Python, and R.

### Operational Metadata Management and Job Orchestration

BDRE registers all jobs, tracks configuration changes, and captures and maintains run time metadata. Offering powerful batch and dependency management features, BDRE delivers run control and incremental processing to all applications created from BDRE.

### Data Lineage and Pipeline

BDRE automatically captures Hive queries running in the HDP cluster and forms visual column-level data lineage for business users and auditors. BDRE provides additional, visual representations including job pipeline, batch propagation and SLA information.

### Data App-Store

The Git Hub-based App-Store provides an innovative way to share data applications between teams in a multi-environment enterprise system. The Data App-Store also facilitates the migration of data apps between HDP clusters.

### Customizable

BDRE's operational metadata system offers a very generic, loosely coupled and flexible meta-model and hence virtually any new custom data application can be integrated and operationalized with minimal development effort. Once integrated, the data application developers can create and deploy new applications using easy to use front-end.

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- A **leading global bank** is leveraging BDRE in the HDP cluster to link transactions across client groups and lines of business covering more than 65 countries. BDRE enabled the bank to easily create parallel and replicable workflows, optimize the data preparation and enable faster deployment, therefore supporting the business in addressing critical compliance for regulatory authorities.
  - A **large online retailer** is using BDRE as a self-service for business users to build and operationalize data applications in a HDP cluster. BDRE workflow automation enables business users to build, deploy and orchestrate workflows using both Hive and Teradata applications.

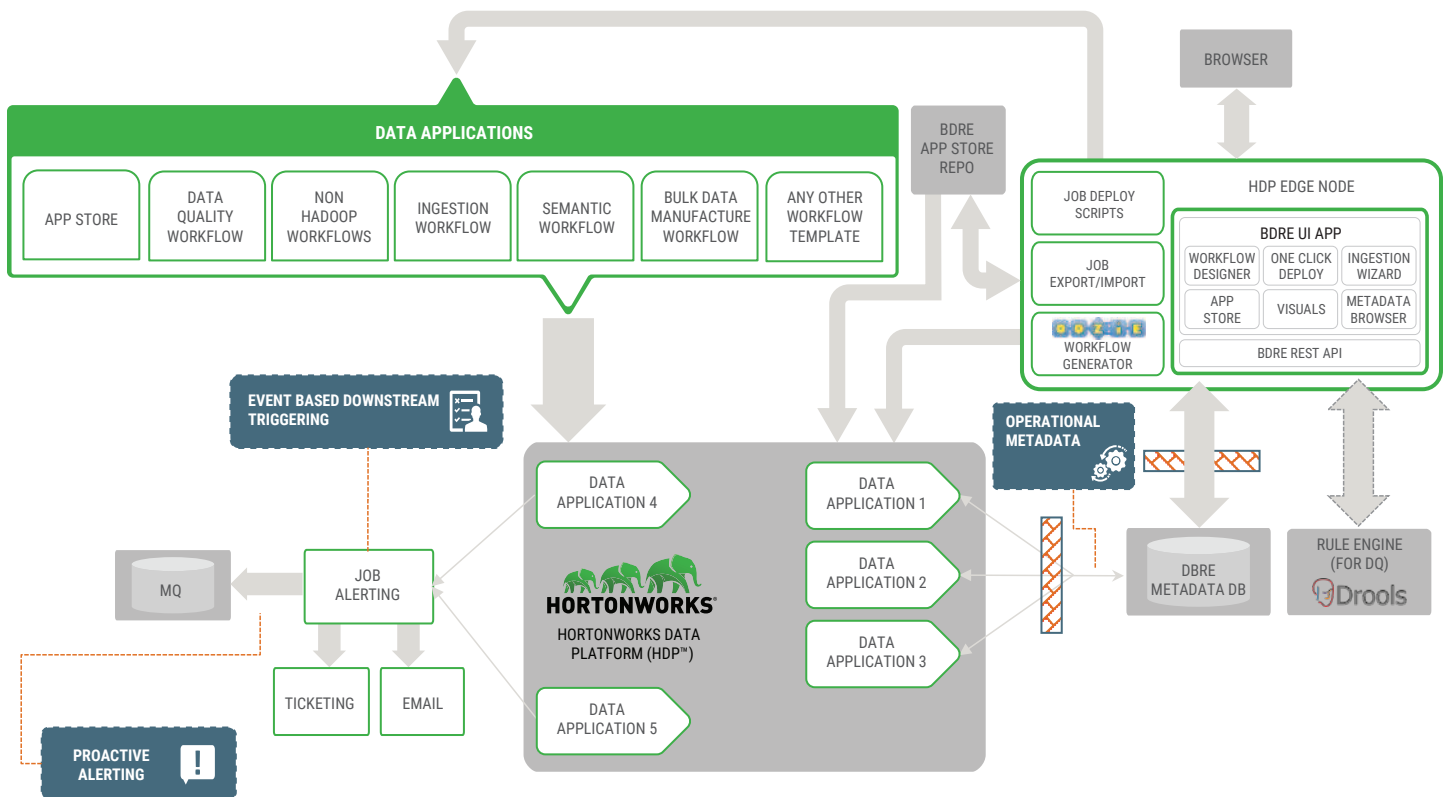
## THE HORTONWORKS AND WIPRO TECHNOLOGIES ALLIANCE ADVANTAGE

Wipro Technologies, the global IT business of Wipro Limited, is a leading Information Technology, Consulting and Outsourcing company that delivers solutions to enable its clients do business better. Hortonworks is the leader in connected data platforms that power new modern data applications. Together, Wipro and Hortonworks help clients gain advanced decision-making capabilities and achieve business outcomes from big data through business insights.

## LEARN MORE

To learn more about the power of BDRE, please visit <http://wiproopensourcepractice.github.io/openbdre> and contact Wipro BDRE Chief Architect Arijit Banerjee [Arijit.Banerjee1@wipro.com](mailto:Arijit.Banerjee1@wipro.com) or Wipro Big Data Global Practice Lead [Rahul.Sarda@wipro.com](mailto:Rahul.Sarda@wipro.com).

## BDRE ARCHITECTURE



## About Hortonworks

Hortonworks is a leading innovator at creating, distributing and supporting enterprise-ready open data platforms. Our mission is to manage the world's data. We have a single-minded focus on driving innovation in open source communities such as Apache Hadoop, NiFi, and Spark. Our open Connected Data Platforms power Modern Data Applications that deliver actionable intelligence from all data: data-in-motion and data-at-rest. Along with our 1600+ partners, we provide the expertise, training and services that allows our customers to unlock the transformational value of data across any line of business. We are Powering the Future of Data™.

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