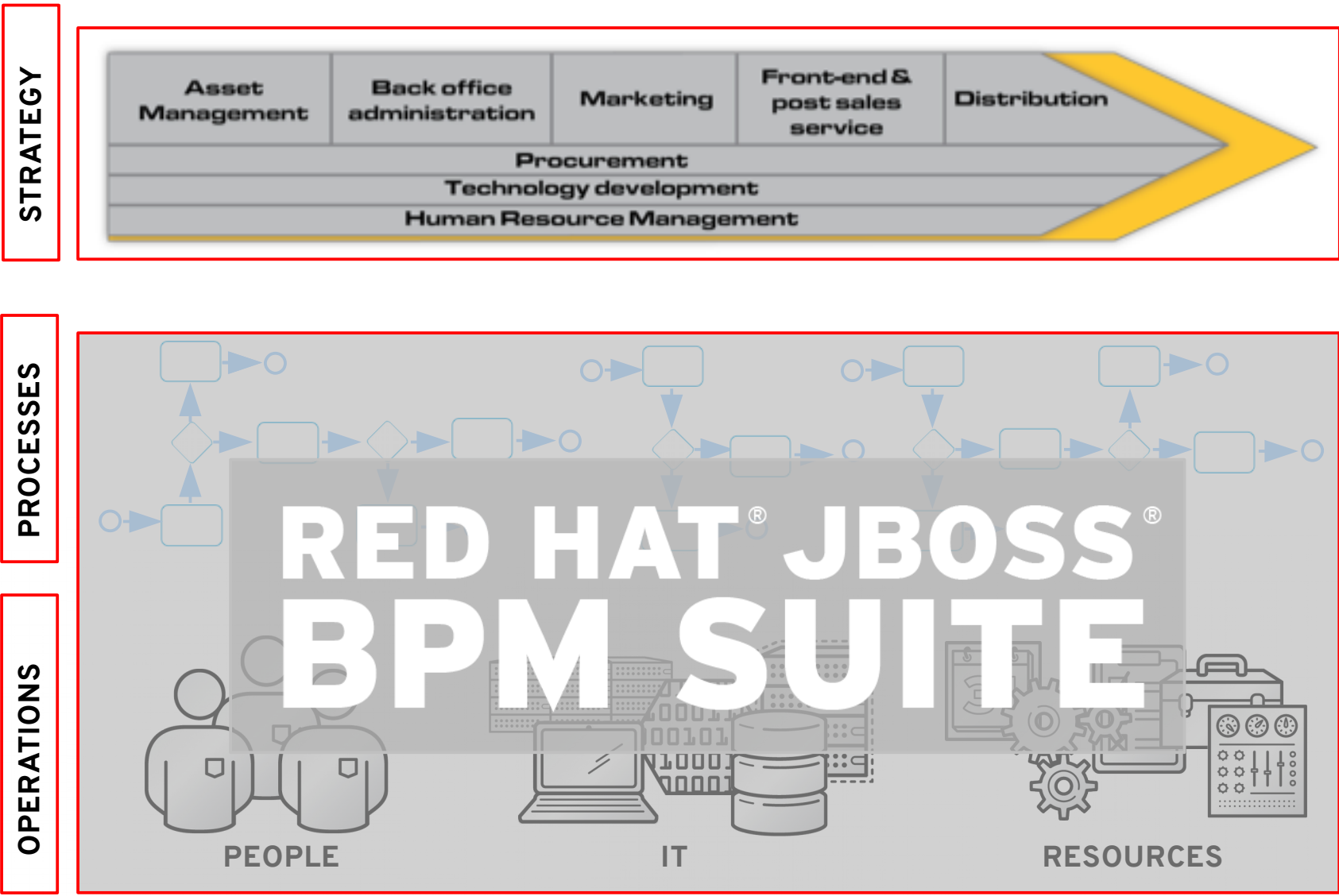# Build the Enlightened Enterprise

An Overview of Modern BPM Data Integration
With the JBoss BPM Travel Agency Demo

Powered by JBoss Enterprise Middleware -
Red Hat JBoss BPM Suite

JBoss Middleware becomes strategic

Value Proposition

Automate
business operations
with intelligent
decision support

Optimize
business operations
with real-time BAM, analytics,
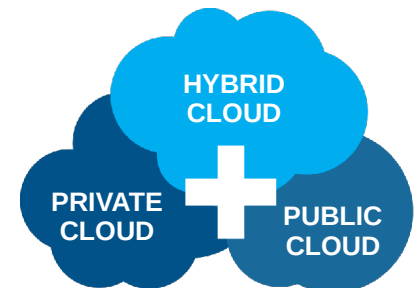simulation and reccomendation

Accelerate
application development
with model-driven
design and integration

AHA!

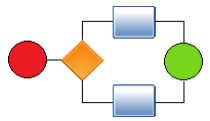Empower
business users to
take control of operations

Collaborative working
during the entire process life cycle
and beyond the Enterprise

HYBRID
CLOUD

PRIVATE
CLOUD

PUBLIC
CLOUD

Deploy
in the Cloud
with BPM PaaS

redhat.

Capabilities Overview

Processes

Create and deploy enterprise processes and applications through a model-driven composition environment and execution platform.

Services

Integrate and interoperate your existing enterprise systems and web services in your business processes using JBoss SOA Platform and JBoss Fuse modern ESB.

Rules

JBoss BRMS is included in JBoss BPM Suite to support the definition, management and execution of business rules by Business and IT users.

Data

Data modeling tool that also enables participants to manipulate and manage data entities within running processes.
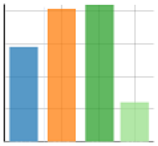
Events

Handle events as first class citizens of the platform, dedicating an independent module to Manage Complex Event Processing (CEP).

Forms

Forms modeling tool to build dynamic and interactive web forms using using a WYSIWYG drag-and-drop interface.

Capabilities Overview

Analytics

Build dashboards that deliver real-time business activity monitoring (BAM) and reporting with personalized information, measure and analyze key indicators to track process performance to make quick and effective decisions.
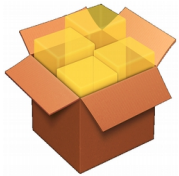
Assets

Pluggable multi-dimensional repository for knowledge representation of processes, rules, data and services to facilitate reusability, change management, governance and compliancy.
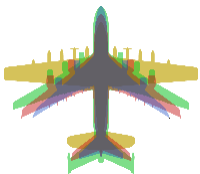
Execution

Integrated execution environment with separates engines for processes, tasks, evente and rules. Deploy in different application servers, on-premise or in cloud.
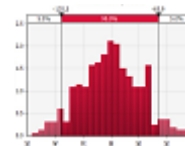
Simulation

Establish, execute and analyse different simulation scenarios. Identify bottlenecks. Decide what are the optimal parameters and thresholds for your processes. Make effective recommendations.

Workspace

The execution environment provides a Rich User Interface (RUI) or Portal that centralize user participation, attending alerts and triggers, and notifying actions to each role across the entire process lifecycle.
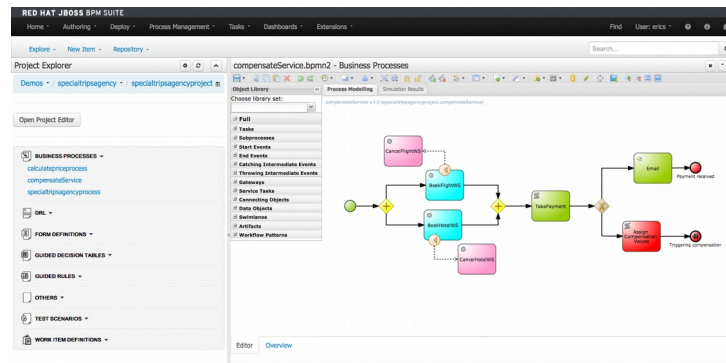
Development

JBoss Workbench IDE lets developers easily extend, build and integrate process-based applications.
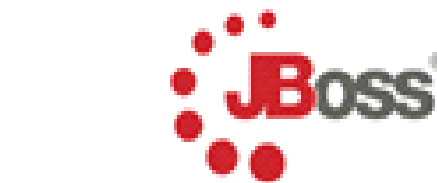
Full BPM lifecycle support

Modeling & Simulation

Integration & Deployment

Continuous Improvement

Monitoring & Analysis

Execution & Management

redhat.

DESIRED SOLUTION - *REALTIME DATA INTEGRATION*

Data as a Service

● Standard based interface

● Contextual view of disparate source data

● Single point of access / integration

● Reuse of Data

● But you cannot achieve this by writing more application code...

Data Sources Siloed & Complex

JDBC Request

| JBoss BPM BAM Reports | Analytical Applications | Enterprise Integration / SOA | JBoss BPM Process Applications | Mobile Applications |

JDBC Request

Query Results

JBoss Data Virtualization

REST Message   SQL Statement   SOAP Message

Hadoop   NoSQL   Cloud Apps   Data Warehouse & Databases   Mainframe   XML, CSV & Excel Files   Enterprise Apps

redhat.
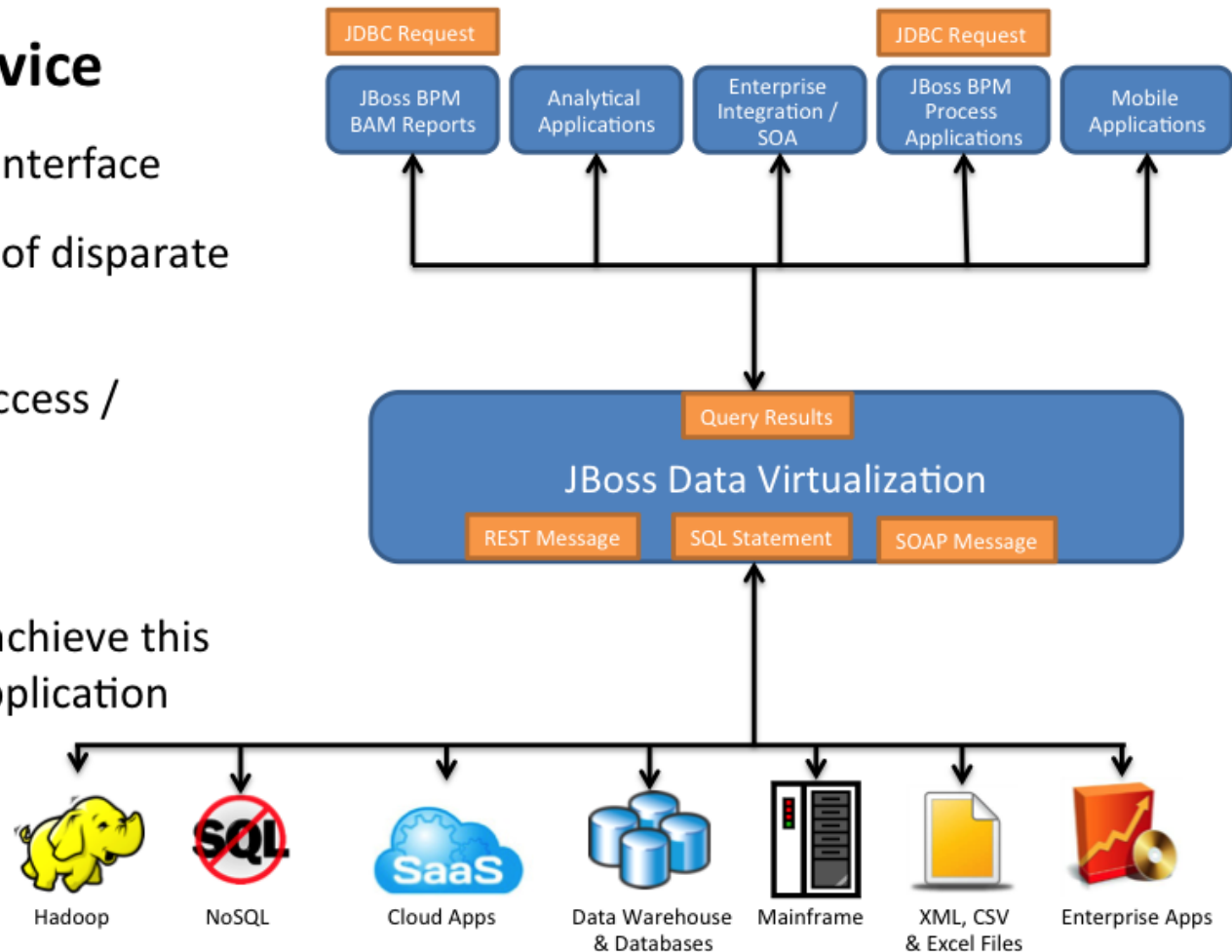
JBOSS DATA VIRTUALIZATION
DATA INTEGRATION & DATA AS A SERVICE SSOLUTION

Data Virtualization sits in front of multiple data sources and

✓ allows them to be treated as a single source

✓ delivering the desired data

✓ in the required form

✓ at the right time

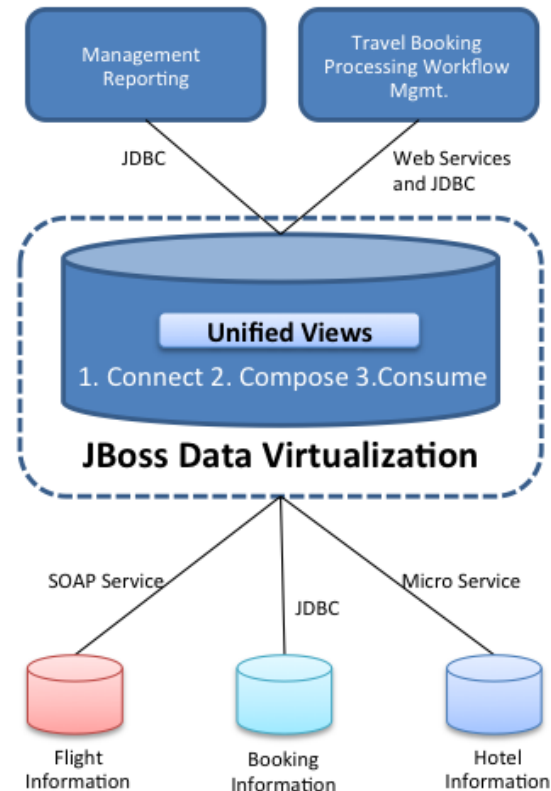✓ to any application or user.

THINK VIRTUAL MACHINE FOR DATA
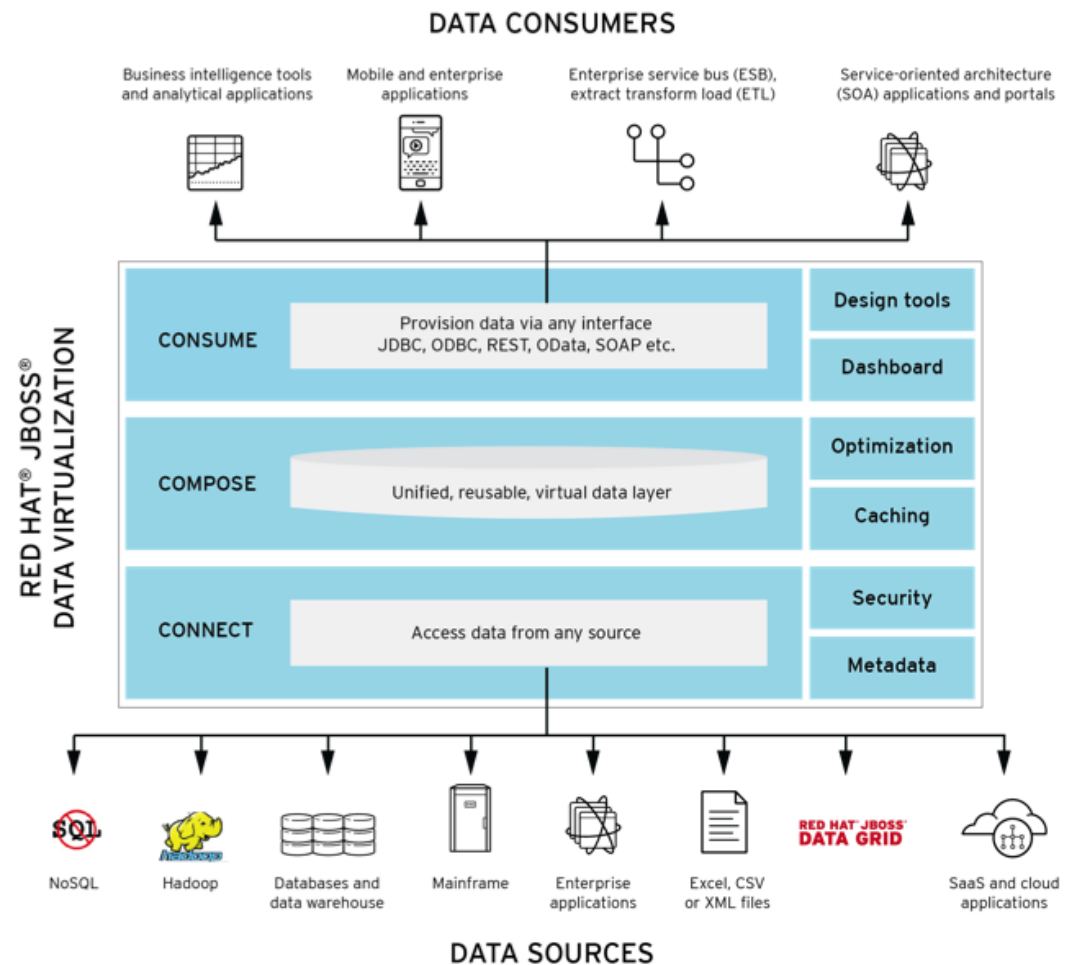
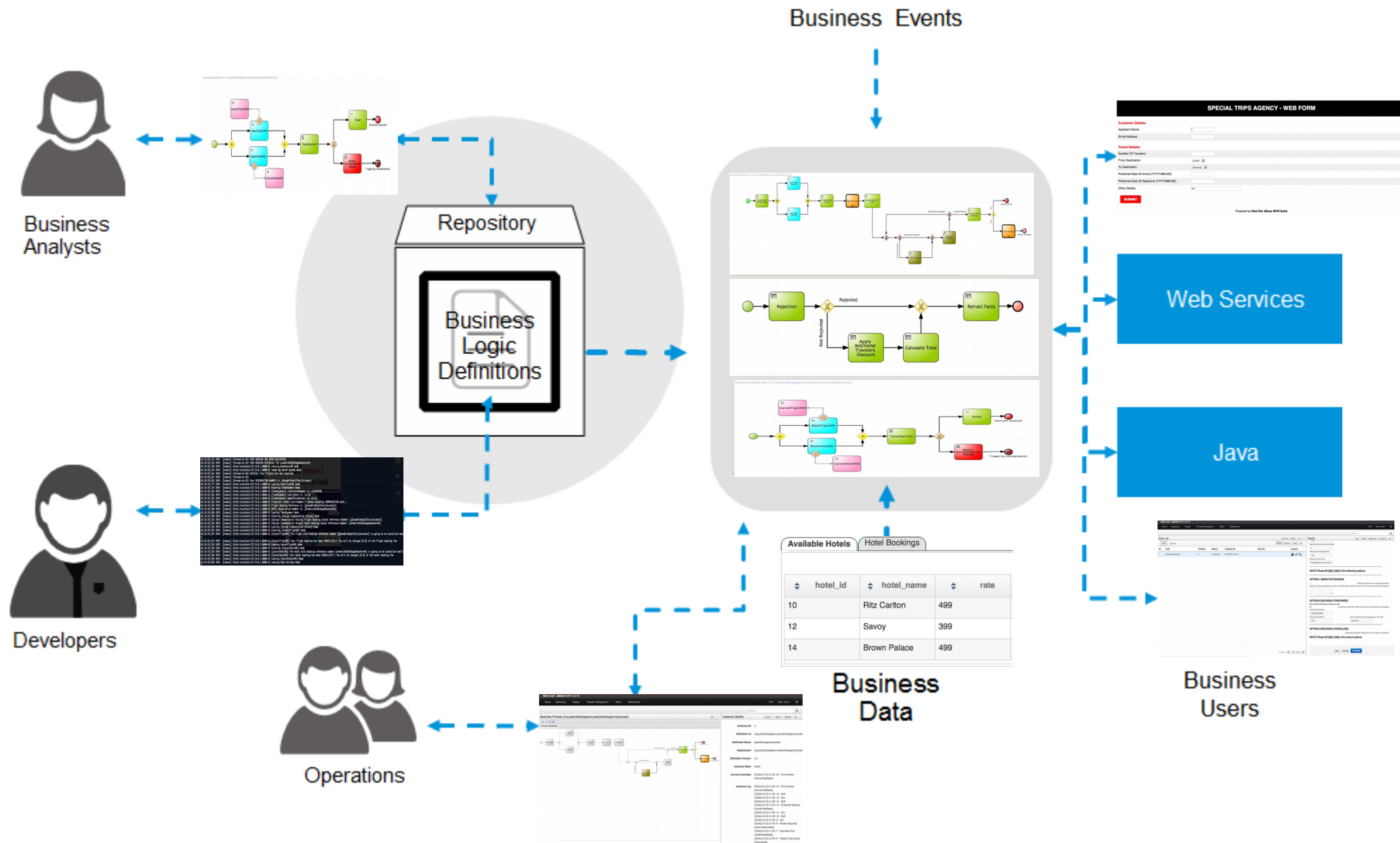# JBoss BPM Travel Agency
Single View of Bookings Processing

- Situation / Needs:

  - Management seeks visibility and control, while bookings operations needs to run smoothly through acquisition

  - Bookings data now spread across multiple databases/systems

- Solution:

  - Consolidate all data into "virtual data mart"

  - Transformation of data differences

  - Provide real-time data access to management portal and travel bookings workflow system

- Benefits:

  - Management get timely information on bookings and operating metrics

  - Travel agents receive all the information to process bookings faster

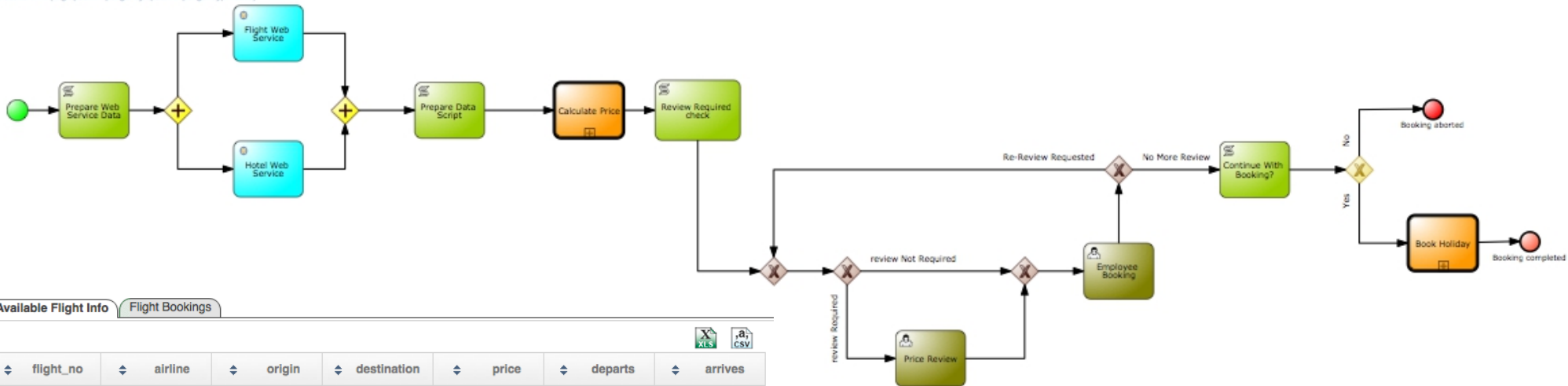 - Sensitive data preserved until acquisition integration

redhat.

Components in JBoss BPM Travel Agency project

JBoss BPM Suite & JBoss DV Travel Agency Demo

Build the Enlightened Enterprise

For more information, please visit
http://www.jboss.org/products

Demo project available at:
http://github.com/jbossdemocentral/bpms-dv-travel-agency-integration-demo