

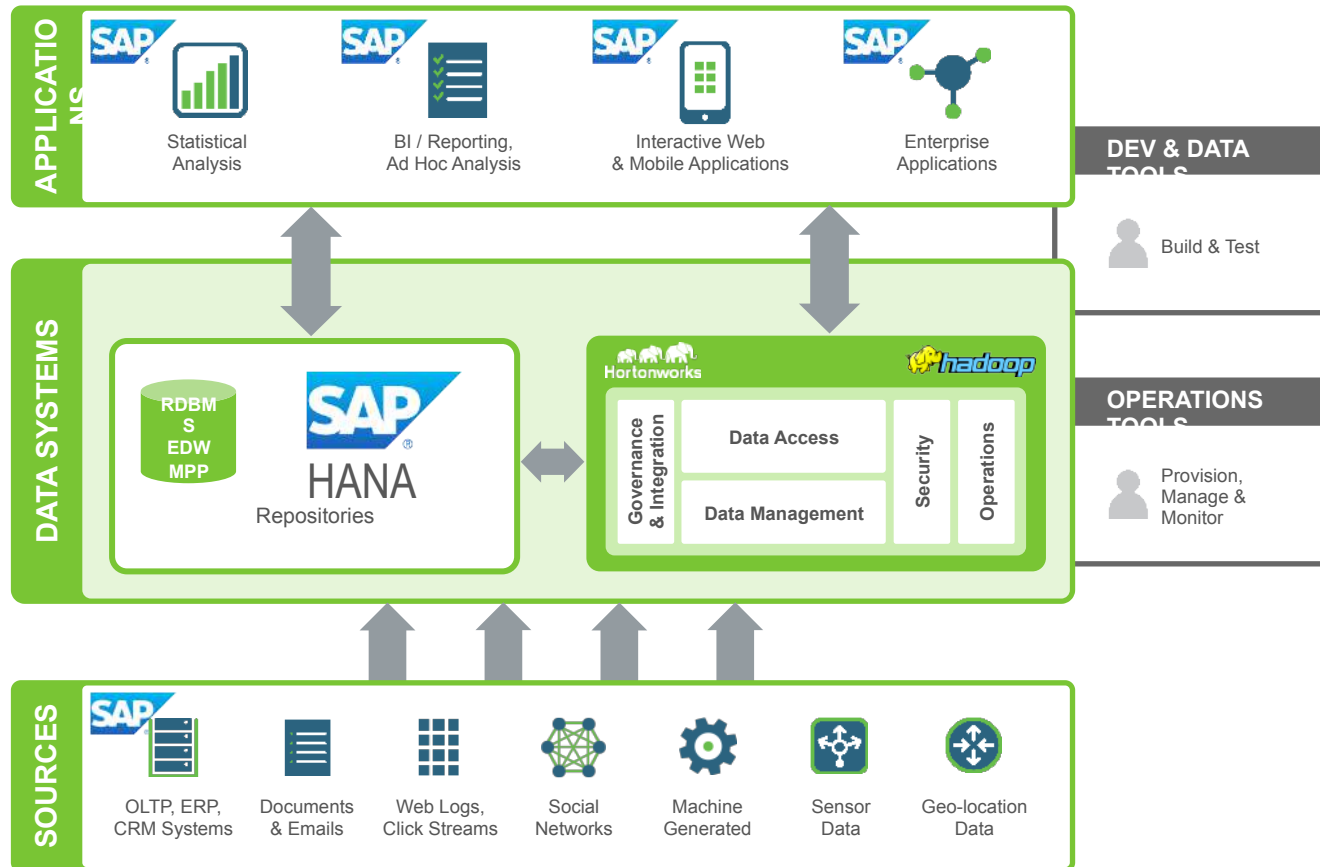


SAP and Hortonworks Reference Architecture

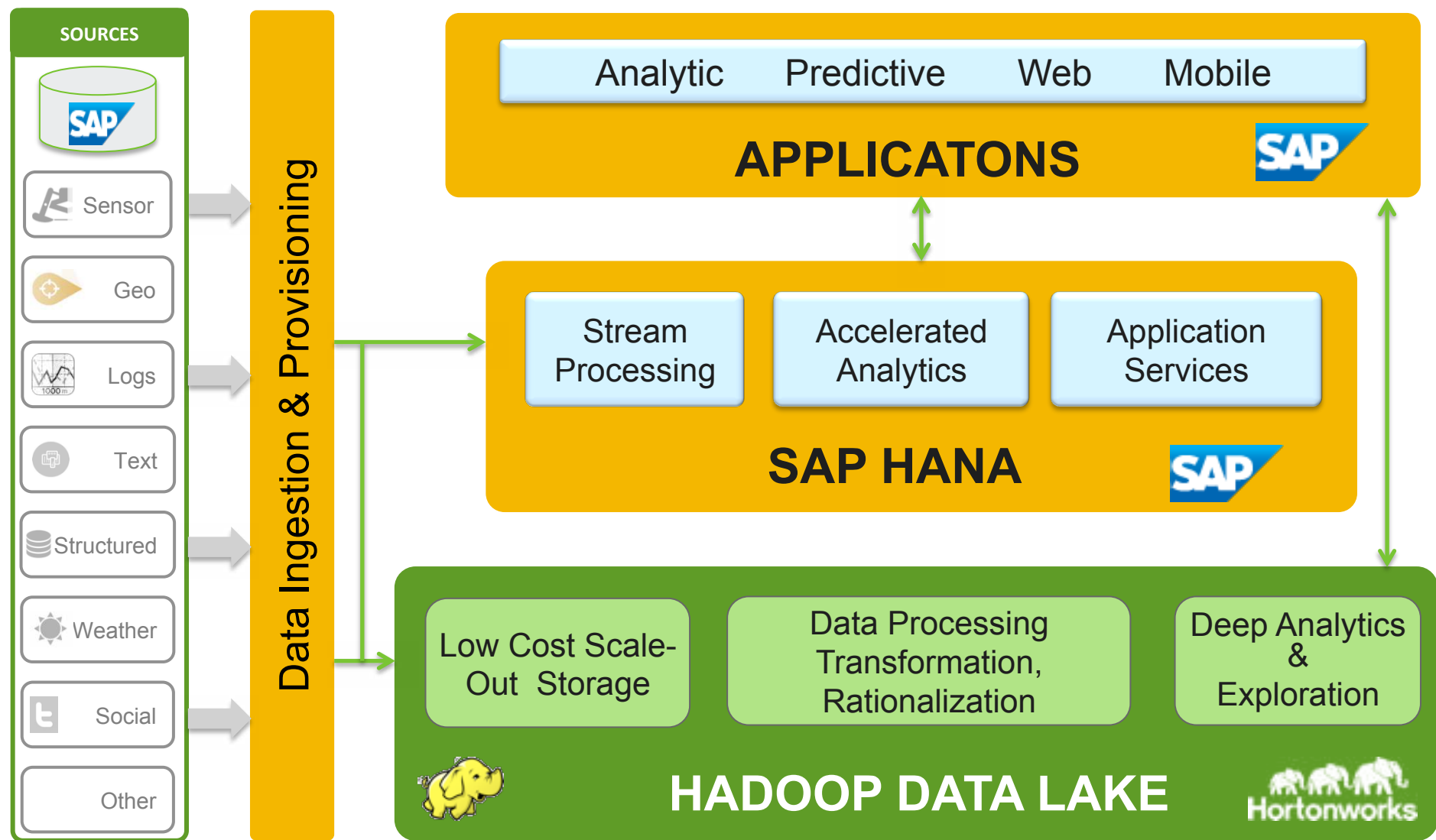
Hortonworks. We Do Hadoop.

June 2014

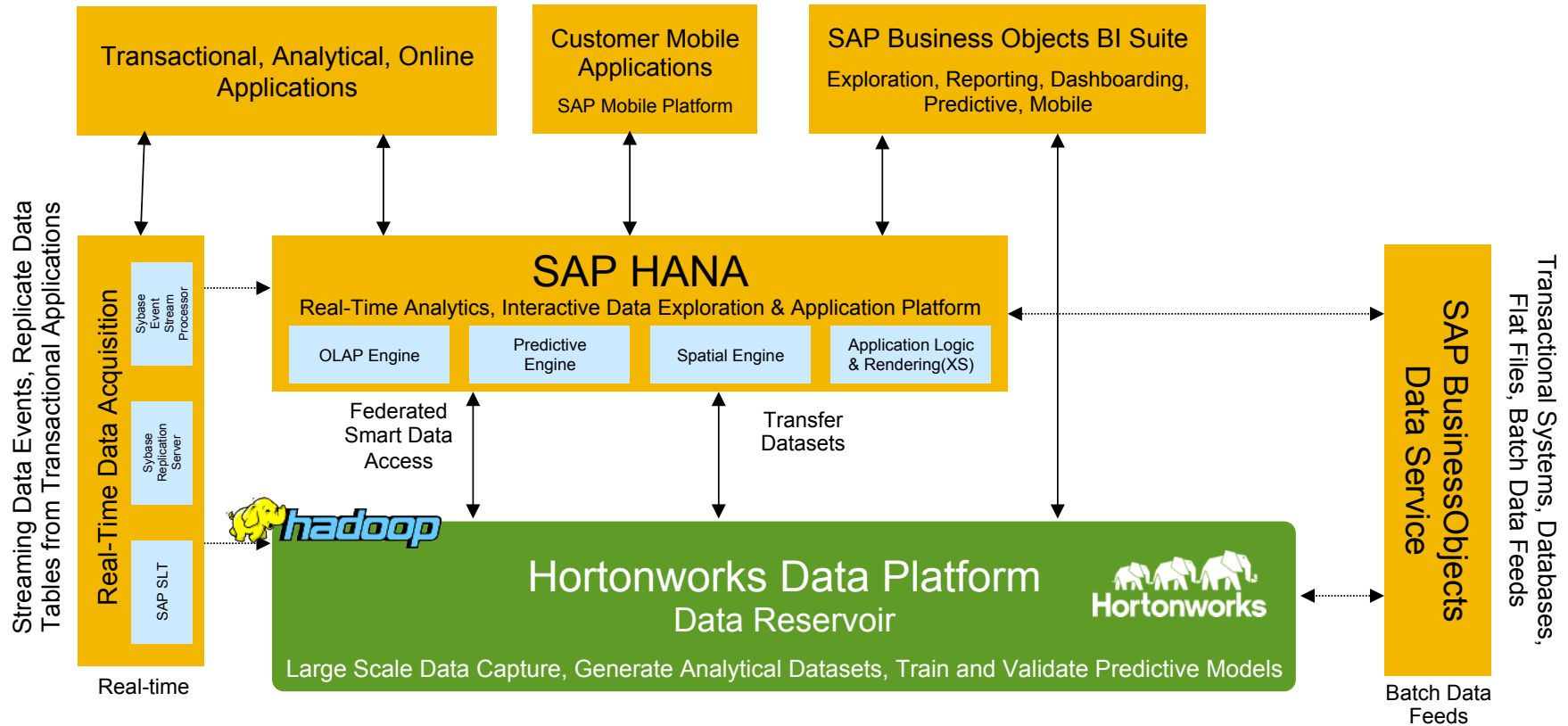
A Modern Data Architecture With SAP



Big Data Reference Architecture



SAP/Hortonworks Real-Time Big Data Architecture



Real-Time Data Ingestion

Real-Time Response

Close-Looped Analytics

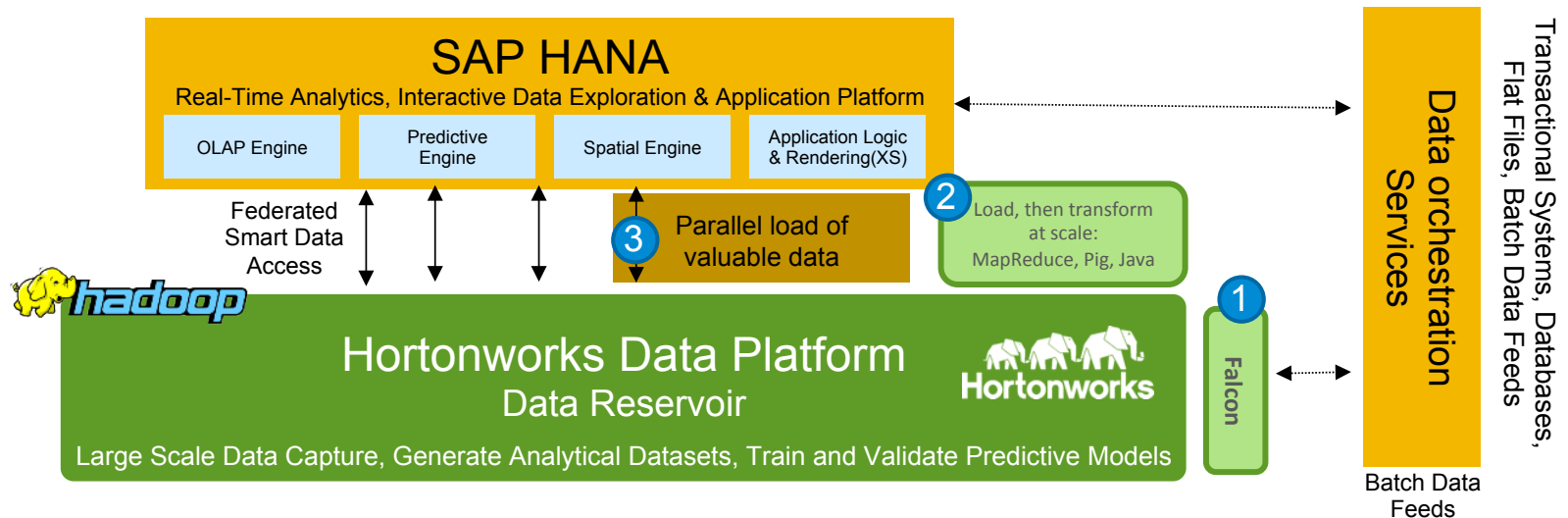


Real-Time Recommendation Applications

Inline Predictive Analytics for Transactional Applications

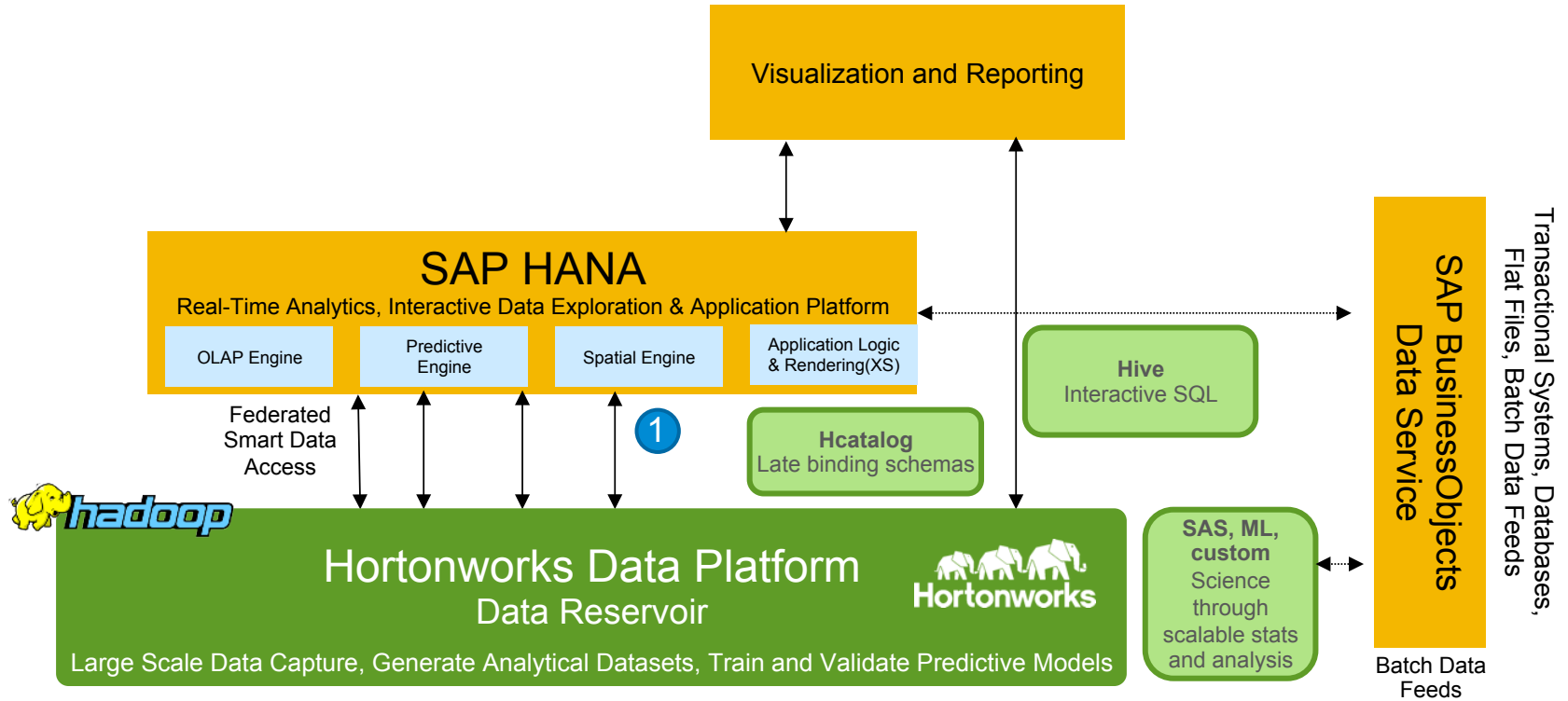
Smart Mobile Applications

SAP/Hortonworks ETL Rationalization (loading data faster)



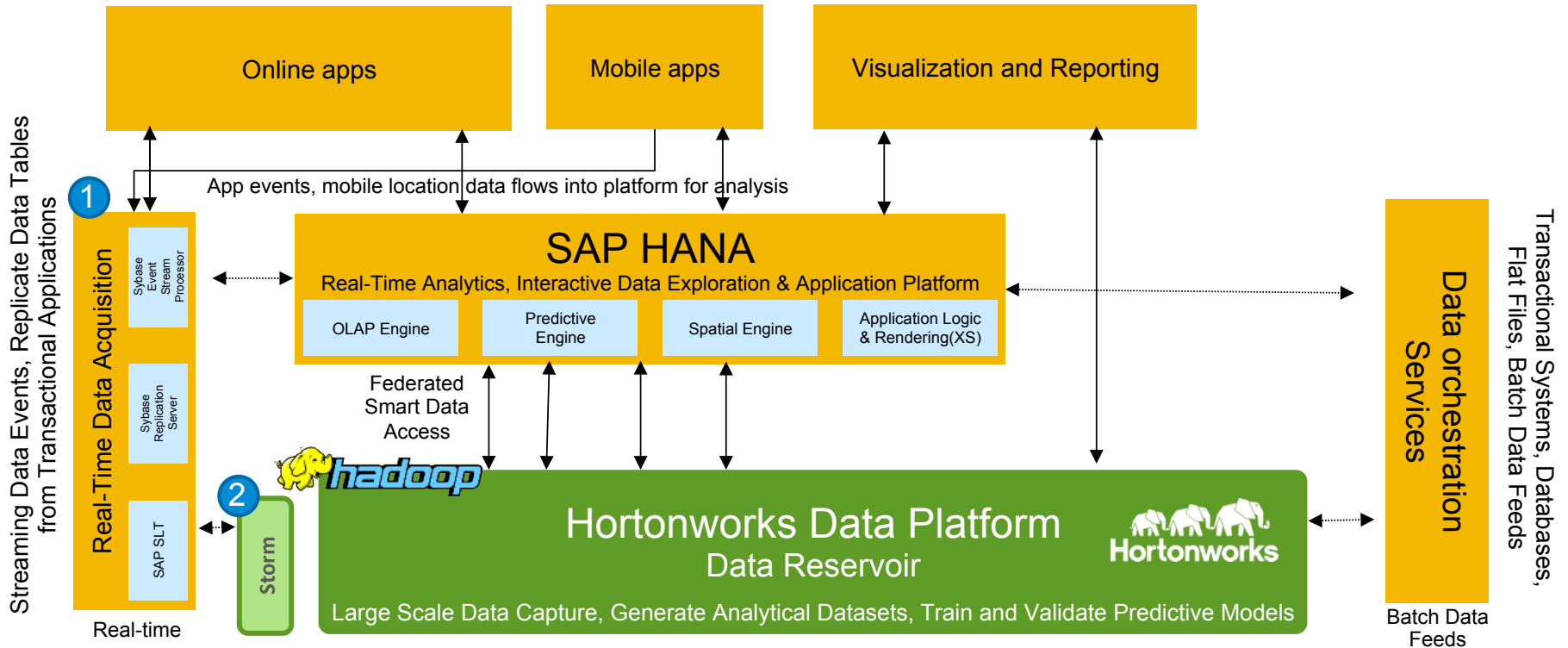
- ▶ Low Latency ingestion of data from operational systems
- ▶ Tiered Storage model offers partitioning into Hot-Warm-Cold data during ingestion.
- ▶ On-the-fly transformation for Hot Data can be performed in memory using HANA
- ▶ Off-load pre-processing of data to the Hadoop Platform

Big Data Interactive Data Exploration



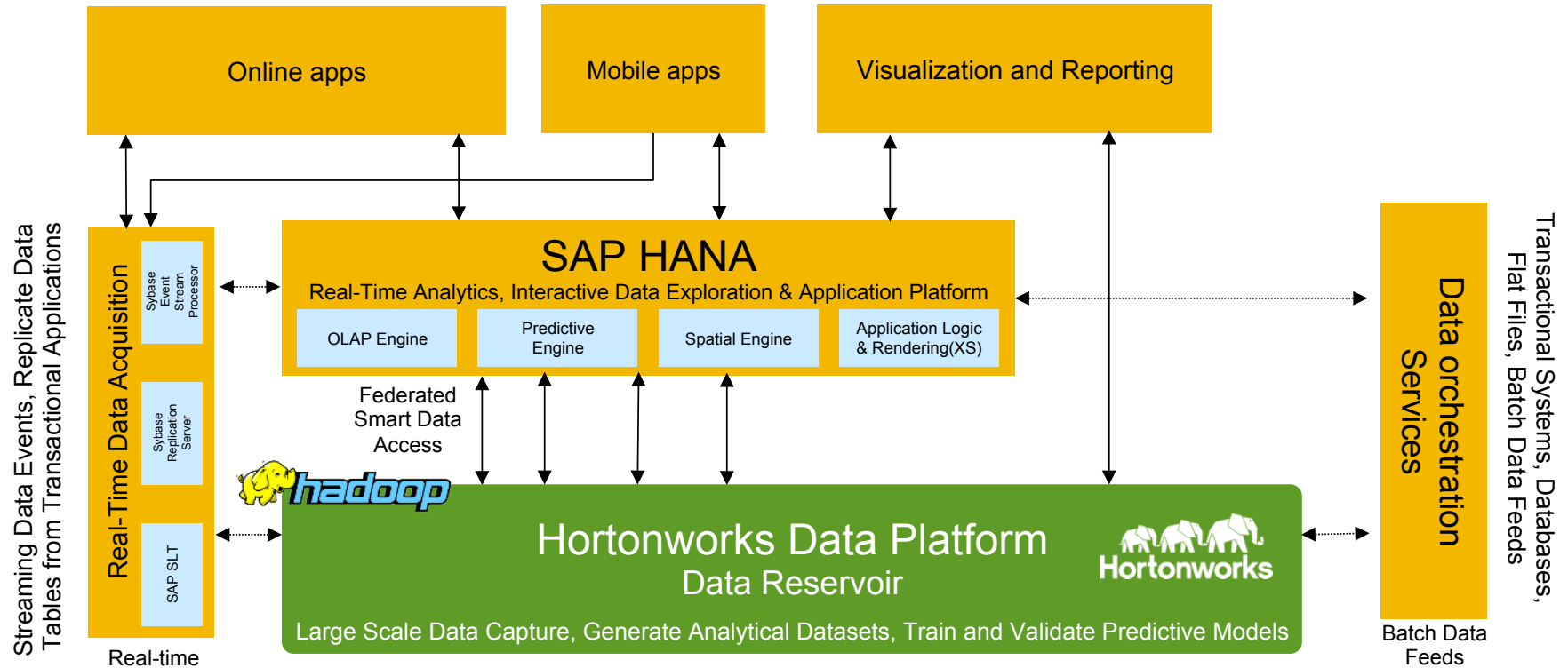
- ▶ Interactive high performance Analytics and Visualization
- ▶ Agile modeling and shorter turn-around on reports & dashboards
- ▶ Exploration of Data in –memory and interactively with Hadoop.
- ▶ Uniform Data Science Experience on in-memory and multi-terabyte data sets

SAP/Hortonworks Real-Time Stream Processing



- ▶ Real-time ingestion from operational systems, sensors and smart devices
- ▶ Pattern detection, anomaly detection and streaming analytics on data in flight.
- ▶ Scalable storage for offline model tuning and data science.
- ▶ Instant visibility across operations and corporate functions

SAP/Hortonworks Real-Time Insights and Models



Real-Time Data Ingestion

Real-Time Response

Close-Looped Analytics

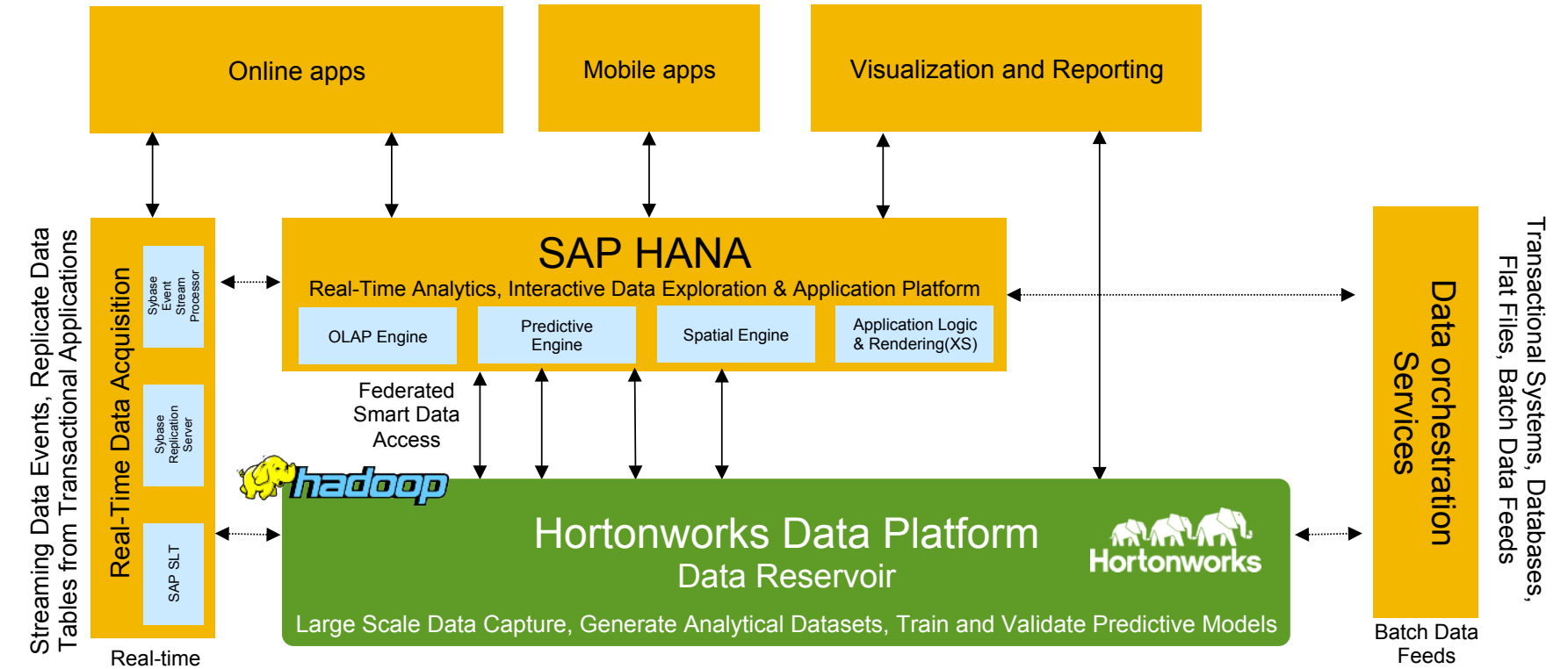


Real-Time Recommendation Applications

Inline Predictive Analytics for Transactional Applications

Smart Mobile Applications

SAP/Hortonworks Real-Time Big Data Architecture



Real-Time Data Ingestion

Real-Time Response

Close-Looped Analytics



Real-Time Recommendation Applications

Inline Predictive Analytics for Transactional Applications

Smart Mobile Applications