# A Self-Service Big Data Platform

## with Kyligence Enterprise® and Kyligence Insight®

Technology Solution Overview

### Challenges

- Big data analysis is inefficient
- Poor ease of use
- Ubiquitous Data Silos
- High cost / vendor lock-in

### Kyligence Enterprise + Kyligence Insight

- High performance
- High concurrency
- Unified semantic layer
- Open platform architecture
- Drag and drop experience

As big data technology has matured, more enterprises have built out their big data platforms, realizing digital transformation. While a big data platform is part of the modern architecture, enterprise Business Intelligence is another critical piece of the puzzle that has continued to evolve. Through this transformation, IT managers are having difficulty selecting the right analytics tools that work with big data technologies, and which are expected to both improve performance and provide more value to the business.

## Challenges

**Low Analysis Efficiency:** Traditional BI was not designed to handle the current era of big data. Supporting self-service analysis with massive TB or PB data sets, especially in complex scenarios, has become far too difficult.

**Poor Usability:** The plethora of modeling thresholds and product modules make traditional BI difficult for independent departments. Reliance on IT becomes drastically increased for business data validation, eliminating the possibility of self-service.

**Ubiquitous Data Silos:** Analyzing large volumes of disparate data could take hours or even days, and the different BI systems could have no consensus on the business logic. This hinders enterprises from addressing use cases, and can increase costs for investigating and reconciling differences among the data silos.

**High cost / Vendor Lock-in:** Many vendors for traditional reporting tools offer upstream and downstream software, but getting the best results often requires their full-service application, and cost can become very difficult to control.

As a service department, IT needs unified governance, management, and control, in addition to providing strong performance and open capabilities. IT must also provide flexible and open data services for business departments, making data more easily accessible and uncovering more business value in the data platform.

## Solution

Kyligence Enterprise with Kyligence Insight is the perfect product combination to meet the needs of both IT and business, efficiently. Kyligence Enterprise provides the optimized, high-performance query engine needed to support today's exploding data volumes. Kyligence Insight is the unified self-service workspace providing a single source of truth, breaking down data silos with a semantic layer for enterprise data.
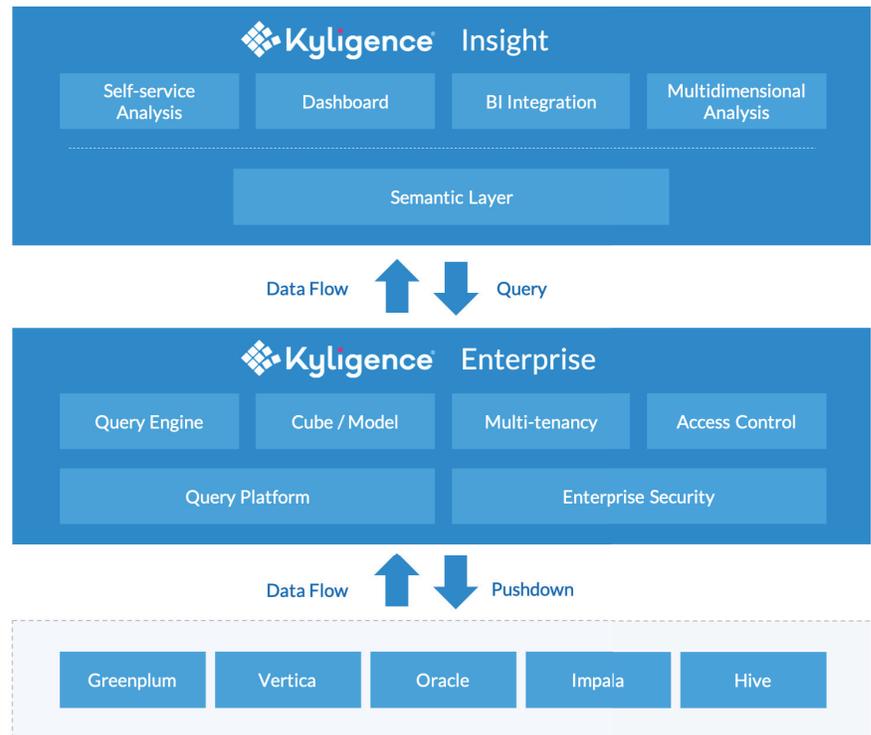
## Kyligence Enterprise

- Intelligent high performance
- High concurrent query engine
- Data management system
- Security control
- Multi-tenant architecture
- Simplified data development

## Kyligence Insight

- Unified semantic layer design
- Complex data modeling
- Simple data analysis services

**Kyligence Enterprise:** IT can easily enable thousands of employees to conduct highly-granular analytics, across the organization. With high concurrency on a distributed platform, IT can meet the needs of every line-of-business (LOB), supporting the decision-making process from top to bottom.

**Kyligence Insight:** IT can easily define time-based calculations, hierarchies, and many-to-many relationships on a unified semantic model. Business users can easily consume advanced calculations using the BI tool of their choice, including the most popular tools. Users can also take advantage of agile data analysis tools and light-weight visualizations to conduct multidimensional analysis.

**Kyligence Insight**

| Self-service Analysis | Dashboard | BI Integration | Multidimensional Analysis |

| Semantic Layer |

Data Flow ↑ ↓ Query

**Kyligence Enterprise**

| Query Engine | Cube / Model | Multi-tenancy | Access Control |

| Query Platform | Enterprise Security |

Data Flow ↑ ↓ Pushdown

| Greenplum | Vertica | Oracle | Impala | Hive |

## Next Steps

Schedule a short conversation with a member of our team to learn how Kyligence can address your specific challenges. Visit our website and fill out the request form at https://kyligence.io, or send an email to info@kyligence.io.

## About Kyligence

Kyligence Inc. is the company accelerating productivity with managed data services – on-premise to multi-cloud. Kyligence provides an AI-augmented data platform for analysts and data engineers, automating data management, discovery, interaction, and insight. Kyligence was founded by early contributors to Apache Kylin, and the Kyligence platform is being used by over 1,000 organizations around the globe, with many leading enterprises among them.