Capturing and processing big data isn’t easy. That’s why Apache products such as Spark, Kafka, Hadoop, and NiFi that scale, process, and manage immense data volumes are so popular. The drawback is that they do not make data flows easy for business users to access, optimize, and analyze. Kylo™, from Think Big, overcomes that challenge. It lets businesses easily configure and monitor data pipelines in and through the data lake so users have constant access to high quality data. It also enhances data profiling and discovery with extensible metadata.

**The Solution That Literally Means Data Flows**

The name Kylo™ is the Greek phonetic name for flow. Kylo™ solves critical problems of data pipeline control across complex big data production environments. It links together world-class engineering and data science control frameworks to solve critical analytics operational challenges. For example, a telecommunications company that was using Think Big's Velocity™ Services implemented Kylo™ after a large team of 30 data engineers spent months hand-coding data ingestion pipelines. Using Kylo™, one individual was able to ingest, cleanse, profile, and validate the same data in less than a week. Kylo™ not only improved efficiencies, it allowed those engineers to focus on other business priorities.

Kylo™ works with all flavors of Apache open source technologies. This gives businesses the flexibility to choose the programming languages and tools that their analysts are most comfortable and familiar using, including Aster, R, Python, and Scala.

### Business Benefits of Kylo™

**Speed to Market**

+ Kylo™ can accelerate your big data efforts, helping your program stay ahead of the competition.

**Growth Through Innovation**

+ Using Kylo™, the prioritized use cases you select will help deliver business value and new opportunities across your company.

**Improved Quality, Security and Governance**

+ Kylo™ can help increase the quality, security and governance of data, helping meet SLAs.

**Cost Reduction**

+ Kylo™ can help your organization build custom engineered data lakes at a fraction of the usual cost.

### Gain More Business Value from Your Data Lake

In the past, organizations had to choose between an “engineered” data lake using low-level open source components or expensive legacy ETL tools with bolt-on support for Hadoop. Now there’s a better way. Kylo™ makes it possible to leverage high-quality open source technology for data lakes. By enabling orchestration, governance, and management, Kylo™ keeps the data lake from turning into an opaque swamp that delivers little corporate value. It turns data into an asset for the enterprise that leads to optimization of processes and better business planning and success.
Automating Processes Boosts Productivity

Kylo™ is not a traditional IT tool. It’s for all kinds of data producers and consumers including analysts, data scientists, data stewards, and operations. Unlike other big data technologies, Kylo™ can be used to import and access data in a data lake. It offers self-service and data wrangling capabilities, including more than 100 transform functions and a visual SQL builder. Kylo™ can also automate many of the tasks associated with data lakes, such as ingesting, profiling, and monitoring data.

Typically, the process to implement a data feed and then manage, work with, and profile the data takes several weeks. With Kylo™, it only takes hours. This gives analysts a huge boost in productivity and accelerates time-to-value. Kylo™ also lets users integrate new data sources into their data lake, perform transformations, and publish to target systems. In addition, it tracks and records lineage, providing traceability for data objects as they move through or are transformed in the data lake. Analysts can then quickly catalog, discover, and qualify data.

Take Advantage of Open Source

Kylo™ offers an integrated enterprise data lake platform built on open source frameworks such as Apache Spark and NiFi. Analysts, as well as developers benefit from the open source technologies by being able to create and maintain data flows and processing in data lakes. They can also easily scale to accommodate large numbers of data feeds.

Building Future and Growth with Full Lifecycle Velocity™ Services

Working in tandem with our Velocity™ Services, and using Kylo™ as a key deliverable and on-going process within your program, we will reduce overall risk and provide a measurable way to validate your strategic investment. Following our assessment, our full lifecycle Velocity™ approach takes your company through the process of creating a big data strategy to achieve your technical and enterprise goals.

Regardless of what stage your company is at on its big data journey, our Kylo™ and Velocity™ Services will enable you to accelerate speed to market and enhance efficiency while generating tangible returns. The battle-tested methodology enables your organization to extract business value in the following ways:

- **Strategy & Architecture** - Prioritized implementation plan to maximize short and long-term returns.
- **Data Lake Solutions** - Best practices and pre-built components to accelerate time to value.
- **Analytic Solutions** - Building scalable big data infrastructures to meet your future needs.
- **Data Science** - Boosting growth through innovation and modern analytics approaches.
- **Managed Services** - 24/7 expert support empowering continuous improvement.
- **Training** - A comprehensive selection of topical courses delivered by our certified experts.

Success Story

“Discover is focused on leveraging leading edge technology that helps us quickly bring products to market while providing exceptional customer service. Kylo™ has a unique management platform that has the potential to accelerate development and value on new data sources that leverage Apache NiFi.”

Ka Tang, Director, Enterprise Data Architecture, Discover Financial Services

Kylo™ framework simplifies creating and modifying data lakes with security built in. Businesses gain a turn-key data lake solution with an intuitive user interface for self-service data ingest and organization—with no coding required. This overcomes the common data lake challenge of finding people with big data skills to conduct custom development.

Operations and dashboard features offered by Kylo™ allow users to monitor the health of their data lake, read performance reports, and receive alerts about potential problems. These features help the business gain confidence in its data, provide the ability to observe and enforce SLAs, and make monitoring data feeds easier than ever.

Think Big also provides enterprise support for the Kylo™ platform. More information can be found at https://www.thinkbiganalytics.com/kylo