



Big Data on Tap

cask.co



Unified Integration for Data-Driven Applications

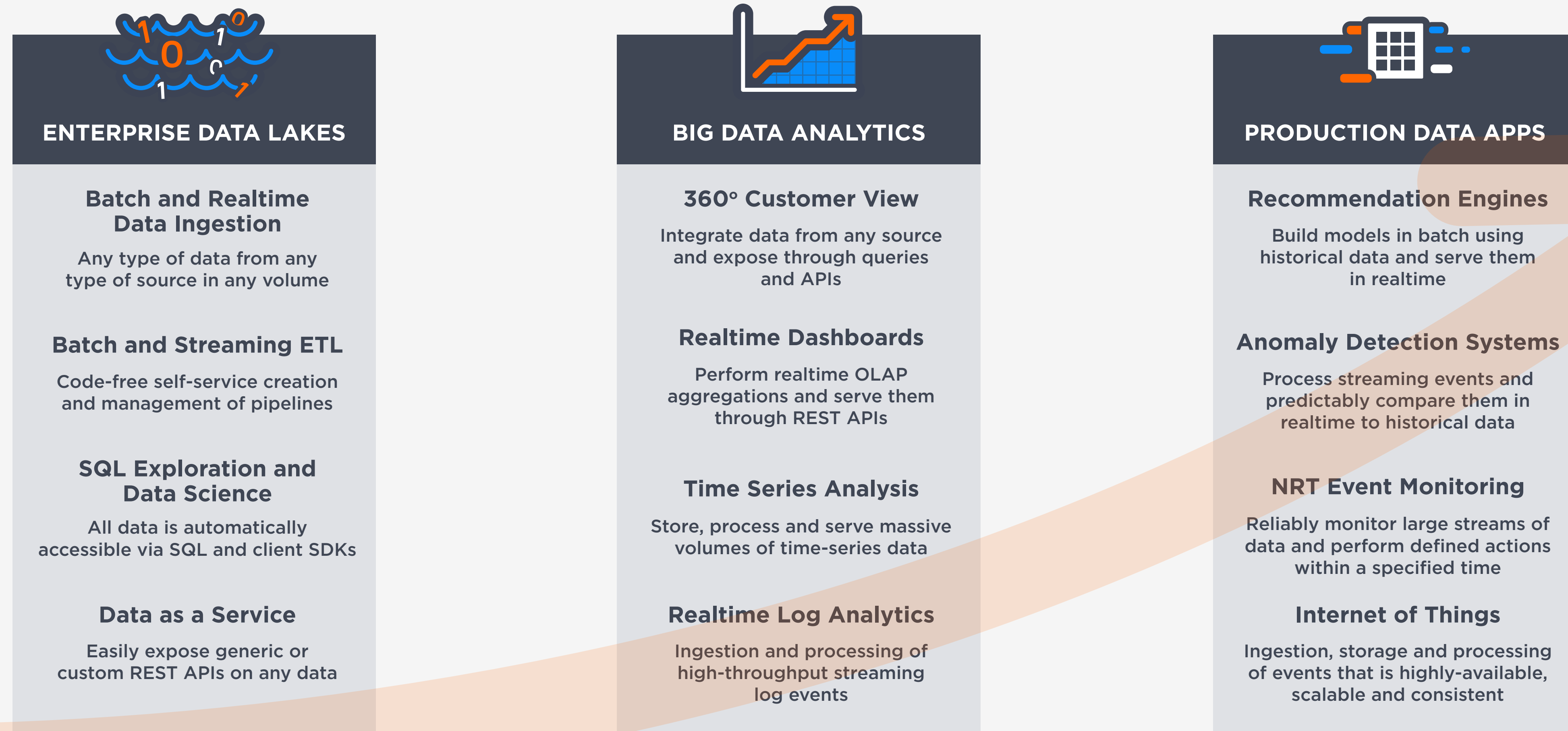


Jonathan Gray

Founder & CEO

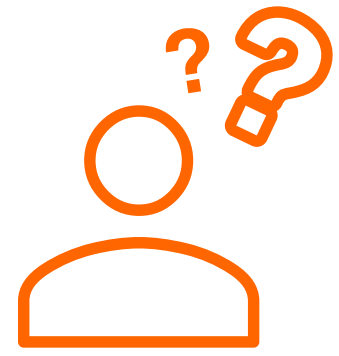
November 7, 2016

Hadoop Enables **New Applications and Architectures**



Data Applications Drive Meaningful Business Value

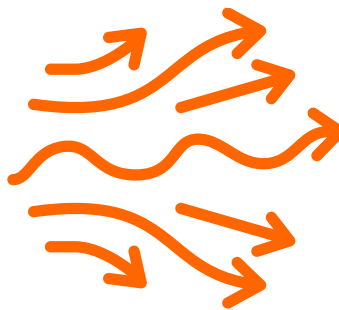
But Getting Value from Big Data is Hard



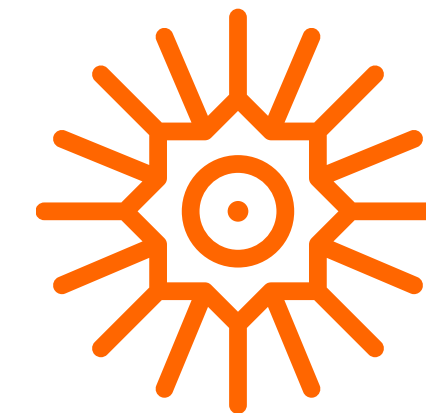
Complexity of technologies and new user learning curve



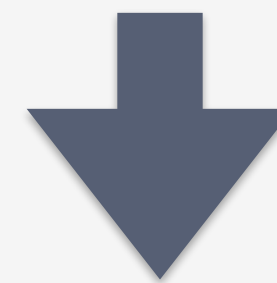
Proliferation of projects, services and APIs



Divergence of distributions and technologies



Integration silos created by narrow point solutions



Too much focus on infrastructure and integration, rather than applications and analytics

And There Are Many Faces of Hadoop

Developer



Architecture & Programming

Focused on Apps & Solutions

Ops



Configuring & Monitoring

Focused on Infrastructure & SLA's

Data Scientist



Scripting & Machine Learning

Focused on Data & Algorithms

LOB / Product



Driving Revenue & Decision Making

Focused on Products & Insights

Without a consistent set of tools, IT will not be an effective data enabler for the business

Enter Cask

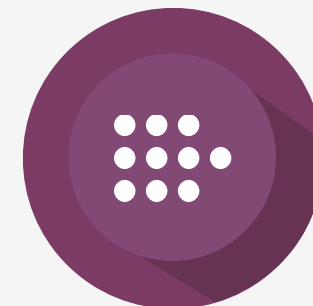
Founded in 2011

By early Hadoop engineers from Facebook and Yahoo!



Strategic Investors

AT&T, Cloudera and Ericsson



Key Customers & Partners

AT&T, Ericsson, Lotame, Salesforce, Cloudera, Hortonworks, MapR, Microsoft, IBM, Tableau...



Why "Cask" ?

A Container Architecture that puts
Big Data on Tap



Raised \$37+ Million

Andreessen Horowitz, Safeguard, Battery Venture and Ignition Partners



Latest Release

3.6 Cask Data Application Platform, Cask Hydrator and Cask Tracker



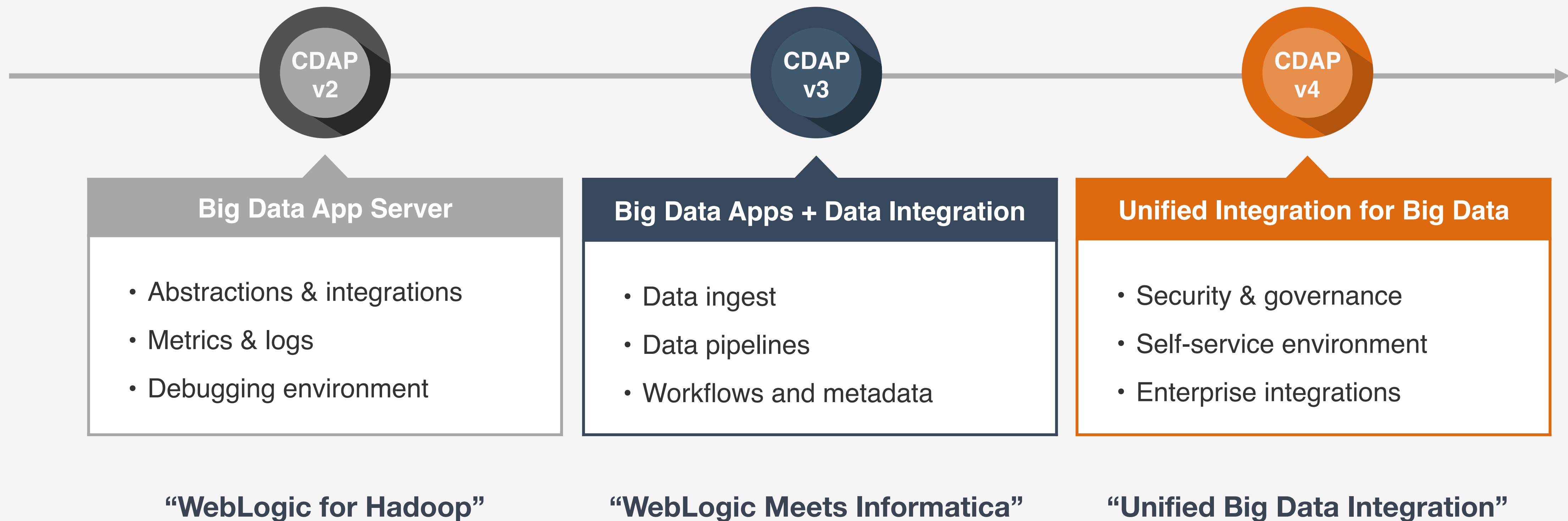
NEW: CDAP 4 Preview

Featuring Cask Market, the "big data app store"



The Evolution of the Cask Platform

Convergence of Big Data Apps and Data Integration



Introducing Cask Data Application Platform (CDAP)

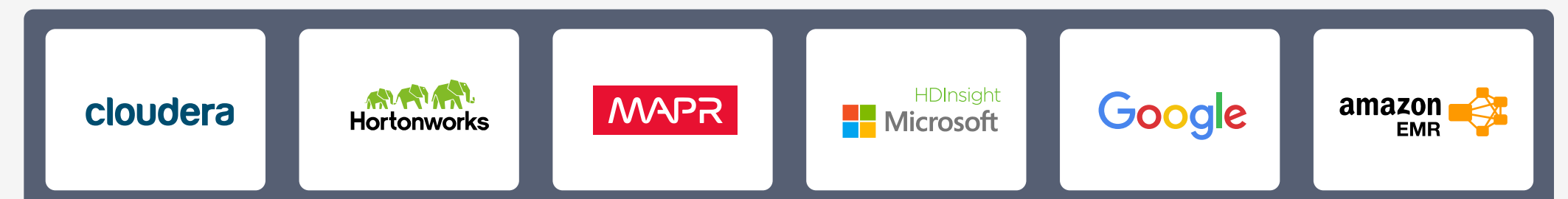


Enterprise-grade Security & Governance

Self-Service User Experience

Distributed Application Framework

Modern Data Integration



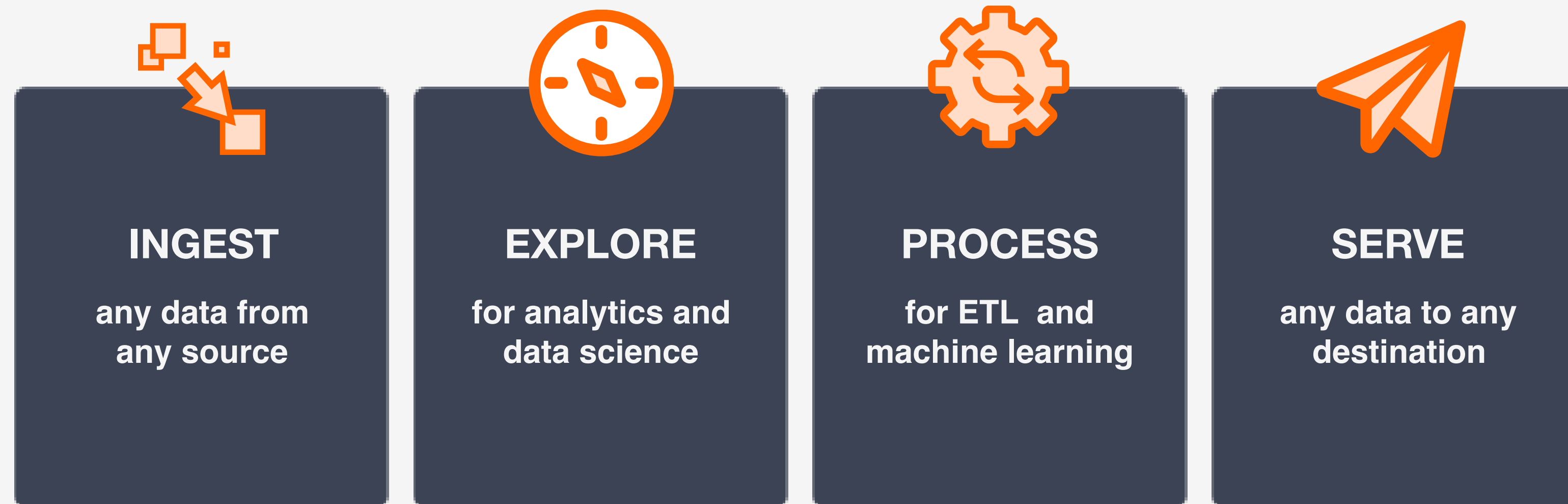
First Unified Integration Platform for Big Data

Platform for distributed apps, bringing together application management with data integration

- 100% open source and built for extensibility
- Supports all major Hadoop distributions and clouds
- Integrates the latest open source big data technologies

CDAP

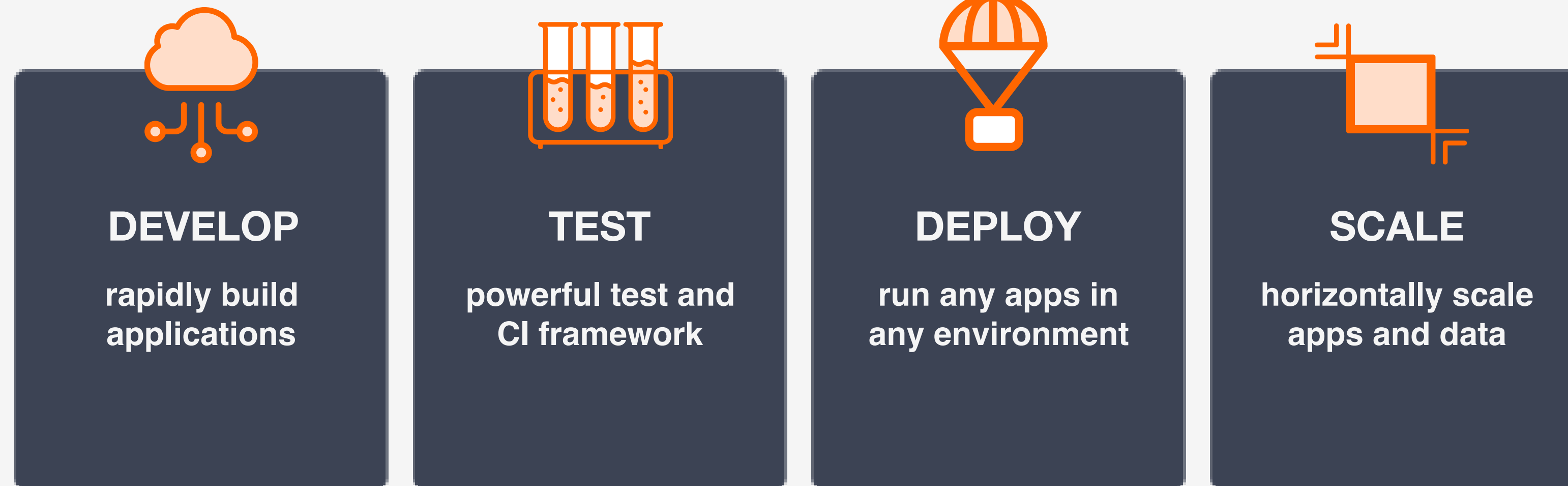
Modern Data Integration



- Real-time and Batch
- Reliable and Scalable
- Simple and Self-Service

CDAP

Distributed Application Framework



- Real-time and Batch
- Memory, Local, Distributed
- Analytics and Applications

CDAP

Security and Governance



CAPTURE

store all metadata
about your data



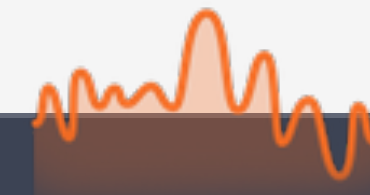
DISCOVER

easily locate any
of your data



TRACK

every audit plus
lineage graphs



ANALYZE

understand usage
patterns of data



ENCRYPT



AUTHENTICATE



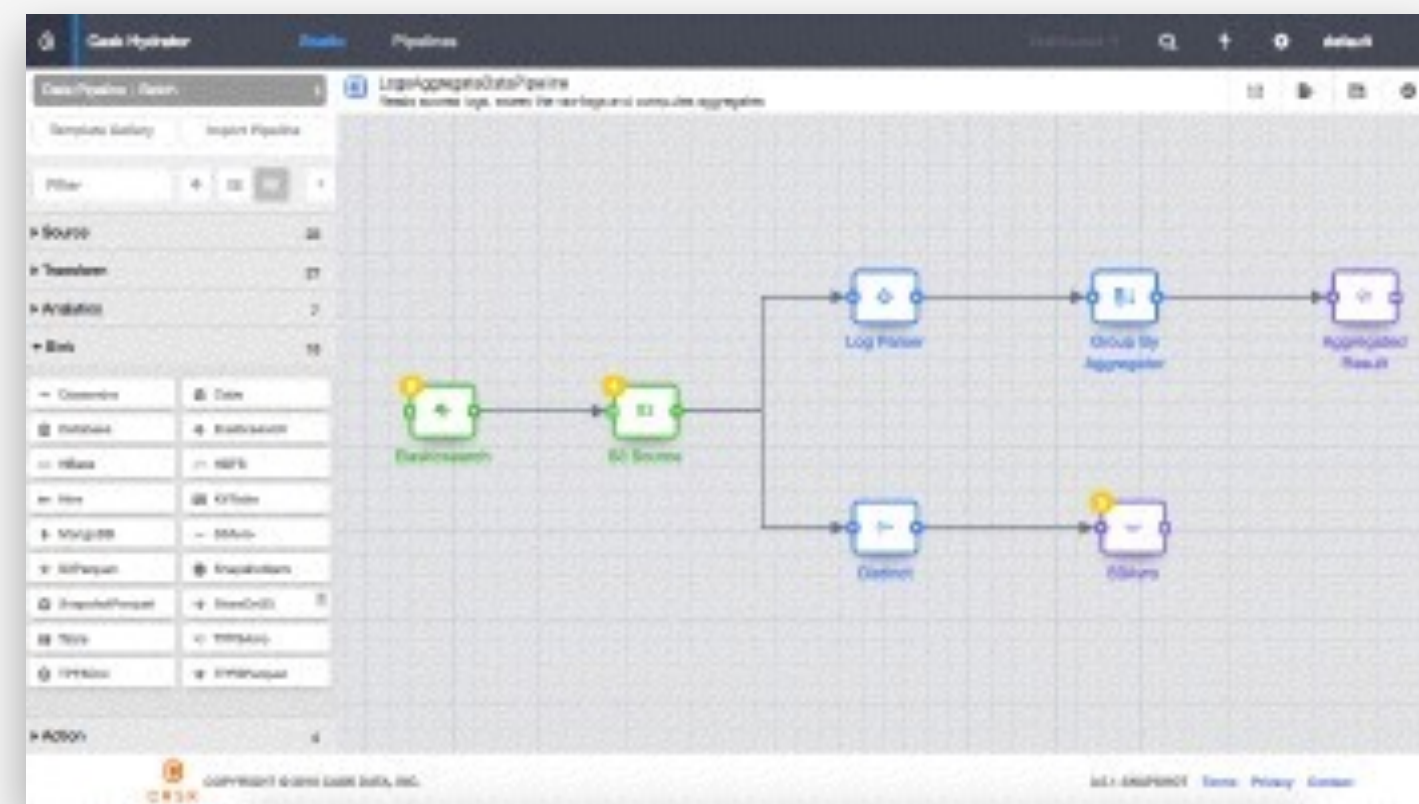
AUTHORIZE

CDAP

Self-Service User Experience



A code-free framework to build and run data pipelines



Drag & drop graphical interface

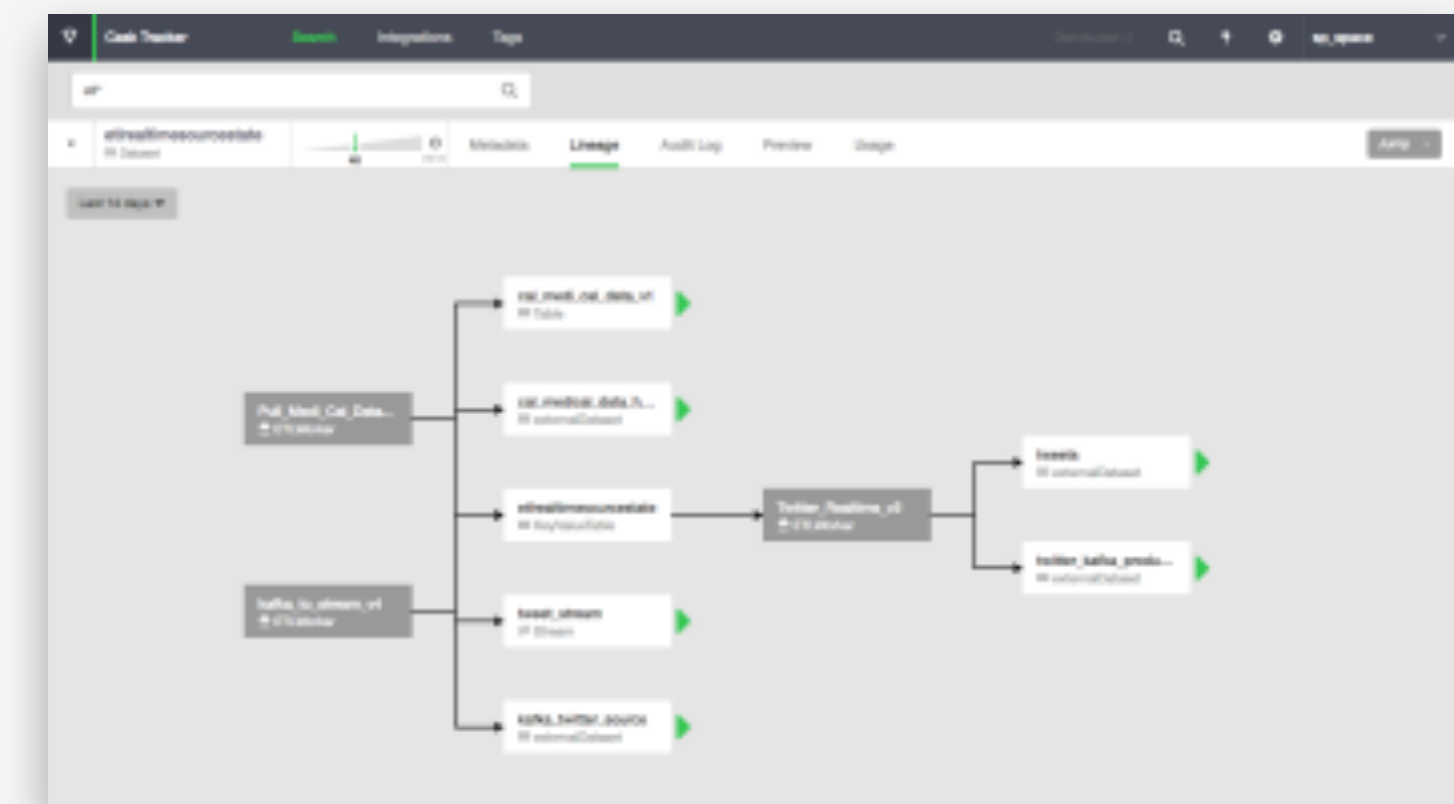
Create, debug, deploy and manage

Separation of logic and execution environment

Native to Hadoop & Spark — scales out



A data discovery tool to explore metadata and usage



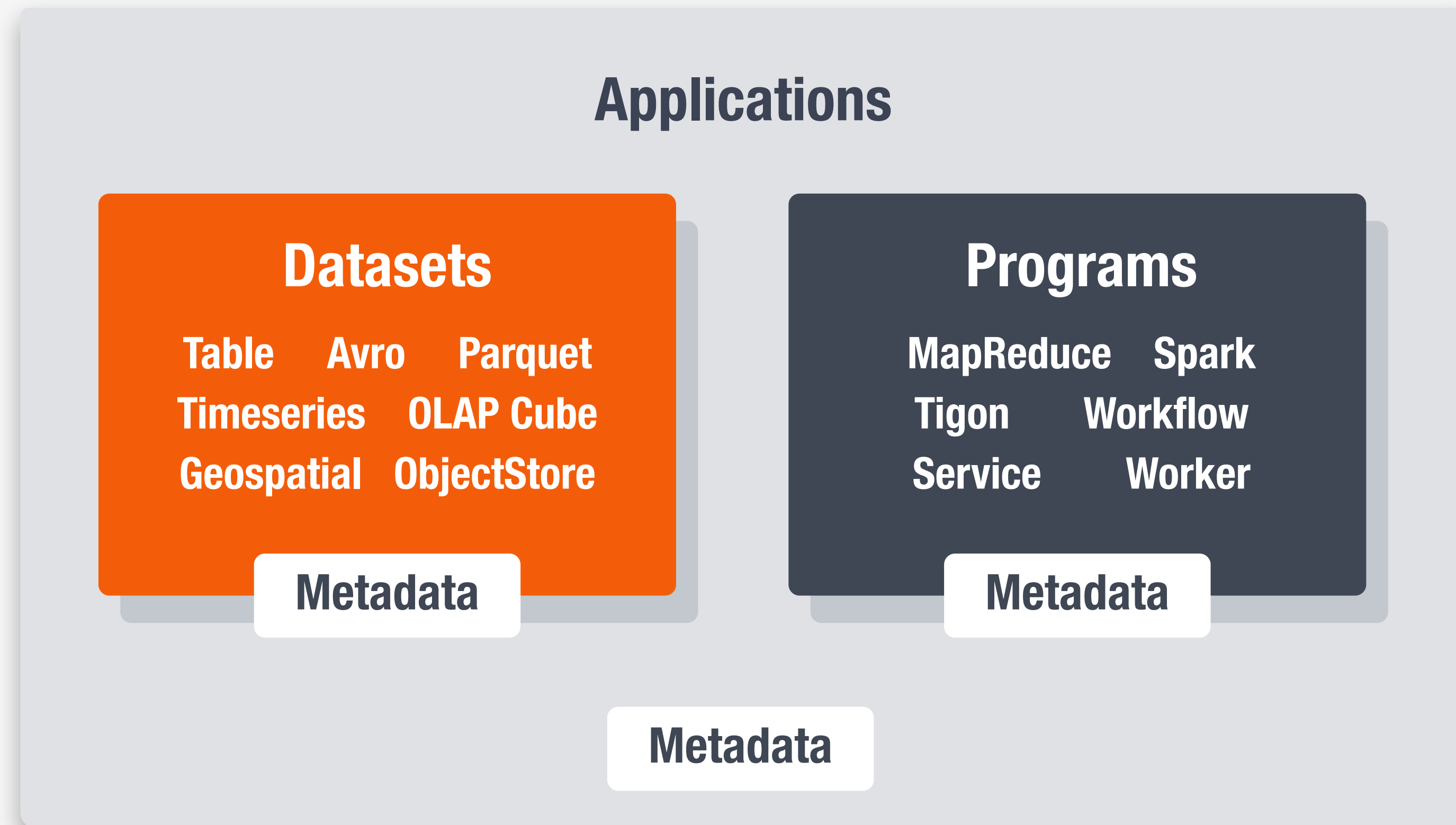
Rich app-level metadata

Track lineage and audits

Analyze usage of datasets

MDM integration framework

The CDAP Architecture



- Application Container Architecture
- Reusable Programming Abstractions
- Global User and Machine Metadata
- Highly Extensible Plugin Architecture

CDAP Enables the Full Big Data Application Lifecycle

- **Standardization**, deep integrations, tools and docs
- **Separation** of app logic from data logic and integration logic
- **Conceptual integrity** within applications and consistency across environments



- **Simplified** packaging, deployment and monitoring of apps on Hadoop
- Enhanced security and governance with **centralized metrics and logs**
- **Tracking and exploration** of metadata, data provenance, audit trails and usage analytics

Single framework for building and running data apps and data lakes on Hadoop and Spark



reduces time to develop and deploy big data apps by 80%

reduces time to insights and accelerates business value

removes barriers to innovation and future-proofs your apps

Customer Success Stories



Health Insurance Provider
offloading clinical / immunization
reporting from Netezza

Lack of existing Hadoop expertise
and frustration with hand-coding
and scripting tools

Cask Hydrator for rapid creation of
data pipelines and Cask Tracker for
data discovery

POC in 2 days
Production in 2 months



Leading SaaS Platform
taking new real-time, massive
scale products to market

Small team and significant
technical challenges limit pace of
development and solution scale

CDAP for real-time ingestion and
consistent processing with
production operations support

Development in 1 month
Production in 3 months



Large Telco Enterprise
building a centralized, secured,
multi-tenant Data Lake

Multiple teams and technologies
with widely varied skillsets and
incompatible design choices

CDAP for data lake management
and orchestration, tightly
integrated into existing systems

Hundreds of Users
Thousands of Pipelines

Customer Situation

Cask Solution

Awards and Accolades



Cask was Named a
Gartner Cool
Vendor 2016



Cask was Certified a
Great Place to Work 2016



“ ... **CDAP is a big win for us** ... the amount of code we needed to write was minimal with CDAP, and it was much easier and faster than we ever expected ...”

(Jia-Long Wu, Data Architect, Lotame)



“ ... **Cask has tilted the playing field**, earning a massive unfair advantage over proprietary point products for data integration and ingest ...”

(Nik Rouda, Senior Analyst, Enterprise Strategy Group)



“ ... for the rest of us who lack the technological chips or patience to make it all work, there’s good news: it will soon get easier, **thanks to** the work done by the big data pioneers, as well as **vendors like Cask** ...”

(Alex Woodie, Managing Editor, Datanami)

NEW: CDAP 4 — Big Data Apps on Tap!

Release of CDAP 4 Preview

Available for download now!



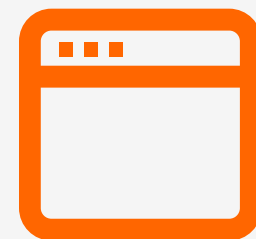
Cask Market

“Big Data App Store”



Cask Wrangler

Interactive Data Preparation



Reimagined CDAP UI

Rewrite based on React



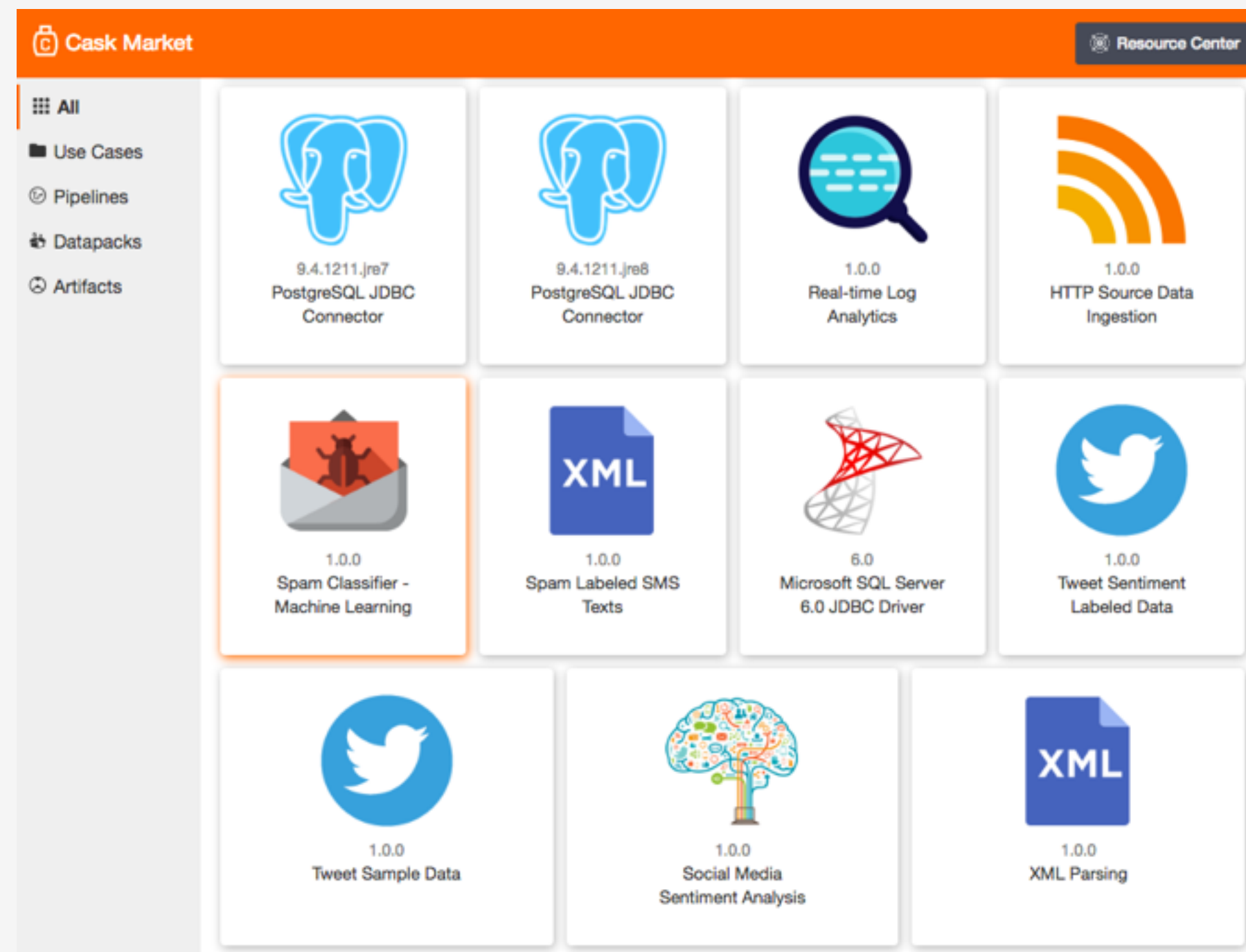
Resource Center

Interactive Wizards for Common Tasks

NEW: CDAP 4 – Big Data Apps on Tap!

Cask Market

The “App Store for Big Data”



- **Goal: Time to value in minutes w/ no existing experience**
- Application and Library Ecosystem with pre-built Hadoop solutions, reusable templates, and third-party plugins
- Available from anywhere inside the CDAP UI with a click

- Initially, everything in the Cask Market has been bootstrapped by Cask based on ongoing work across our customers, is 100% open source and available on GitHub
- Eventually, developers and ISVs will be able to showcase and market their own applications and libraries (ex: Graylog)

Cask Market includes Interactive, Guided Wizards for Configuring Pre-Built Templates

Summary

- CDAP provides the **first unified integration platform for big data**
- Cask Hydrator and Cask Tracker are visual extensions of CDAP for **self-service access**
- CDAP empowers enterprise IT to deliver **faster time to value** for Hadoop and Spark, from prototype to production
- **Cask Market** is a “big data app store” available in CDAP 4 with pre-built apps, pipelines, plugins
- CDAP is **100% open source**, highly extensible, enterprise-ready, and commercially supported



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Thanks!



For more information, go to: cask.co