

The background of the slide is a composite image. The top half shows a bright blue sky with scattered white clouds. Below the sky is a dense forest of tall, thin evergreen trees. The bottom half of the image is a green-tinted overlay of server racks, which are reflected in a body of water, creating a symmetrical effect.

 Codex Datalake Engine

Delivering business insights across the data lifecycle

Codex Datalake Engine is Cloudera CDP certified

CLOUDERA

Atos

Context and challenges of customer

As data volume grows exponentially both in volume and formats across multiple infrastructures from cloud to on-premise, getting value from data becomes more challenging. There are several core challenges that an organization must address to get maximum business value from their data.

Challenge #1 Harmonize data governance, security, management and control

Security and management policies are difficult to implement across your different data stores and moving data is often not possible: for practical reasons, like too large in volume, too costly to move or impossible to ensure the latest version across multiple locations; and often for principle reasons such as compliance restraints.

Challenge #2 Standardize the processes used for analytics across the organization

The processes for analyzing the data are difficult to harmonize consistently across the organization, no matter the whereabouts or type. Without a consistent view, data science modelling capabilities are restricted in interrogation approaches in their effectiveness and ability to re-use across the organization.

Challenge #3 Leverage data stored in silos across the business

To industrialize the use of data and insights out across the organization at scale can be impossible to achieve with silos commonly built up from different data stores.

Organizations overcoming these challenges will be able to glean insights from complex and intense data. A hybrid datalake infrastructure is highly scalable in modular environments, capable of supporting extremely large data volumes and formats. It provides consistent and reliable security, governance, lineage, management and automation across these stages irrespective of the data type or data state.



Overview of Codex Datalake Engine & Cloudera CDP

Codex Datalake Engine is a turnkey solution (preconfigured, scalable, easy-to-use and fully virtualized solution). It helps customers focus on solving business problems. It is cost & energy effective with minimal administration. As a result, organizations spend less time installing, tuning, operating, troubleshooting, patching, upgrading, and dealing with integration, adoption of technologies and scale-related issues.

Codex Datalake Engine is delivered as a turnkey solution that features BullSequana S and SA20, two of the most agile, scalable and open servers. With their dynamic reconfiguration capabilities, BullSequana S and SA20 server, powered by AMD processors, combine exceptional performance with unprecedented levels of agility and efficiency.

Codex Datalake Engine is Cloudera certified and uses Cloudera CDP for data life cycle management.

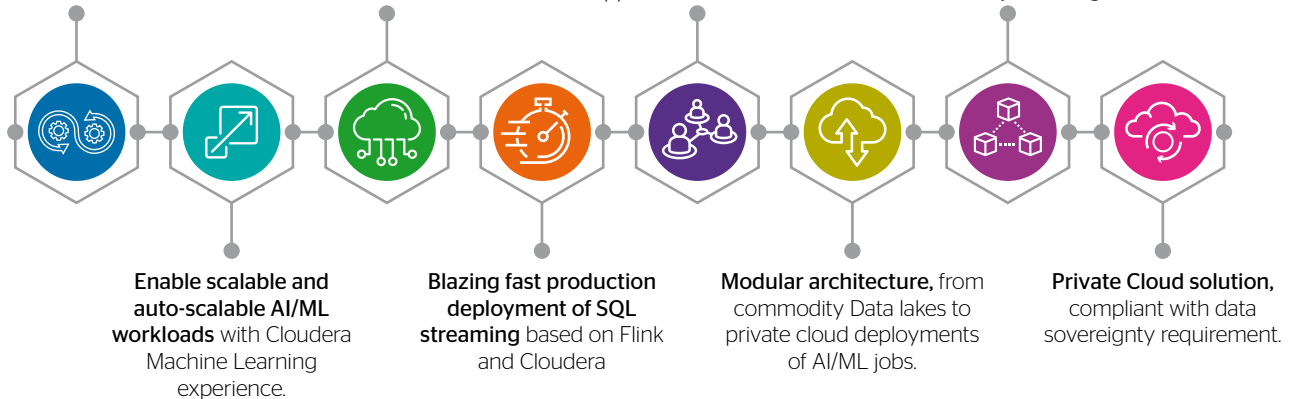
Focus on Codex Datalake Engine

End to end offering: from consulting, architecture, configuration, migration service up to deployment of the hybrid data platform including BullSequana S series high performing servers.

Cloud workload elasticity brought on private infrastructure with Cloudera CDP Private Cloud Experiences based on Kubernetes.

Diversity & versatility of hardware components (up to 128 hyperthreaded cores per server, 10 to 100Gbps networking, wide range of supported Nvidia GPUs).

Support multiple scalable storage backends (classic HDFS to object storage).



Cloudera CDP

With the Cloudera Data Platform – the industry's first Enterprise Data Cloud, the field of possibilities of analytics on any Cloud is widened - enabling the speed and agility the business wants with the security and governance the enterprise demands. CDP is an integrated data platform that is easy to deploy, manage, and use. It delivers powerful, self-service analytics across hybrid and multi-cloud environments with the granular security and governance policies that IT leaders demand. CDP is a new approach to enterprise data that delivers a full range of analytic capabilities from the Edge to AI.

Benefits of Codex Datalake Engine & Cloudera CDP is different from other data platforms and analytics services in four important ways:



TTM - lightspeed Time-To-Market, from procurement to production use-cases. Reduce cost for architecture, automation, and resources management.



Open - is 100% open source, open compute, open storage and open for integration - enabling rapid innovation and protecting organizations from vendor lock-in.



Multi-function - Reduces the time and effort to deploy common application types with five new self-service experiences: flow & streaming, data engineering, data warehouse, operational database, and machine learning. No matter Data Engineers, Data Analysts, Data Scientists, Data Stewards, ...



Secure and Governed - Simplifies security, privacy, and compliance for diverse enterprise data on any cloud through shared data experience (SDX) technologies. SDX makes it easy to create a secure data lake in hours instead of weeks and replaces tedious scripting with "set it and forget it" convenience.

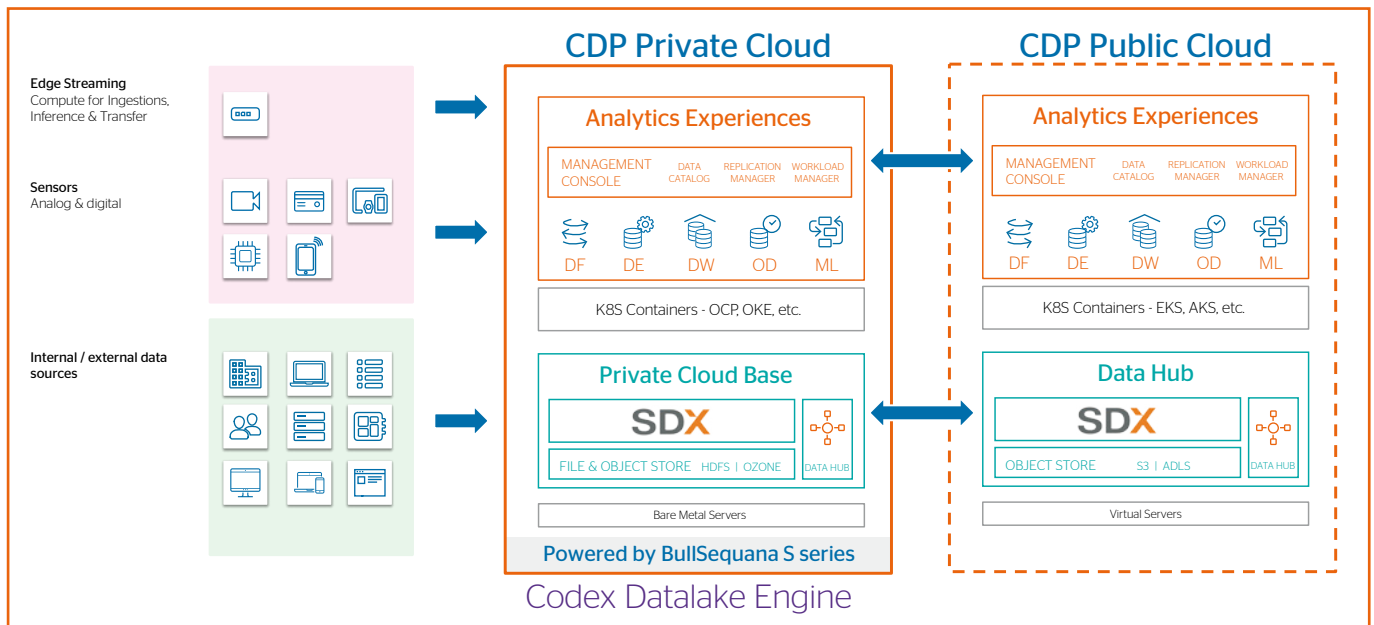


Any cloud - Provides maximum choice and flexibility with the option to manage, analyze, and experiment with data on-premises, in hybrid, private cloud, and multiple public cloud environments.



Together, Atos and Cloudera are committed to bringing world-class hybrid solutions to market.

Architectural Diagram



Why Atos and Cloudera Partnership

Cloudera provides a scalable, flexible, integrated platform that makes it easy to manage rapidly increasing volumes and varieties of data. Codex Datalake Engine is Cloudera certified. It is the result of a joint effort between Atos and Cloudera to achieve a solid and trustworthy data architecture and deliver the most complete, secure, industrial and qualified data lake solution on the market.

About Atos

Atos is a global leader in digital transformation with 105,000 employees and annual revenue of over € 11 billion. European number one in cybersecurity, cloud and high performance computing, the Group provides tailored end-to-end solutions for all industries in 71 countries. A pioneer in decarbonization services and products, Atos is committed to a secure and decarbonized digital for its clients. Atos operates under the brands Atos and Atos|Syntel. Atos is a SE (Societas Europaea), listed on the CAC40 Paris stock index.

The [purpose of Atos](#) is to help design the future of the information space. Its expertise and services support the development of knowledge, education and research in a multicultural approach and contribute to the development of scientific and technological excellence. Across the world, the Group enables its customers and employees, and members of societies at large to live, work and develop sustainably, in a safe and secure information space.

Find out more about us

atos.net

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Let's start a discussion together



Contact us

To start your journey your private or hybrid cloud journey with Atos and Cloudera please contact:

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Additional resources

E&U



[Case study](#): Forecasting gas stocking processes for nationwide energy infrastructure enterprise

Health



[Web page](#)

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