

PHEMI Central[™] Big Data Warehouse

Product Description

PHEMI Central Big Data Warehouse — Collect, Curate, and Consume Data with Privacy, Security, and Governance

For the first time, organizations that need to protect and govern the use of their information can take advantage of big data technology to access, catalog, and analyze their digital assets at scale.



Table of Contents

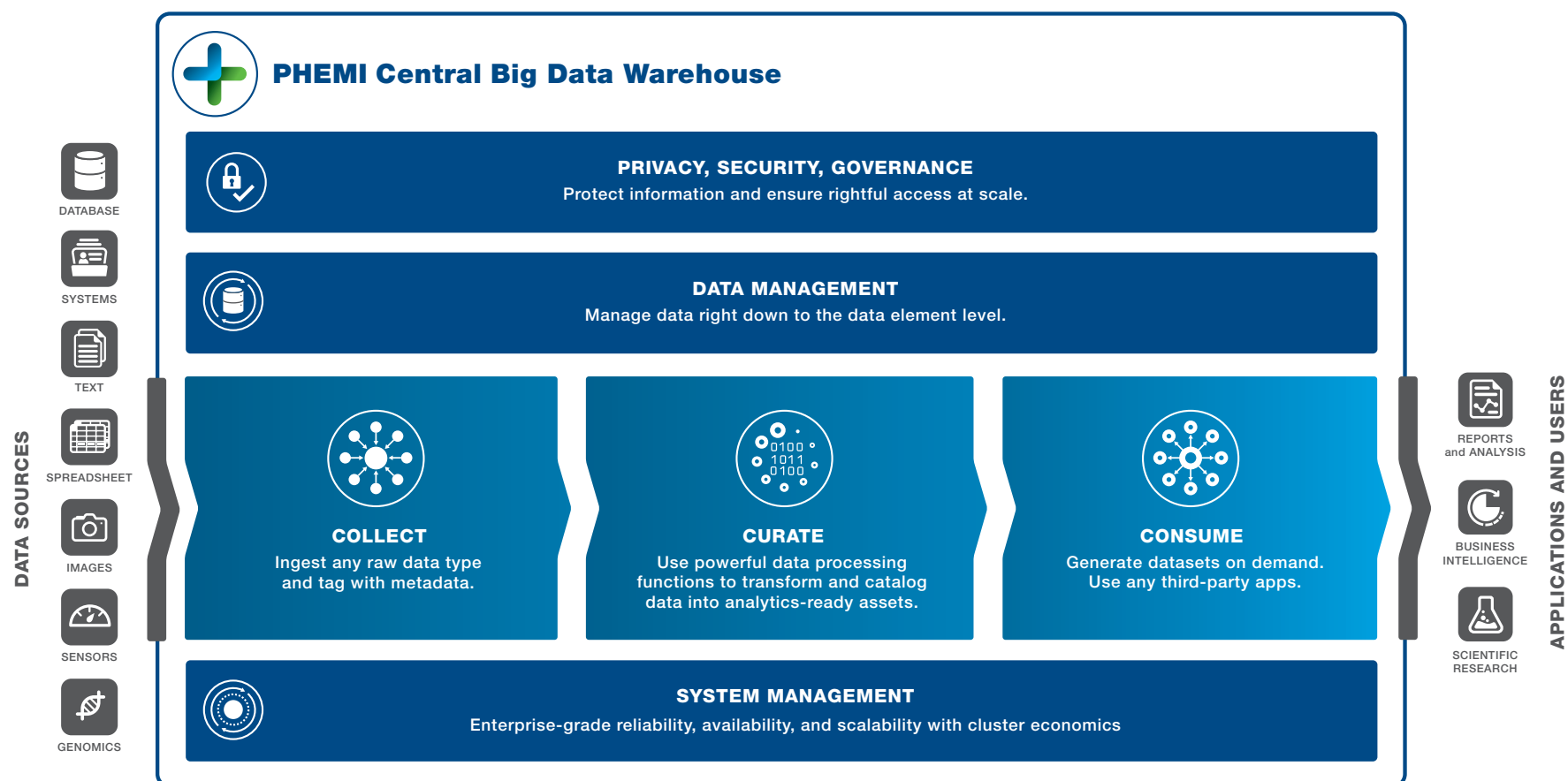
PHEMI Central Big Data Warehouse.....	1
PHEMI Central — Unlocking the Power of Your Data	2
Collecting Data.....	3
Curating Data.....	6
Consuming Data	8
Privacy, Security & Governance	12
Data Management.....	14
System Management	17
Applications	19
Enterprise Information	21
Healthcare.....	26
Public Sector.....	29
Deployment Options for PHEMI Central	32
Why PHEMI Central for your needs?	37
About PHEMI / CTA	40

TO BE
UPDATED
& ACTUAL
PAGE #S
TBD

PHEMI Central Big Data Warehouse

Collect, Curate, and Consume Your Data with Privacy, Security, and Governance

PHEMI Central is a new class of data warehouse that uses big data technologies allow your organization to collect, curate, and consume of any volume and variety of data, while meeting, at scale, your organization's standards for data management and governance.



Other big data platforms make use of Hadoop's distributed file system capabilities. But unlike conventional Hadoop platforms, PHEMI Central is a fully integrated solution that integrates the Hadoop ecosystem with industry-pioneering privacy,

security, and governance features and sophisticated indexing, cataloging, and data management features—integrating the power of big data with research and business analytics and enterprise information management.

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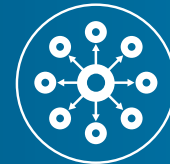
COLLECT

PHEMI Central can collect virtually any kind of data—structured (such as database records), semi-structured (such as Microsoft Excel or genomic files) or unstructured (such as images, machine-collected data, or documents). Data can be ingested and aggregated from multiple disparate sources. During collection, PHEMI Central tags each raw data item with user-defined metadata, then stores the tagged raw data in PHEMI's fast, powerful data store. The data store is key-value-based and schemaless, so data can be ingested without complex or brittle schema-mapping exercises.



CURATE

PHEMI Central's powerful data store automatically indexes and catalogs all ingested data, so that even the raw data becomes a digital asset. Then PHEMI Central executes user-specifiable data processing functions to cleanse, parse, and structure the data—transforming the raw data into analytics-ready digital assets. Transformations include sophisticated cataloging and indexing, graphs, and tags for quickly finding specific digital assets within petabytes of data. Transformation also applies privacy and sensitivity tagging per individual cell of data. With PHEMI Central's audit, version control, and rollback features, the result is full governance of findable, manageable digital assets ready for queries by users and consumption by applications and analytics tools.



CONSUME

PHEMI Central allows you to build datasets on demand without having to manage multiple data marts or complex MapReduce or YARN processes. Whether the dataset is consumed by a user or exported to an application or analytics tool, PHEMI Central strictly enforces your organization's privacy and security policies to ensure appropriate access to data.

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Privacy, Security, and Governance

PHEMI Central manages crucial aspects of privacy and security such as data encryption, audit logs, and data validation. Privacy and security are designed in from the ground up to be able to accurately reflect your organization's governance policies.



Data Management

PHEMI Central's data management features allow you to manage your organization's data according to the privacy and access policies that govern digital assets being managed within PHEMI Central.



System Management

PHEMI Central runs on commercial servers and commodity disk drives, driving down hardware costs and allowing the system to scale to petabytes without SAN/NAS costs or performance bottlenecks. Automatic replication and load balancing means data is always available and performance is optimized across system nodes.