



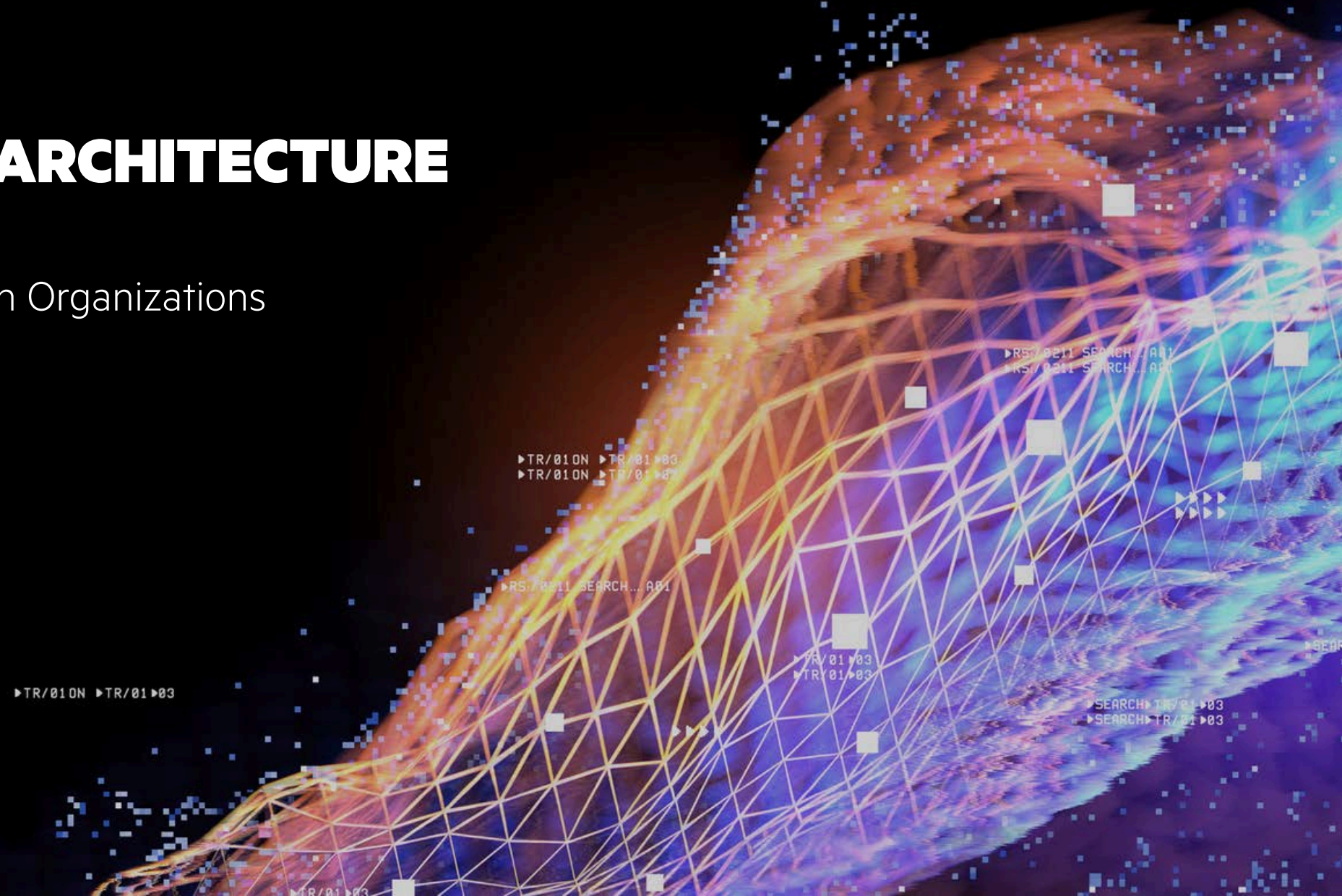
**Hewlett Packard
Enterprise**

DATA CENTRIC ARCHITECTURE



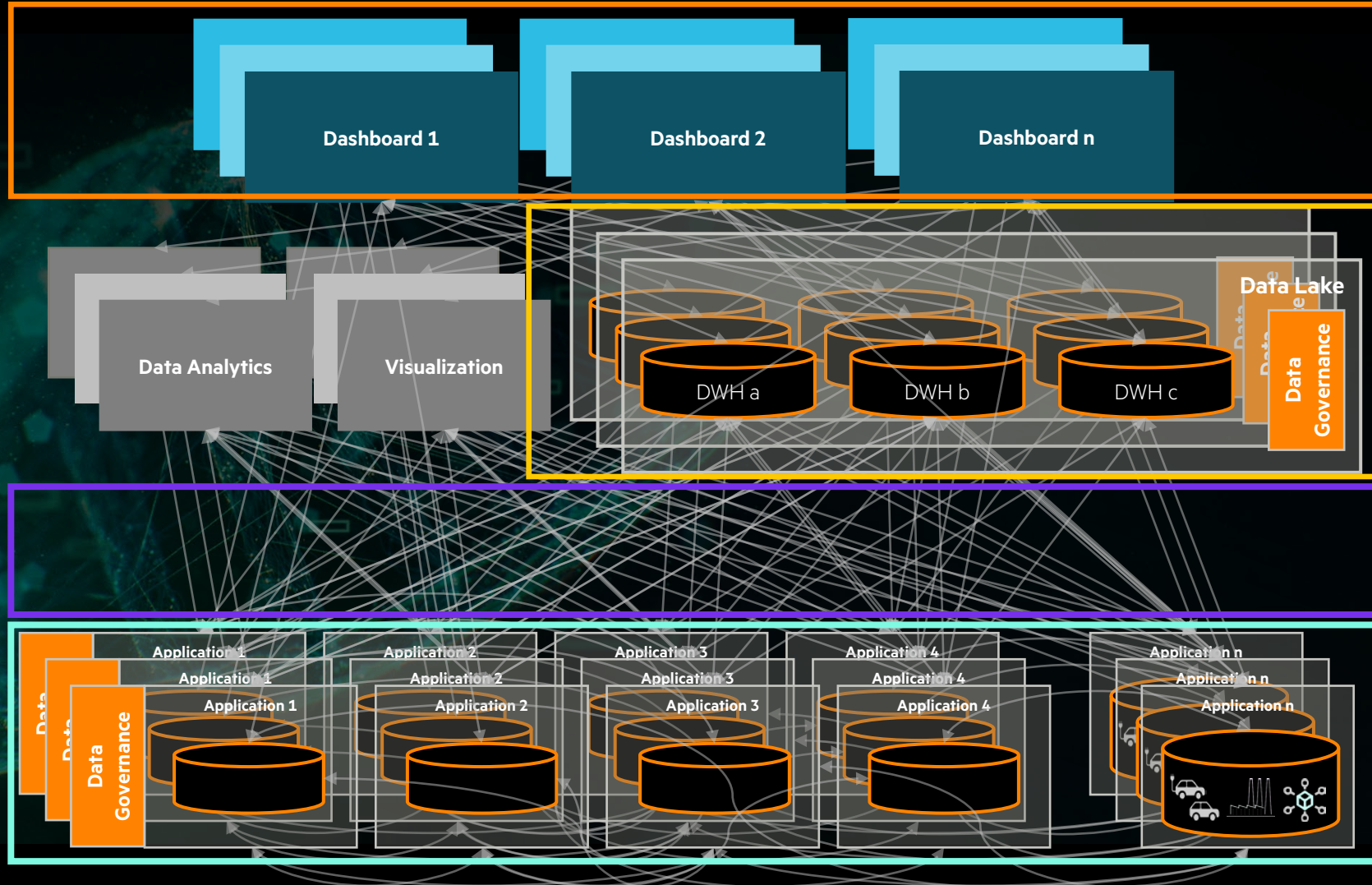
An Enabler for Data Driven Organizations

HPE Business Solution Group
April 27th 2021



DATA ANARCHY

Multi Silos



Dashboards

Data Lake

Connectors

IoT & Applications

PAINPOINTS

of existing data architectures

Pain Points: Existing Architectures

Data Access is **difficult**. No clear view on where the relevant data reside and how they can be accessed.

Untrusted data due to low data quality, limited protection and missing metadata management

Implementation of interfaces **drives costs** and **hinders agility**

Data existence in silos **hinders value generation** through Advanced Analytics/AI

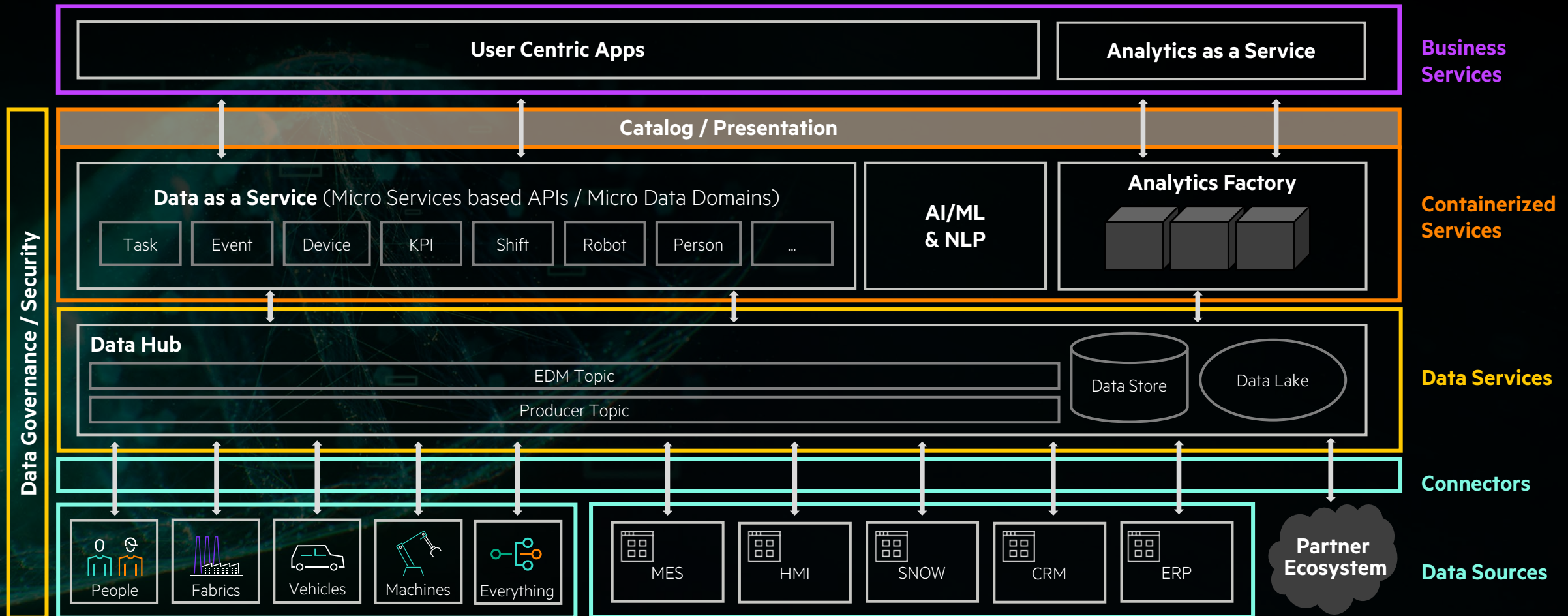
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Architecture driven by data center focussed view with **limited scalability**

Complexity in daily operations due to **process-centricity of applications**

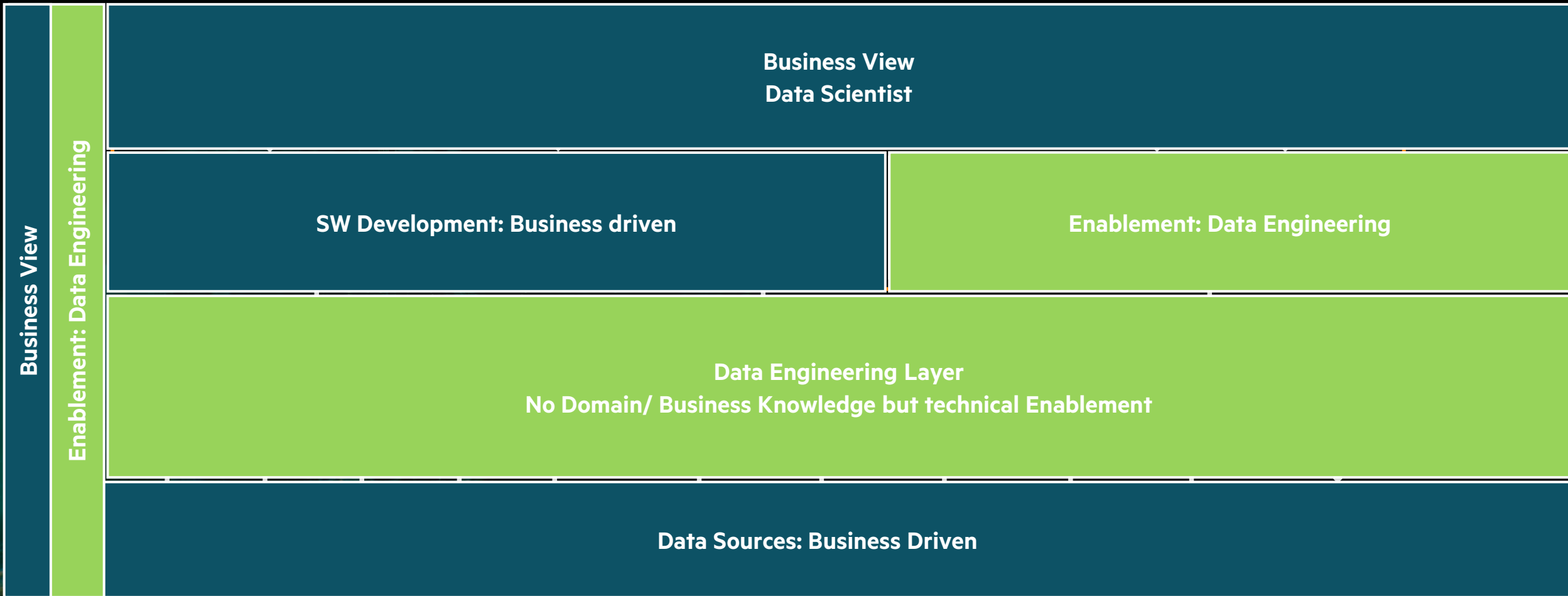
DATA CENTRIC ARCHITECTURE

High Level View



DATA CENTRIC ARCHITECTURE

Usage of Architecture Capabilities



Business Driven

IT Driven

PAINPOINTS

And how a data-centric approach can help

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Pain Relievers: Data Centric Architecture

Data Catalogue enables transparency about data and meta data and is entry point for defined data access.

Strong **data protection** and scalable **lean governance**. Monitoring of all data feeds and documentation of meta data.

Defined Connectors or APIs per application **reduces costs** and **increases flexibility**.

Availability of **digital twins** in the data hub enables effective application of Advanced Analytics/AI

Data Hub is based on event bus – **event centric data exchange**.

Seamless integration of the event bus from Edge to Core/Cloud with **full scalability**

Enablement of **role-centric UIs**

DATA CENTRIC ARCHITECTURE

What is the added value to VWG?

Added Value to the organization

Increases **visibility** in production and of reserves to improve efficiency

Improves **control** over operations reducing downtime and waste

Produces a focus on using cross business data for **business improvements**

Creates **new value** from underused data and uses IoT to collect new data for better outcomes

Enables **analytics, AI** and production digital twins reducing overall cost

KEY EA PRINCIPLES

