

INFORMATION SYSTEM ARCHITECTURE

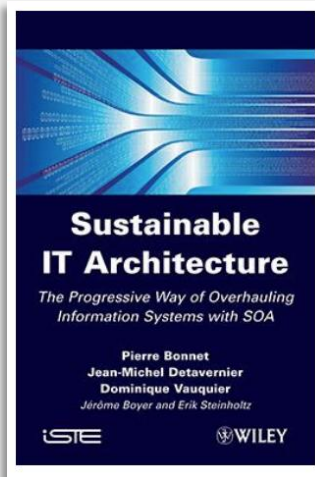
DATA MESH, DATA FABRIC, ODS, MDM, KNOWLEDGE GRAPH DB, AI GOVERNANCE

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pierre.bonnet@hlfl-consulting.com – November 04, 2023

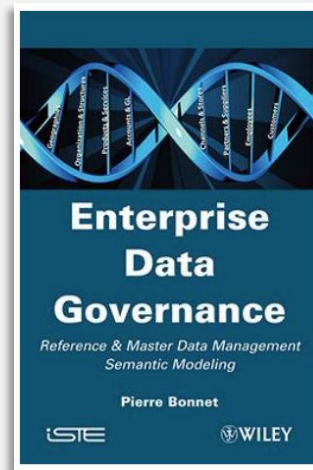
PIERRE BONNET

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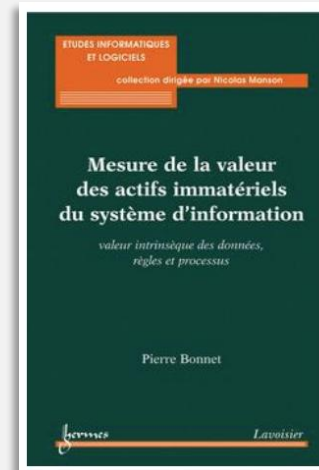
EA + SOA

HOW TO LEVEL-UP TOGAF
AND ZACHMAN



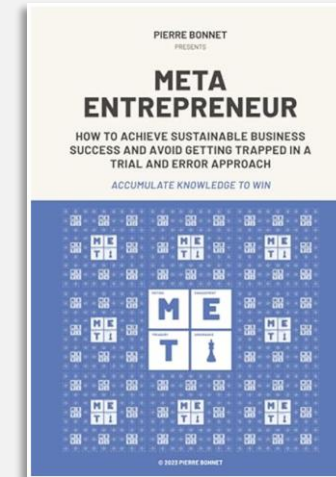
DATA

MODELING AND
GOVERNANCE AT THE
ENTERPRISE LEVEL



IS RATING

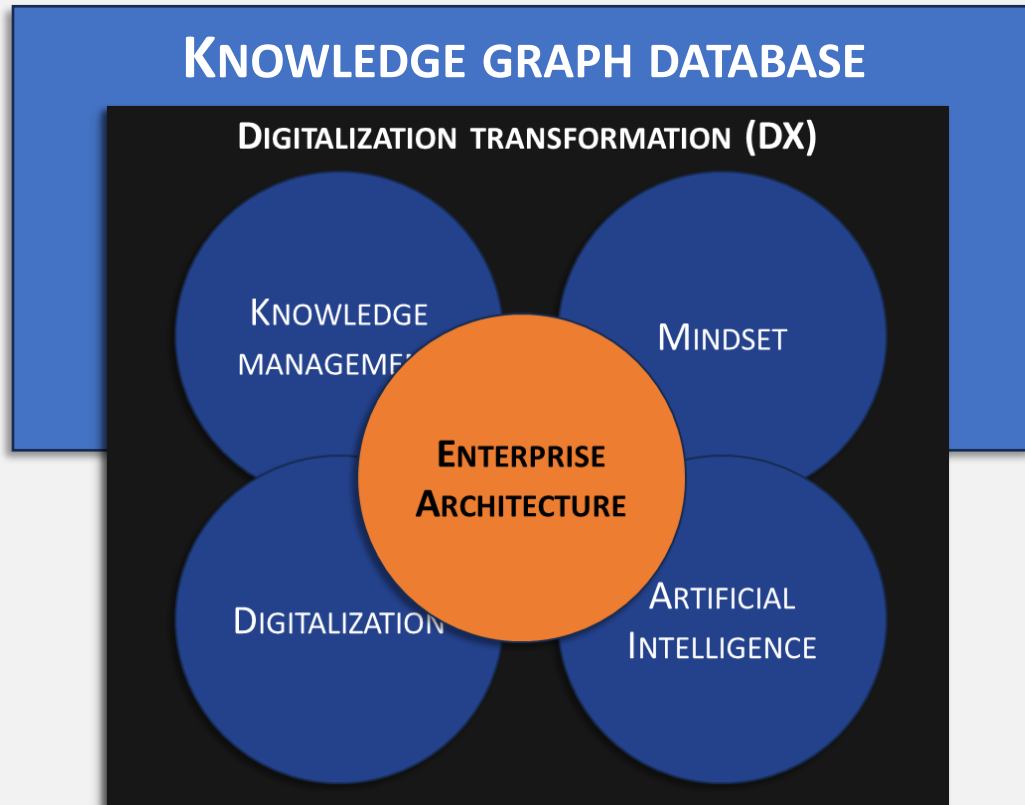
MEASURING THE INTANGIBLE
ASSETS OF THE IS: PROCESSES,
RULES AND DATA




MINDSET

ENCOURAGING A POSITIVE MINDSET TO FACE
THE COMPLEXITY OF THE WORLD BASED ON
KNOWLEDGE ACCUMULATION

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ENGAGE-META COMMUNITY

Accumulating knowledge
for sustainable win

Contact me

MOTION
M

ENGAGEMENT
E

TREASURY
T

ASSURANCE
♟

ENGAGE-META combines knowledge management and mindset practices (entrepreneurship, intra-) with data management and AI in a digital world (DX)

By utilizing a unique FRAMEWORK that formalizes key corporate and individual knowledge in a unified way

This is an approach to level-up Enterprise Architecture (EA) at the digital and AI age

A FRAMEWORK TO ACCUMULATE KNOWLEDGE AROUND FOUR ELEMENTS

MOTION (MOVE)
M

ENGAGEMENT (ACT)
E

TREASURY (FINANCE)
T

ASSURANCE (PROTECT)
A

The ENGAGE-META community offers practices to maximized your chances of success in entrepreneurship, intrapreneurship as an employee and data management with digitalization. They are inspired by my_professional_career of more than 30 years.

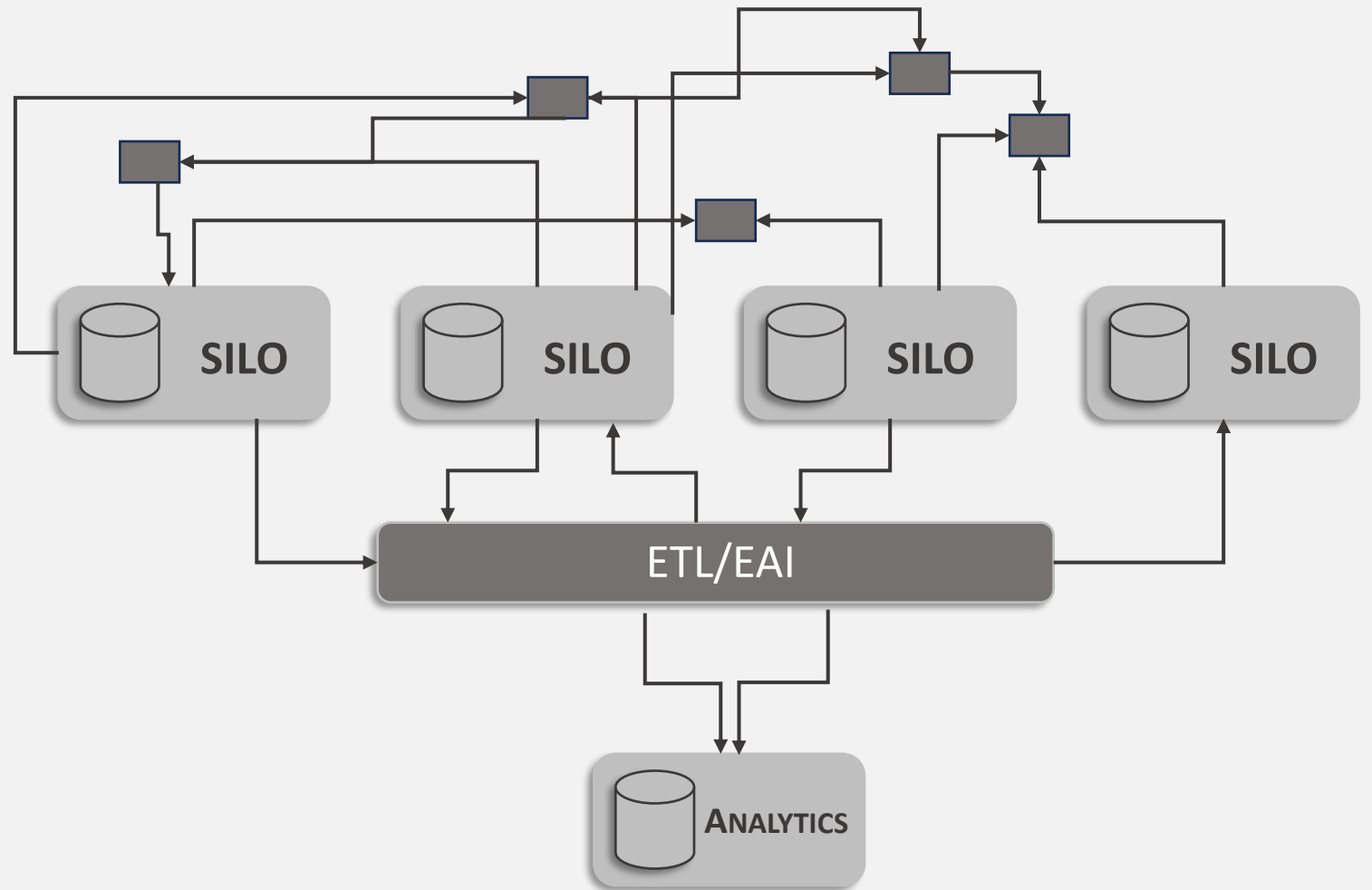
I am Pierre Bonnet, founder of ENGAGE-META, software engineer and entrepreneur. In working on best practices for the community, I have created a tool to formalize my experiences and knowledge called the E-META-FRAMEWORK (EMF). This is a common framework to organize and enrich knowledge to accelerate value creation. This framework is applied in my two areas of expertise: entrepreneurship (META-Entrepreneur) and data management with digitization (META-DX-Manager^{DX}). It is adaptable to any other domain of expertise or project.

^{*}E is the abbreviation for *Engage*.

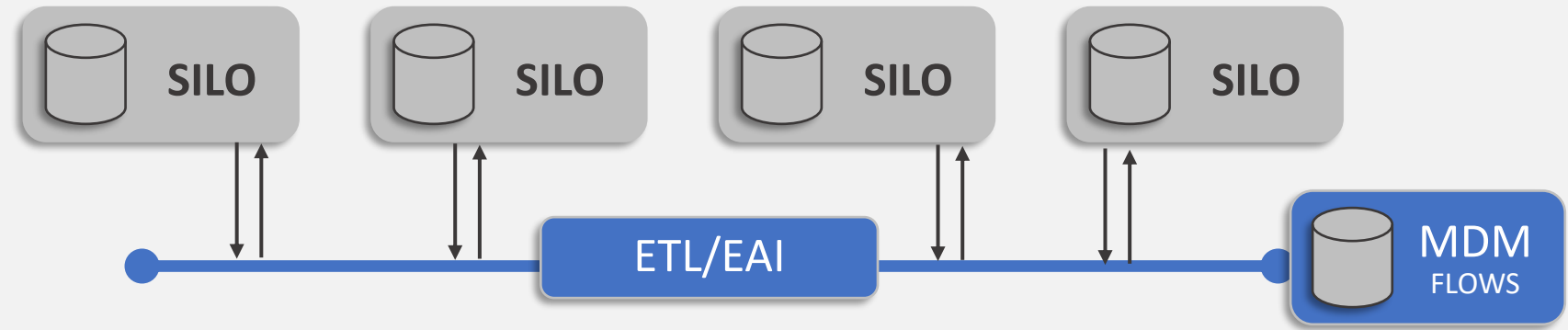
^{**}DX is the abbreviation for *Digital Transformation*.

LEGACY WITH NUMEROUS SILOS

HISTORICALLY, INFORMATION SYSTEM ARCHITECTURE OFTEN FOLLOWED THIS FIGURE, WITH NUMEROUS SILOS THAT RESULTED IN DATA DUPLICATION AND COMPLEX INTERCONNECTIONS BETWEEN THEM

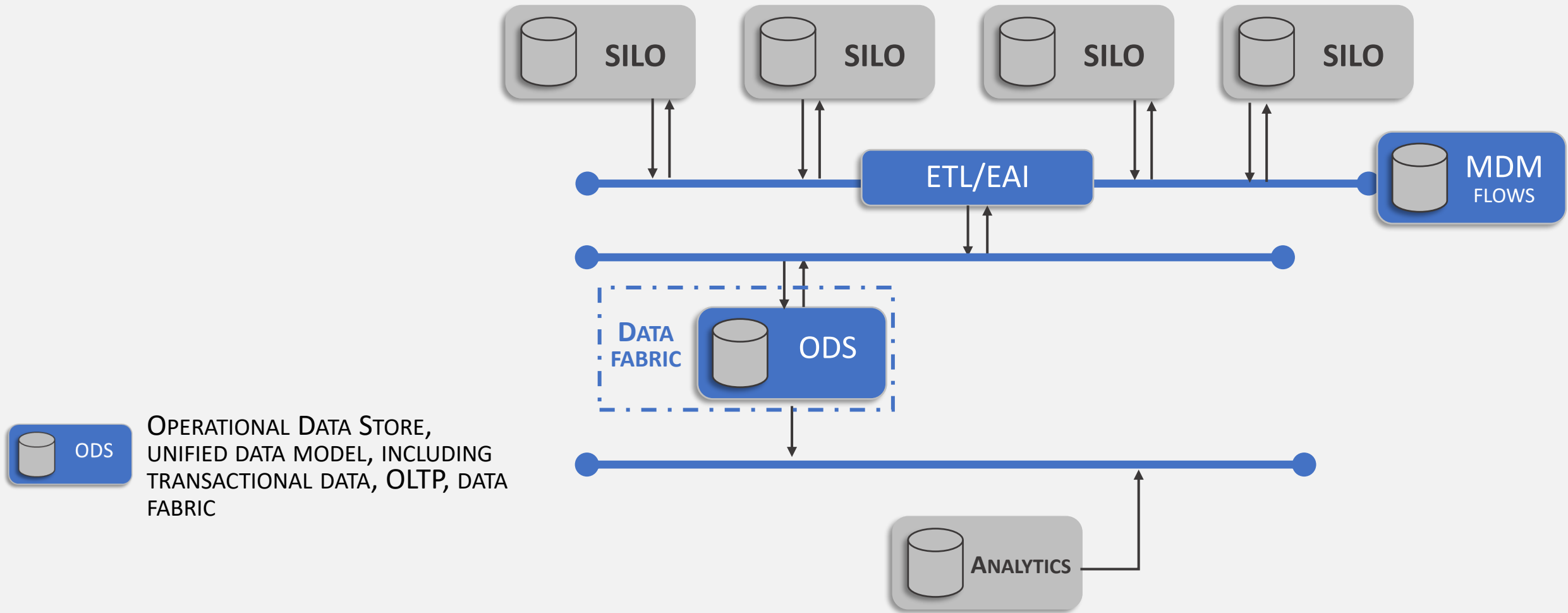


MDM FOR DATA FLOWS

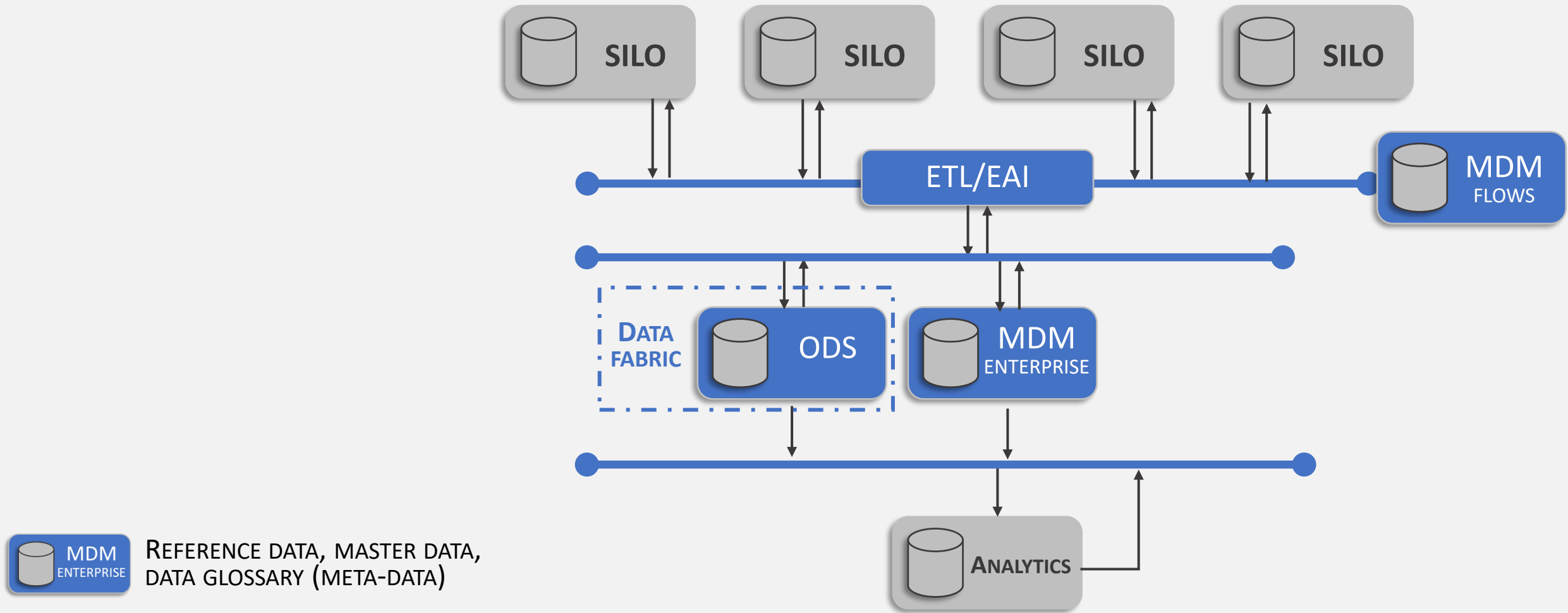


API CONTRACTS, IN/OUT
BUSINESS AND IT INTERFACES,
INTEGRITY RULES

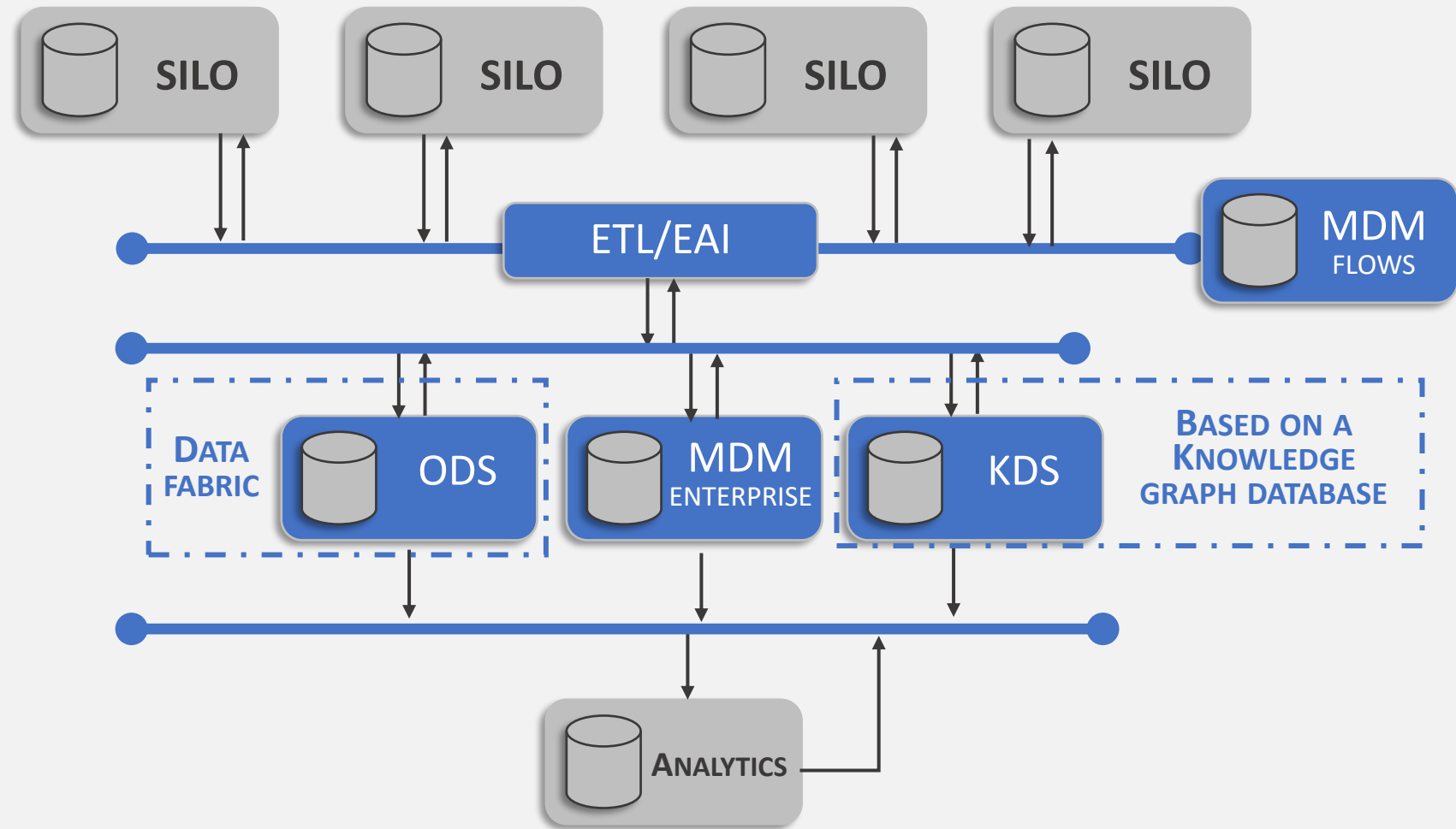
ODS BASED ON A DATA FABRIC



MDM ENTERPRISE

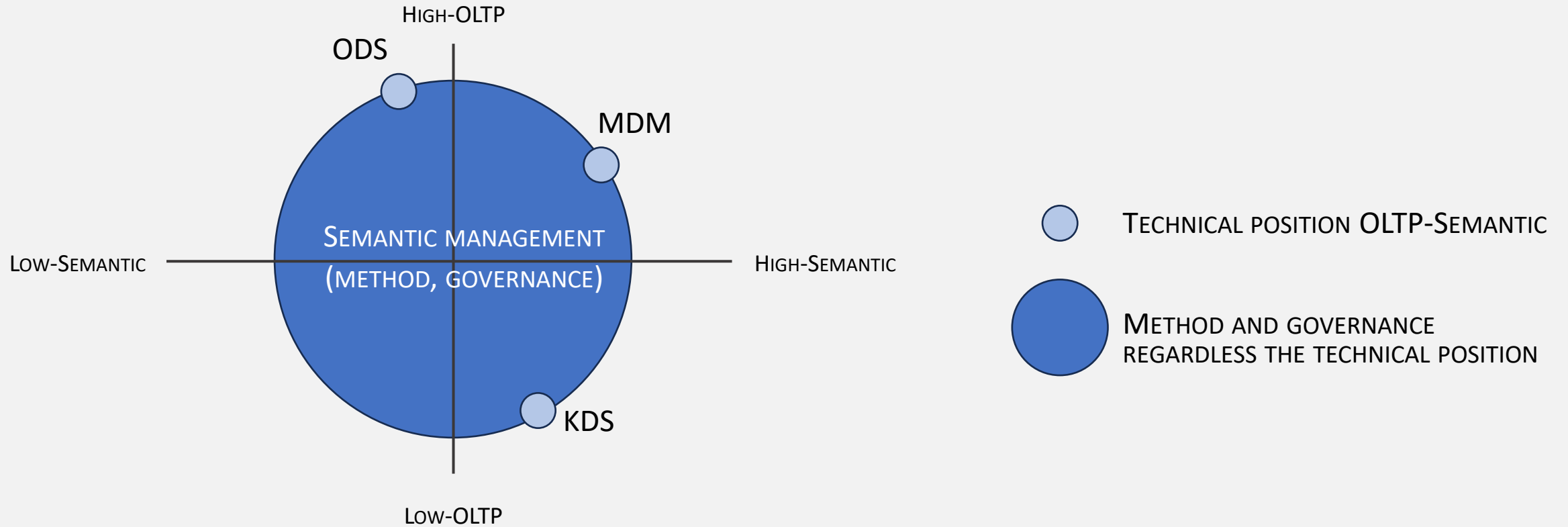


KDS: KNOWLEDGE DATA STORE

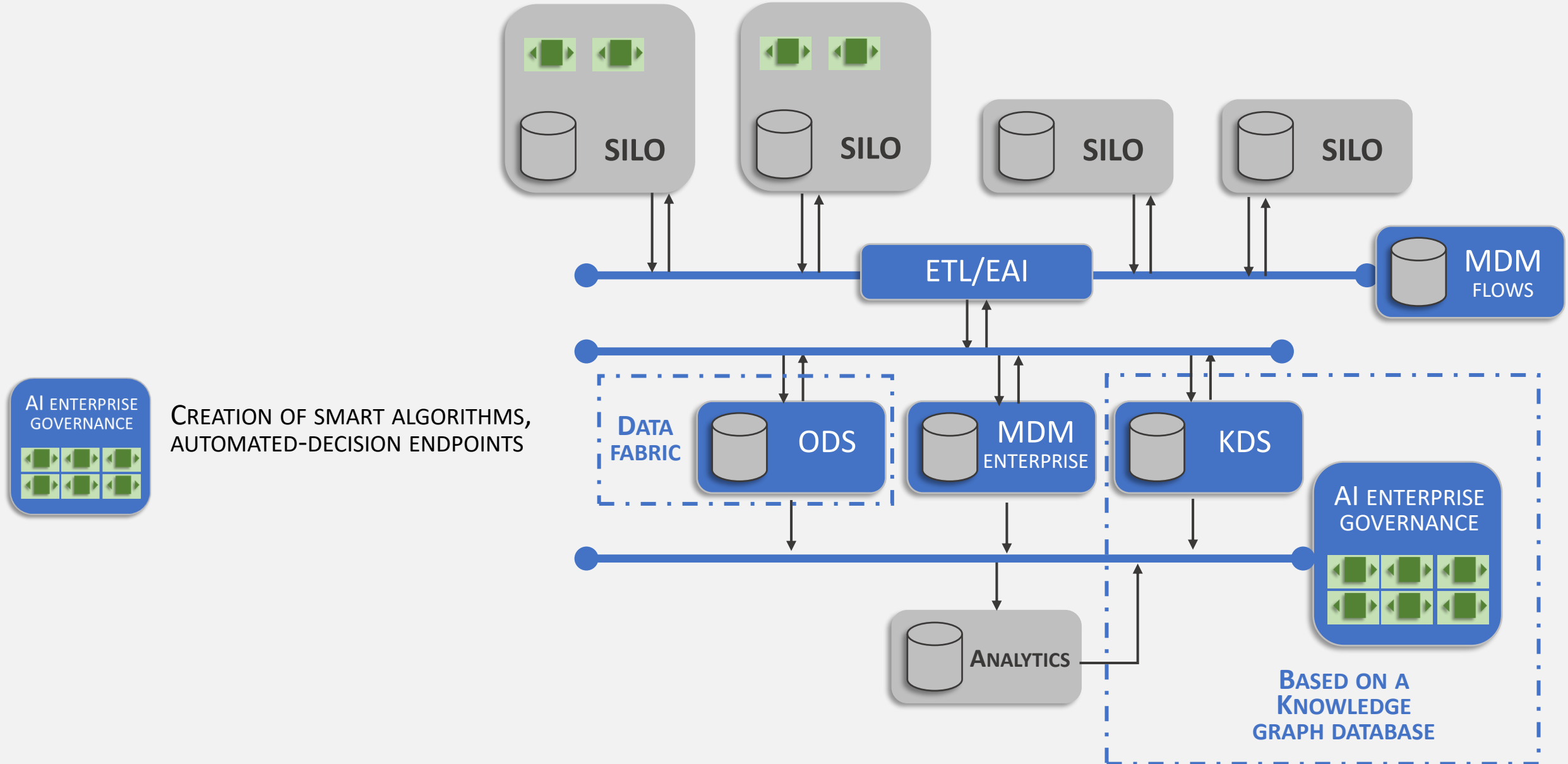


KNOWLEDGE DATA STORE,
KNOWLEDGE GRAPH DATABASE,
ONTOLOGY, AI PROMPTS,
KNOWLEDGE ACCUMULATION

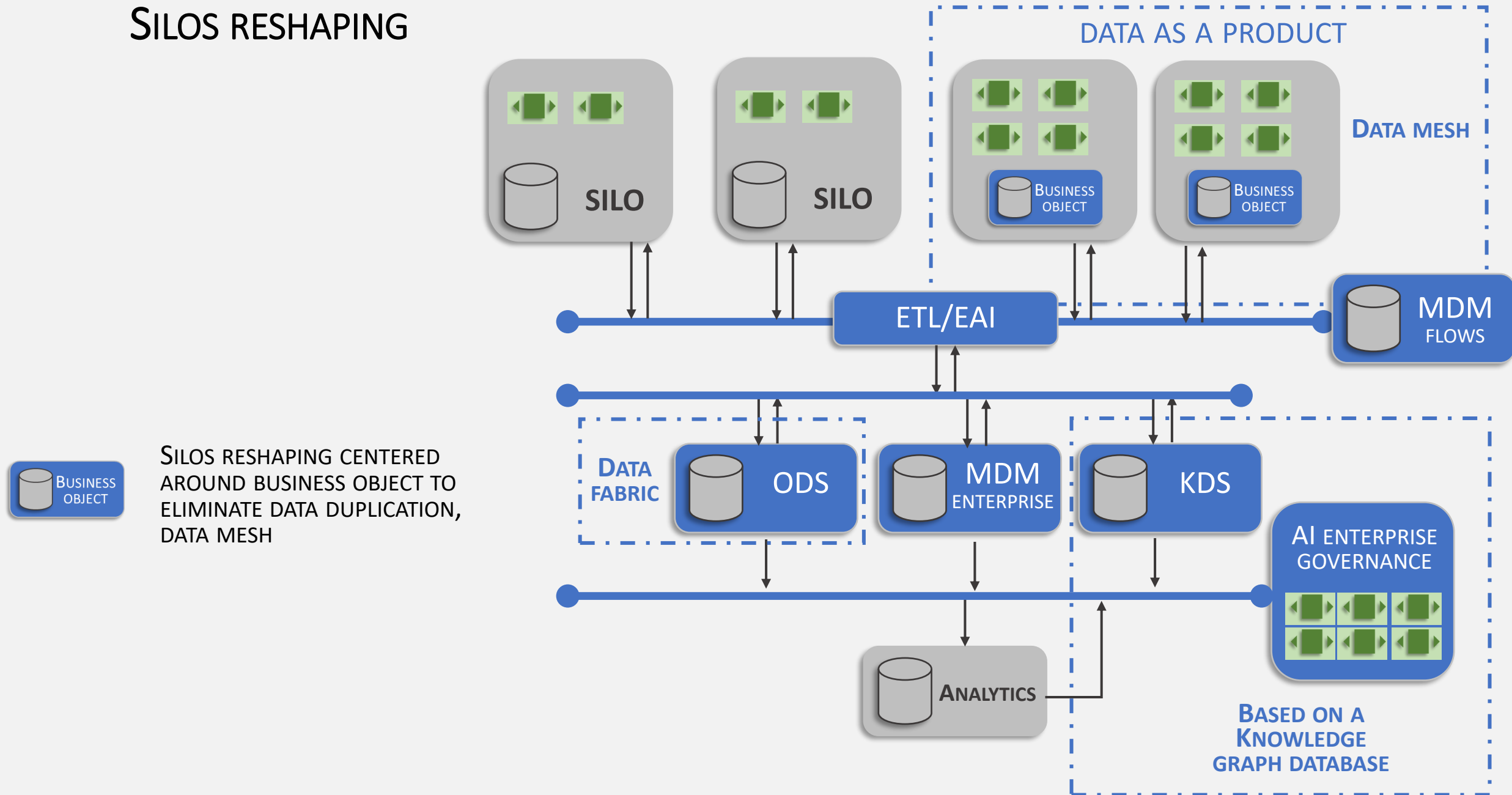
OLTP, SEMANTIC AND GRAPH



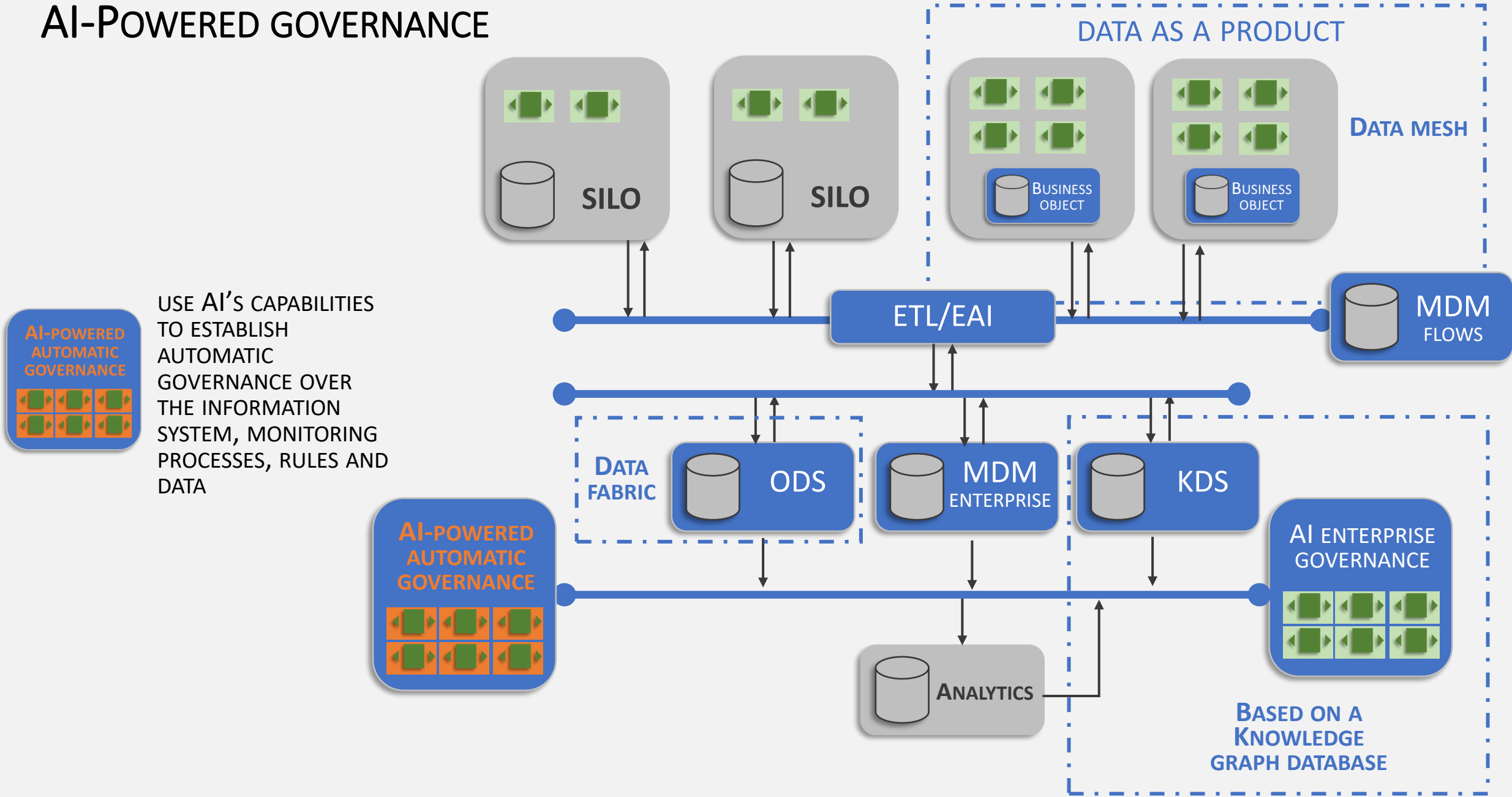
AI ENTERPRISE GOVERNANCE



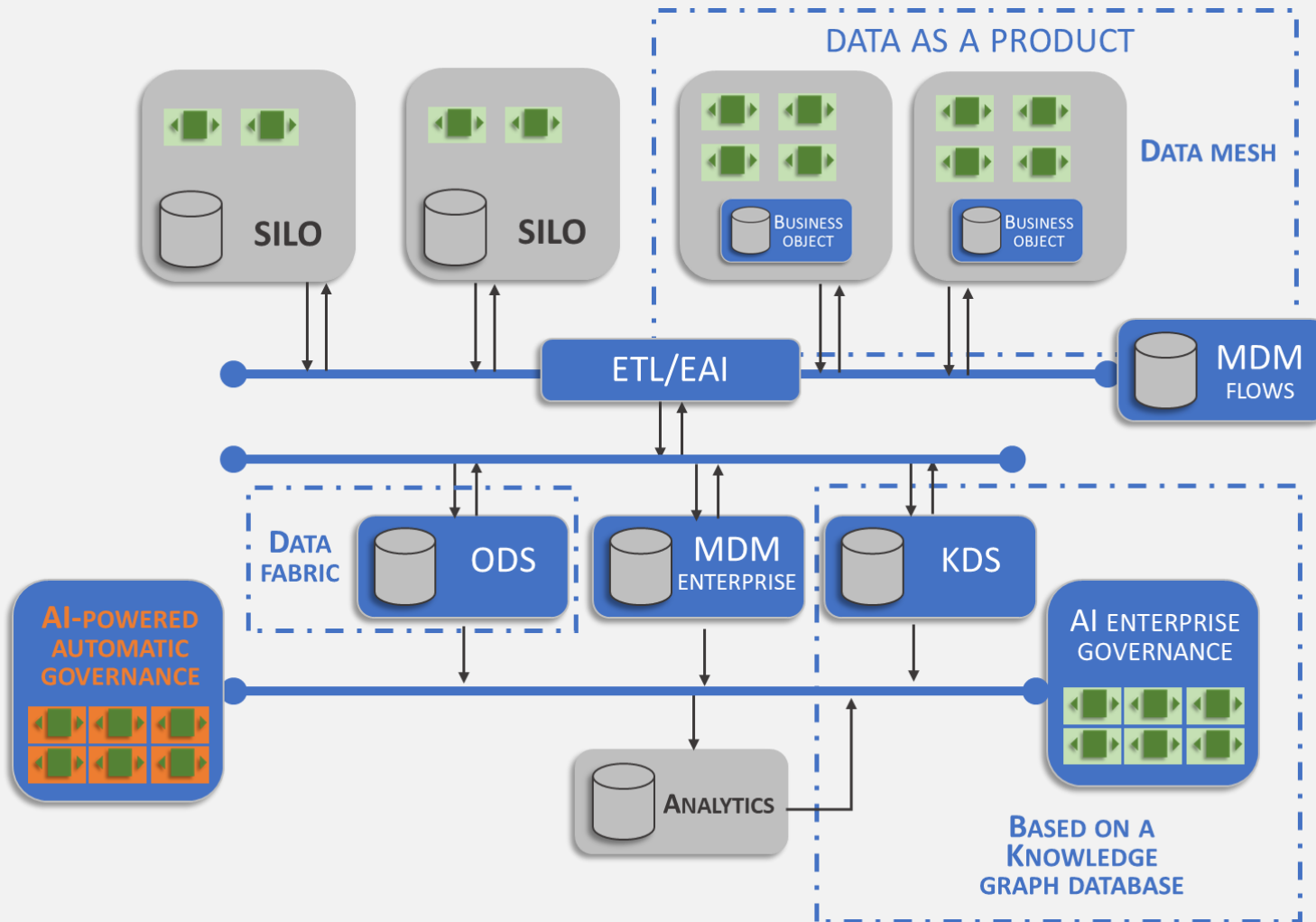
SILOS RESHAPING



AI-POWERED GOVERNANCE



BLUE-PRINT



MDM
FLOWS

API CONTRACTS, IN/OUT BUSINESS AND IT INTERFACES, INTEGRITY RULES



ODS

OPERATIONAL DATA STORE, UNIFIED DATA MODEL, INCLUDING TRANSACTIONAL DATA, OLTP, DATA FABRIC



MDM
ENTERPRISE

REFERENCE DATA, MASTER DATA, DATA GLOSSARY (META-DATA)



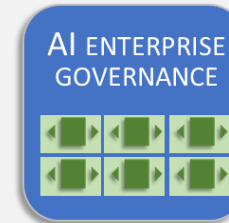
KDS

KNOWLEDGE DATA STORE, KNOWLEDGE GRAPH DATABASE, ONTOLOGY, AI PROMPTS, KNOWLEDGE ACCUMULATION



BUSINESS
OBJECT

SILOS RESHAPING CENTERED AROUND BUSINESS OBJECT TO ELIMINATE DATA DUPLICATION, DATA MESH



AI ENTERPRISE
GOVERNANCE

CREATION OF SMART ALGORITHMS, AUTOMATED-DECISION ENDPOINTS



AI-POWERED
AUTOMATIC
GOVERNANCE

USE AI'S CAPABILITIES TO ESTABLISH AUTOMATIC GOVERNANCE OVER THE INFORMATION SYSTEM, MONITORING PROCESSES, RULES AND DATA

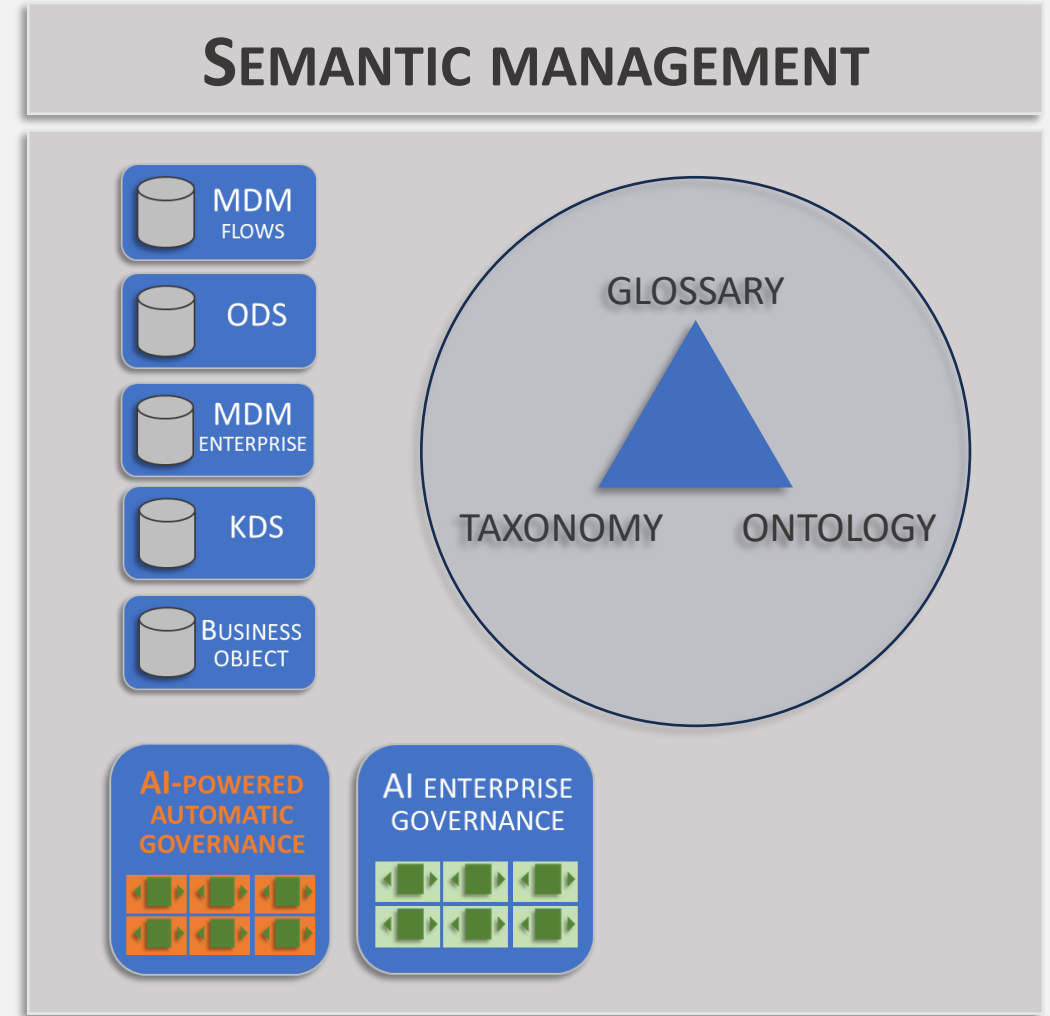
KEY TAKEAWAYS

SEMANTIC MANAGEMENT

- MDM FOR DATA FLOWS
- ODS (DATA FABRIC)
- MDM ENTERPRISE
- KDS (KNOWLEDGE GRAPH DATABASE)
- DATA AS A PRODUCT (DATA MESH)

ARTIFICIAL INTELLIGENCE

- AI ENTERPRISE GOVERNANCE
- AI-POWERED AUTOMATIC GOVERNANCE



MORE VIDEOS

THANK YOU!

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THIS VIDEO ABOUT ENTERPRISE ARCHITECTURE

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