



# MINIMUM VIABLE SCALE

TRANSFORMATIVE  
AI & DATA SOLUTION



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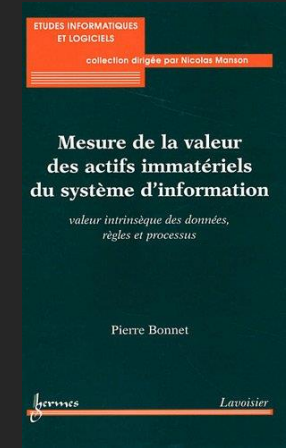
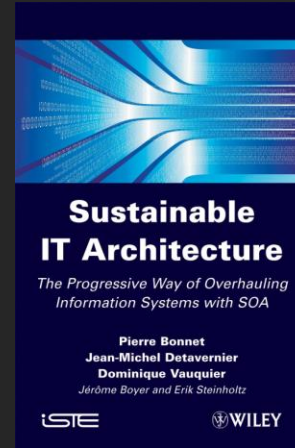
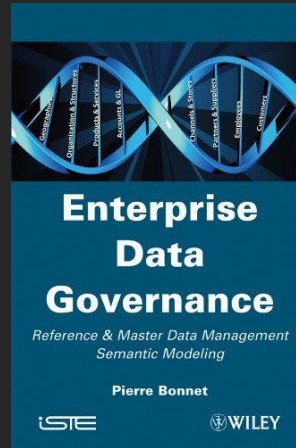
VERSION: MARS 29, 2024

# PIERRE BONNET

A VETERAN IN IT ARCHITECTURE  
BRINGS OVER 30 YEARS OF EXPERIENCE AND AUTHOR



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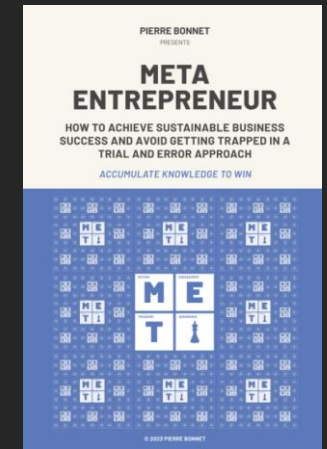


## ENTREPRENEUR

IN 2000, I CREATED A START-UP IN SOFTWARE FOR DATA MANAGEMENT WITH TWO CO-FOUNDERS AND BECAME AN ENTREPRENEUR. WE SOLD THE COMPANY EIGHTEEN YEARS LATER (ORCHESTRA NETWORKS) TO AN INTERNATIONAL GROUP

EXIT END 2018 –  
TRANSITION TO END 2022

TIBCO® Platform–Data Management



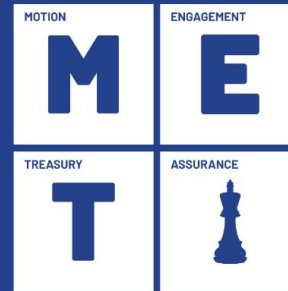
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TRAIDA  
FRAMEWORK

# ENGAGE-META COMMUNITY

Accumulating knowledge  
for sustainable win

Contact me



## Objectives of the Engage-Meta community

Engage-Meta is a think tank for the distribution of open-source content in these three areas:

- **TRAIDA FRAMEWORK** for the deployment of AI and large-scale data solutions in businesses. TRAIIDA stands for: Transformative AI and Data solutions.
- **META FRAMEWORK** for aiding knowledge accumulation in a world where access to information is increasingly fragmented. META stands for Motion, Engagement, Treasury and Assurance.
- **META-ENTREPRENEUR** for increasing the chances of success in entrepreneurship as well as being an employee with an entrepreneurial mindset (intrapreneurship). This area relies on No-Code + AI and knowledge accumulation to accelerate decision-making.



During the book launch event for "META-Entrepreneur" in Hanoi, Vietnam, with the community of entrepreneurs and intrapreneurs (January 2024)

Engage-Meta was created by Pierre Bonnet. If you need my advice, see the [CONSULTING OFFER](#). If you want to partner with us, download the [PARTNERSHIP LETTER](#).

## THINK-TANK ENGAGE-META

### FRAMEWORK FOR AI AT SCALE

FOR THE DEPLOYMENT OF AI AND LARGE-SCALE DATA SOLUTIONS IN BUSINESSES. TRAIIDA STANDS FOR TRANSFORMATIVE AI AND DATA SOLUTIONS

### FRAMEWORK FOR KNOWLEDGE MGT.

FOR AIDING KNOWLEDGE ACCUMULATION IN A WORLD WHERE ACCESS TO INFORMATION IS INCREASINGLY FRAGMENTED. META STANDS FOR MOTION, ENGAGEMENT, TREASURY AND ASSURANCE

### FRAMEWORK FOR ENTREPRENEURSHIP

FOR INCREASING THE CHANCES OF SUCCESS IN ENTREPRENEURSHIP AS WELL AS BEING AN EMPLOYEE WITH AN ENTREPRENEURIAL MINDSET (INTRAPRENEURSHIP)

# CONTEXT



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# MAINTAIN CONTROL OF IT + AI

## INNOVATION

ARTIFICIAL INTELLIGENCE NEEDS MORE QUALITY DATA FOR LEARNING ALGORITHMS AND DECISION-MAKING PROCESSES TO FUNCTION CORRECTLY



MDM, ODS, EKG, MDM GRAPH, RDF, RDF-STAR, OWL, SPARQL, GRAPHQL, JASON, SHACL, NO-SCHEMA, FREE-SCHEMA, DOCUMENT-SCHEMA, NOSQL, LLM, ONTOLOGY, SEMANTIC MODELING, META-DATA, MASTER DATA, REFERENCE DATA, OPERATIONAL DATA, DATA FABRIC, DATA MESH, VECTOR DATABASE, RAG, T-RAG, R2RML, PROMPTING, HALLUCINATION CHECK, DATA LAKE WAREHOUSE, OLTP, AI-POWERED GOVERNANCE, ETC.

# MAINTAIN CONTROL OF IT + AI

SEMANTIC & KNOWLEDGE GRAPH DB +AI

## INNOVATION

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## ABILITY TO ACT

THE SKILLS REQUIRED TO GRASP THE ENTIRE IT DOMAIN HAVE BECOME TOO VAST FOR A SINGLE EXPERT



## TO SERVE MODERN WORLD

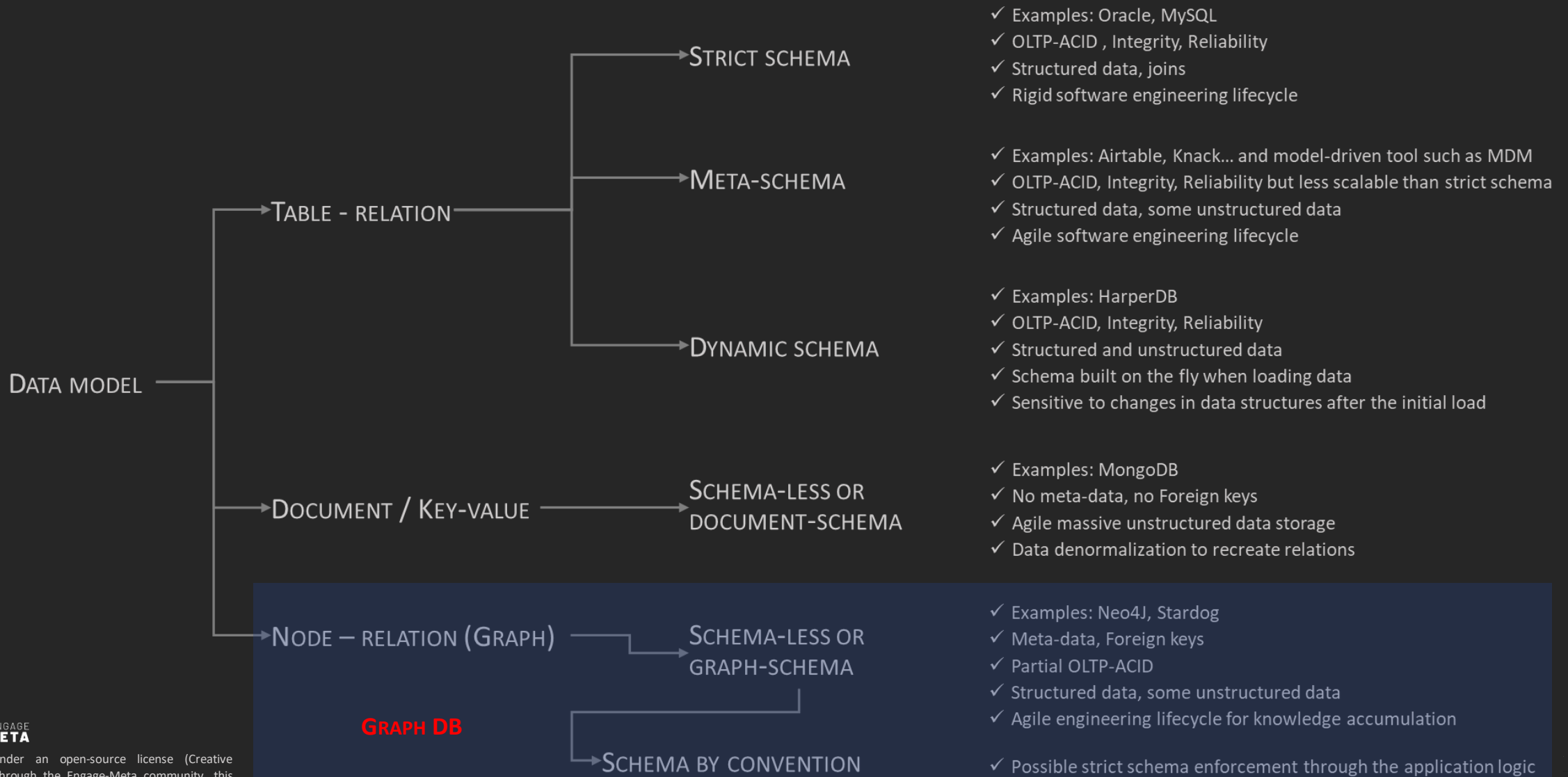
IN A FAST-EVOLVING WORLD, THE EA BUSINESS AND TECHNICAL TARGETS ARE OFTEN MISTAKEN

# THE SOFTWARE VENDORS' VOICE



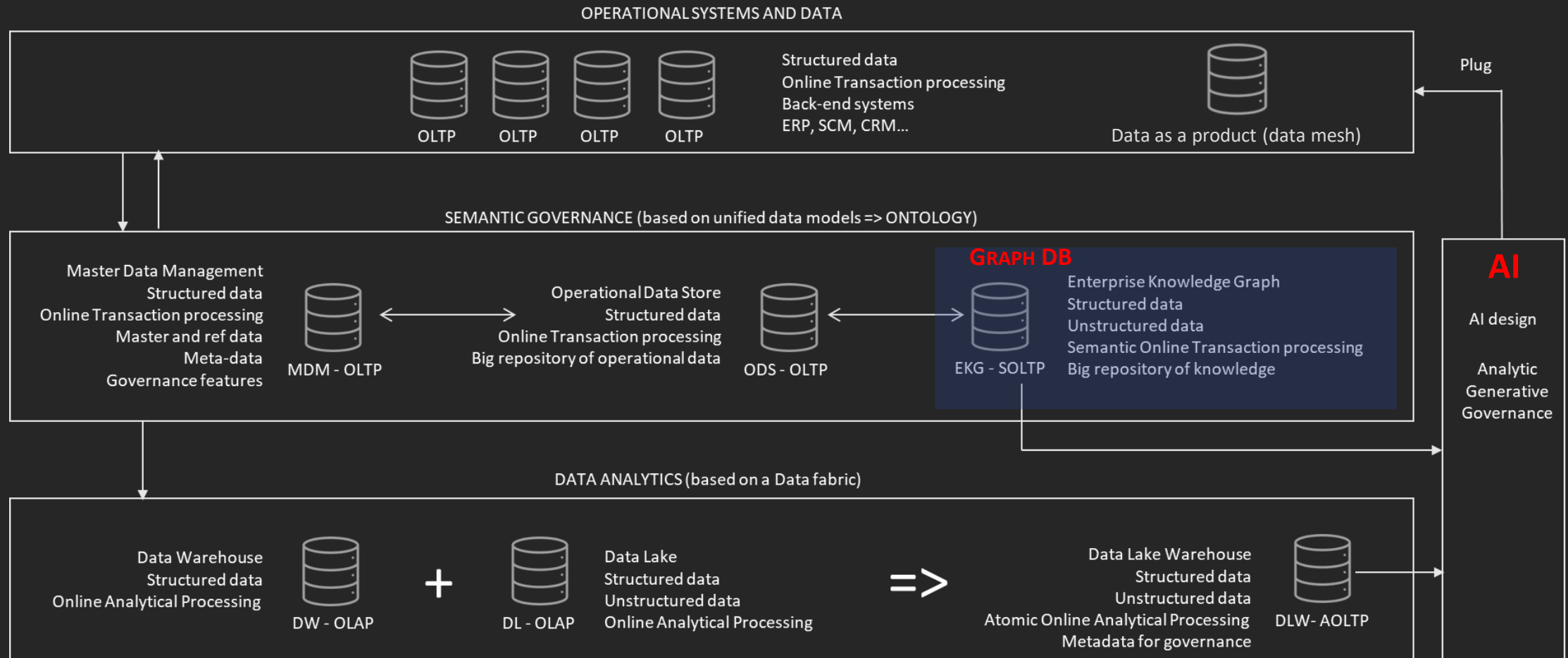
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# UNDERSTANDING THE BASICS OF KNOWLEDGE GRAPH-ORIENTED DATABASES





# UNDERSTANDING ENTERPRISE DATA ARCHITECTURE




Palantir

AIP Foundry Gotham Apollo / AIP Bootcamps

## AIP Bootcamps

From zero to use case in days. Move past demos, get hands-on-keyboard, and push to production.

Schedule an AIP Bootcamp →



### What Makes Palantir Platforms Powerful

**SEMANTIC AND KNOWLEDGE GRAPH DB**



## Why don't we force you to model data up-front like everyone else? Think heads. Think walls. Think slamming.

### Zero upfront modelling

CluedIn lets you import and development your data instantly. No more waiting six months and only building data models when the business is ready. With CluedIn, you can dive right into harnessing the power of your data from the get-go.

### Model data with AI (when you're ready)

Build and edit dynamic Golden Records with your own personal **Azure OpenAI co-pilot** - offering you tips, advice and intelligent support throughout your data modelling process.


### Build Golden Records...

Through Augmented Data Modeling, you can dynamically adjust Golden Records as often as you need - adding new data sources like transactions, social media, and demographics as they emerge. **The result?** More accurate segmentation, decision-making, and better support for your operations teams.

### ...with any system data

Build Golden Records with data pulled from 200+ native two-way integrations including OneLake, SAP, Salesforce, Oracle and many, many more.

**SEMANTIC AND KNOWLEDGE GRAPH DB**



ontotext

Products Solutions Applications Services Knowledge Hub Company


## What We Offer

### Products and Platforms

Maximize the potential of your data with our cognitive technologies for enterprise knowledge graphs, metadata management and content analytics, proven in various environments. Our core products are:

- Ontotext GraphDB
- Ontotext Platform
- Ontotext Metadata Studio
- Ontotext Refine

[Click Here to Learn More](#)



### Solutions

Leverage our solutions empowered by the highly-coupled inter

**SEMANTIC AND KNOWLEDGE GRAPH DB**

MarkLogic

OVERVIEW SOFTWARE SOLUTIONS RESOURCES DOWNLOADS EN CONTACT US

## About the MarkLogic Data Platform

Eliminate data and knowledge silos with the only enterprise-grade, unified data platform that lets you respond quickly to business change while providing rigorous data governance and transformational data security.

### Connect and Manage Complex Data

Unify data and metadata while ensuring data quality and security. Deploy anywhere with trusted, enterprise capabilities.

- Multi-model data integration
- Data management

### Create Metadata to Interpret Data and Its Meaning

Put information in context with our no-code metadata engine that uses machine learning and knowledge models.


- Knowledge graph modelling
- Fact extraction

### Consume Knowledge Across the Enterprise

Use industry-standard APIs and programming languages to deliver data in context for multiple users and multiple use cases.

- Informed search
- Contextual applications

**SEMANTIC AND KNOWLEDGE GRAPH DB**





neo4j Products Use Cases Developers & Data Scientists Pricing Learn Contact Us Get Started Free

GRAPH DATABASE & ANALYTICS

## Realize the Possibilities With Our Full Graph Stack

Native graph storage, data science, ML, analytics, and visualization with enterprise-grade security controls to scale your transactional and analytical workloads – without constraints.

[Explore our full graph stack.](#)

**SEMANTIC AND KNOWLEDGE GRAPH DB**

GRAPH DATA SCIENCE

### Improve Models. Sharpen Predictions.

Built by data scientists for data scientists, Neo4j Graph Data Science

Apps AI BI Tools

STARDOG

## Streamline data analytics

With ready access to the richest flexible semantic layer, explainable AI, and reusable data modeling, data engineers and scientists can be 95% more productive – create and expand semantic data models, understand any data interrelationship, and run federated queries to speed time to insight.

[LEARN MORE](#)

**SEMANTIC AND KNOWLEDGE GRAPH DB**

DATA SILOS

- Data management systems
- Business Unit Applications

## Access data anywhere, anytime to reduce costs

Stardog offers the most advanced graph data virtualization

Hey there! What brings you to our site today?

STARDOG

InfraNodus

# Generate Insight with AI and Knowledge Graphs

Get an overview of any discourse, reveal the blind spots, enhance your perspective

[SIGN UP](#) [LEARN MORE](#)

**SEMANTIC AND KNOWLEDGE GRAPH DB**

[WATCH AN INTRODUCTION](#)

AIBLE

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## Auto-improves with End-user Feedback

Simply edit responses in place or click thumbs up or down to improve the experience for your use case. Aible will perform all the heavy-lifting by automating few shot learning, reinforcement learning, LORA, etc.

**AI ENABLEMENT**

**CHATAIBLE** Exploring Successful Sales

**Edit and Save as Training Data**

Focus on digital marketing: Gen Z has the highest success rate (20.42%) when the lead source is digital marketing, compared to other age categories.

Avoid mornings: Gen Z has a lower success rate (3.86%) during the morning compared to other age categories.

Pay attention to the following interactions, which have a medium to high impact on the outcome of a successful sale:

- Credit Score (Very High impact)
- No. of Children (Very High impact)
- Day of the Week (High impact)

[Edit and Save as Training Data](#)

Welcome to Aible

AIBLE

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# WHO IS READY TO DEPLOY AI AT SCALE?



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TRAIDA  
FRAMEWORK

# THE USUAL APPROACH DOES NOT SEEM TO BE SUITABLE



USING IT FRAMEWORKS THAT HAVE BECOME MARKET STANDARDS SUCH AS **TOGAF** AND **ZACHMAN**...

&

...USING THE “**AGILE APPROACH**” TO COMPENSATE FOR THE RIGIDITY OF THESE IT FRAMEWORKS. A VARIANT OF IT ARCHITECTURE IS THEN DEVELOPED FOR EACH PROJECT



A VARIANT OF IT ARCHITECTURE IS THEN DEVELOPED FOR EACH PROJECT

# SOLUTION



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TRAIDA  
FRAMEWORK

# A NEW APPROACH

## POSTULATE

MASTERY OF AI AND DATA MANAGEMENT SOLUTIONS CONSTITUTES THE LAUNCHING PAD OR THE MINIMAL STARTING POINT FOR AN EVOLVING IT ARCHITECTURE



## MINIMUM VIABLE SCALE ARCHITECTURE (MVS)

## TRAIDA

THE ESSENTIAL TOPICS FOR LARGE-SCALE DEPLOYMENT OF AI AND ASSOCIATED DATA SOLUTIONS ARE GATHERED IN A FRAMEWORK NAMED **TRAIDA** FOR "TRANSFORMATIVE AI AND DATA SOLUTIONS"



## THE FRAMEWORK FOR BUILDING

RATHER THAN FORCING THE DEFINITION OF IT AND BUSINESS EA TARGETS, THE COMPANY FIRST COMPARES ITSELF TO A SET OF ESSENTIAL TOPICS FOR LARGE-SCALE DEPLOYMENT OF AI AND ASSOCIATED DATA SOLUTIONS

# TRAIDA FRAMEWORK

## 6 IT CARDS 21 TOPICS

## 3 GOVERNANCE CARDS 10 TOPICS

## 4 BUSINESS CARDS 18 TOPICS

**DATA CORE SYSTEM**

THE CORE SYSTEM DEPENDS ON DATABASES THAT ARE EITHER ISOLATED IN SILOS OR ORGANIZED INTO CLEARER BUSINESS DOMAINS

**OPERATIONAL DATA STORE**

**360-DEGREE VIEW:** THE OPERATIONAL DATA STORE IS A UNIFIED REPOSITORY THAT COLLECTS ALL DATA FROM ALL DATABASES

**DATA LAKE WAREHOUSE**

DATA LAKE WAREHOUSES ARE UTILIZED FOR DATA REPOSITORIES CONTAINING RAW, STRUCTURED, AND UNSTRUCTURED DATA FOR BUSINESS INTELLIGENCE

**ENTERPRISE GOVERNANCE**

ENTERPRISE GOVERNANCE IS IMPLEMENTED AT FOUR LEVELS: DATA, AI, SUPERVISION OF THE BUSINESS SYSTEM AND REGULATIONS COMPLIANCE

**HUMAN RESOURCES**

AN ACTIVE MINDSET AND ALIGNED SKILL SETS ARE REQUIRED TO ENHANCE THE POSITIVE IMPACTS OF AI AND DATA SOLUTIONS

**PRODUCTIVITY**

THE STUDY OF PRODUCTIVITY IMPACTS ENCOMPASSES THE BACK-OFFICE, FRONT-OFFICE, AND INTER-COMPANY PROCESSES

**TRUSTWORTHINESS**

DATA AND AI TRUSTWORTHINESS RESTS ON TRACEABILITY; RELIABILITY CHECKS; AND SECURITY IN DATA ACCESS

**MASTER DATA MANAGEMENT**

MASTER DATA MANAGEMENT (MDM) SERVES AS A REPOSITORY FOR THE MOST SHARED DATA WITHIN THE INFORMATION SYSTEM

**ENTERPRISE KNOWLEDGE GRAPH**

EKG UTILIZES KNOWLEDGE GRAPH DATABASE TECHNOLOGIES TO MANAGE KNOWLEDGE AND ONTOLOGIES

**ARTIFICIAL INTELLIGENCE**

**AI ENCOMPASSES THREE SOLUTIONS :** GENERATIVE AI; AUTOMATED DECISION-MAKING AI; AND AI DATA COLLECTION AND LABELING

+

**ENTERPRISE ARCHITECTURE**

ENTERPRISE ARCHITECTURE OUTLINES PRACTICES FOR MODELING AND DOCUMENTING THE BUSINESS SYSTEM

=

**CREATIVITY**

CREATIVITY IS JUDGED BY THE ALIGNMENT BETWEEN BUSINESS AND IT, INVESTMENT IN R&D, AND THE INNOVATION PROCESSES

**TREASURY**

TREASURY IS THE PLACE TO ANALYZE THE FUNDING STRATEGY, THE VALUATION RULES OF ROI, AND THE MASTERY OF BREAK-EVEN POINTS

13 CARDS AND 49 TOPICS



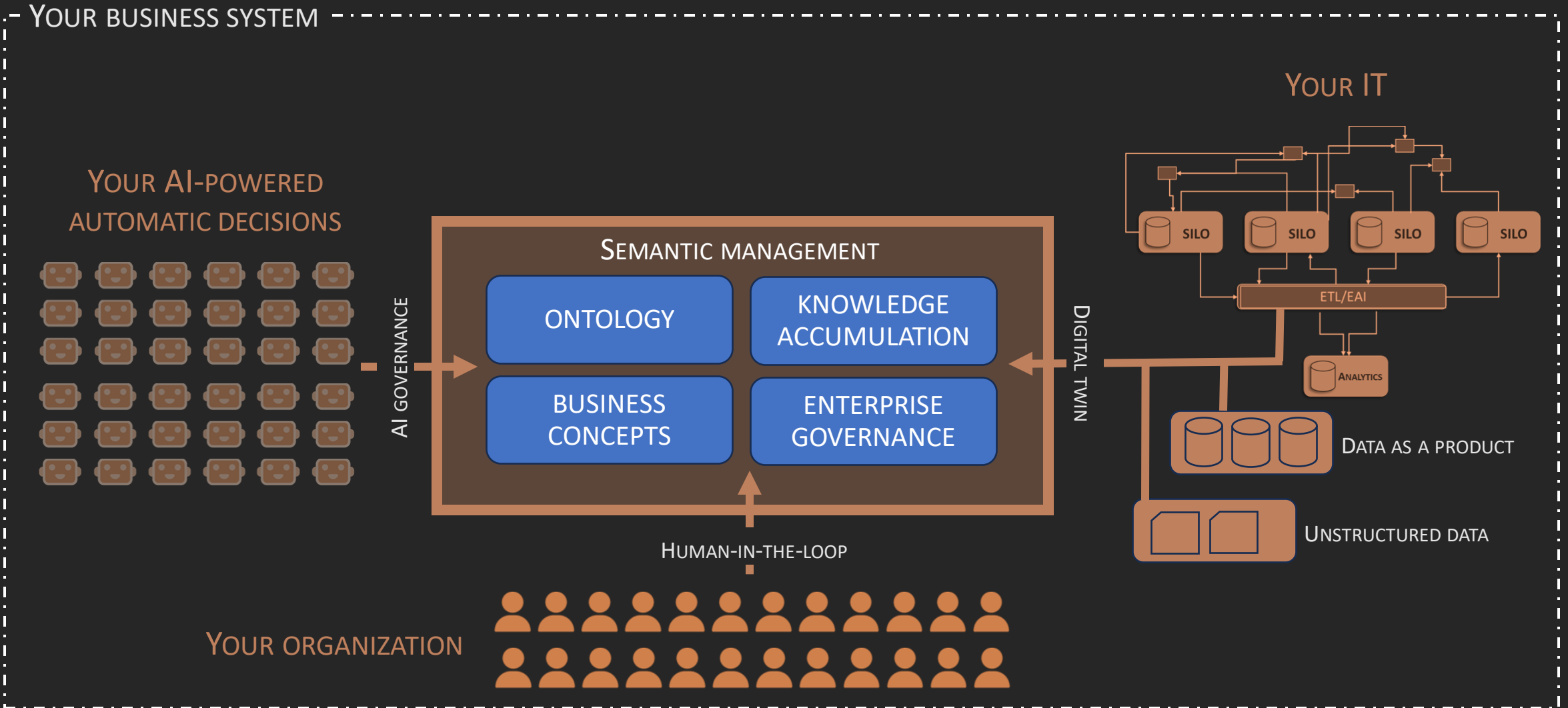
# TRAIDA IS BASED ON A MINIMUM VIABLE SCALE ARCHITECTURE VISION



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TRAIDA  
FRAMEWORK

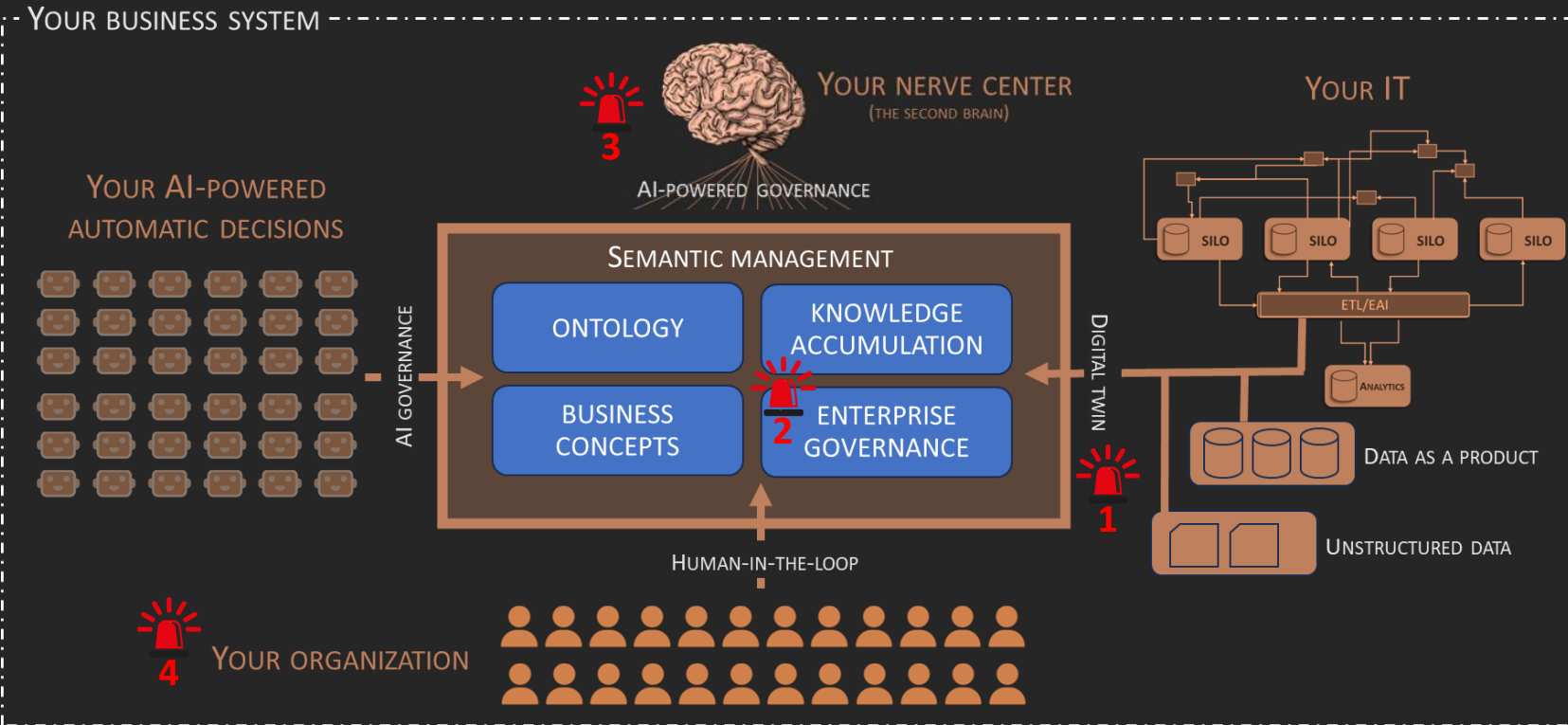
# MINIMUM VIABLE SCALE ARCHITECTURE





# MINIMUM VIABLE SCALE ARCHITECTURE

## 4 CHALLENGES



CHALLENGE OF SYNCHRONIZING THE DATA FLOWS AND PROGRESSIVELY REDUCING THE SILOS



CHALLENGE OF GOVERNANCE OF ONTOLOGIES AND THEIR SYNCHRONIZATION WITH OPERATIONAL DATABASES



CHALLENGE OF SUPERVISING THE BEHAVIOR OF THE ENTIRE INTELLIGENT SYSTEM – TRUSTED AI



AI OVERTURNS THE VERY IDEA OF CLASSICAL MANAGEMENT, PARTICULARLY THE TRADITIONAL FRENCH STYLE BASED ON ADMINISTRATION

# THE TRADA FRAMEWORK



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TRAIDA  
FRAMEWORK

# EACH CARD IS DESCRIBED IN THE FORM OF AN INFORMATION SHEET

THE WORK OF DRAFTING THESE SHEETS IS UNDERWAY TO ACCUMULATE ESSENTIAL INFORMATION ON EACH CARD AND TRAIIDA TOPIC. YOU CAN HELP THE COMMUNITY WITH WRITING AND PROOFREADING

The image shows a stack of five overlapping information sheets for the topic 'DATA CORE SYSTEM'. Each sheet is a form with a blue header and a white body. The forms are arranged in a descending staircase pattern from top-left to bottom-right. The top sheet is the most visible and shows the following structure:

- Header:** DATA CORE SYSTEM
- Section 1:** Definitions and utility
- Section 2:** Conditions for success
- Section 3:** Disadvantages
- Section 4:** Advantages
- Section 5:** Drawbacks
- Section 6:** Examples of use cases
- Section 7:** Examples of technical solutions

The image shows a stack of three overlapping information sheets for the topic 'ENTERPRISE GOVERNANCE'. Each sheet is a form with a green header and a white body. The forms are arranged in a descending staircase pattern from top-left to bottom-right. The top sheet is the most visible and shows the following structure:

- Header:** ENTERPRISE GOVERNANCE
- Section 1:** Definitions and utility
- Section 2:** Conditions for success
- Section 3:** Disadvantages
- Section 4:** Advantages
- Section 5:** Drawbacks
- Section 6:** Examples of use cases
- Section 7:** Examples of technical solutions

The image shows a stack of three overlapping information sheets for the topic 'PRODUCTIVITY'. Each sheet is a form with a red header and a white body. The forms are arranged in a descending staircase pattern from top-left to bottom-right. The top sheet is the most visible and shows the following structure:

- Header:** PRODUCTIVITY
- Section 1:** Definitions and utility
- Section 2:** Conditions for success
- Section 3:** Disadvantages
- Section 4:** Advantages
- Section 5:** Drawbacks
- Section 6:** Examples of use cases
- Section 7:** Examples of technical solutions

# EXAMPLE OF ALIGNMENT

## CUSTOMER DATA INTEGRATION FOR THE PRODUCTIVITY BUSINESS CARD

### #1. Implementation

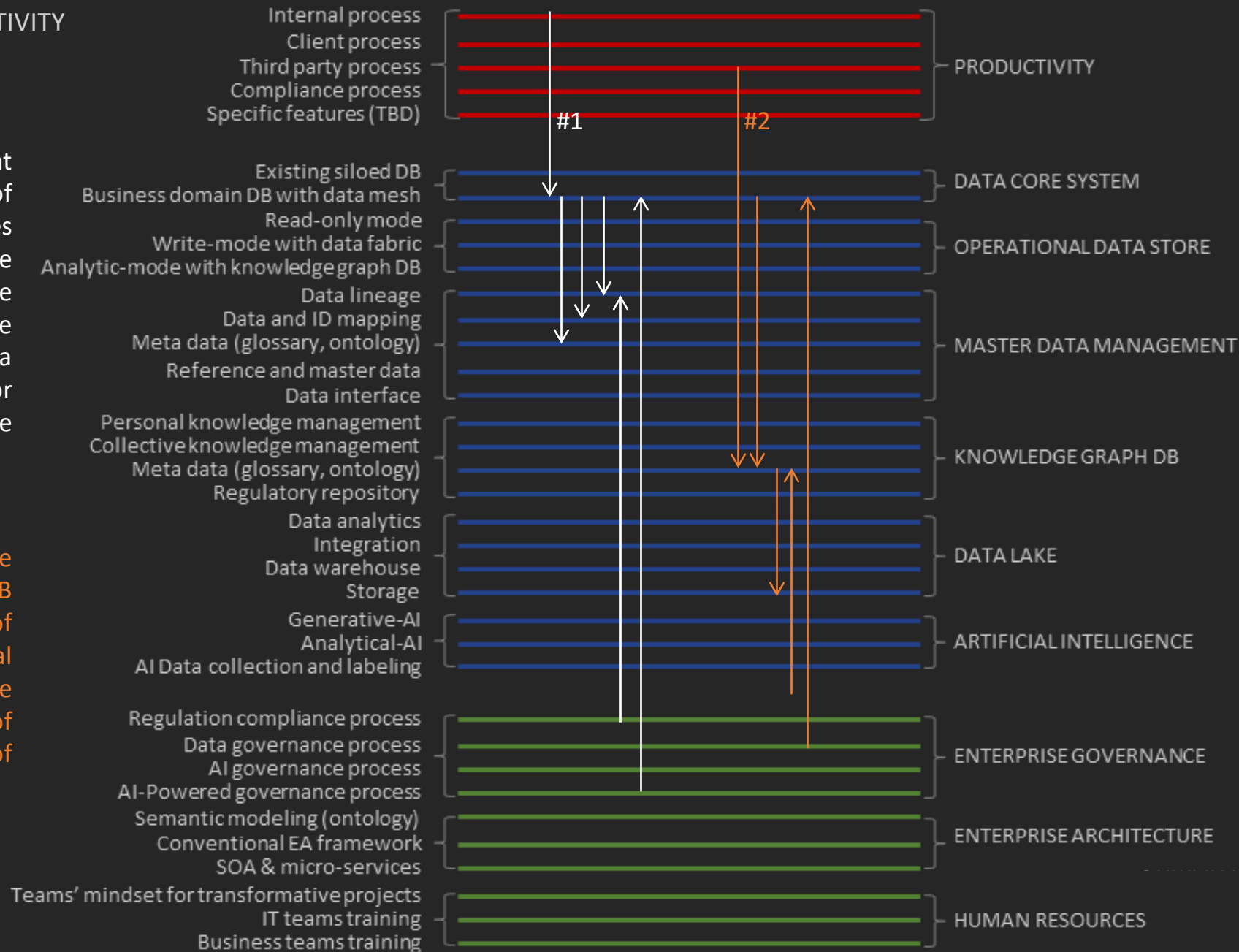
Increased productivity of the internal client management process through the implementation of a read-only Operational Data Store (ODS) that relies on Master Data Management (MDM) for the management of reference and master data, and the deduplication of identifiers. Data governance supports the deduplication rules and the data lifecycle. Implementation of semantic modeling for the creation of a unified model of the 360-degree representation of clients.

### #2. Regulatory compliance

Copying of the ODS into a regulatory compliance analysis repository through knowledge graph DB technology. Generative AI supports the analysis of knowledge graphs on customers to detect atypical cases, fraud, and commercial opportunities. The whole is based on corporate governance in terms of regulatory compliance as well as the governance of the existing AI

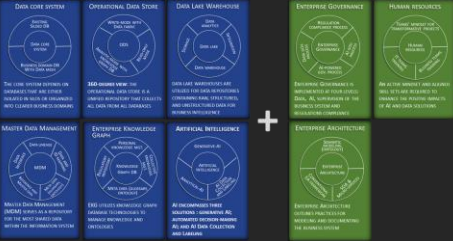
## TOPICS

## CARDS



# PROCEDURE FOR USING THE **TRAIDA** FRAMEWORK

**#1. CHECK YOUR ALIGNMENT FOR TRANSFORMATIVE AI AND DATA SOLUTIONS**



**#2. HIGHLIGHT THE FUNDAMENTAL CHOICES OF THE BUSINESS NEEDS**



**#3. ENGAGE YOUR TRANSFORMATIVE PROJECTS**



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## WHITE PAPER

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### SEMANTIC PLATFORM FOR THE DEPLOYMENT OF AI AND DATA ON A LARGE SCALE IN THE COMPANY

INTRODUCTION TO THE TRAIIDA FRAMEWORK (TRANSFORMATIVE AI AND DATA SOLUTIONS)

March 04, 2024

This report in English is the original version of the text, also available in French on our website: [www.engage-meta.com](http://www.engage-meta.com)

**Keywords:** business system, systemic approach, semantic platform, knowledge graph-oriented database, data governance, AI governance, responsible AI.

In this report, we refer to the "business system" as the overall system that enables the company to carry out its activities. It includes the information system (applications, databases, automated processes, infrastructures), the organization (actors, roles, non-computerized knowledge and processes, values, human resource management policy) and AI algorithms.



#### INTRODUCTION

This report presents a comprehensive approach to the large-scale implementation of artificial intelligence (AI) within businesses, emphasizing both strategic and technical perspectives. Our focus is on establishing an architecture and framework tailored for the expansive deployment of AI throughout an organization's entire business system, rather than relying solely on vertical AI applications. This white paper aims to serve as a foundational guide for executives and decision-makers, even those without a technical background, to initiate more operational tasks like strategic business framing of responsible AI, understanding its impact on team activities, training requirements, software tooling, and identifying initial application cases. While we concentrate on the architecture of the business system, our goal is to enhance your understanding of IT domain and grasp the key trends shaping the evolution of your business in the era of AI, equipping you with the knowledge to align your business system with the transformative power of AI and its data.

#### AUTHORS

The main author is **Pierre Bonnet**, an expert in enterprise architecture, data governance, and supporting companies in integrating new technologies. He is also the founder of the Engage-Meta community, a think tank focused on developing practices to enhance knowledge accumulation, as well as data and AI practices. **Professor Nguyễn Xuân Hải**, an expert in artificial intelligence and Head of AI Academy Vietnam is the co-author.

- Pierre Bonnet – HFL Consulting – [pierre.bonnet@hfl.com](mailto:pierre.bonnet@hfl.com)
- Nguyễn Xuân Hải – AI Academy – [nxh@aiacademy.edu.vn](mailto:nxh@aiacademy.edu.vn) ([www.aiacademy.edu.vn](http://www.aiacademy.edu.vn))

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SEMANTIC PLATFORM FOR THE DEPLOYMENT OF AI AND DATA ON A LARGE SCALE IN THE COMPANY – MARCH 04, 2024 Page: 1

## EXECUTIVE SUMMARY

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### MAINTAIN CONTROL OF YOUR IT + AI THROUGH THE MINIMUM VIABLE SCALE



INTRODUCTION TO THE TRAIIDA FRAMEWORK (TRANSFORMATIVE AI AND DATA SOLUTIONS)

March 22, 2024

This French report is a translation of the original English version report, also available on our website: [www.engage-meta.com](http://www.engage-meta.com)

The author of this paper is **Pierre Bonnet**, an expert in Enterprise Architecture (EA), data governance (Master Data Management), and assisting companies in integrating new technologies. He is also the founder of the Engage-Meta community, a think tank focused on developing practices to enhance knowledge accumulation, as well as practices around data and AI. Pierre Bonnet – HFL Consulting – [pierre.bonnet@hfl.com](mailto:pierre.bonnet@hfl.com)

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#### Table of Contents

INTRODUCTION.....	2
NEW IT RISKS.....	2
CLASSICAL APPROACHES TO IT ARCHITECTURE.....	3
PROPOSITION FOR A NEW APPROACH.....	3
CONCLUSION.....	4

MAINTAIN CONTROL OF YOUR IT + AI THROUGH THE MINIMUM VIABLE SCALE – MARCH 22, 2024 Page: 1



# OUR MISSION

- I. HELP YOUR TECHNICAL EXPERTS MAINTAIN A GLOBAL VISION OF THE ARCHITECTURE AND CHALLENGE YOUR TECHNICAL SOLUTIONS TO IMPROVE THEM
- II. FINALIZE THE DRAFTING OF THE TRAIDA THEMATIC SHEETS AND CUSTOMIZE THEM TO YOUR CONTEXT
- III. PROVIDE THE MARKET WITH THE TRAIDA FRAMEWORK AS OPEN SOURCE SO THAT IT BECOMES ESTABLISHED AS A STANDARD FOR ASSISTING IN THE CREATION OF THE MVS ARCHITECTURE

# THANK YOU

## FOLLOW ME ON LINKEDIN

