ENGAGE
META
PRESENTS

TRANSFORMATIVE
AI & DATA SOLUTION

TRAIDA
FRAMEWORK

VERSION: JANUARY 30, 2024

WWW.ENGAGE-META.COM

ENGAGE-META combines knowledge graph with semantic managment, digitalization, AI and intra[inter]preneurship practices

This is a holistic approach for transformative AI and data solutions

By using straightforward frameworks that assist in formalizing individual and collective knowledge in a unified manner, you can achieve success in your transformative AI and data solutions

Bridging multiple disciplines is a challenging task that requires a synthesis of diverse skills and practices. However, we are confident that this approach is key to illuminating the complexities of modern business systems.

If you're uncertain about how transformative AI and data solutions impact your organization, you risk accumulating errors and misconceptions, particularly in AI applications.

Mastering this new complexity is contingent upon engaging an active mindset among all stakeholders. This includes fostering the accumulation of individual and collective knowledge in a semantic manner, essential for powering AI engines.

TRAIDA FRAMEWORK
AI AND DATA SOLUTIONS AT SCALE

CREATED BY EXPERTS IN DATA AND AI AND RELEASED UNDER CREATIVE COMMONS

By working synergistically with our clients and partners, we pave the way to mastering transformative AI and data solutions.

TRAIDA FRAMEWORK

PIERRE BONNET

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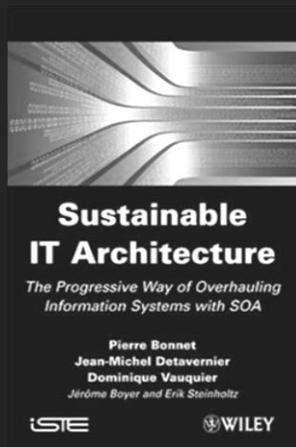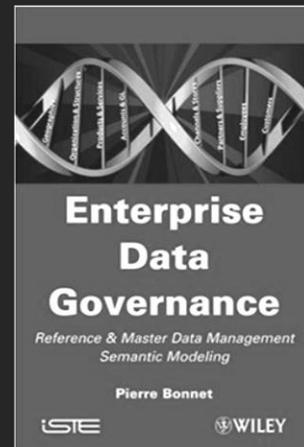
EA + SOA   DATA   IS RATING   MINDSET
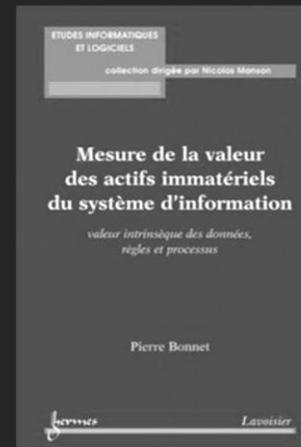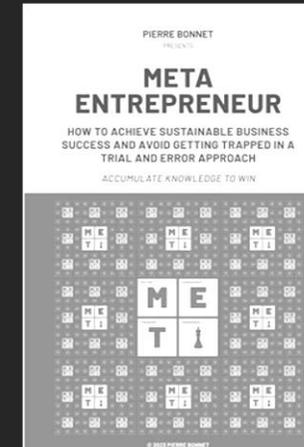
Direct access to the table of contents

TRAIDA FRAMEWORK
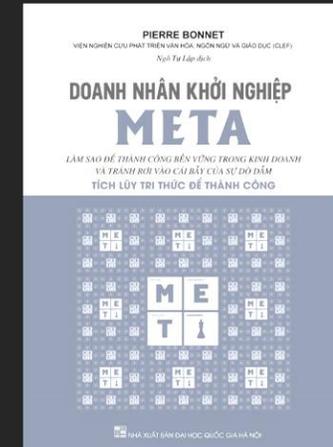
AI ACADEMY COLLABORATES WITH
THE ENGAGE-META COMMUNITY

FOR THE TRAIDA FRAMEWORK, AI ACADEMY VIETNAM STANDS
AS THE PREMIER CONTRIBUTOR, DEVELOPING AI-RELATED CARDS,
DELIVERING MASTERCLASS TRAINING ON AI, AND CONSTRUCTING
SEMANTICALLY-DRIVEN ENTERPRISE AI GOVERNANCE PLATFORMS

Tầng 2, toà CT1 Tràng An complex, số 1 Phùng Chí Kiên, phường Nghĩa Đô, quận Cầu Giấy, TP Hà Nội -
nxhoai@aiacademy.edu.vn - https://aiacademy.edu.vn/home

Direct access to the table of contents

TRAIDA FRAMEWORK

TABLE OF CONTENTS

Use this button for direct access to the topic

TRAIDA FRAMEWORK

WE AIM TO DELIVER A HOLISTIC ANALYSIS OF YOUR DATA AND AI

TWO MAIN ISSUES

DISPARATE INITIATIVES (SILOS) IN DATA AND AI SOLUTIONS ENTAIL BUSINESS ERRORS AND MISALIGNMENT BETWEEN IT AND BUSINESS OBJECTIVES

BUSINESS CONSULTING FIRMS MAY LACK ACTIONABLE INSIGHTS FOR SUCH TECHNOLOGY-DRIVEN CHANGES AND IT EXPERTISE OFFERS A NARROW SLICE OF THE OVERALL TRANSFORMATION PROCESS

OUR PROPOSAL

ANALYZE AND FIX YOUR SILOS AND DATA PAINS TO ESTABLISH THE FOUNDATION FOR SCALABLE DATA SOLUTIONS AND AI

BY USING THE TRAIDA FRAMEWORK COMPRISING A BODY OF BEST-PRACTICES TO ASSESS AND GUIDE THE IMPLEMENTATION OF YOUR TRANSFORMATIVE AI AND DATA SOLUTIONS ACROSS YOUR BUSINESS SYSTEM

Direct access to the table of contents

TRAIDA FRAMEWORK

OUR VISION FOR TRANSFORMATIVE AI AND DATA SOLUTIONS

▶ Direct access to the table of contents

TRAIDA FRAMEWORK

You are facing a major integration problem

Your business system

Your AI-powered automatic decisions

?

Your information system

SILO   SILO   SILO   SILO

ETL/EAI

ANALYTICS

Your organization

Direct access to the table of contents
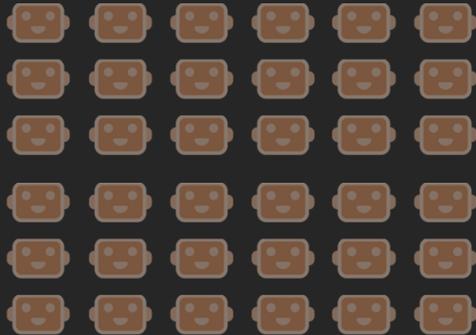
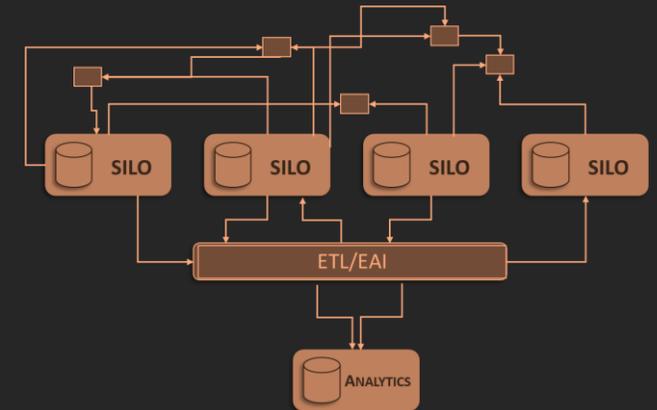# Integration is based on a semantic management platform

Direct access to the table of contents
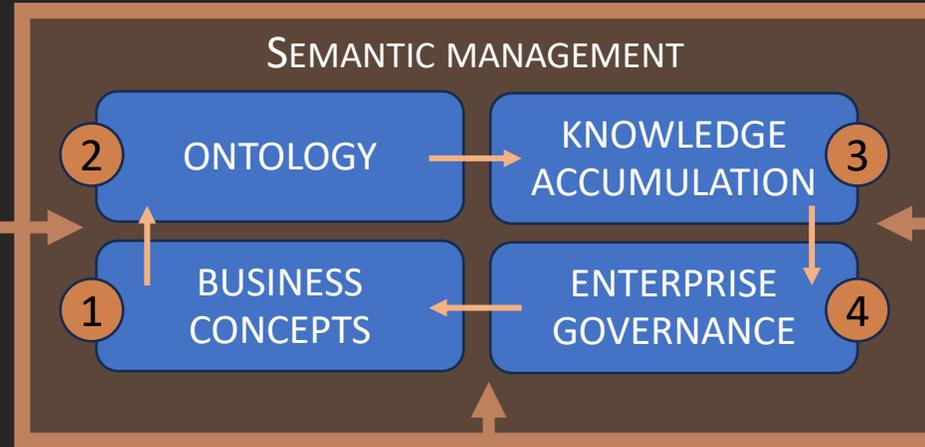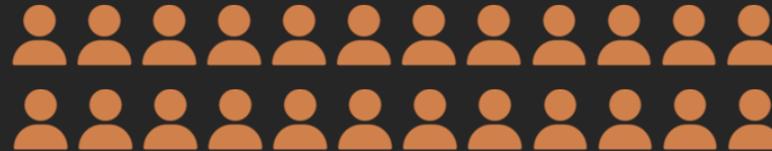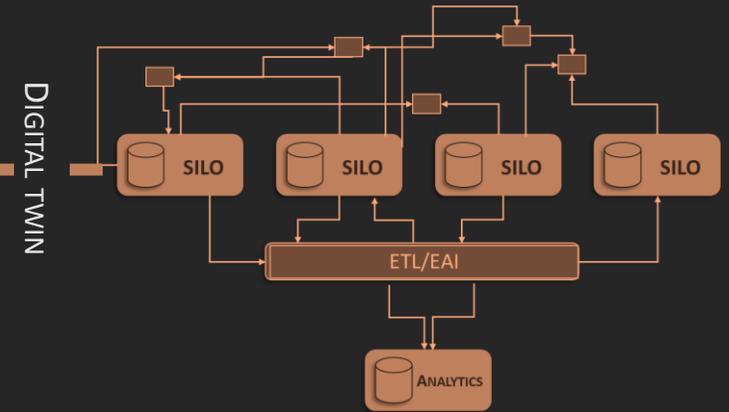
Ontology = unified semantic data model

Role Type

{Role Client: VIP, Normal,
Role Partner: B2C, B2B,
Employee: External, Internal }

categorized

played

*

ROLE {Client, Partner, Employee}

Person

NATURE

{Home, Work, Vacation}

located *

Location

Individual

Organization

Physical

Digital

Corporate

Not for profit

TRAIDA FRAMEWORK

FROM SILOS TO ONTOLOGY

SILOS

| HR | SUPPLIER | R&D | SALES | MARKETING | CUSTOMER | SUPPLY CHAIN | ACCOUNTING |

ETL-EAI

ROLE TYPE

{ROLE CLIENT: VIP, NORMAL,
ROLE PARTNER: B2C, B2B,
EMPLOYEE: EXTERNAL, INTERNAL }

CATEGORIZED

PLAYED

*

ROLE   {CLIENT, PARTNER, EMPLOYEE}

PERSON   NATURE   LOCATED   *   LOCATION

{HOME, WORK, VACATION}

INDIVIDUAL   ORGANIZATION   PHYSICAL   DIGITAL

CORPORATE   NOT FOR PROFIT

KNOWLEDGE GRAPH DB

Part 01: Vision & Solution

TRAIDA FRAMEWORK

TOWARDS GOVERNANCE

SILOS + AI

SILOS

HR	SUPPLIER	R&D	SALES	MARKETING	CUSTOMER	SUPPLY CHAIN	ACCOUNTING

ETL-EAI
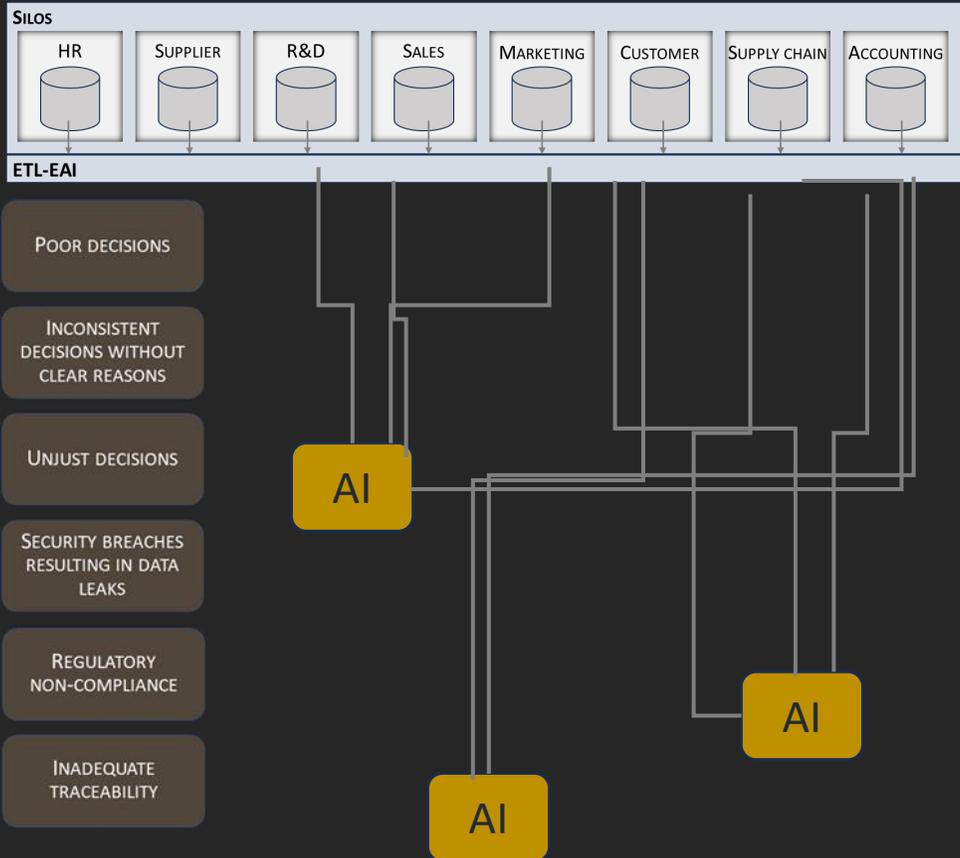
- POOR DECISIONS
- INCONSISTENT DECISIONS WITHOUT CLEAR REASONS
- UNJUST DECISIONS
- SECURITY BREACHES RESULTING IN DATA LEAKS
- REGULATORY NON-COMPLIANCE
- INADEQUATE TRACEABILITY

AI

AI

AI

VERSUS

ONTOLOGY + AI

SILOS

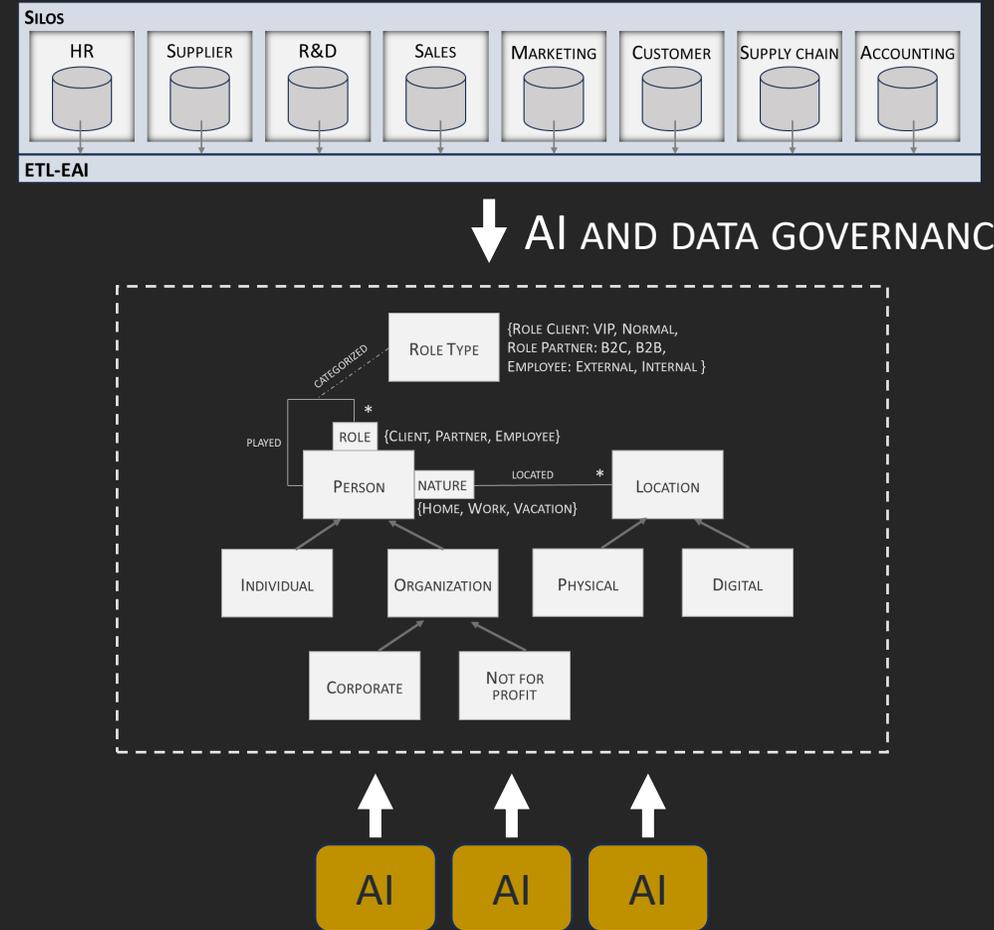| HR	SUPPLIER	R&D	SALES	MARKETING	CUSTOMER	SUPPLY CHAIN	ACCOUNTING

ETL-EAI

↓ AI AND DATA GOVERNANCE

ROLE TYPE — {ROLE CLIENT: VIP, NORMAL, ROLE PARTNER: B2C, B2B, EMPLOYEE: EXTERNAL, INTERNAL }

CATEGORIZED

PLAYED *

ROLE {CLIENT, PARTNER, EMPLOYEE}

PERSON — NATURE {HOME, WORK, VACATION} — LOCATED * — LOCATION

- INDIVIDUAL
- ORGANIZATION
- PHYSICAL
- DIGITAL

- CORPORATE
- NOT FOR PROFIT

AI **AI** **AI**

Direct access to the table of contents

TRAIDA FRAMEWORK

ENGAGE META

Definition

DIGITAL TWIN

CREATES A UNIFIED ABSTRACTION LAYER (PROCESSES, RULES, DATA) TO PREVENT DIRECT CONNECTIONS TO INTERNAL AND PHYSICAL SYSTEMS. THIS APPROACH ENHANCES SECURITY AND STABILITY FOR DATA, RULES, AND PROCESSES BY UTILIZING AI

HUMAN-IN-THE-LOOP

ESSENTIAL FOR KNOWLEDGE ACCUMULATION, FEEDING THE AI MACHINE, AND FOSTERING COLLABORATION BETWEEN HUMANS AND AI

Direct access to the table of contents

TRAIDA FRAMEWORK

Definition

AI Governance
Ensures that all AI endpoints interact with the digital twin, providing security, traceability, transparency, and stability

TRAIDA FRAMEWORK

Definition

Semantic management

The core of the digital twin, facilitating interconnection with Human-in-the-Loop, AI Governance, and AI-Powered Governance. It depends on a structured description of business concepts and their relationships through ontologies within a Knowledge Graph repository. This setup enables knowledge accumulation and comprehensive governance of key Information System assets like processes, rules, and data

▶ Direct access to the table of contents

TRAIDA FRAMEWORK

THE BUSINESS SYSTEM IS OVERSEEING BY AN INDEPENDENT NERVE CENTER

YOUR NERVE CENTER
(THE SECOND BRAIN)

AI-POWERED GOVERNANCE

AI-POWERED GOVERNANCE

AN INDEPENDENT AI SYSTEM DESIGNED TO OVERSEE THE DIGITAL TWIN AND INTERNAL SYSTEMS. IT ALERTS TO ATYPICAL USES (SUCH AS FRAUD OR BUGS) AND DETECTS POTENTIAL IMPROVEMENTS, FUNCTIONING AKIN TO A 'SECOND BRAIN'
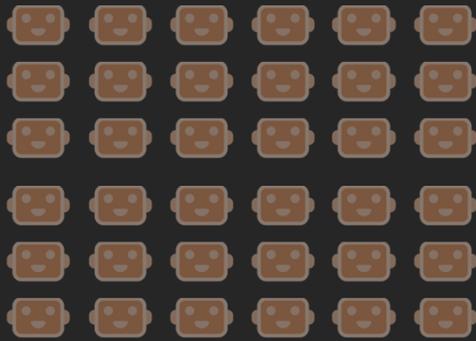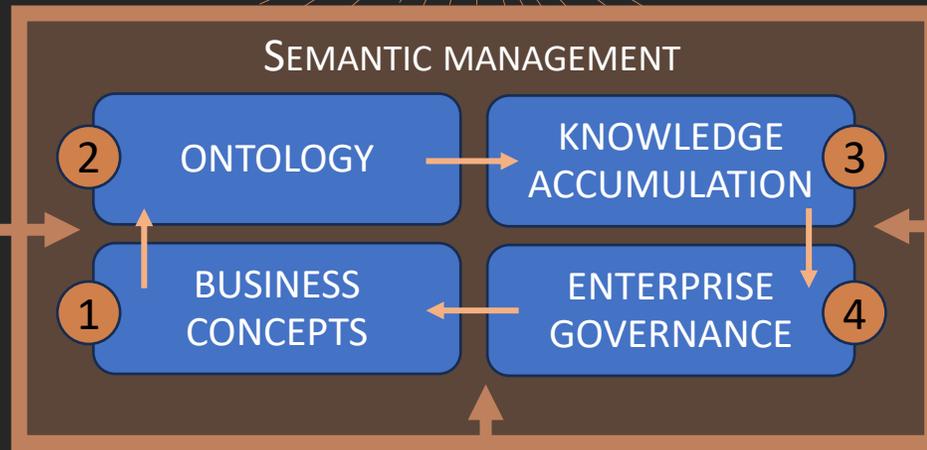
TRAIDA FRAMEWORK

Final blueprint

Your nerve center
(The second brain)

Your AI-powered automatic decisions

Your business system

AI-powered governance

Semantic management

2 **Ontology**

3 **Knowledge accumulation**

1 **Business concepts**

4 **Enterprise governance**

AI governance

Your information system

Digital twin

SILO SILO SILO SILO

ETL/EAI

Analytics

Human-in-the-loop

Your organization

Direct access to the table of contents

Part 01: Vision & Solution

TRAIDA FRAMEWORK

ENGAGE META

YOUR NERVE CENTER
(THE SECOND BRAIN)

AI-POWERED GOVERNANCE

SEMANTIC MANAGEMENT

2 — ONTOLOGY → KNOWLEDGE ACCUMULATION — 3

1 — BUSINESS CONCEPTS ← ENTERPRISE GOVERNANCE — 4

THE SEMANTIC MANAGEMENT LAYER IS BASED ON THE USE OF KNOWLEDGE GRAPH DATABASE

ONTOLOGY

THE KNOWLEDGE GRAPH SERVES AS A STRATEGIC REPOSITORY FOR STORING BUSINESS CONCEPTS, KEY PROCESSES, AND RULES THROUGH ONTOLOGIES

IT FACILITATES THE CREATION OF A DIGITAL TWIN OF THE EXISTING SYSTEM AND PROVIDES AN ABSTRACTION LAYER FOR SECURE AND EFFICIENT IMPLEMENTATION OF AI, DATA SOLUTIONS, AND GOVERNANCE.

TACTICAL REPOSITORY

ADDITIONALLY, THE KNOWLEDGE GRAPH ACTS AS A TACTICAL REPOSITORY TO ASSIMILATE EXTENSIVE KNOWLEDGE, SUCH AS REGULATORY FILES OR OTHER DOCUMENTATION

IT CAN COMPUTE CORRELATIONS, CAUSATIONS, AND VERSION DIFFERENCES COST-EFFECTIVELY, WITHOUT THE NEED FOR SCHEMA-ORIENTED DEVELOPMENT. AT THE HEART OF NO CODE TOOLS, THE KNOWLEDGE GRAPH SIGNIFICANTLY ACCELERATES THE ADOPTION OF DATA SOLUTIONS AND AI.
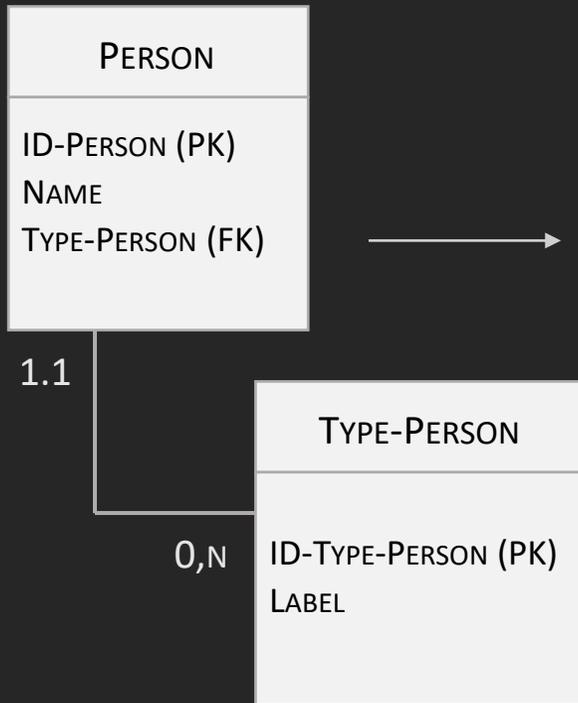
KNOWLEDGE ACCUMULATION

LASTLY, IT IS INSTRUMENTAL IN ACCUMULATING KNOWLEDGE WITHIN ANY ORGANIZATION, BOTH AT THE INDIVIDUAL AND COLLECTIVE LEVELS

Direct access to the table of contents

TRAIDA FRAMEWORK

CRITERIA TO CLASSIFY INFORMATION MANAGEMENT TECHNOLOGIES

	LLM	KNOWLEDGE GRAPH	OLTP
PROBABILISTIC	✓	✕	✕
DETERMINISTIC	✕	✓	✓
TRANSACTIONAL - INTEGRITY	✕	✕ ✓	✓
CARDINALITY MANAGEMENT	✕	✕ ✓	✓
HUMAN LANGUAGE READABLE	✓	✓	✕
RISK OF HALLUCINATION	✓	✕	✕
COGNITIVE CAPABILITY (E.G., INFERRED RELATION)	✓	✓	✕
UI ON STRUCTURED DATA & GOVERNANCE BUSINESS FEATURES	✕	✓	✓
DATA UPDATE ON LARGE VOLUME & REAL-TIME	✕	✓	✓
	GENERATIVE AI	SEMANTIC MANAGEMENT	TRANSACTIONAL DATA

Direct access to the table of contents

TRAIDA FRAMEWORK

Relational database versus graph

Relational tables

PERSON

ID-PERSON (PK)
NAME
TYPE-PERSON (FK)

1.1

TYPE-PERSON

ID-TYPE-PERSON (PK)
LABEL

0,N

GRAPH – COMPLETELY UNFOLDED

GRAPH – COMPACTED VIEW

Direct access to the table of contents
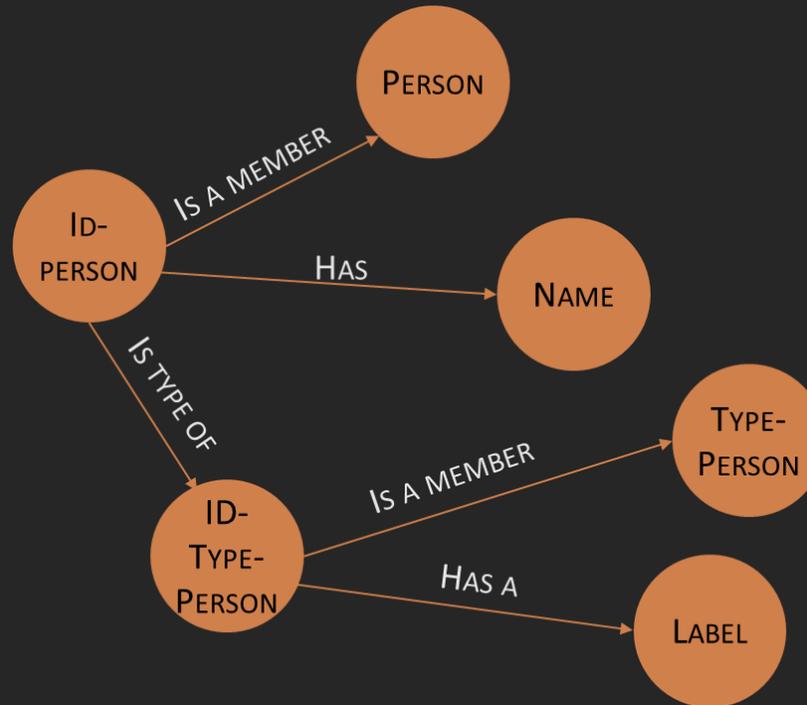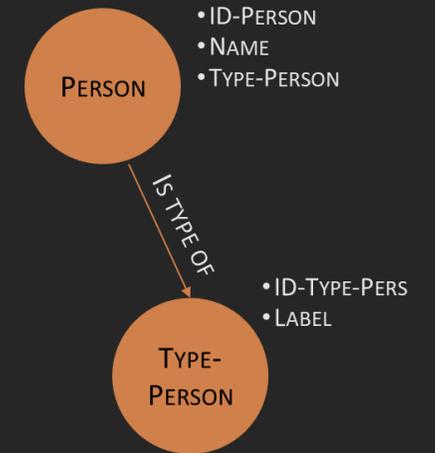
RELATIONAL DATABASE VERSUS GRAPH

RELATIONAL TABLES

✓

HIGHLY SECURE FOR DATA UPDATE PROCESSING BY ENFORCING INTEGRITY RULES DIRECTLY AT THE DATA MODEL LEVEL

✗

RIGID DATA MANAGEMENT WITHOUT A DEEP SEMANTIC UNDERSTANDING BY NON-IT EXPERTS. NOT EASY FOR BUSINESS QUERY PROCESSES
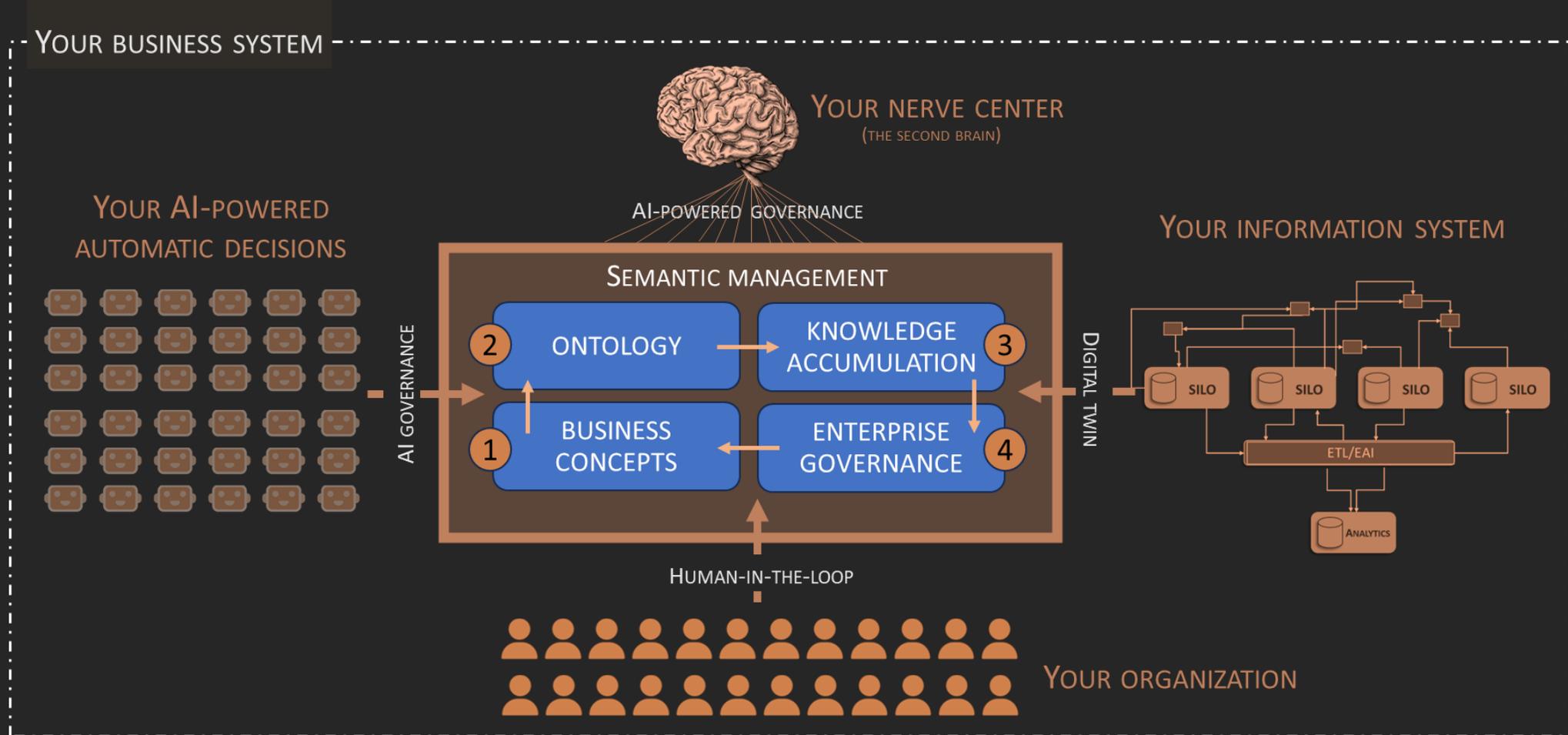
GRAPH

✓

HIGH FLEXIBILITY IN RELATIONSHIPS, INCLUDING INFERRED LINKS AND DYNAMIC CREATION, ALLOWS FOR AN EASY TRANSITION FROM A DATA MODEL VIEW TO AN INSTANCE VIEW, MAKING IT USER-FRIENDLY FOR BUSINESS USERS

✗

IT BECOMES RISKY DURING DATA UPDATING PROCESSES DUE TO THE ABSENCE OF INTEGRATED INTEGRITY RULES, REQUIRING SPECIFIC MANUAL CODING FOR EACH CASE

TRAIDA FRAMEWORK

FINDINGS ABOUT THE VISION

YOUR BUSINESS SYSTEM

YOUR NERVE CENTER
(THE SECOND BRAIN)

AI-POWERED GOVERNANCE

YOUR AI-POWERED
AUTOMATIC DECISIONS

YOUR INFORMATION SYSTEM

SEMANTIC MANAGEMENT

AI GOVERNANCE

2 ONTOLOGY → **3** KNOWLEDGE ACCUMULATION

1 BUSINESS CONCEPTS ← **4** ENTERPRISE GOVERNANCE

DIGITAL TWIN

SILO   SILO   SILO   SILO

ETL/EAI

ANALYTICS

HUMAN-IN-THE-LOOP

YOUR ORGANIZATION

Direct access to the table of contents

TRAIDA FRAMEWORK

ALIGNMENT OF OUR VISION WITH THE STATE OF ART

▶ Direct access to the table of contents

ONTOLOGY AND AI WITH PALENTIR

HTTPS://WWW.PALANTIR.COM/PLATFORMS/AIP

Connect AI to Enterprise Data.

The Ontology integrates real-time data from all relevant sources into a semantic model of the business. This anchors AI in the operational truth of the enterprise, mitigating the risk of model hallucinations and creating the trust needed for decision-making.

Direct access to the table of contents

Ontology and AI with Palentir

2: Query objects (ontology)

3: Object selection (e.g. flight table)

1: Prompt building

Direct access to the table of contents

THE TRAIDA FRAMEWORK

▶ Direct access to the table of contents

TRAIDA FRAMEWORK

✓ INTEGRATING BEST PRACTICES IN DATA SOLUTIONS AND AI FROM THREE KEY PERSPECTIVES
IT + **GOVERNANCE** = **BUSINESS**

CARDS SET
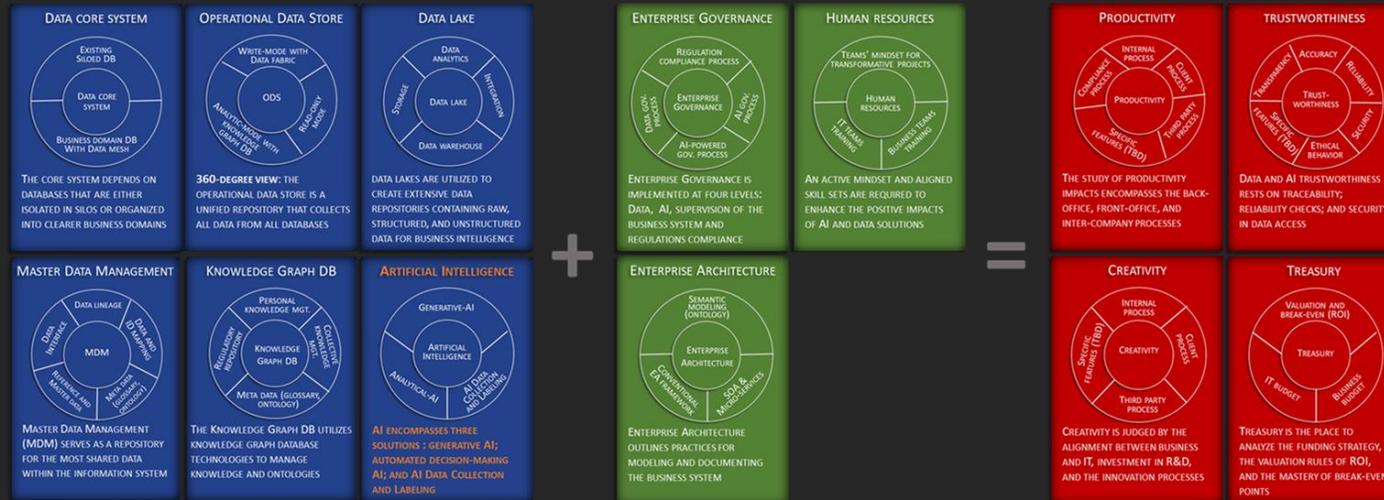
▶ Direct access to the table of contents

PROCEDURE FOR USING THE TRAIDA FRAMEWORK

#1. MEASURE YOUR LEVEL OF MATURITY IN IT AND GOVERNANCE FOR TRANSFORMATIVE AI AND DATA SOLUTIONS

#2. HIGHLIGHT THE FUNDAMENTAL CHOICES OF ALIGNMENT WITH BUSINESS NEEDS

#3. ENGAGE YOUR TRANSFORMATIVE PROJECTS

Direct access to the table of contents

TRAIDA FRAMEWORK

PROCEDURE FOR USING THE TRAIDA FRAMEWORK

#1. MEASURE YOUR LEVEL OF MATURITY IN IT AND GOVERNANCE FOR TRANSFORMATIVE AI AND DATA SOLUTIONS

LET'S EXPLORE THE FIRST STEP

#2. HIGHLIGHT THE FUNDAMENTAL CHOICES OF ALIGNMENT WITH BUSINESS NEEDS

#3. ENGAGE YOUR TRANSFORMATIVE PROJECTS

Direct access to the table of contents

TRAIDA FRAMEWORK

MEASURE YOUR SYSTEM WITH THE IT AND GOVERNANCE CARDS

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

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

KNOWLEDGE GRAPH DB
THE KNOWLEDGE GRAPH DB UTILIZES KNOWLEDGE GRAPH DATABASE TECHNOLOGIES TO MANAGE KNOWLEDGE AND ONTOLOGIES

DATA LAKE
DATA LAKES ARE UTILIZED TO CREATE EXTENSIVE DATA REPOSITORIES CONTAINING RAW, STRUCTURED, AND UNSTRUCTURED DATA FOR BUSINESS INTELLIGENCE

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

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

ENTERPRISE ARCHITECTURE
ENTERPRISE ARCHITECTURE OUTLINES PRACTICES FOR MODELING AND DOCUMENTING THE BUSINESS SYSTEM

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

LOW	MEDUIM	HIGH
THE COMPANY HAS LIMITED DATA AND AI CAPABILITIES WITH AD-HOC AND UNORGANIZED PROCESSES. THERE'S A LACK OF FORMAL STRATEGIES AND THE USE OF DATA AND AI IS NOT SYSTEMATIC	THE COMPANY HAS BEGUN TO DEVELOP DATA AND AI CAPABILITIES BUT LACKS STANDARDIZATION. EFFORTS ARE PROJECT-BASED AND NOT YET FULLY INTEGRATED INTO BUSINESS PROCESSES	THE COMPANY HAS ESTABLISHED STANDARDIZED DATA AND AI PRACTICES. THERE'S A CLEAR STRATEGY, AND THESE TECHNOLOGIES ARE BEING INTEGRATED INTO OPERATIONS WITH MODERATE SUCCESS

Direct access to the table of contents

TRAIDA FRAMEWORK

13 CARDS AND 49 TOPICS

6 IT CARDS
21 TOPICS

DATA CORE SYSTEM

- Existing Siloed DB
- DATA CORE SYSTEM
- Business domain DB with Data mesh

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

OPERATIONAL DATA STORE

- Write-mode with Data fabric
- ODS
- Read-only mode
- Analytic-mode with knowledge graph DB

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

DATA LAKE

- Data analytics
- Integration
- Data lake
- Storage
- Data warehouse

DATA LAKES ARE UTILIZED TO CREATE EXTENSIVE DATA REPOSITORIES CONTAINING RAW, STRUCTURED, AND UNSTRUCTURED DATA FOR BUSINESS INTELLIGENCE

MASTER DATA MANAGEMENT

- Data lineage
- Data and ID mapping
- Data interface
- MDM
- Meta data (glossary, ontology)
- Reference and master data

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

KNOWLEDGE GRAPH DB

- Personal knowledge mgt.
- Collective knowledge mgt.
- Regulatory repository
- Knowledge Graph DB
- Meta data (glossary, ontology)

THE KNOWLEDGE GRAPH DB UTILIZES KNOWLEDGE GRAPH DATABASE TECHNOLOGIES TO MANAGE KNOWLEDGE AND ONTOLOGIES

ARTIFICIAL INTELLIGENCE

- Generative-AI
- Artificial Intelligence
- AI Data Collection and Labeling
- Analytical-AI

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

+

3 GOVERNANCE CARDS
10 TOPICS

ENTERPRISE GOVERNANCE

- Regulation compliance process
- Enterprise Governance
- Data gov. process
- AI gov. process
- AI-powered gov. process

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

HUMAN RESOURCES

- Teams' mindset for transformative projects
- Human resources
- IT teams training
- Business teams training

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

ENTERPRISE ARCHITECTURE

- Semantic modeling (ontology)
- Enterprise Architecture
- Conventional EA framework
- SOA & Micro-services

ENTERPRISE ARCHITECTURE OUTLINES PRACTICES FOR MODELING AND DOCUMENTING THE BUSINESS SYSTEM

=

4 BUSINESS CARDS
18 TOPICS

PRODUCTIVITY

- Internal process
- Client process
- Compliance process
- Productivity
- Third party process
- Specific features (TBD)

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

TRUSTWORTHINESS

- Accuracy
- Reliability
- Transparency
- Trust-worthiness
- Security
- Specific features (TBD)
- Ethical behavior

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

CREATIVITY

- Internal process
- Client process
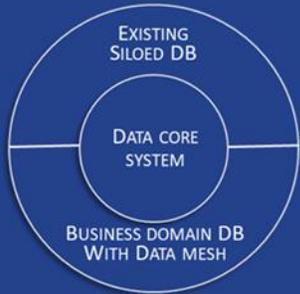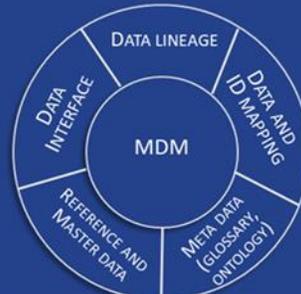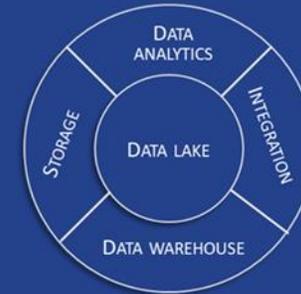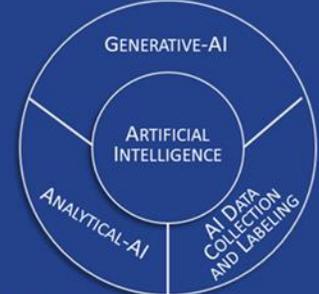- Specific features (TBD)
- Creativity
- Third party process

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

TREASURY

- Valuation and break-even (ROI)
- Treasury
- IT budget
- Business budget

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

▶ Direct access to the table of contents

TRAIDA FRAMEWORK

Exploring how data and AI technologies are implemented across six key IT domains

Data core system

EXISTING SILOED DB

DATA CORE SYSTEM

BUSINESS DOMAIN DB WITH DATA MESH

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

Operational Data Store

WRITE-MODE WITH DATA FABRIC

ODS

ANALYTIC-MODE WITH KNOWLEDGE GRAPH DB

READ-ONLY MODE

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

Master Data Management

DATA LINEAGE

DATA INTERFACE

DATA AND ID MAPPING

MDM

REFERENCE AND MASTER DATA

META DATA (GLOSSARY, ONTOLOGY)

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

Knowledge Graph DB

PERSONAL KNOWLEDGE MGT.

REGULATORY REPOSITORY

KNOWLEDGE GRAPH DB

COLLECTIVE KNOWLEDGE MGT.

META DATA (GLOSSARY, ONTOLOGY)

THE KNOWLEDGE GRAPH DB UTILIZES KNOWLEDGE GRAPH DATABASE TECHNOLOGIES TO MANAGE KNOWLEDGE AND ONTOLOGIES

Data Lake

DATA ANALYTICS

STORAGE

DATA LAKE

INTEGRATION

DATA WAREHOUSE

DATA LAKES ARE UTILIZED TO CREATE EXTENSIVE DATA REPOSITORIES CONTAINING RAW, STRUCTURED, AND UNSTRUCTURED DATA FOR BUSINESS INTELLIGENCE

Artificial Intelligence

GENERATIVE-AI

ARTIFICIAL INTELLIGENCE

ANALYTICAL-AI

AI DATA COLLECTION AND LABELING

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

- ✓ EXISTING SILOED-DB
- ✓ BUSINESS DOMAIN DB WITH DATA MESH (DATA AS A PRODUCT)

- ✓ READ-ONLY MODE (INCLUDING VIRTUALIZATION)
- ✓ WRITE-MODE WITH DATA FABRIC (INCLUDING CDI)
- ✓ ANALYTICS-MODE (WITH KNOWLEDGE GRAPH DB)

- ✓ DATA LINEAGE (FLOWS)
- ✓ DATA INTERFACE (SOA)
- ✓ DATA AND ID MAPPING
- ✓ REFERENCE AND MASTER DATA
- ✓ METADATA (GLOSSARY, ONTOLOGY)

- ✓ PERSONAL KNOWLEDGE MGT.
- ✓ COLLECTIVE KNOWLEDGE MGT.
- ✓ REGULATORY REPOSITORY
- ✓ METADATA (GLOSSARY, ONTOLOGY)

- ✓ DATA ANALYTICS
- ✓ INTEGRATION
- ✓ DATA WAREHOUSE
- ✓ STORAGE

- ✓ GENERATIVE-AI
- ✓ ANALYTICAL-AI
- ✓ AI DATA COLLECTION AND LABELING

Direct access to the table of contents

TRAIDA FRAMEWORK

IT CARDS ANALYSIS

IT CARDS	Main pain points for the current system	Vision for the future system	Ability			Comment
			L	M	H	
DATA CORE SYSTEM The core system depends on databases that are either isolated in silos or organized into clearer business domains						
Existing siloed DB	xxx	xxx		☑		xxx
Business domain DB with data mesh	xxx	xxx	☑			xxx
OPERATIONAL DATA STORE 360-degree view: the operational data store is a unified repository that collects all data from all databases						
Read-only mode	xxx	xxx		☑		xxx
Write-mode with data frabric	xxx	xxx		☑		xxx
Analytic-mode with knowledge graph DB	xxx	xxx			☑	xxx
MASTER DATA MANAGEMENT Master Data Management (MDM) serves as a repository for the most shared data within the information system						
Data lineage	xxx	xxx	☑			xxx

Direct access to the table of contents

DEFINING THE GOVERNANCE OF DATA AND AI, INCLUDING HUMAN SKILLS

ENTERPRISE GOVERNANCE

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

ENTERPRISE ARCHITECTURE

ENTERPRISE ARCHITECTURE OUTLINES PRACTICES FOR MODELING AND DOCUMENTING THE BUSINESS SYSTEM

HUMAN RESOURCES

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

- ✓ REGULATIONS COMPLIANCE PROCESS
- ✓ AI GOVERNANCE PROCESS
- ✓ AI-POWERED GOVERNANCE PROCESS
- ✓ DATA GOVERNANCE PROCESS (QUALITY, CLEANSING...)
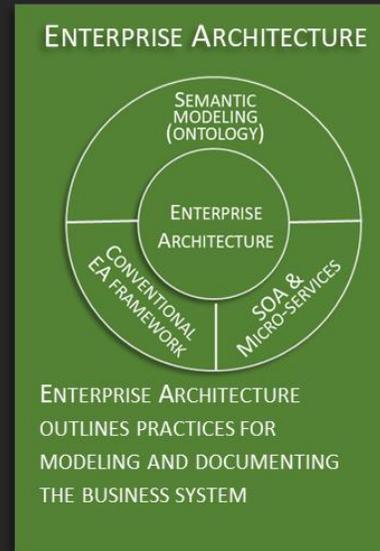
- ✓ CONVENTIONAL EA FRAMEWORK
- ✓ SEMANTIC MODELING (ONTOLOGY)
- ✓ SOA & MICRO-SERVICES PRACTICES

- ✓ TEAMS' MINDSET FOR TRANSFORMATIVE PROJECTS
- ✓ IT TEAMS TRAINING
- ✓ BUSINESS TEAMS TRAINING

Direct access to the table of contents

TRAIDA FRAMEWORK

GOVERNANCE CARDS ANALYSIS

Governance CARDS	Main pain points for the current system	Vision for the future system	Ability			Comment
			L	M	H	
ENTERPRISE GOVERNNANCE Enterprise Governance is implemented at four levels: Data, AI, supervision of the business system and regulations compliance						
Regulation compliance process	xxx	xxx		☑		xxx
Data governance process	xxx	xxx	☑			xxx
AI governance process	xxx	xxx		☑		xxx
AI-powered governance process	xxx	xxx			☑	xxx
ENTERPRISE ARCHITECTURE Enterprise Architecture outlines practices for modeling and documenting the business system						
Semantic modeling (ontology)	xxx	xxx		☑		xxx
Conventional EA frameworks	xxx	xxx		☑		xxx
SOA & microservices	xxx	xxx			☑	xxx
HUMAN RESOURCES An active mindset and aligned skill sets are required						

Direct access to the table of contents

TRAIDA FRAMEWORK

Procedure for using the TRAIDA Framework

#1. Measure your level of maturity in IT and governance for transformative AI and data solutions

↓

#2. Highlight the fundamental choices of alignment with business needs

↓

#3. Engage your transformative projects
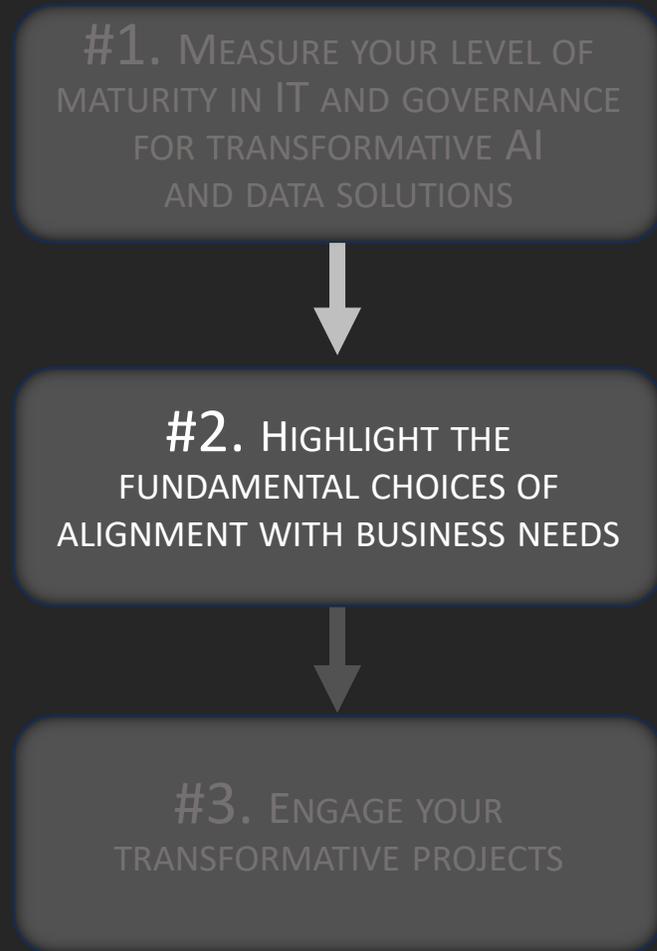
Let's explore the second step

▶ Direct access to the table of contents

TRAIDA FRAMEWORK

CONTRIBUTION OF DATA AND AI TO THESE FOUR BUSINESS INDICATORS:
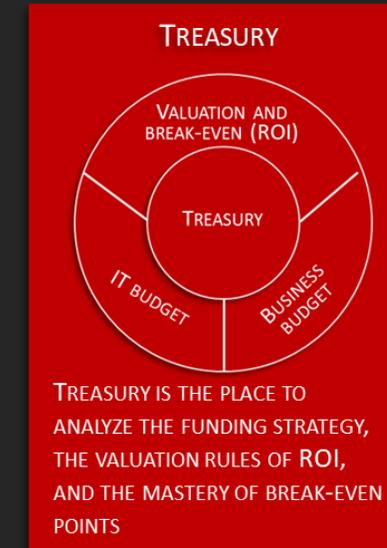## THE PRODUCTIVITY, THE TRUSTWORTHINESS, THE CREATIVITY, AND THE TREASURY

PRODUCTIVITY

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

- ✓ INTERNAL PROCESS
- ✓ CLIENT PROCESS
- ✓ THIRD PARTY PROCESS
- ✓ COMPLIANCE PROCESS
- ✓ SPECIFIC FEATURES (TBD)

TRUSTWORTHINESS

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

- ✓ ACCURACY
- ✓ RELIABILITY
- ✓ SECURITY
- ✓ ETHICAL BEHAVIOR
- ✓ TRANSPARENCY
- ✓ SPECIFIC FEATURES (TBD)
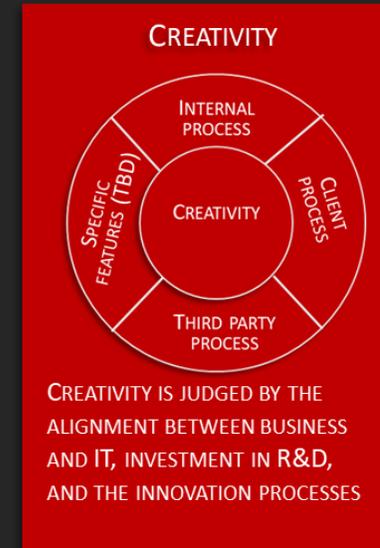
CREATIVITY

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

- ✓ INTERNAL PROCESS
- ✓ CLIENT PROCESS
- ✓ THIRD PARTY PROCESS
- ✓ SPECIFIC FEATURES (TBD)

TREASURY

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

- ✓ VALUATION AND BREAK-EVEN (ROI)
- ✓ IT BUDGET
- ✓ BUSINESS BUDGET

TRAIDA FRAMEWORK

HIGHLIGHT THE CONNECTIONS BETWEEN BUSINESS, IT, AND GOVERNANCE IN A PROGRESSIVE MANNER

Direct access to the table of contents

TRAIDA FRAMEWORK

Highlight the connections between business, IT, and governance in a progressive manner

CURRENT SYSTEM

EXPECTED TARGET

PROCEDURE FOR USING THE TRAIDA FRAMEWORK

#1. MEASURE YOUR LEVEL OF MATURITY IN IT AND GOVERNANCE FOR TRANSFORMATIVE AI AND DATA SOLUTIONS

#2. HIGHLIGHT THE FUNDAMENTAL CHOICES OF ALIGNMENT WITH BUSINESS NEEDS

#3. ENGAGE YOUR TRANSFORMATIVE PROJECTS
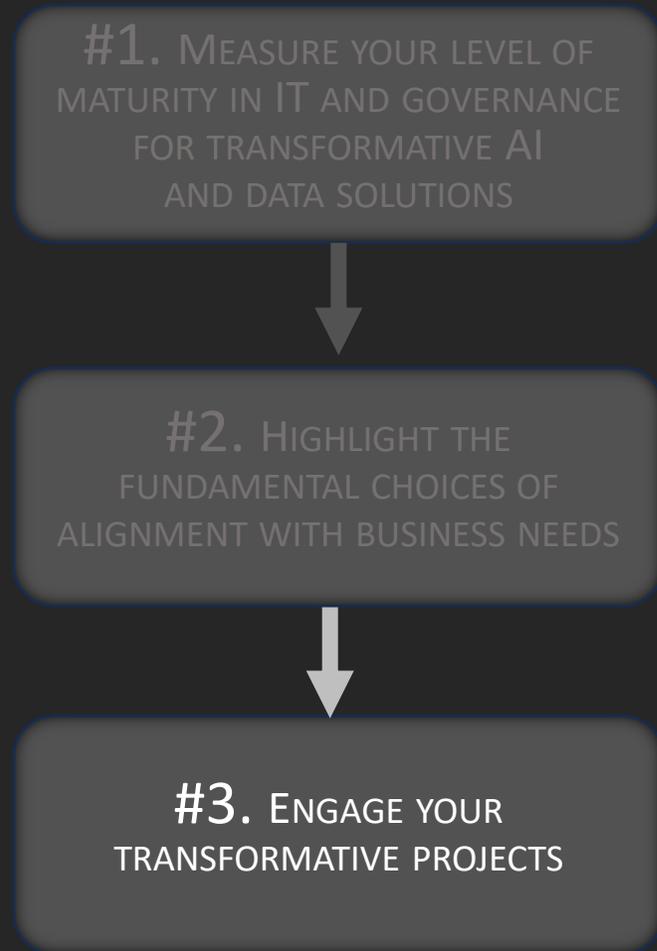
LET'S EXPLORE THE THIRD STEP

Direct access to the table of contents

TRAIDA FRAMEWORK

EXAMPLE: CUSTOMER DATA INTEGRATION ANALYSIS 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

Internal process	
Client process	
Third party process	PRODUCTIVITY
Compliance process	
Specific features (TBD)	

#1   #2

Existing siloed DB	DATA CORE SYSTEM
Business domain DB with data mesh	
Read-only mode	
Write-mode with data fabric	OPERATIONAL DATA STORE
Analytic-mode with knowledge graph DB	
Data lineage	
Data and ID mapping	
Meta data (glossary, ontology)	MASTER DATA MANAGEMENT
Reference and master data	
Data interface	
Personal knowledge management	
Collective knowledge management	
Meta data (glossary, ontology)	KNOWLEDGE GRAPH DB
Regulatory repository	
Data analytics	
Integration	DATA LAKE
Data warehouse	
Storage	
Generative-AI	
Analytical-AI	ARTIFICIAL INTELLIGENCE
AI Data collection and labeling	
Regulation compliance process	
Data governance process	ENTERPRISE GOVERNANCE
AI governance process	
AI-Powered governance process	
Semantic modeling (ontology)	
Conventional EA framework	ENTERPRISE ARCHITECTURE
SOA & micro-services	
Teams' mindset for transformative projects	
IT teams training	HUMAN RESOURCES
Business teams training	

Part 01: Vision & Solution

Portfolio of business, IT, and governance projects to implement your transformative AI and data solutions strategy

Direct access to the table of contents

THE FINAL REPORT DELIVERABLE
STRATEGIC INSIGHTS REPORT - TRANSFORMATIVE AI AND DATA SOLUTIONS

TABLE OF CONTENTS

THE FINAL REPORT DELIVERABLE
STRATEGIC INSIGHTS REPORT - TRANSFORMATIVE AI AND DATA SOLUTIONS

Direct access to the table of contents

TRAIDA FRAMEWORK

PROCESS TO ASSESS AND BUILD
YOUR TRANSFORMATIVE AI AND DATA SOLUTIONS

▶ Direct access to the table of contents

TRAIDA FRAMEWORK

MASTERCLASS

T̲HE̲ AIM IS TO THOROUGHLY ACQUAINT YOUR TEAM WITH TRANSFORMATIVE AI AND DATA SOLUTIONS BASED ON THE TRAIDA FRAMEWORK

Direct access to the table of contents

TRAIDA FRAMEWORK
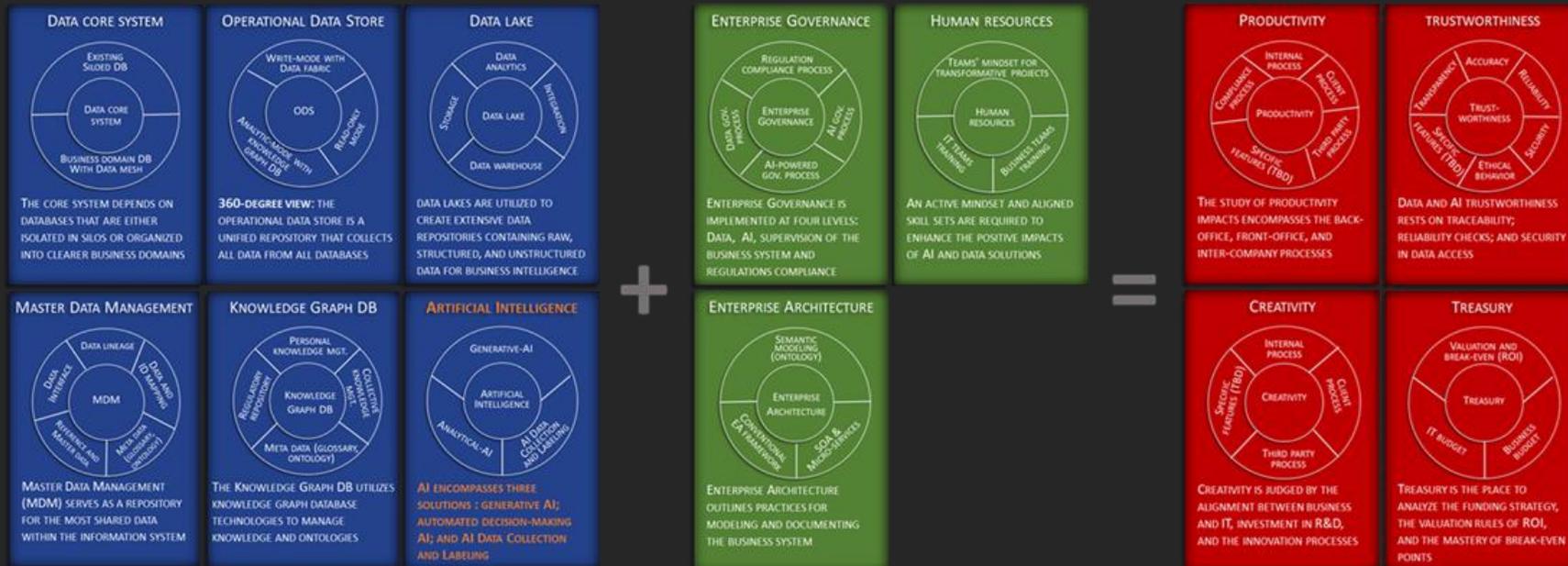
METHOD FOR CONDUCTING INTERVIEWS

THESE INTERVIEWS ARE PIVOTAL FOR ACQUIRING INSIGHTS INTO YOUR ORGANIZATION'S CURRENT AI AND DATA MANAGEMENT PRACTICES. BY DOING SO, WE AIM TO IDENTIFY POTENTIAL NEXT STEPS THAT WILL PROPEL YOU FORWARD ON YOUR TRANSFORMATIVE JOURNEY WITH AI AND DATA SOLUTIONS

TRAIDA FRAMEWORK

Method for conducting interviews

Prior to the interview each participant **selects five cards** from the card set to guide the discussion
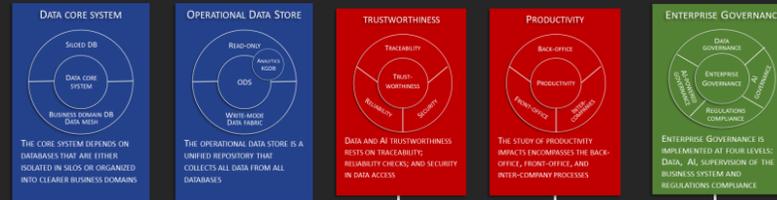

Regardless of whether the interviewee is a business or IT stakeholder, card selection is made from the entire card set

With a minimum of **10 individuals** the total number of selected cards should amount to 50

Verification of the complete coverage of the card set is carried out during the preparation phase of the interviews

Direct access to the table of contents

TRAIDA FRAMEWORK

A SET OF STANDARD QUESTIONS IS THEN UTILIZED

THE SELECTED CARDS

DATA CORE SYSTEM	OPERATIONAL DATA STORE	TRUSTWORTHINESS	PRODUCTIVITY	ENTERPRISE GOVERNANCE
The core system depends on databases that are either isolated in silos or organized into clearer business domains	The operational data store is a unified repository that collects all data from all databases	Data and AI trustworthiness rests on traceability; reliability checks; and security in data access	The study of productivity impacts encompasses the back-office, front-office, and inter-company processes	Enterprise Governance is implemented at four levels: Data, AI, supervision of the business system and regulations compliance

+

WHAT IS YOUR UNDERSTANDING OF THE CARD?

| ? | ? | ? | ? | ? |

COULD YOU BRIEFLY DESCRIBE YOUR ROLE AND RESPONSIBILITIES?

HOW DO YOU PERCEIVE THE APPLICATION OF THIS CARD IN YOUR WORK CONTEXT?

| ? | ? | ? | ? | ? |

ARE THERE ANY ASPECTS WITHIN YOUR CONTEXT THAT THE CARD DO NOT ADDRESS, AND IF SO, WHY?

IS THERE ANYTHING ELSE YOU WOULD LIKE TO SAY ABOUT THE OTHER CARDS?

| ? | ? | ? | ? | ? |

TRAIDA FRAMEWORK

INTERVENTION PROCESS

Eight steps

Step #1	Framing	1 day
Step #2	Masterclass: awareness session	1 day
Step #3	Series of interviews	10-20 days
Step #4	Analysis of interviews	3 days
Step #5	Presentation of initial findings	1 day
Step #6	Drafting the final report	2 days
Step #7	Report validation and last adjustments	1 day
Step #8	Masterclass: presentation of results	1 day

Number of interviews
10-20 persons maximum

Total workload
20-30 days

Direct access to the table of contents

TRAIDA FRAMEWORK

TIMELINE OF 10 WEEKS

	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10
Framing	✔									
Masterclass: awareness session		✔								
Series of interviews			✔	✔	✔	✔				
Analysis of interviews							✔			
Presentation of initial findings							✔			
Drafting the final report								✔		
Report validation and last adjustments									✔	
Masterclass: presentation of results										✔

Direct access to the table of contents

TRAIDA FRAMEWORK

FRAMING

A KICKOFF MEETING WITH INTERVENTION LEAD(S) TO PRESENT AN ACCELERATED OVERVIEW OF THE TRAIDA FRAMEWORK MASTERCLASS PLANNED FOR THE NEXT STEP

CUSTOMIZATION OF INTRODUCTORY AND CONCLUDING REMARKS TO TAILOR THE INTERVENTION'S OBJECTIVES TO YOUR CHALLENGES

Direct access to the table of contents

TRAIDA FRAMEWORK

Masterclass - Awareness session

Conducting a masterclass on the TRAIDA framework, focusing on the detailed contents of the card set

Maximum of 30 recommended participants but the masterclass can accommodate more

Participants in later interviews must attend this session

Should some interviewees be unable to attend the masterclass, a second online session can be scheduled to accommodate the participants' availability

Direct access to the table of contents

TRAIDA FRAMEWORK

SERIES OF INTERVIEWS (*)

SELECTED INDIVIDUALS SHOULD HAVE SUFFICIENT RESPONSIBILITY LEVELS OR OPERATIONAL INVOLVEMENT TO UNDERSTAND THE GLOBAL CHALLENGES OF DATA MANAGEMENT AND AI IN BUSINESS OPERATIONS

EVERY INTERVIEWEE SELECTS 5 CARDS AMONG THE FULL CARD SET

SUGGESTED DISTRIBUTION OF INTERVIEWS

INTERVENTION LEAD(S)	BUSINESS STAKEHOLDERS	IT/IS STAKEHOLDERS	MANAGERS
1-3 PERSONS	3-5 PERSONS	5-10 PERSONS	2-5 PERSONS
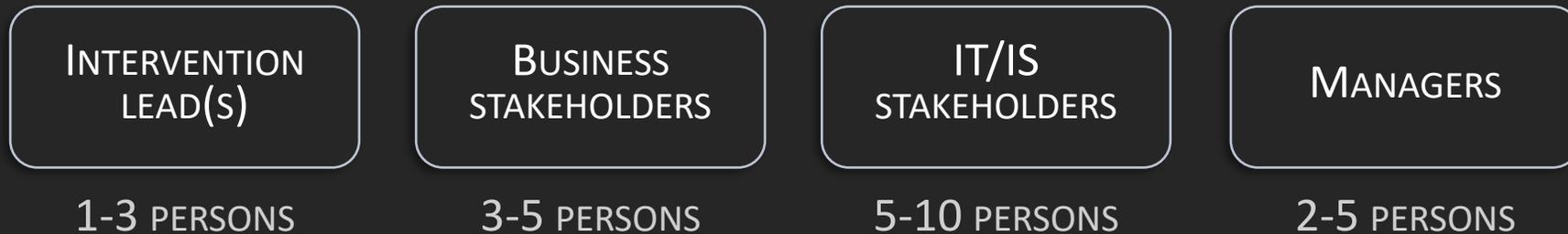
(*) RESPONSES ARE ANONYMIZED, AND DETAILED INTERVIEW REPORTS REMAIN CONFIDENTIAL, SHARED ONLY WITH THE INTERVENTION LEAD(S). FACE-TO-FACE INTERVIEW, MAXIMUM DURATION OF 2 HOURS

Direct access to the table of contents

TRAIDA FRAMEWORK

4 days

In a 2-hour meeting with intervention lead(s) we present the initial interview results and identify key messages and insights
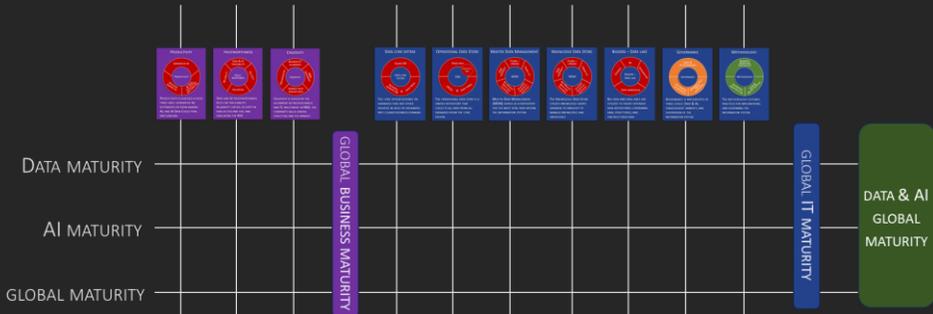
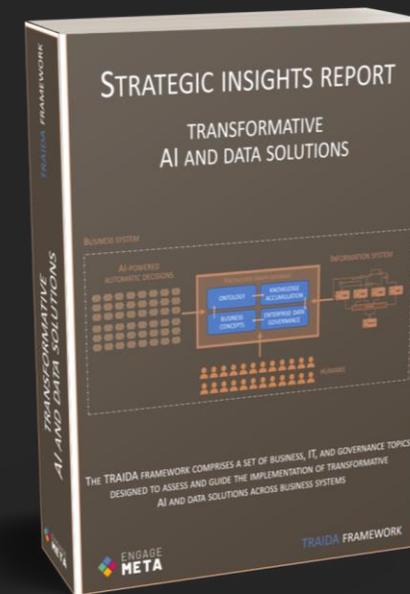YOUR FEEDBACK AND INSIGHTS ARE SOLICITED AND WILL BE CRUCIAL FOR THE DEVELOPMENT OF THE FINAL REPORT

DRAFTING THE FINAL REPORT

STRATEGIC INSIGHTS REPORT - TRANSFORMATIVE AI AND DATA SOLUTIONS

WE PREPARE THE FINAL REPORT OUTLINING YOUR CURRENT SITUATION AND RECOMMENDED TRAJECTORY FOR YOUR TRANSFORMATIVE AI AND DATA SOLUTIONS JOURNEY

Direct access to the table of contents

DRAFT REPORT REVIEW AND FINAL VERSION

WE PROVIDE YOU WITH THE DRAFT REPORT FOR REVIEW

WE CONVENE A MEETING WITH THE INTERVENTION LEADS TO DISCUSS ITS CONTENTS. THIS ENSURES THAT THE FINAL VERSION OF THE REPORT IS WELL-TAILORED TO YOUR SPECIFIC CONTEXT AND CHALLENGES

Direct access to the table of contents

TRAIDA FRAMEWORK

Masterclass – Final report presentation

Masterclass to present the final report on your transformative AI and data solutions, facilitated by the participation of intervention leads. This session will mark the official handover of the report from our consultant to your team

Maximum of 30
recommended participants
but the masterclass can
accommodate more

TRAIDA
FRAMEWORK

RECAP

NUMBER OF INTERVIEWS
10-20 PERSONS MAXIMUM

TOTAL WORKLOAD
20-30 DAYS

Step #1	Framing	1 day
Step #2	Masterclass: awareness session	1 day
Step #3	Series of interviews	10-20 days
Step #4	Analysis of interviews	3 days
Step #5	Presentation of initial findings	1 day
Step #6	Drafting the final report	2 days
Step #7	Report validation and last adjustments	1 day
Step #8	Masterclass: presentation of results	1 day

TRAIDA FRAMEWORK

END

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