

SUPPORT OFFER FOR NoCODE-AI-DATA TRANSFORMATION



Engage-Meta is an open-source community that shares best practices for enterprise-level AI and data architecture

ENGAGE-META COMMUNITY
Accumulating knowledge to achieve sustainable success with AI

SEMANTIC-CENTRIC ARCHITECTURE

This architecture simplifies data governance, ensures consistency, and opens the door to scalable AI integration. If you're thinking about modernizing your IS, this is a model worth looking at.

In today's complex IT environments, simply connecting databases and workflows is no longer enough. To truly unlock business value, organizations need an architecture that bridges structured data, unstructured content, and business knowledge — and makes it usable by AI.

- An **Operational Data Store (ODS)** unifies all transactional data.
- A **Mass Storage/Data Lake** collects unstructured content.
- An **Ontology & Knowledge Graph** acts as the semantic layer, harmonizing concepts and business rules.
- AI Agents in RAG mode** leverage this knowledge to deliver intelligent search, reasoning, and automation.
- A **Workflow & Integration Layer** orchestrates business processes.

The diagram shows a layered architecture. At the top are AI AGENTS and WORKFLOW & INTEGRATION LAYER. Below them is the ONTOLOGY & KNOWLEDGE GRAPH (BUSINESS ONTOLOGY - MAPPINGS, GRAPH DATABASE). This layer sits on top of two data stores: OPERATIONAL DATA STORE (ODS) and MASS STORAGE UNSTRUCTURED DATA. Both ODS and MASS STORAGE are connected to OLTP DATABASES. The entire structure is labeled SEMANTIC-CENTRIC ARCHITECTURE with the Engage-Meta logo.

ALL THE CONTENT IS ON THE ENGAGE-META COMMUNITY SITE WITH FREE ACCESS (OPEN SOURCE)



WWW.ENGAGE-META.COM

TRAIDA AI & Data Solutions

The **AI Add-on scenario** is deployed as a starting point to implement initial AI automation that addresses simple but tactically significant cases. It supports the operations of an early-stage deployment. In this scenario, the AI automations simply invoke the existing systems.

The **AI Booster scenario** is deployed to support a medium-sized business with a simple core activity, or one already supported by an ERP solution. It serves to boost a rigid core system by adding a more agile, low-code AI layer on the front end.

The **AI Core scenario** is used to deploy an alternative to the conventional core-system and ERP approach, enabling greater flexibility through the native integration of AI across the organization.

The technical architecture is based on a series of software components that form a stack, including data management, automation tools (workflows), and AI solutions.

Each software component is integrated into a global execution platform, which can be either managed on the company's premises (on-premise) or hosted by a provider (SaaS, Cloud). Given the level of technical expertise required to ensure the security and scalability of both the software and the execution platform, it is recommended to delegate their installation and administration to a specialized service provider. Therefore, the choice of technical scenario must also consider selecting an IT service provider capable of operating the chosen software stack.

The choice of technical scenario must be compatible with the selected provider for operating your IT systems. It is crucial to ensure that the provider is capable of installing and managing the chosen technologies while meeting the expected performance, security, and cost requirements.

| | AI ADD-ON | AI BOOSTER | AI CORE |
|---|--|---|--|
| OPERATING MODE | SaaS, mainly + Private Cloud or On-Premise for hybrid use case (e.g. Orlano) | SaaS, Public or Private Cloud, On-Premise | SaaS, Public or Private Cloud, On-Premise |
| IT EXPERTISE | Low | Medium to high | Medium to high |
| CORE DATABASE (STRUCTURED DATA) | Knox (or PostgreSQL) | Neo4J / PostgreSQL (or PostgreSQL) | Menda / PostgreSQL (or OutSystems, Microsoft SQL Server) |
| IDE (ADVANCED DEVELOPER ENVIRONMENT) | No integrated solution | Appsmith IDE | Menda IDE |
| AI AUTOMATION (WORKFLOW) | Maha (or NBN) | NBN | NBN |
| BUSINESS LOGIC FLOW | Custom development | Custom development | Manifesto Menda |
| SYNCHRONIZATION BETWEEN SYSTEMS | Pooling | Pooling and Trigger (HTTP webhooks) | Pooling and Trigger (HTTP webhooks) |
| MASS STORAGE DATA | Backend or equivalent | Amazon S3 or equivalent | File documents in Menda and Amazon S3 or equivalent |
| GRAPH KNOWLEDGE DATABASE | Neo4J Aura (or ArangoDB) | Neo4J Enterprise Edition (or ArangoDB) | Neo4J Enterprise Edition (or ArangoDB) |
| VECTOR DATABASE (ABLE TO ACCESS (RAG) ALL EXISTING DATA AND ACCESS) (NOTE: ON-BOARDING IS AN ADVANCED SKILL (PROFICIENT - CODE REQUIRED)) | Supabase | PostgreSQL, with pgvector (RAG) runs on PostgreSQL) | PostgreSQL, with pgvector (RAG) runs on PostgreSQL) |
| LLM FRAMEWORK (ENABLE ACCESS, RAG, ORCHESTRATING AI AGENTS, TOOLS, AND THE WORKFLOW - CODE REQUIRED) | Maha + LangChain (or NBN) | NBN + LangChain | NBN + LangChain |
| ORCHESTRATING LOGICAL AND MONITORING OF LLM APPLICATIONS | LangFlow | LangFlow | LangFlow |
| LLM | Open AI, Mistral (and/or other LLMs as needed) | Open AI, Mistral (and/or other LLMs as needed) | Open AI, Mistral (and/or other LLMs as needed) |
| RUNNING THE AI IN PRIVATE MODE (NO TRAINING) | Orlano | Orlano | Orlano |
| DATA INTEGRATION | Labelled in Community | Labelled in Enterprise | proficy |
| DATA MODEL | Simplest/cheap for Knox | Simplest/cheap for PostgreSQL or MySQL, or Neo4J back-end feature | Menda backup feature |
| DATA INTEGRATION - ETL | Airbyte Cloud (or Heptane) | Airbyte Team or Enterprise (or Heptane) | Airbyte Team or Enterprise (or Heptane) |

A row of five green cards: OVERVIEW, TRAIDA GUIDE, TRAIDA GLOSSARY, HUMAN RESOURCES, and ENTERPRISE ARCHITECTURE (EA). Each card has a small red 'PDF' icon in the top left corner.

THE FOUNDER



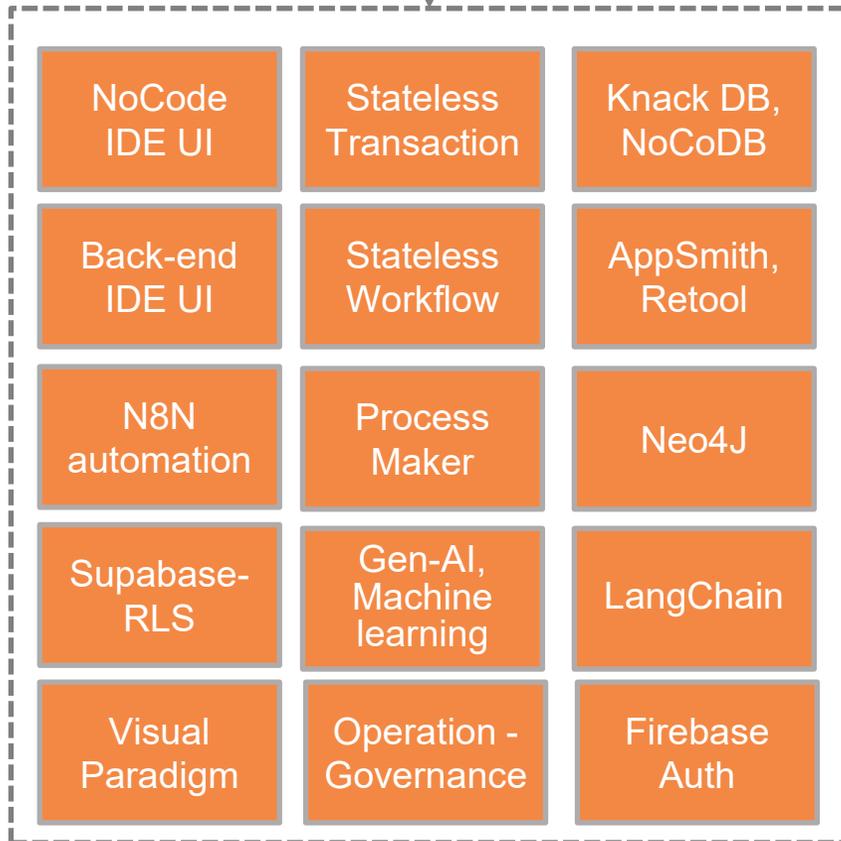
Expert in data and AI with over 30 years of experience as an engineer, consultant, and entrepreneur (see detailed bio on the website www.engage-meta.com)

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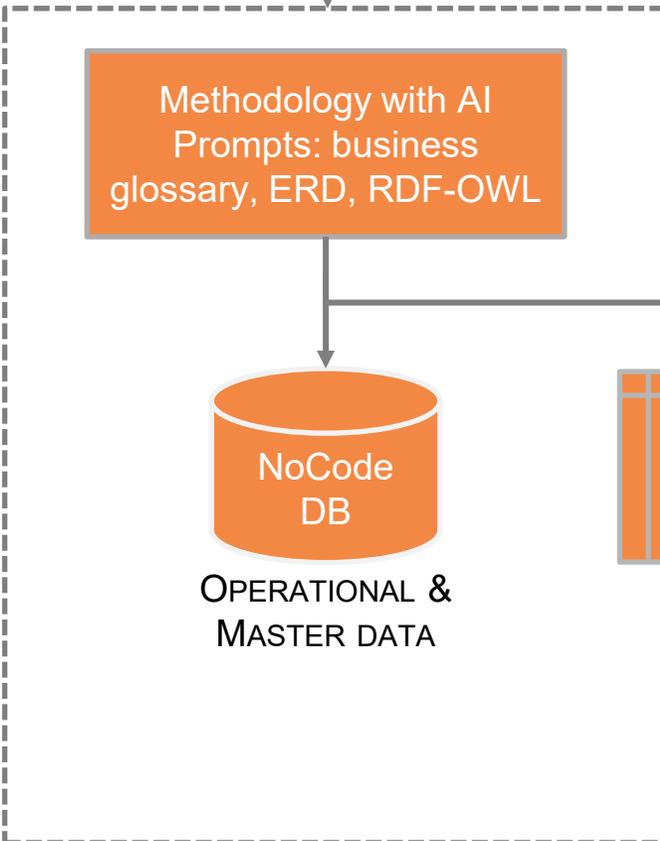


OVERVIEW OF OUR SUPPORT OFFER

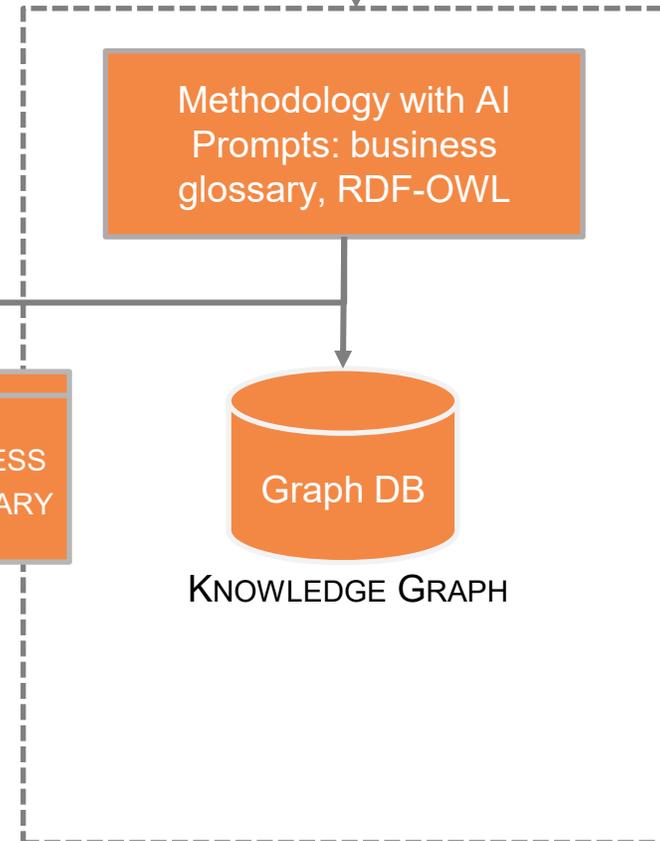
IT STACK FOR DATA, AI, & NoCODE
(LOWCODE)



DATA MODEL + ONTOLOGY
APPLIED TO THE ENTIRE
INFORMATION SYSTEM



ONTOLOGIES ON KNOWLEDGE
MANAGEMENT VERTICALS
(GRAPH)



OVER 30 YEARS OF EXPERTISE IN DATA MODELING EMBEDDED IN THE AI PROMPTS WE USE AND DELIVER AS PART OF OUR SUPPORT

Methodology with AI Prompts: business glossary, ERD, RDF-OWL

Methodology: From Taxonomy to Ontology

Step 1 - Glossary Design

Prompt:

Step 2 - Taxonomy Design

Prompt:

Step 3 - ERD Design

Prompt:

Step 4 - Ontology Design

Prompt:

Step 1 - Glossary Design

Prompt:

You are a Business Knowledge Analyst AI. Your task is to extract and organize a glossary of business terms from the provided documents. You must follow a systematic, factual, and iterative process to ensure accuracy, structure, and completeness.

Step-by-Step Instructions:

1. Understand the Scope

- Carefully read and analyze the business documents.
- Identify the domain, business context, and objectives.

2. Extract Core Business Terms

- Identify and define at least 30 core business terms that are essential to the business model.
- Ensure all definitions are based strictly on the document content (no assumptions or made-up terms).

3. Generate Fine-Grained Terms

- Identify specific sub-terms or related terms for each core concept.
- Define each one, explain its relevance, and link it to its parent concept using hierarchical or relational connections.

4. Structure the Output

- Present the glossary as a table with the following columns:
 - Term
 - Definition
 - Properties / Attributes
 - Related Terms / Relationships
 - Abbreviation (if any)
 - Synonyms (if any)
 - Document Reference or Source Snippet

Objective

Deliver a precise, interconnected, and structured glossary that enhances semantic clarity and supports reuse across business analysis, ontology modeling, and AI integration.

Step 2 - Taxonomy Design

Prompt:

You are an expert in ontology modeling and knowledge graphs. Your task is to analyze a provided business glossary and, through a series of interactive questions, propose a structured, business-aligned taxonomy or ontology.

Phase 1: Glossary Submission and Initial Clarification

Please provide the business glossary you wish to analyze. Once provided, I will ask you some initial clarifying questions to understand your design preferences.

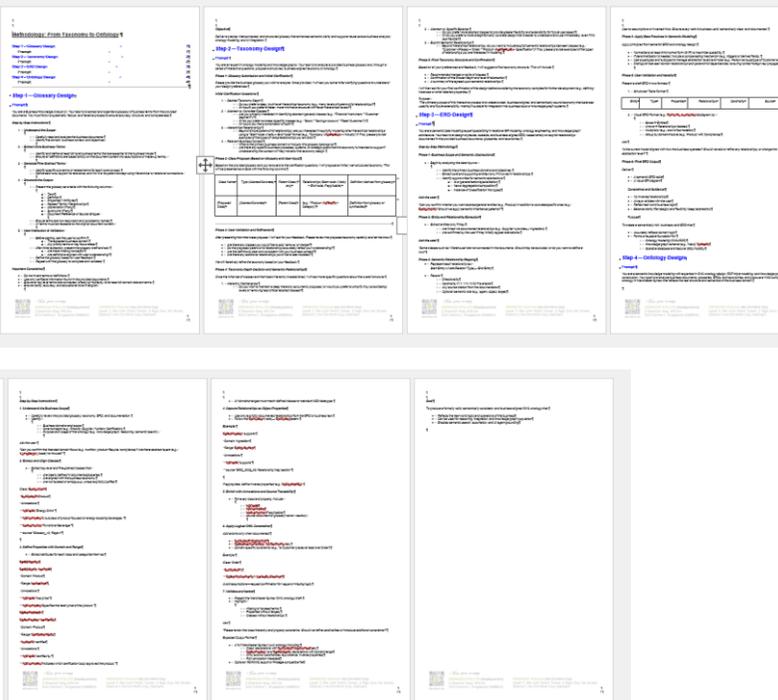
Initial Clarification Questions:

- Desired Taxonomy Depth:**
 - Do you prefer a deep, multi-level hierarchical taxonomy (e.g., many levels of parent-child relationships)?
 - Or would you prefer a flatter, more minimalist structure with fewer hierarchical levels?
- Abstract vs. Concrete Classes:**
 - Are you primarily interested in identifying abstract (general) classes (e.g., "Financial Instrument," "Customer Segment")?
 - Or do you prefer concrete (specific) classes (e.g., "Stock," "Savings Account," "Retail Customer")?
 - Or would you like a combination of both?
- Hierarchical Relationships:**
 - Beyond simple parent-child relationships, are you interested in explicitly modeling other hierarchical relationships using a "Start Node - (Verb) -> End Node" format (e.g., "Company - (Operates In) -> Industry"? If so, please provide examples of the types of verbs/relationships you envision.
- Relevant Business Context:**
 - What is the primary business domain or industry this glossary belongs to?
 - Are there any specific business processes, systems, or strategic goals that this taxonomy is intended to support? Understanding the context will help me tailor the taxonomy design.

Phase 2: Class Proposal (Based on Glossary and User Input)

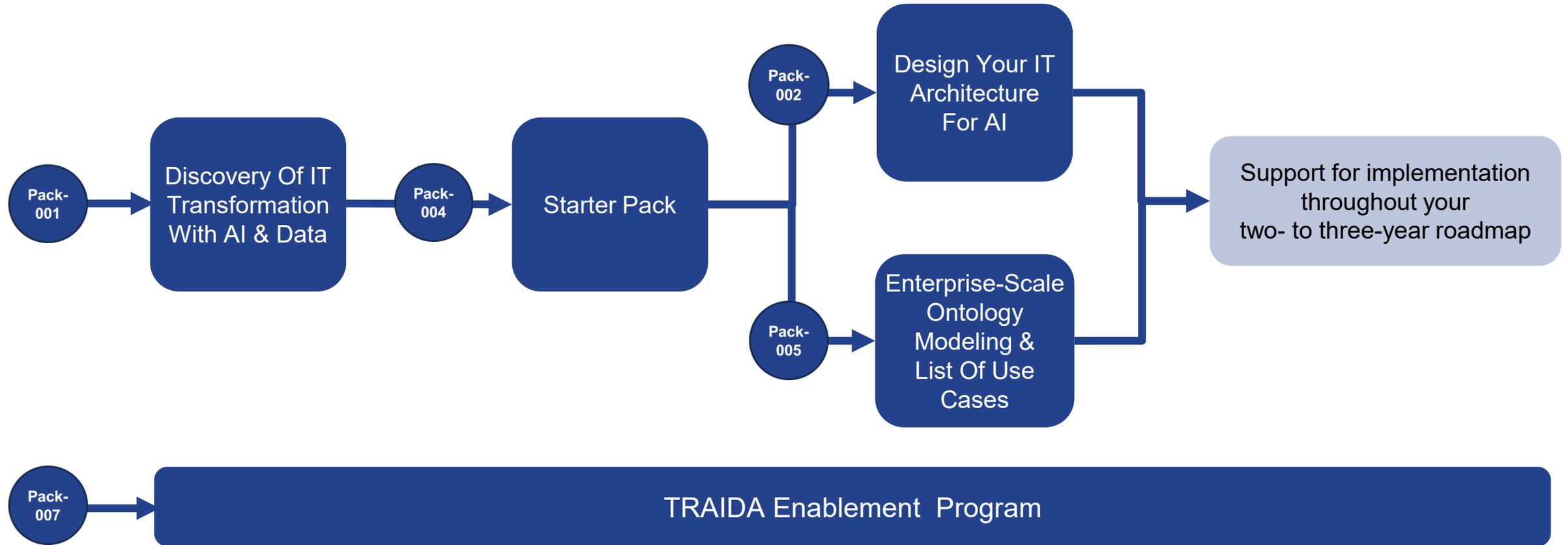
Based on the provided glossary and your answers to the clarification questions, I will propose an initial, well-structured taxonomy. This will be presented as a table with the following columns:

| Class Name | Type (Abstract/Concrete) | Parent Class (if any) | Relationships (Start node - (Verb) -> End node, if applicable) | Definition (derived from glossary) |
|------------------|--------------------------|-----------------------|--|---|
| [Proposed Class] | [Abstract/Concrete] | [Parent Class] | [e.g., "Product - (IsPartOf) -> Category"] | [Definition from glossary or synthesized] |



The image shows a series of screenshots from a chat interface. The first screenshot displays the 'Step 1 - Glossary Design' prompt, which asks the AI to extract and organize business terms from provided documents. The second screenshot shows the 'Step 2 - Taxonomy Design' prompt, which asks the AI to analyze the glossary and propose a structured taxonomy through a series of clarifying questions. The third screenshot shows the 'Initial Clarification Questions' that the AI asks to understand the user's design preferences. The fourth screenshot shows the 'Phase 2: Class Proposal' output, which is a table with columns for Class Name, Type, Parent Class, Relationships, and Definition. The fifth screenshot shows the 'Phase 2: Class Proposal' output, which is a table with columns for Class Name, Type, Parent Class, Relationships, and Definition. The sixth screenshot shows the 'Phase 2: Class Proposal' output, which is a table with columns for Class Name, Type, Parent Class, Relationships, and Definition. The seventh screenshot shows the 'Phase 2: Class Proposal' output, which is a table with columns for Class Name, Type, Parent Class, Relationships, and Definition.

OUR OFFER IS BUILT ON A COMPREHENSIVE & ROBUST SUPPORT PROCESS



A half-day discovery masterclass, followed by a half-day workshop tailored to your context
Deck available at www.engage-meta.com, with over 250 slides

LIMITATIONS OF THE SCOPE OF WORK

- ✓ No limit on participants for the masterclass, but we recommend fewer than 10 people for the workshop

DELIVERABLES OF THE WORK

- ✓ Individual “TRAIDA Masterclass” certificate of participation for each participant, along with a summary report of up to 3 pages capturing the key discussions from the workshop, enabling you to keep a record of the essential exchanges with the expert, tailored to your context

A first NoCode database (Knack DB) and automation (N8N) implementation in SaaS including one LLM step. Deployment to production may be possible depending on the results achieved.

LIMITATIONS OF THE SCOPE OF WORK

- ✓ Up to 10 tables and a maximum of 5 business steps for the automation, including the LLM run

DELIVERABLES OF THE WORK

- ✓ Data modeling in draw.io or Visual Paradigm (your choice), business glossary in the form of an Excel table, database in Knack DB in SaaS mode, and N8N automation either in SaaS or on one of your environments (to be decided jointly). This database and automation are not intended for production use; they serve as educational tools and as a first step for engaging your business and technical teams with NoCode - AI - Data

DESIGN YOUR IT ARCHITECTURE FOR AI

The design outlines the solution choices tailored to your context, along with a roadmap for implementation. This may involve a fully SaaS-based NoCode approach or a LowCode solution and integration with composable ERPs. The following topics are covered: business architecture, logical architecture, technical stack, and physical architecture; methodology and governance; finance; implementation roadmap

LIMITATIONS OF THE SCOPE OF WORK

- ✓ Workload for IT prototyping: a maximum of 5 man-days for design and 10 man-days for development

DELIVERABLES OF THE WORK

- ✓ Technical architecture file in the form of a PowerPoint deck of fewer than 50 slides and a summary note of around ten pages. This documentation set is complemented by the prototypes developed using the technologies to be tested in your context, generally including: NocoDB, Retool, Supabase-RLS, N8N, Langchain facade, ProcessMaker... The objective here is to provide you with maximum clarity on the implementation roadmap for your digitalization around NoCode-AI-Data over a 2-year period, with a focus on prioritizing use cases to foster return on investment and user engagement. Our approach aims to replace rigid, monolithic ERPs with a more flexible solution that adapts to your context and allows integration with composite ERPs when necessary, such as finance & accounting and payroll

ENTERPRISE-SCALE ONTOLOGY MODELING

The data model forms your Operational Data Store (ODS) at the level of the company, which is the cornerstone of the data architecture on which AI is integrated. The ODS shares the business glossary with the ontology, which is also used to build the knowledge graph database (EKG). The implementation of the EKG can be offered as an additional service upon your request and for a defined project scope. Unlike the ODS, which is modeled in a holistic manner (the focus of this scope of work), the EKG should instead follow dedicated project cycles

LIMITATIONS OF THE SCOPE OF WORK

- ✓ Attribute limitation: No more than around 20 business attributes per table. Beyond this, the benefit of modeling diminishes, as the database will evolve further at the implementation stage through development and use-case customization.
- ✓ No reporting needs modeling: Reporting will be addressed in a generic way via a reporting tool, which will be evaluated and positioned during the technical study we are conducting with you, in parallel with data modeling.
- ✓ No modeling of unstructured data: However, we will aim to capture the minimum metadata required for proper data governance. A graph-oriented database solution will be included in the technical study to enable the transformation of your document repositories into actionable knowledge.

DELIVERABLES OF THE WORK

- ✓ Entity-Relationship Diagram (ERD) for a maximum of 10 functional domains (e.g. Admin & HR, Planning & Supply, QA, R&D, Production, Finance & Accounting, Marketing, Sales, etc.). This model will be created using the Visual Paradigm design tool.
- ✓ Logical data model using the NoCode Knack DB platform.
- ✓ Data-oriented user interface (UI) using the NoCode Knack DB platform. This UI is intended to help you validate the data model from a business user's perspective (not to be used in production)
- ✓ Business glossary, Codification rules
- ✓ Taxonomy, with the use of inheritance in the data model to ensure optimal generalization, support the database's scalability, enhance reporting capabilities, and facilitate integration across subsystems (e.g., implementation of the Party-Role domain).
- ✓ Methodological support so that the list of use cases formalized by your business users meets the level of detail and quality needed for successful data modeling. This list is also key to building the implementation plan covered in the technical architecture work. It will also serve as the foundation for modeling your organizational processes in the future.
- ✓ Our AI prompts, provided as part of our work, will later enable you to gain a certain level of autonomy in modeling your business glossary, taxonomy, ERD, and ontology.

Train your IT teams in NoCode - AI - Data through an 8-week support program that includes the masterclass and workshop, four practical assignments, and the development of a first version of the TRAIIDA methodology tailored to your context

LIMITATIONS OF THE SCOPE OF WORK

- ✓ The program is designed to support up to 20 engineers, divided into 4 working groups

DELIVERABLES OF THE WORK

- ✓ We propose 4 exercises to be completed over an 8-week period. To launch each exercise, our consultant will come to your premises for a half-day to present the developments to be carried out and the objectives of the exercise. During the following two weeks, our consultant will provide remote support via Q&A emails and Zoom sessions with your engineers, for a total availability of about one day. Zoom sessions may be dedicated to a single working group or organized for several groups at once, depending on your preferences
- ✓ Our consultant will work on-site to prepare a presentation deck of around ten slides outlining the draft of your NoCode-AI-Data methodology
- ✓ A “TRAIDA Expert” participant certificate for each participant. In addition, a PowerPoint deck of about ten slides describing the customization of the TRAIIDA methodology to your context. We will also provide you with the ChatGPT AI prompts for creating the business glossary, taxonomy, ERD, and ontology. At the end of this program, the goal is for your team of engineers to be autonomous in implementing NoCode-AI-Data from the perspective of general principles and their strategic understanding

PRICE-LIST

| Code | Commercial offer | Workload – Man-day | | | Price (USD) |
|----------|---|--------------------|------------------|----------------------|-------------|
| | | TRAIDA Expert | Senior NoCode | Software Engineer | |
| Pack-001 | Discovery Of IT Transformation With AI & Data | 1 | 0 | 0 | \$1 000 |
| Pack-004 | Starter-pack | 2 | 6 | 5 | \$9 200 |
| Pack-002 | Design Your IT Architecture For AI | 15 | 5 | 10 | \$24 500 |
| Pack-005 | Enterprise-Scale Ontology Modeling | 8 | 10 | 10 | \$21 000 |
| Pack-007 | TRAIDA Enablement Program | 5 | 6 | 0 | \$9 200 |

- All our programs and deliverables are provided in English
- All our prices are in USD, excluding taxes and additional expenses (travel, accommodation, software, etc.)

Contact: pierre.bonnet@hfl-consulting.com

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Using AI at the scale of your enterprise is not optional. When combined with a flexible and high-performance data architecture, it enables you to enhance or even replace your ERP and CRM systems for greater agility and ROI. Our support goes beyond simply teaching you how to “prompt” your AIs effectively — we guide you in implementing a wide range of AI automations while maintaining control over performance, costs, security, and the long-term motivation of your business and technical teams. ”

Pierre Bonnet, founder of Engage-Meta

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