NOCODE – AI

YOUR AI & ENTERPRISE-SCALE DATA MANAGEMENT TRANSFORMATION

with

Open-source community that publishes best practices for the use of AI & Data Architecture at the enterprise level

WWW.ENGAGE-META.COM

Client case using Engage-Meta practices

In 2019, Drinkizz launched an innovative health beverage designed to open a new market category they call O.N.E. or Organic Natural Energy.

The drink, made from ten functional ingredients including Vietnamese black tea, provides a sustainable boost without the crash associated with conventional sodas. It quickly gained popularity among athletes, students, seniors, and families seeking healthier alternatives.

But with growing demand came a critical question: how could a small startup manage complex production and inventory workflows without any IT infrastructure?

"*We had to be able to scale up our production, but we were stuck on the very first step because of the considerable amount of data we had to manage.*" — Pierre Bonnet, Co-founder, Drinkizz.

Read the full story <u>HERE</u>.

IMPLEMENTED AT DRINKIZZ COMPANY

Has been using NoCode AI since 2019 for tech-beverage (Knack, Make, ChatGPT, Knowledge Graph...)

WWW.DRINKIZZ.COM

EXPERTS IN AI AND DATA

https://engage-meta.com/services

https://engage-meta.com/partners
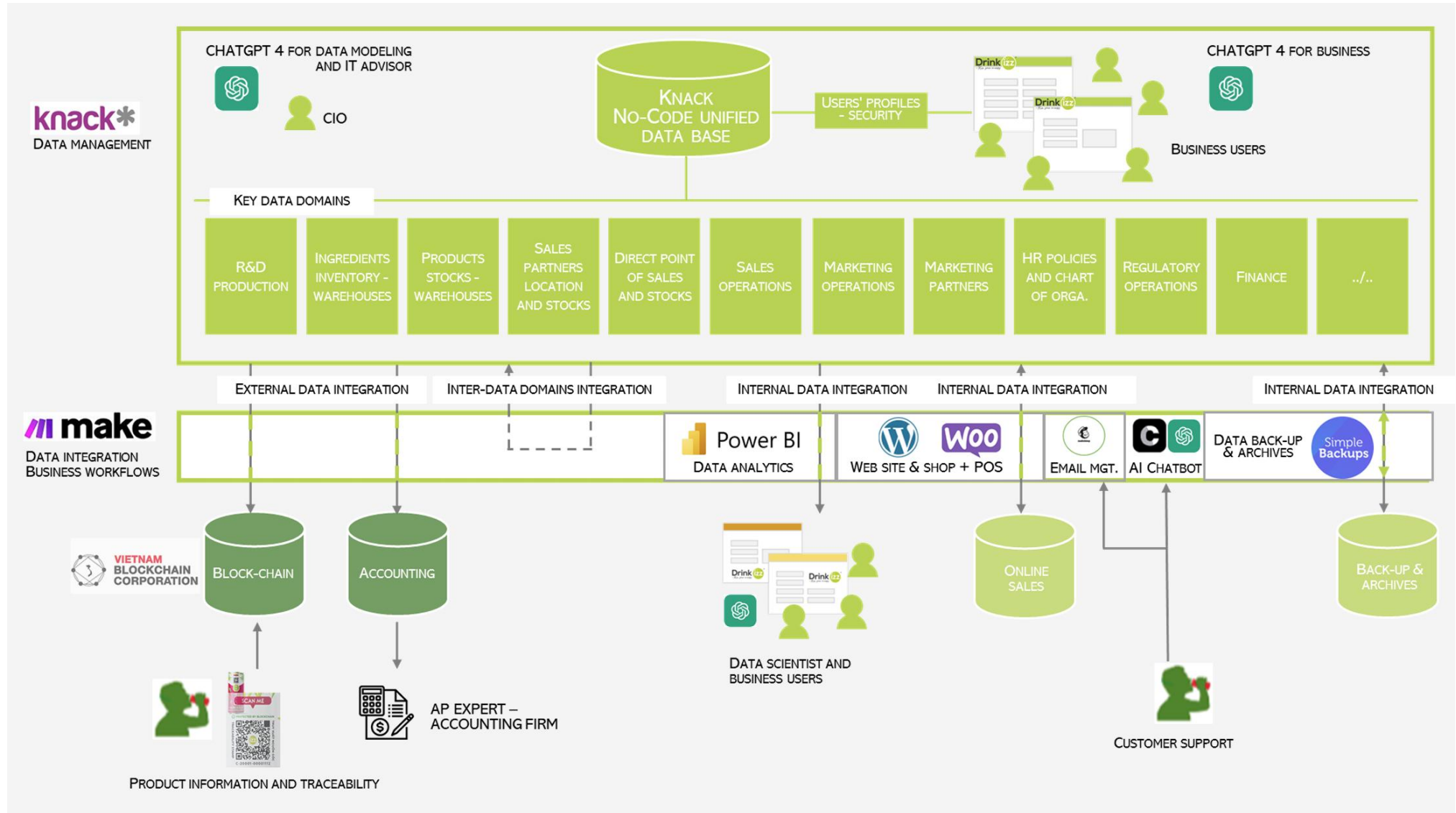
Pierre Bonnet

Founder of Engage-Meta, expert in Data Management and AI at scale, entrepreneur

Vinci Savitri Dzoulou

Expert in NoCode and AI, Chief Digital Officer (CDO) & IT Consultant

Tyna Huynh

Expert in Organics and wellbeing life style, entrepreneur in foods and beverage, business evangelist in NoCode and AI

Hoang Minh Son

With 19 years of experience, Mr. Hoang Minh Son is an expert i research and development (R&D), governance, (management, leadership), sales, BIM (building information modeling) and construction (bridges, roads and civil works)

Nguyen Thanh Duong

With 28 years of experience in IT as a consultant, designer, engineering, and software provider, I have participated in the development of nationwide e-government solutions

Nguyen Xuan Hoai

With nearly 30 years of experience, a leading expert in AI and Data Analytics with extensive experience in evolutionary computation, machine learning, and genetic programming

Phi Ang Tuan

Expert in EA — ERP — BPM. I took part in build-up Digital Transformation Strategy, IT Master Plan and implemented the computerization program management for large enterprises

OVERVIEW

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

NoCode IDE UI	Stateless Transaction	Knack DB, NoCoDB
Back-end IDE UI	Stateless Workflow	AppSmith, Retool
N8N automation	Process Maker	Neo4J
SOA	Gen-AI, Machine learning	LangChain
Visual Paradigm	Operation - Governance	Firebase Auth
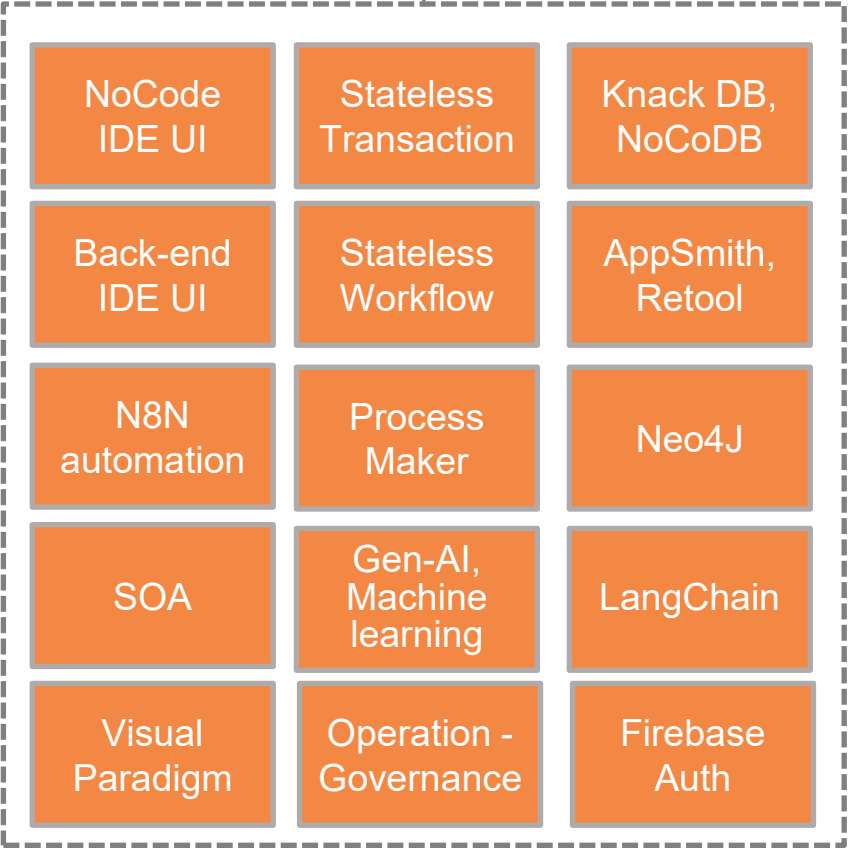
DATA MODEL + ONTOLOGY APPLIED TO THE ENTIRE INFORMATION SYSTEM

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

NoCode DB
OPERATIONAL & MASTER DATA

NoCode DB
BUSINESS GLOSSARY
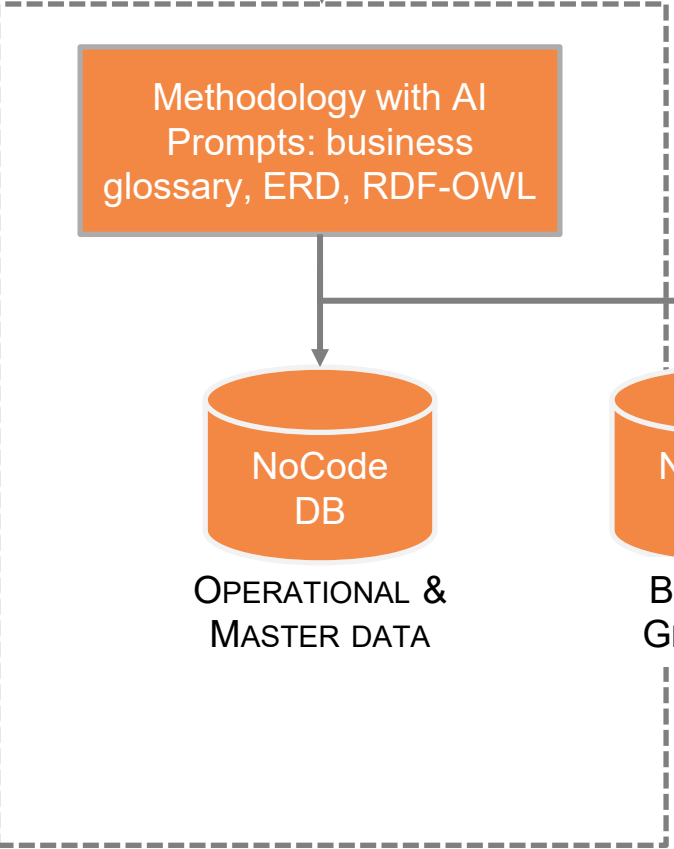
ONTOLOGIES ON KNOWLEDGE MANAGEMENT VERTICALS (GRAPH)

Methodology with AI Prompts: business glossary, RDF-OWL

Graph DB
KNOWLEDGE GRAPH

KEY DATA ASSETS

Drink izz
Kiss your energy

DATA MODEL

Supplier SKU Mapping

previous SKU mapping history
maps SKU

Comment
<<Comment Management>>

Material Item
<<Domain To Be Defined>>

has
relates to
is linked to

forecasts

Party
<<Main table>>

Code
Name
Email
Status (Created, Reviewed, Approved)

is a

Supplier

Supplier name
Lead time

is classified as   1..*

Client

Mnemonic code
Client name

is classified as   1..*

recast

from MBOM)

Manufacturing BOM
<<Main Table>>

Manufacturing date
Material quantity (Computed from order based production plan)

planned MBOM

is tailored for   1..*

drives   1..1

Material

Owner Organization
<<Reality Domain>>

Client
<<Ref d

Name
Mnemonic code

Core SKU #02

Quantity/Volume (#04)
Formula (#05)
Version (#06)

Core SKU #03

Core SKU #04

Product Line
<<Ref data>>

Name
Mnemonic code

Flavor
<<Ref data>>

Name
Mnemonic code

Quantity/Volume
<<Ref data>>

Name
Mnemonic code

Core SKU: Material
Barcode <<Catego
Status (Created, R

BUSINESS GLOSSARY

#	Business Term	Category *To add manually*	Definition	Synonyms
1	Accounting code	Attribute	Code used in accounting system to track SKU.	—
2	Actual Inventory	—	The real, physical quantity of materials (Material item) or products (Finished product) available in the warehouse, confirmed through daily tracking and reconciliation. Reported before 10 AM daily.	Real Stock, Physical Inventory
3	Barcode	—	Barcodes are product identifiers registered with a national standards body (Vietnamese government authority). They are requested by the ID department for each new product after production approval and are then	

CODING RULES

	A	B	C	D	E
	#	Business Term (Glossary)	Character Rules	Explanation	Business Term (G
1		Code with 1 word		3 first letters of the word	Inventory, Warehouse, ..
2		Code with 2 word	3-character rule (Principal term – first detected)	2 first letters of the first word and 1st letter of the second word	Production Batch
3		Code with 3 word		1st letter of first the word, 1st letter of the second word and 1st letter of the third word	Monthly Sales Plan
4		Code with 4 word		1st letter of the first word, 1st letter of the second word and 1st letter of the 4th word	Raw Material Inventory F
5		Code with 1 word		2 first letters of the word + next distinct letter from the word	-
6		Code with 2 word		2 first letters of the first word + next distinct letter from the second word	-
7		Code with 3 word	3-character rule (Duplicate detected – 2nd term)	1st letter of the first word, 1st letter of the second word + next distinct letter from the third word	-
8		Code with 4 word		1st letter of the first word, 1st letter of the second word + next distinct letter from the 4th word	-
9		Country	Follow ISO 3166-1 alpha-2 code	-	Vienam
10		Quantity/Volume	Full-character		10 KG, 100 ML

Mnemonic Coding Rules for Business Terms

ONTOLOGY (RDF-OWL)

ENGAGE META

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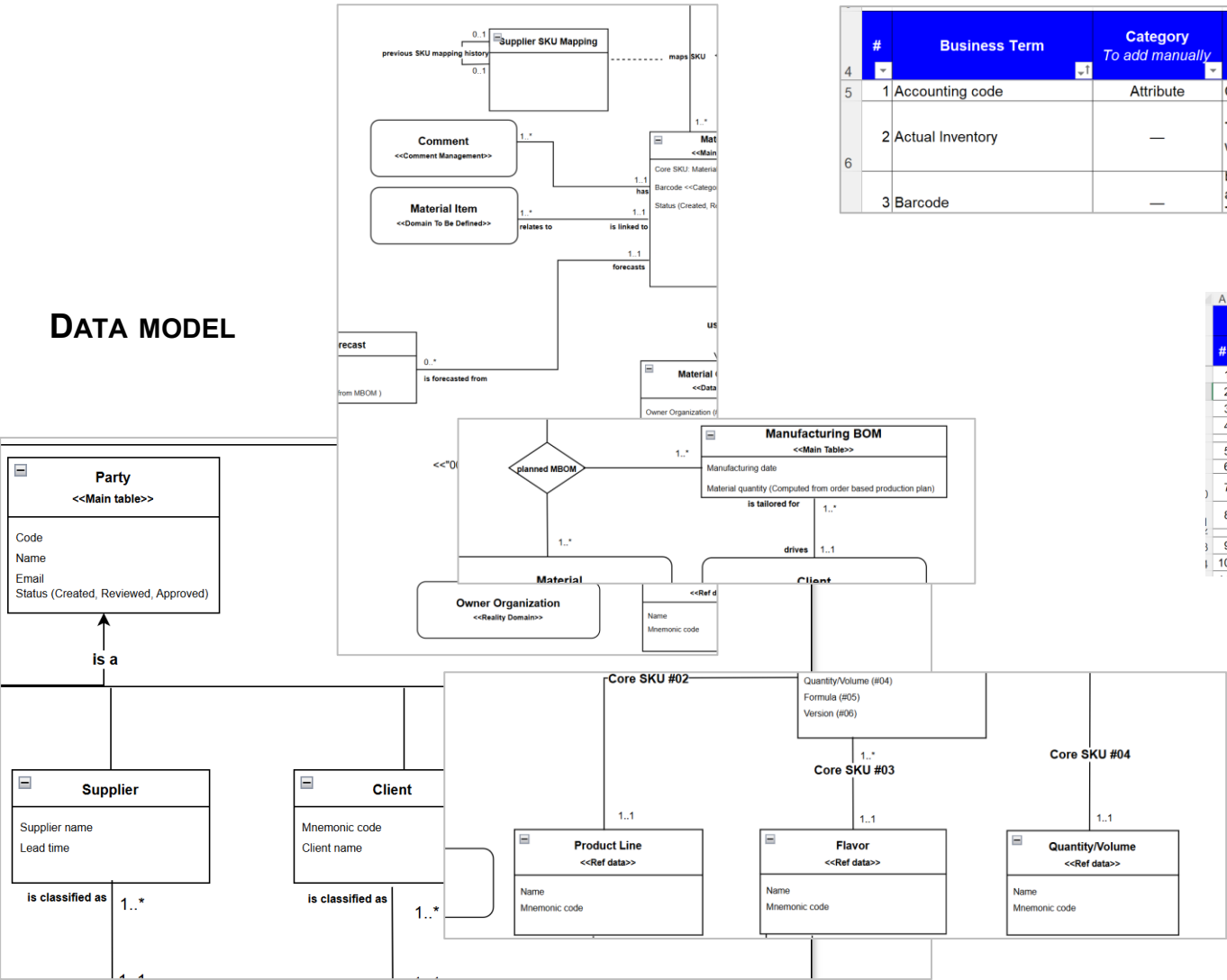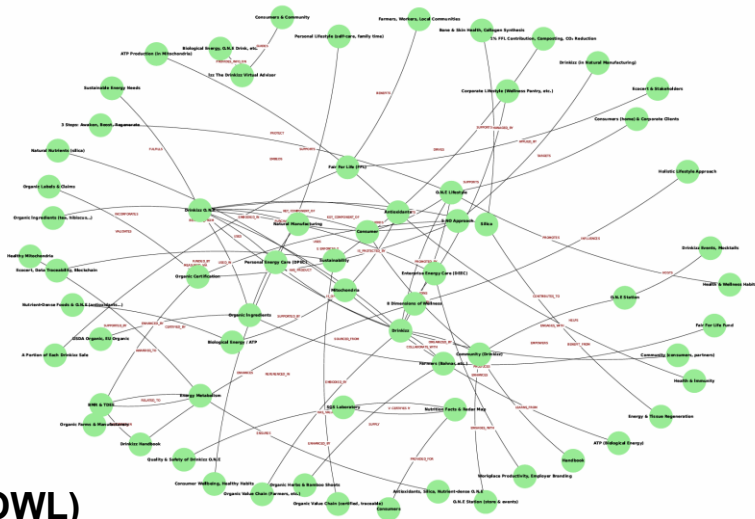
Methodology with AI Prompts: business glossary, ERD, RDF-OWL

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

Methodology: From Taxonomy to Ontology

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:

1. → 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?
2. → 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?
3. → 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 -(OperatesIn)-> Industry")? If so, please provide examples of the types of verbs/relationships you envision.
4. → 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]
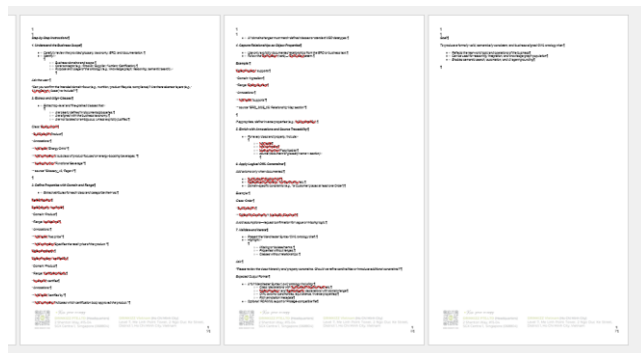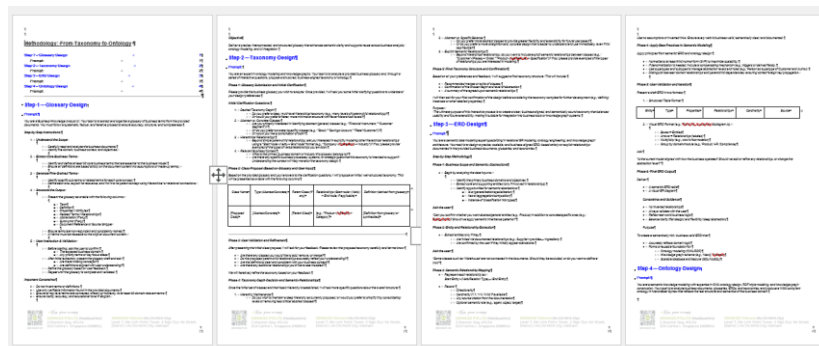
KEY PROCESS ASSETS
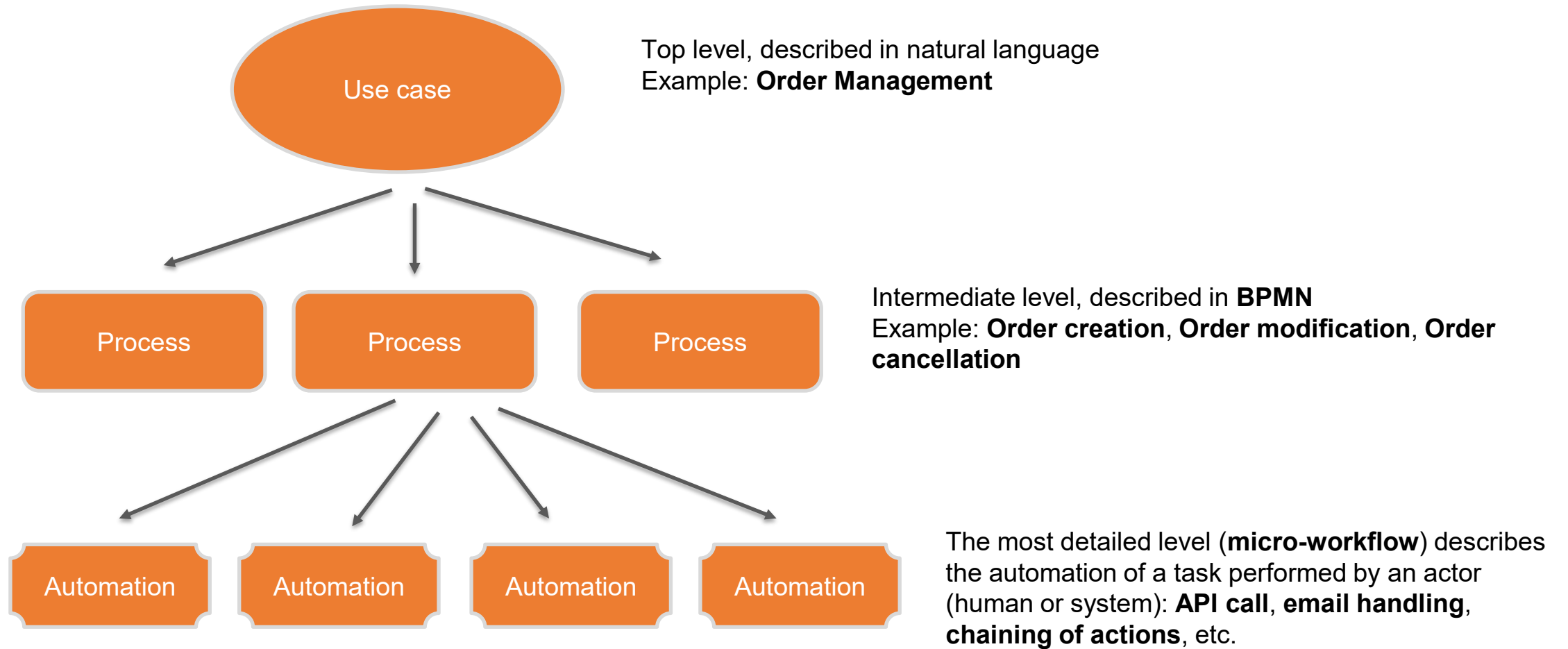
Use case

Top level, described in natural language
Example: **Order Management**

Process

Process

Process

Intermediate level, described in **BPMN**
Example: **Order creation**, **Order modification**, **Order cancellation**

Automation

Automation

Automation

Automation

The most detailed level (**micro-workflow**) describes the automation of a task performed by an actor (human or system): **API call**, **email handling**, **chaining of actions**, etc.

Code 002
Workload: 15 days
Duration: Two to three months
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, a LowCode solution. The following topics are covered: business, logical, technical, and physical architecture; methodology and governance; finance; implementation roadmap

Design Your IT Architecture For AI

Discovery Of IT Transformation With AI & Data

Starter Pack

Enterprise-Scale Ontology Modeling & List Of Use Cases

Support for implementation throughout your two- to three-year roadmap

Custom offer based on your context (please contact us)

Code 001
Workload: 1 day
Duration: 1 week
A half-day discovery masterclass followed by a half-day workshop tailored to your context

Code 004
Workload: 6 days
Duration: 4 weeks
Automation of 5 steps, including one LLM step. Deployment to production is possible depending on the results achieved

Code 005
Workload: 15 days
Duration: Two to three months
The modeling work is carried out at the enterprise level to produce an initial version, which will be continuously revised and improved during the two- to three-year implementation of the use cases

Discovery Of IT Transformation With AI & Data

Code 001
Workload: 1 day
Duration: 1 week
A half-day discovery masterclass followed by a half-day workshop tailored to your context

PRICE: USD 1,000

The integration of AI at the enterprise level requires a thorough understanding of the necessary data architecture. From structured data management to knowledge bases (graphs), it is essential to grasp the architecture and anticipate the best practices to implement. The technical, governance, and business impact domains are addressed through the cards of the TRAIDA framework (Transformative AI and Data Solutions) from the Engage-Meta community (over 50 cards). The half-day masterclass provides a comprehensive overview of AI and data architecture for scaling within the enterprise, while the half-day workshop allows you to apply best practices to your specific business context

The masterclass slides (+200 slides) are available for free download on the Engage-Meta community website – feel free to take a look!

Starter Pack

Code 004
Workload: 6 days
Duration: 4 weeks
Automation of 5 steps, including one LLM step. Deployment to production is possible depending on the results achieved

PRICE: USD 3,500

Unlock the power of AI and NoCode with the NoCode & AI Educational Starter Pack — a results-driven offer that begins with an immersive experience to align your team, clarify priorities, and set the stage for seamless implementation. Start with a focused strategic Immersion Session, a 1-day where your teams dive into key NoCode & AI concepts, responsible usage, and business-aligned opportunities. Then, move into a 5-day First Implementation where our experts guide your team through feasibility analysis, data modeling, secure deployment, and post-implementation support (Knack DB, up to 10 tables)

Call us now !

Feel free to ask us for the detailed intervention schedule (Excel sheet we systematically use for managing the Starter Pack project).

DESIGN YOUR IT ARCHITECTURE FOR AI

Drink izz
Kiss your energy

Design Your IT Architecture For AI

Code 002
Workload: 15 days
Duration: Two to three months
The IT file outlines the solution choices tailored to your context, along with a roadmap for implementation. Depending on your situation, this may involve a fully SaaS-based NoCode approach, a LowCode solution. The following topics are covered: business, logical, technical, and physical architecture; methodology and governance; impact on required skill profiles and training; CAPEX, OPEX, ROI, implementation roadmap

PRICE: USD 15,000

This comprehensive offering supports you in drafting your technical architecture document for AI-driven transformation and data management within your company. Over approximately three months, with a workload of 15 days, we collaborate with your teams to design two NoCode - AI technical scenarios, including financial estimates and the necessary organizational structure. CAPEX, OPEX, ROI, and break-even are identified based on the strategic objectives of your transformation plan. Contact us for more details on the content of this report, which provides a 360-degree vision of AI and data transformation at the enterprise level

Call us now !

Feel free to contact us for a detailed presentation of the technical architecture document—an essential step for your future technical, methodological, support, and financial decisions involving AI

Enterprise-Scale Ontology Modeling & List Of Use Cases

Code 005
Workload: 15 days
Duration: Two to three months
The modeling work is carried out at the enterprise level to produce an initial version, which will be continuously revised and improved during the two- to three-year implementation of the use cases

PRICE: USD 15,000

Enterprise-level ontology modeling is a crucial step for successful AI-driven transformation. This work involves establishing a solid business glossary, a taxonomy, a semantic model by business object domains, and translating it into an actionable ontology within a graph-oriented database. We recommend conducting this work in parallel with the technical architecture study to prepare the list of use cases to automate with AI and organize them within a two- to three-year development roadmap

Call us now !

Feel free to contact us for a demonstration of our methodological process using AI prompts to build ontologies and implement them in a knowledge graph database

> *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, co-founder of Drinkizz.

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CONTACT US