



Revolutionizing  
Decision  
Making with  
Explainable AI

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**BETTER  
PRODUCTS,  
FASTER**





# HOW TO CREATE INNOVATIVE RECIPE FORMULATIONS ***FASTER AND BETTER?***



# FAST PRODUCT DEVELOPMENT IS AN IMPERATIVE FOR CONSUMER PACKAGED GOODS COMPANIES

TARGET INDUSTRIES

COSMETIC

CHEMICAL

FOOD

THE 3 KEY CUSTOMER PAIN POINTS

MARKET PAIN POINT

*Clients now prefer a slightly different taste.  
How can I change it quickly?*

REGULATORY PAIN POINT

*Europe has blacklisted ingredient X. We have to re-formulate 50+ recipes.*

SUPPLY CHAIN PAIN POINT

*The price of Ingredient Y has gone through the roof. what do I substitute it with?*

LENGTHY TIME TO MARKET

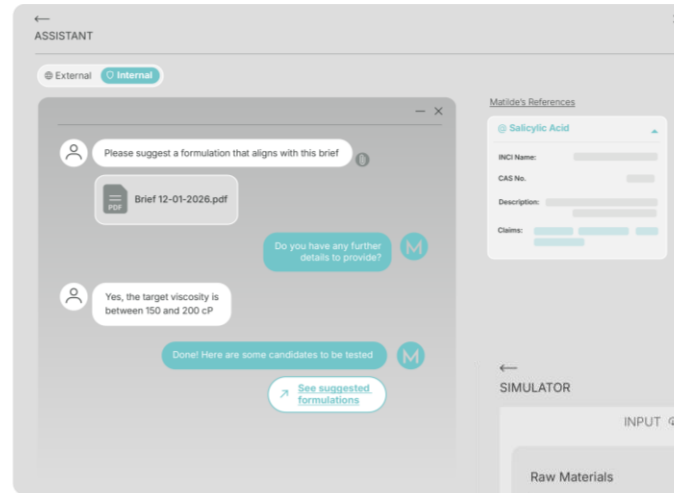


# MATILDE MODULES TO SUPPORT THE End-to-End FORMULATION PROCESS

## Accelerate product development

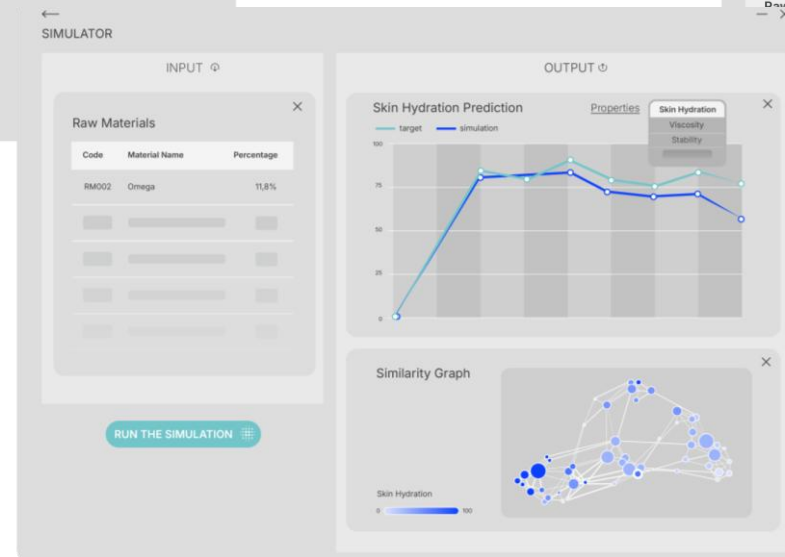
**MATILDE connects each new brief to existing knowledge and internal expertise, while cross-checking insights with external data sources**

**Move faster, reuse what works and scale formulation activities**



## MATILDE SMART ASSISTANT

**Regulatory checks and alternative ingredient identification have never been easier**



## MATILDE SIMULATOR&EXPLAINER

**Predict properties before entering the lab and identified what works better to match the new brief**

| Formulation Code | Formulation Name     | Date creation | Status   |
|------------------|----------------------|---------------|----------|
| 03               | Almond Hand Cream 23 | 12/23/2025    | ACCEPTED |

| Code  | Material Name | INCI Composition | Percentage |
|-------|---------------|------------------|------------|
| Alpha | Tochopherol   |                  | 13,00%     |

| Property          | Value  |
|-------------------|--------|
| Stability at 60°C | Stable |

## MATILDE FORMULATION MANAGEMENT

**Leverage past data, compare formulas, access your full knowledge base, and seamlessly share experimental results across your R&D team**



# BUSINESS CASE IN COSMETICS

## Company

International company in the cosmetic industry (> 300 Mln Euro revenues)

## Business question

How to **replace certain ingredients** in a product **without altering its final characteristics** such as skin hydration, pH, viscosity?

⚡ Time to market   ⚡ Reworks   ⚡ Waste



# MATILDE<sup>®</sup> DRASTICALLY REDUCES TIME TO MARKET (TTM)

From ingredients to properties and viceversa in seconds

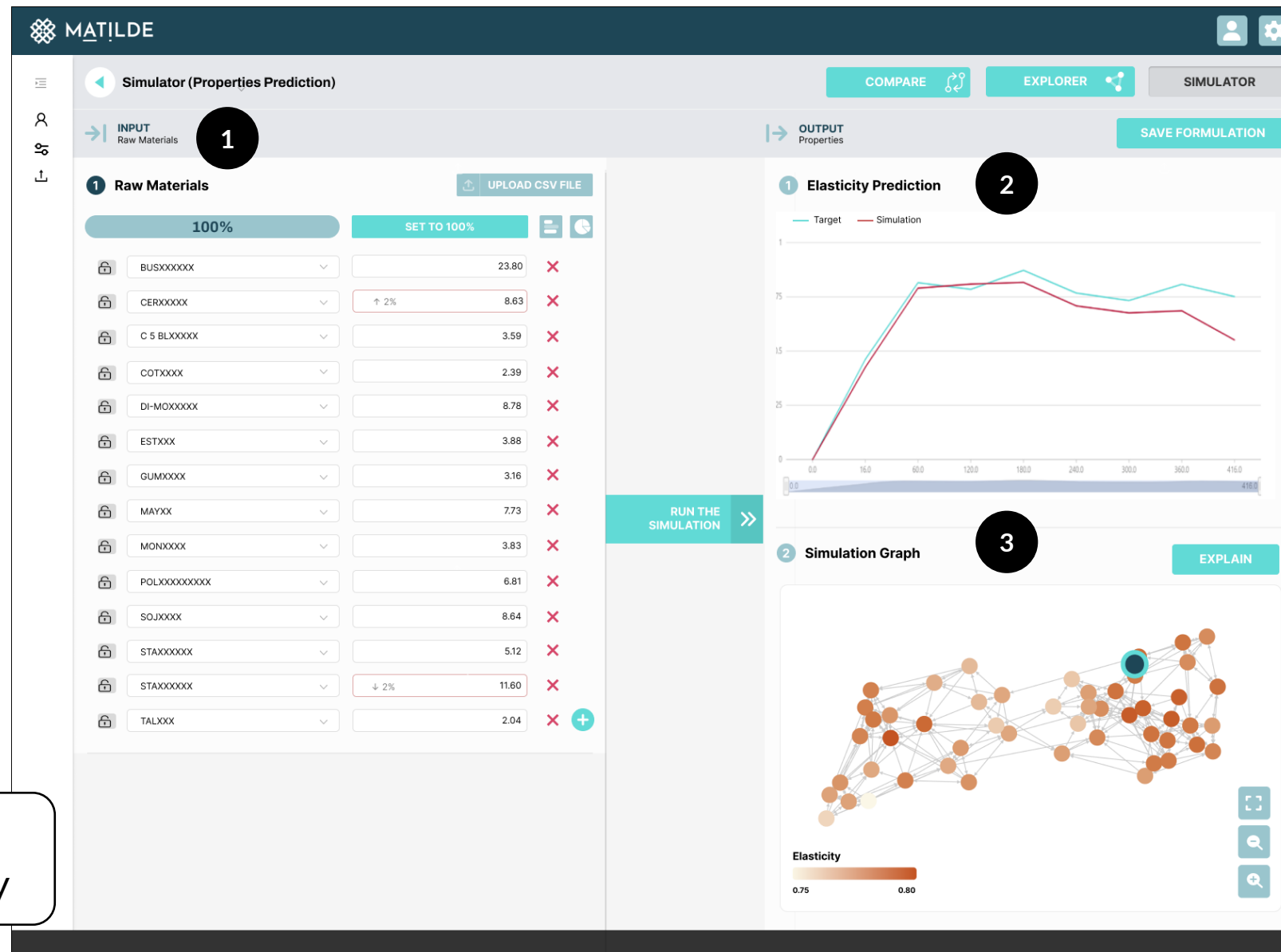
Powered by advanced explainable AI models

Designed for cosmetics, food, chemical companies

1 Enter the formula you would like to improve

2 Predict physical and sensory properties

3 Compare with past recipes for similarity

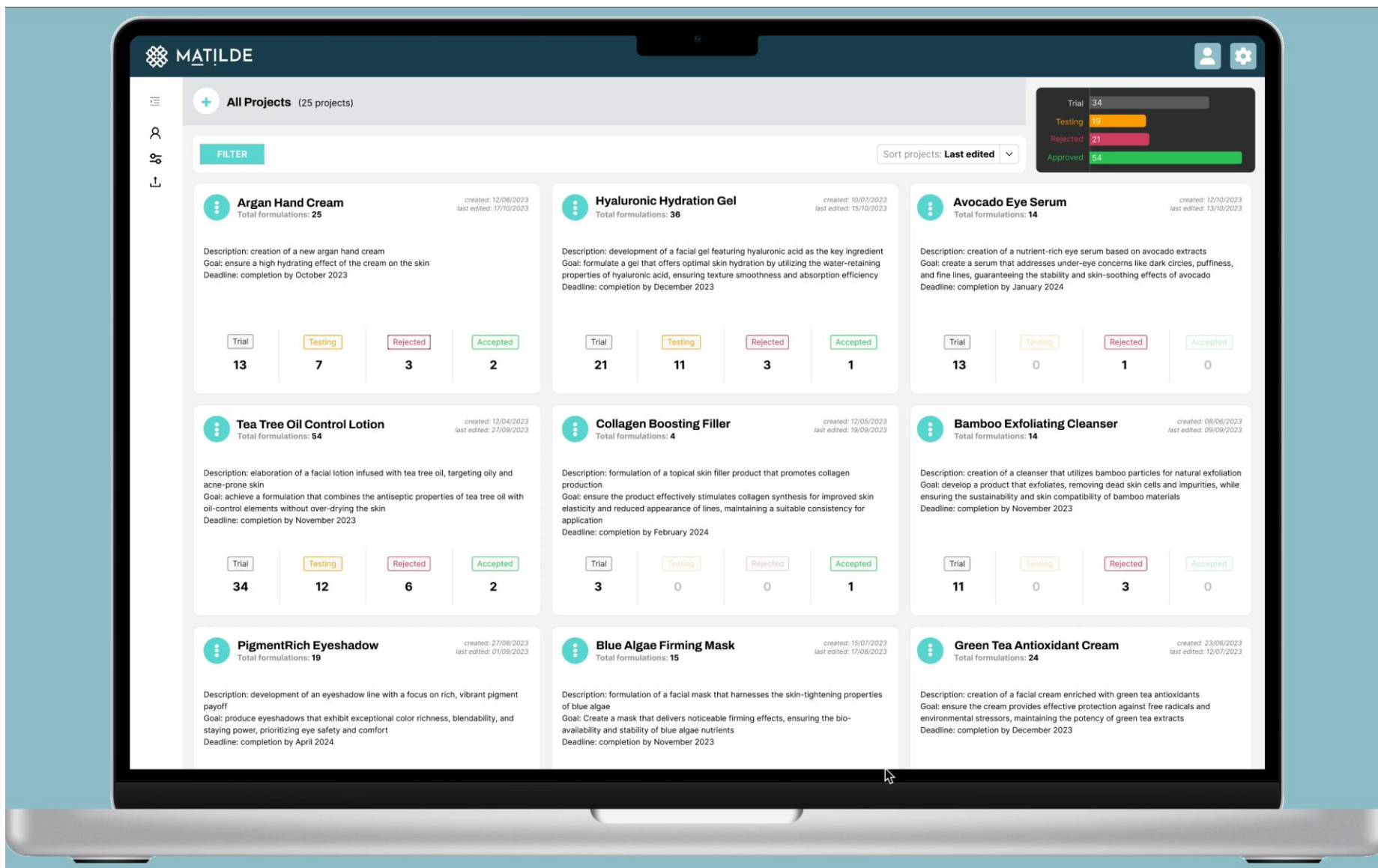






# MATILDE®

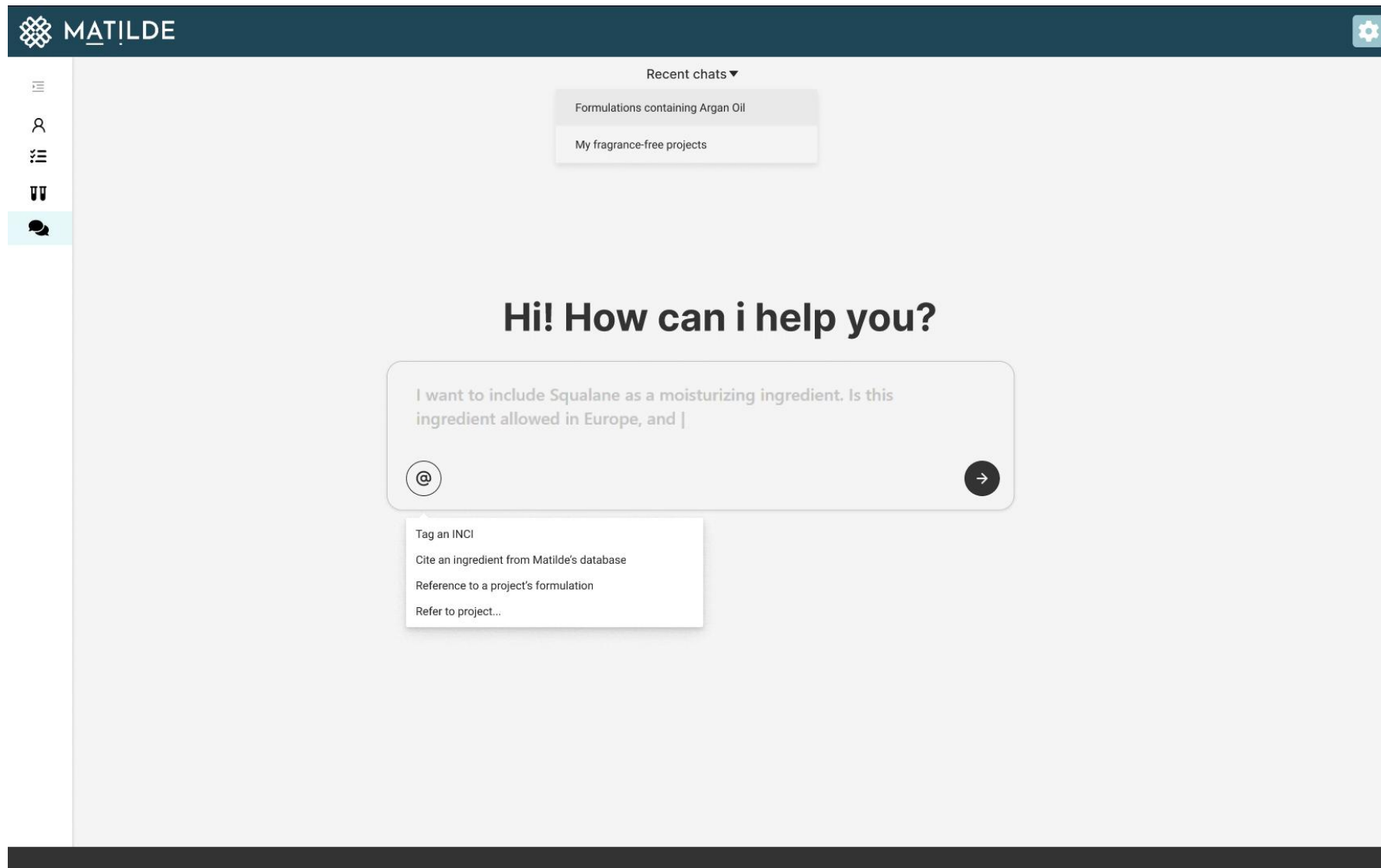
## SIMULATOR – How does it work



[Click here to see MATILDE in action](#)



# MATILDE<sup>®</sup> SMART ASSISTANT – How does it work



[Click here to see MATILDE in action](#)





## R&D PIPELINE MONITORING

Linking trials, tests and approved experiments in one place and pick up the best formulation to achieve the desired output faster

## AI CLOUD-BASED PLATFORM

High scalability to manage multiple AI models in one place to run multiple tests

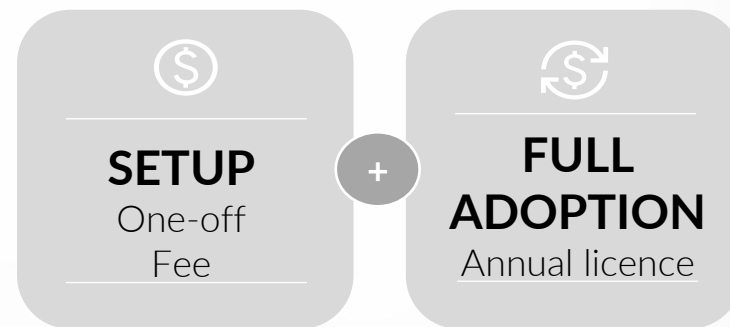
## SIMULATING AND EXPLAINING

Performing advanced comparisons between formulations using Explainable AI

## ADVANCED R&D ANALYSIS

Uploading data and accessing an advanced R&D dashboard in few minutes thanks to generative AI

**Vertical Small Language Models (SLMs), ready to be hosted locally to ensure the highest level of confidentiality.**





**58%\***

reduction in product  
development **time** and **costs**

+



**45%\***

**additional time** to re-invest in  
promising projects

**ROI**

**3.4x**

**Break-even time**

**1 year**

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For every €1 invested, €3.40 in value is generated





BETTER PRODUCTS, FASTER  
**MATILDE**

**CONTACT US  
FOR A DEMO**

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[www.intellico.ai](http://www.intellico.ai)

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# INTELICO COMPANY AND PEOPLE

# WE TURN APPLIED RESEARCH INTO B2B AI-BASED SOFTWARE SOLUTIONS



## R&D AND SOLUTIONS DESIGN

Developing AI Research streams into Sellable Software Solutions

## SOFTWARE FACTORY

Turning Scalable Solutions into AI SaaS Products



### INTELLICO'S Research Areas

Graph Neural Network (GNN)

Knowledge Graph (KG)

Physics-informed neural networks (PINNs)

### INTELLICO'S Research Partners



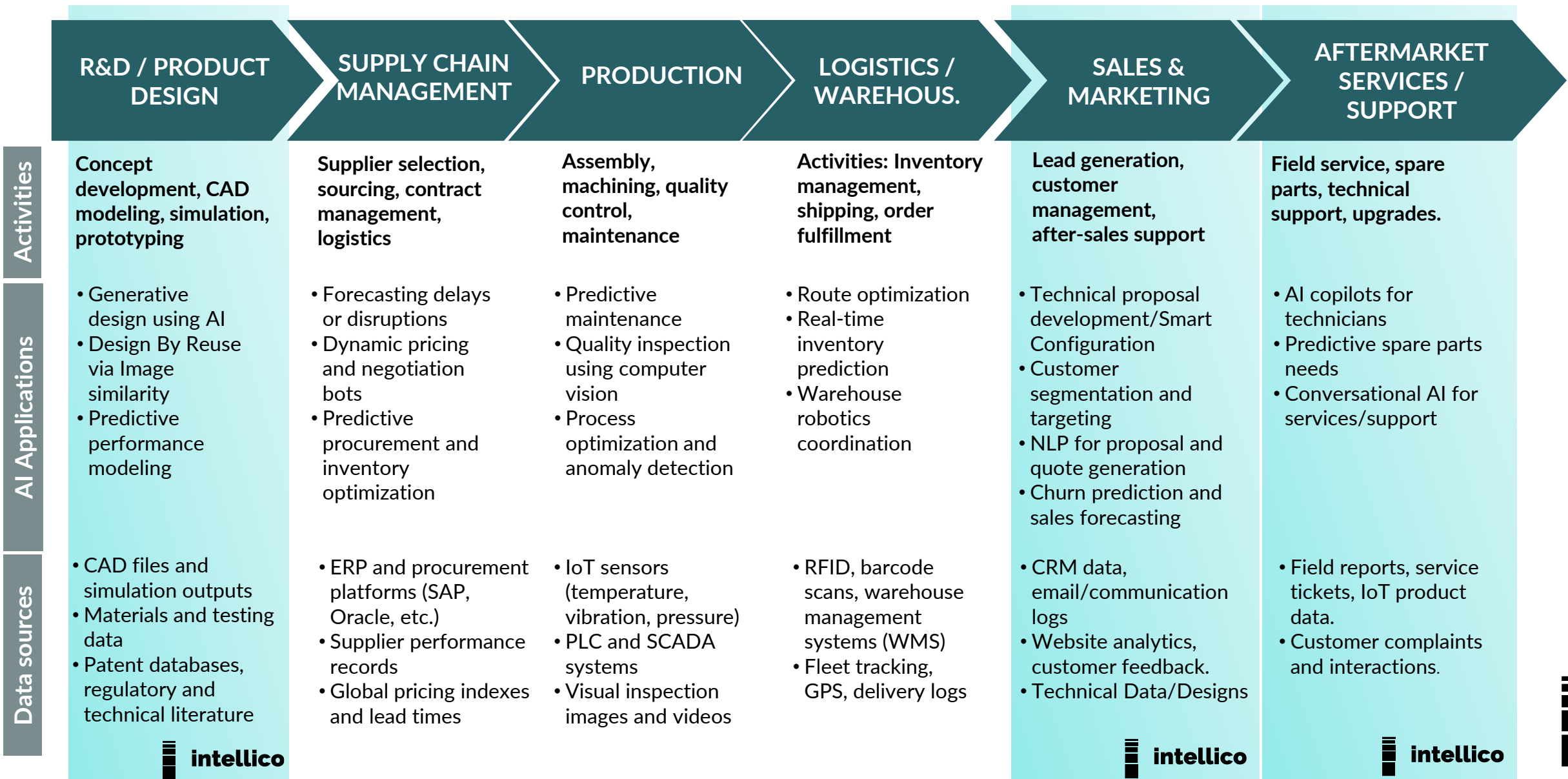
Politecnico di Milano



Università degli Studi di Milano



# OUR FOCUS BUSINESS AREAS





# INTELLICO SOLUTIONS

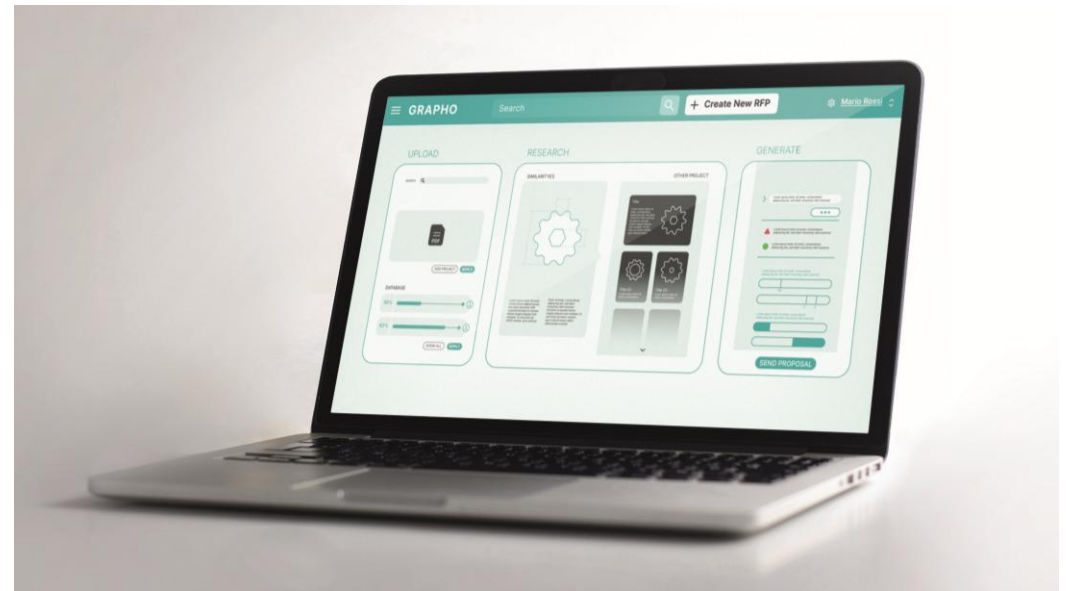


**MATILDE | AI Platform for R&D Labs (Process Manufacturing Industries).** MATILDE optimizes the formulation process, reducing time-to-market for cosmetic, chemical and food manufacturing companies.



## GRAPHO

**GRAPHO | AI Platform for Technical Sales (Manufacturing and Engineering Industries).** GRAPHO supports technical and sales teams in analyzing and validating technical requirements, checking for CAD design similarity, improving proposal accuracy and compliance during the tender/proposal/preparation process



**Vertical Small Language Models (SLMs),** ready to be hosted locally to ensure the highest level of performance, cost control and confidentiality



# WHAT MAKES INTELICO SOLUTIONS DIFFERENT

## Verticality = Accuracy and Time-to-Value for Our Customers

- **Domain- Specific Language Models**, deliver higher accuracy and compliance for industry- specific use cases
- **Solutions tailored to real industrial processes** (R&D, tender management, quotation, ecc.)
- **Reuse and scalability**: components, features, and best practices replicable across customers within the same domain

## Explainability = Ensuring that our customers can validate whether a prediction or suggestion makes sense

**Transparency:** Knowing *what* the model is and *how* it works at a high level

**Interpretability:** Understanding *why* a specific output was generated

**Justifiability:** Deciding *whether* the output should be applied in the current context



**Built for Manufacturing. Designed to Explain.**



# INTELLICO'S ECOSYSTEM OF PARTNERS



## R&D AND SOLUTIONS DESIGN

Developing AI Research streams into Sellable Software Solutions

## SOFTWARE FACTORY

Turning Scalable Solutions into AI SaaS Products



POLO COSMESI  
ITALIAN COSMETICS INDUSTRY

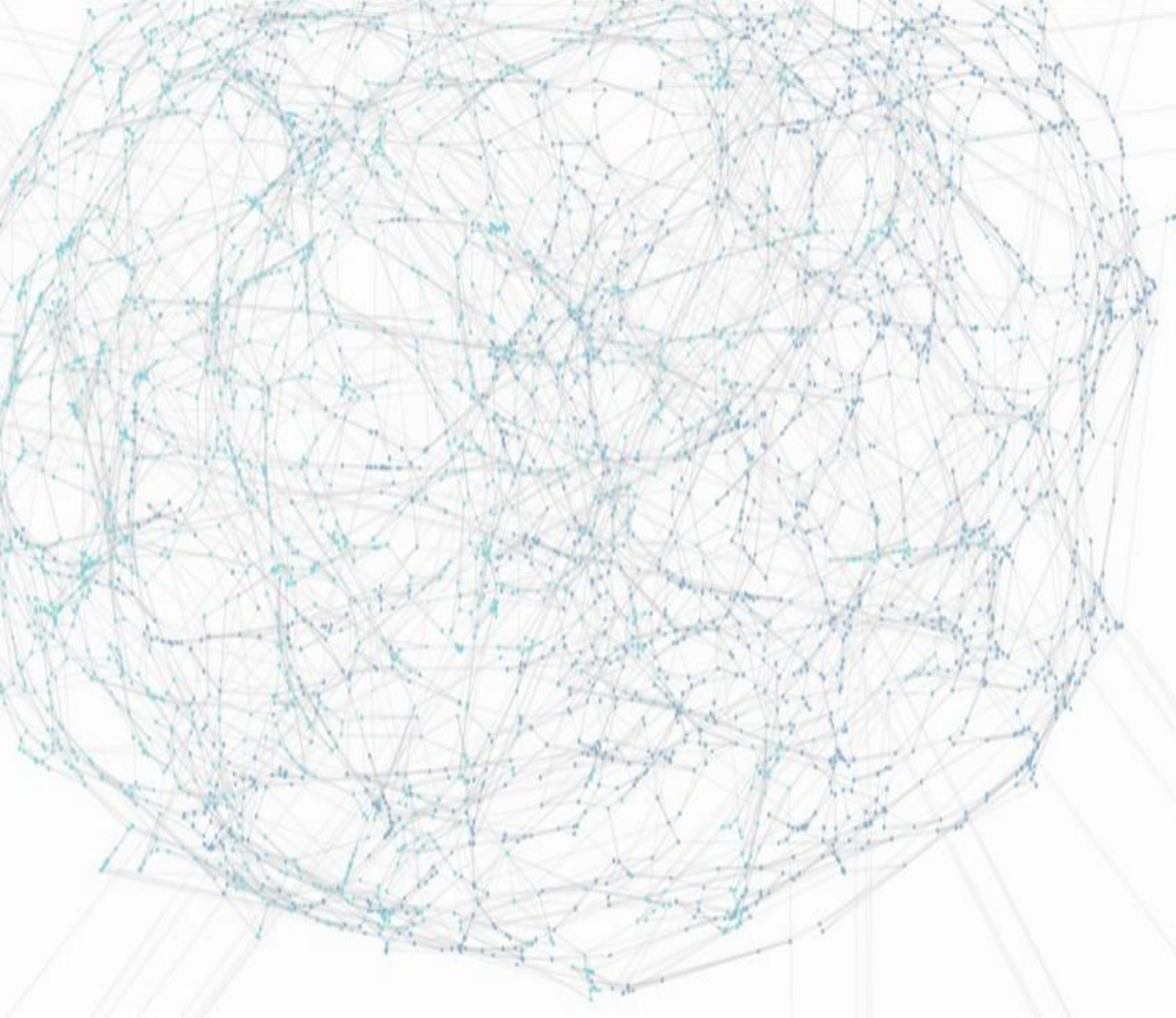


ELITE  
A Euronext Company



KAILIOS CAPITAL  
Value creation partner





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