

Main menu

Bot store

Library

My files

Tasks

Projects

Organizations

Workspaces

Admin

Admin

Support

Issues

Documentation

Help



dessia

AN AI APP FRAMEWORK FOR ENGINEERS



OUR TEAM

A team of **experts** from the **engineering world**



**PIERRE-EMMANUEL
DUMOUCHEL**

CEO & co-founder
Ing & PhD

*Former expert in
powertrain
architecture at
PSA Peugeot*



**STEVEN
MASFARAUD**

CTO & co-founder
ENS & PhD in AI
*Former PhD at PSA
Peugeot*



**JEAN-PIERRE
ROUX**

VP SALES
Ing

*Former Sales
manager at Siemens
& Altair*



**GREGORY
COUERBE**

COO
Ing & PhD

*Former Service
manager at Ansys*



**ALEXANDRE
DUVAL**

CFO

PGE EDHEC



**OSSIAN
HEULIN**

BD LEAD

*Former Sales at
Dassault
Systèmes*



**JEAN-MARIE
DURAND**

Advisor

*Former Technical
Director at Dassault
Systèmes*



**BRUNO
BERNARD**

Advisor

*Former Director at
Safran*

25+

EMPLOYEES

Founded in

2017

2.3M€

RAISED in Pre-Seed

SUPER NOVA INVEST **matter wave ventures**

GO CAPITAL

10

Major
Corporate Clients

dessia

Renault Group

STELLANTIS

OP Valeo
PLASTIC OMNIUM

ALSTOM

S

SAFRAN

AIRBUS

THALES

cnes **NAVAL GROUP**



HOW TO BE **THE FIRST**
TO MAKE THE **RIGHT DECISION**
IN TODAY'S **FAST CHANGING**
ENVIRONMENT?



CLIENT OBSTACLES

What are the main obstacles encountered by engineering?

Concept Phase  Market Study
Customer and Value proposition

Functional Phase  Test Phase
Sizing, Planning and Prototyping

Detailed Phase  Production

 **Automotive**
5 years of development

 **Aeronautic**
7 years of development

A LEGACY FROM A CLASSIC MARKET...

A **mature product** in a defined market.

1 Delay
Affects the **entire project**

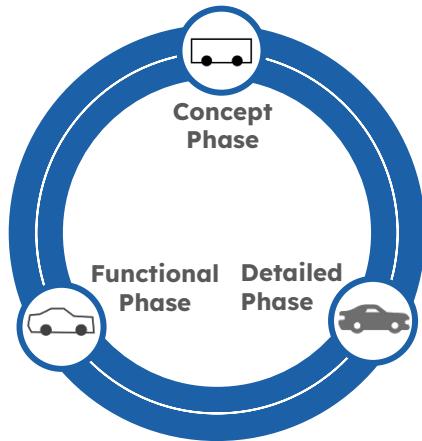
1 Change
Requires a **complete overhaul**

...NO LONGER SUITABLE
Impossible to adapt products in a **fast-changing world**

THE **ONLY** WAY

What is the only possible solution for engineering?

An Automation-Based Company



Tomorrow
Shifting Market

Reducing deadlines

Continuation of automated processes in order to stay on schedule

Embracing changes

Automated analysis to ensure that the chosen solution remains the most suitable

OUR VISION

Tomorrow, engineering tasks will be accompanied by solution-generating and interconnected **AI-Apps** (💡) to enable **continuous development** of all phases of a project.

Concept Phase



100+

Iterations per project

Functional Phase



1 Delay

Affects the **entire project**

Detailed Phase

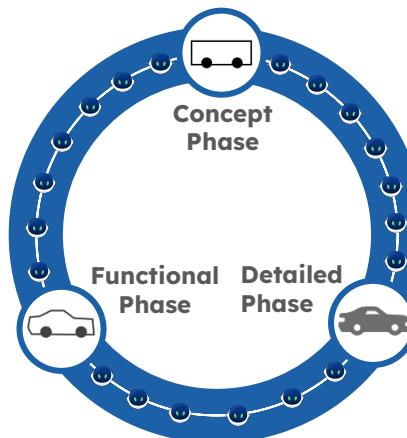


1 Change

Requires a **complete overhaul**

Today

Waterfall method



1M+

Iterations per project

1 Delay

Affects only **1 AI-APP**

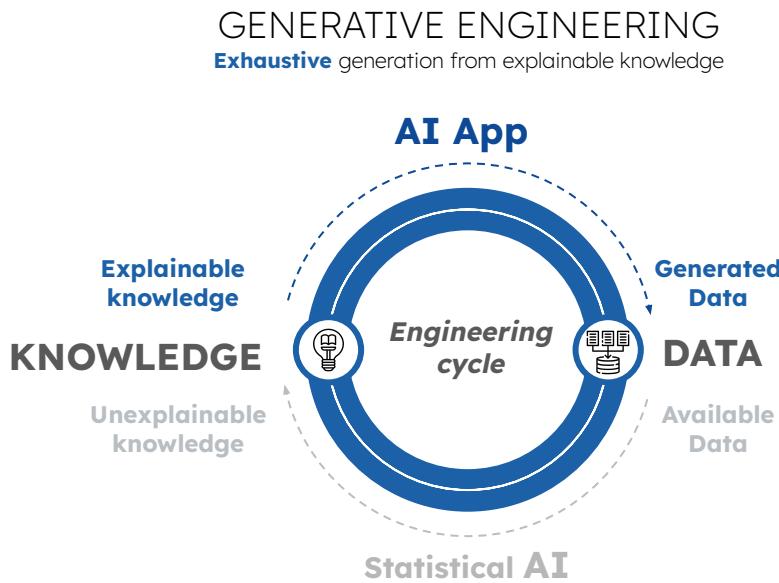
1 Change

is **instantly** integrated

Tomorrow

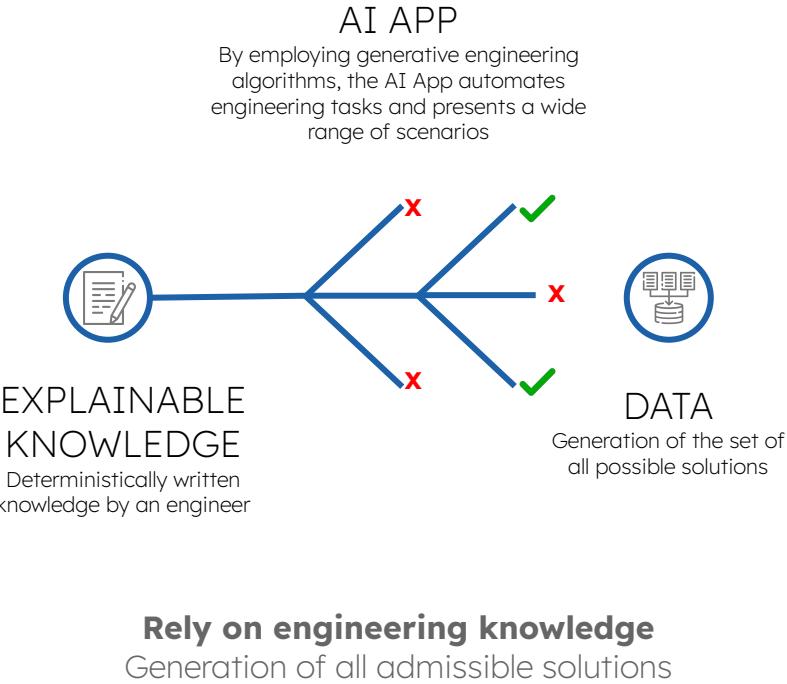
Continuous Engineering

OUR VISION



Engineer jobs can be summarized by two elements: their **knowledge** and what they **produce with it**

What is an **AI-APP**? An App based on **Generative AI** that generates data and solutions from **engineers' knowledge**.



OUR MISSION

Support and equip major players in **all sectors** towards this revolution by developing an **Generative AI-App Platform** for **engineering**.



AEROSPACE & DEFENCE



TRANSPORT & MOBILITY

MAJOR PLAYERS FROM ALL SECTORS...



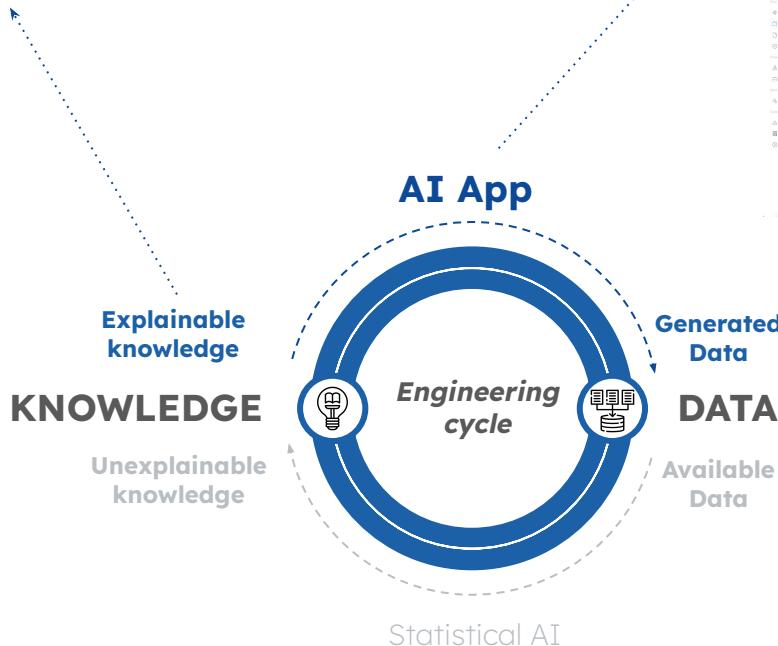
...EQUIPPED WITH DESSIA's PLATFORM

OUR **SOLUTION**

A **software framework** to standardize and reuse the explainable knowledge of industrial engineers

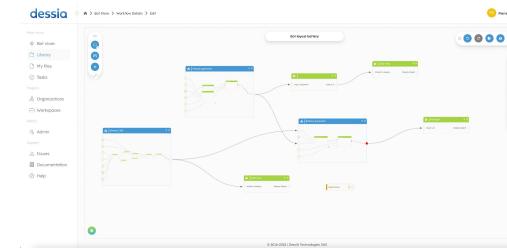
1. A Python Development Kit

to structure and standardize the explainable knowledge



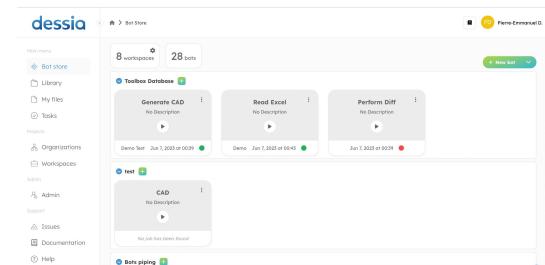
2. A AI App builder

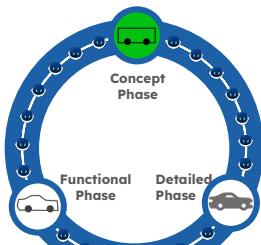
based on a Cloud platform, the end user build his own App based on his knowledge



3. A Cloud Platform

To use and share your **AI-App** and take decisions



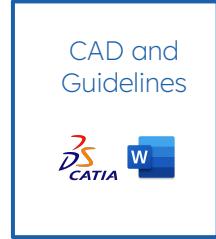


USE CASE

How to find the **best battery architecture** during the **Concept Phase** ?



Text from Experts



CAD and Guidelines



Current Knowledge

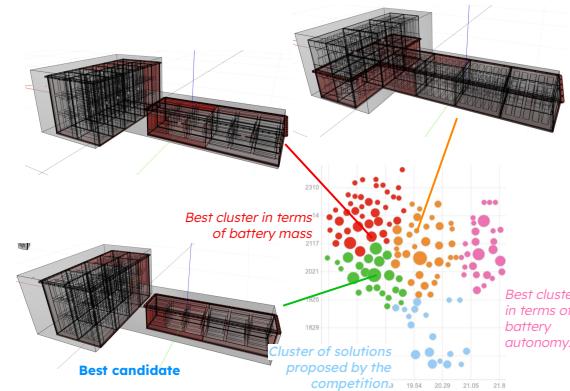
Written on document or in engineer mind

AI-App Li-Ion Battery



AI App

Standardization and emulation of knowledge within an AI App



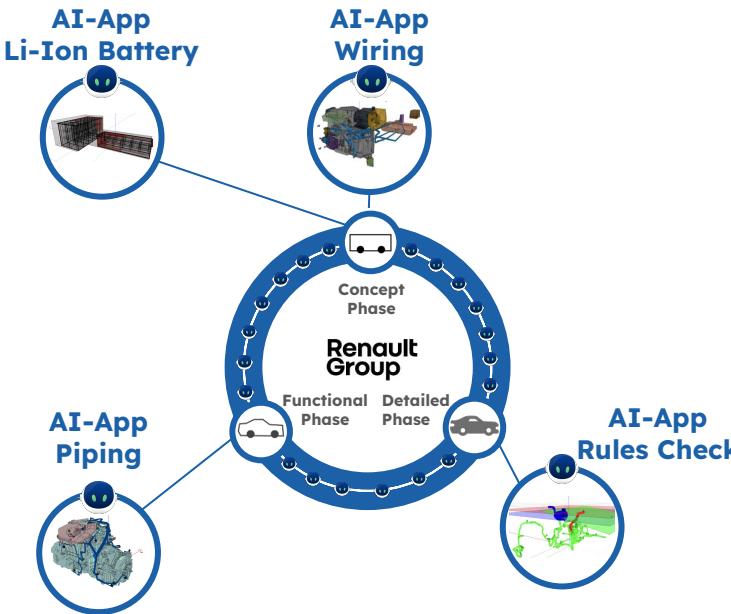
Decision support

Generate admissible solution to make the right decision

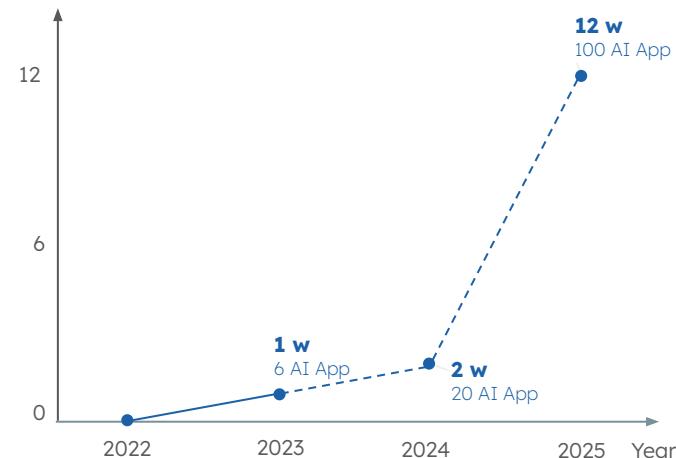
80 %

Development time reduction at Renault

N°1 CLIENT

Projection of the value created to our client **Renault****Until Now**

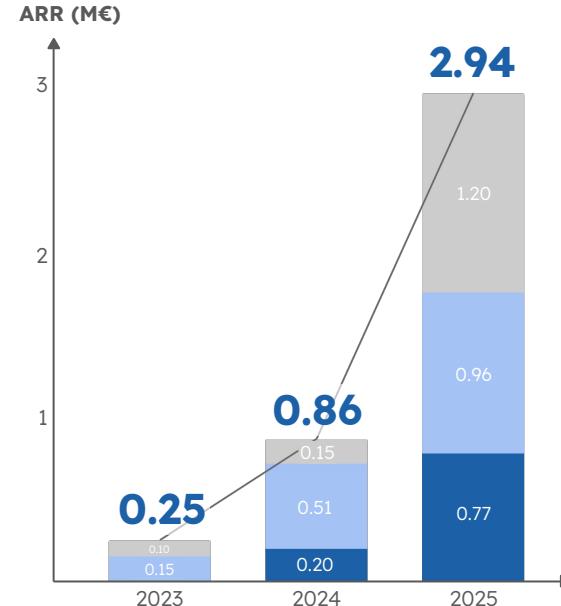
6 AI-App live and 10
AI-App in development

Development lead
time savings (week)**25%**

Percentage of Dessia's contribution in 2025 to
the **Renaulution** plan to reduce development
time by 1 year over 5 years

SALES PIPELINE

Our current challenge is to support our customers in their **expansion**.



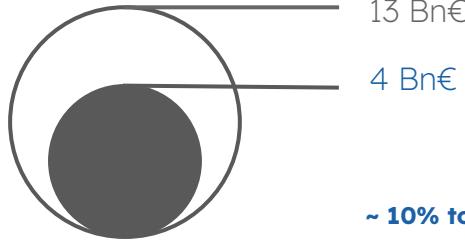
A GROWING SELLING PIPE LEADING TO...

...ARR GENERATED FROM LICENCES

OUR MARKET

A portion of the CAE (simulation) market (17B€ in 2030) that will inflate with the cloud and Generative AI push.

MARKET SIZE 2030 - Generative Engineering Software



~ 10% to 12% CAGR for the CAE market

INDUSTRY FOCUS



CLIENT'S PROFILE



OEM's and TIER 1
>> 5B\$ turnover

DAHER

LARGE SMB's
> 1B\$ turnover



OUR AI

Dessia plays a **strategic role** in the fast-growing AI sector.

Flow Engineering

8 m€ raise in 2022

They propose to construct the knowledge of requirements

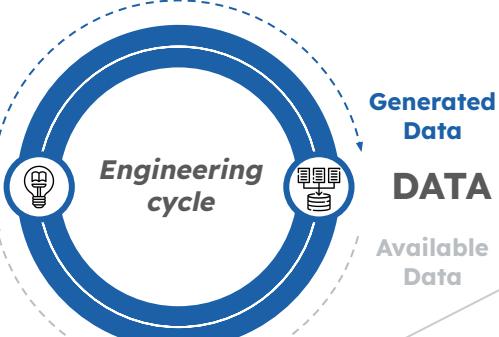
Valispace

2.4 m€ raise in 2020

They propose to construct elements of analytical knowledge

KNOWLEDGE
Explainable knowledge
Unexplainable knowledge

Generative Engineering



Mistral.ai

105 m€ raise in 2023

They offer a toolbox to build one's own knowledge models based on LLMs

Neural Concept

9 m€ raise in 2022

They build simple knowledge models from complex simulations

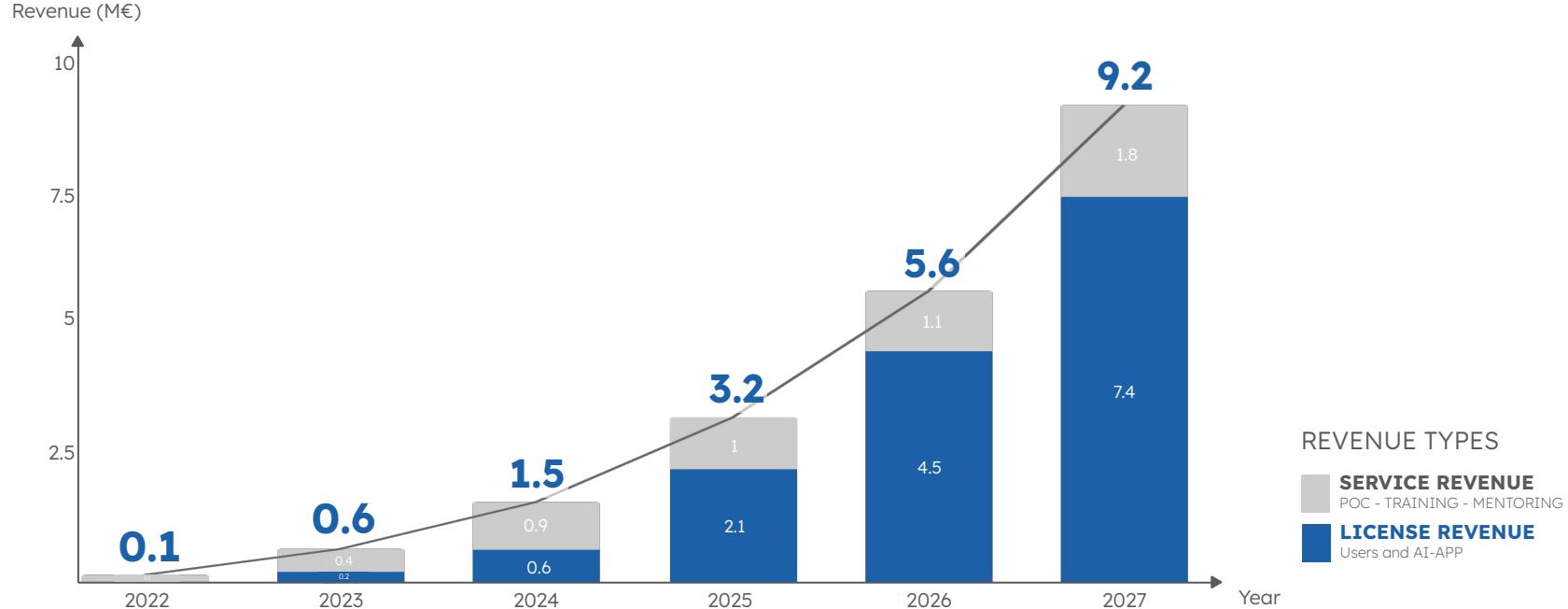
MosaicML

Exit in 2023 NC

They offer an LLM model management platform for a company

REVENUE

Rapid revenue growth between now and 2025, with many new customers moving towards licensing.



Revenue Projection

A growing license

FINANCIAL NEED

Three strategic areas of development to achieve the KPIs in 2025.

3 M€
Q4 2023

Marketing

Become a reference in **Generative engineering**

Operating

Strengthening **deeptech customer support**

Technical

Development of a **low-code** approach for generating explainable knowledge elements

OUR NEED TO ACHIEVE...

3 M€ ARR

3 Major Clients

From **different sectors**

40 Clients

From **different countries**

...OUR GOALS IN 2025



Thank you !

Presentation by

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