



AVEVAWORLD

ACCELERATE INDUSTRIAL INTELLIGENCE

AVEVA WORLD MILAN, MAY 2026

AI driven engineering: Unlocking the next wave of productivity

Community Group

AVEVA

Marco Pecoraro

Engineering Processes Digitalization,
Head of Department

Tecnimont

Enhancing Engineering
with AI:

MAIRE'S Innovation
Journey

ENHANCING ENGINEERING WITH AI: MAIRE'S INNOVATION JOURNEY

WHO AM I



Marco Armando Pecoraro

Engineering Processes Digitalization Head of Department

I bring over a decade of experience in the Engineering, Procurement, and Construction (EPC) industry. My journey has been fueled by a deep passion for emerging technologies and innovation—particularly in the areas of digital transformation, material management, and the integration of Artificial Intelligence into EPC workflows. I thrive at the intersection of engineering and innovation, where technology reshapes how we design, build, and deliver complex projects.

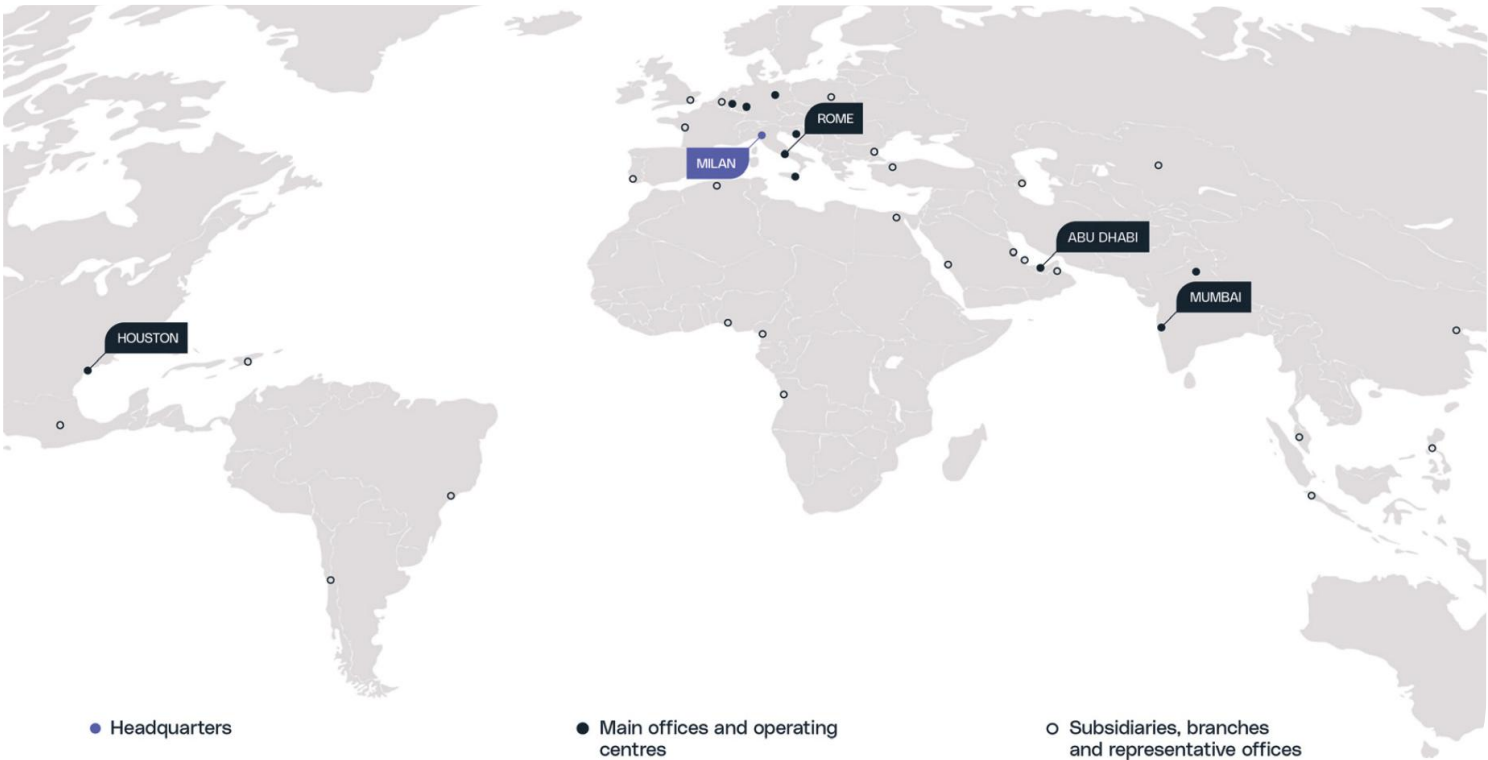
- Tecnimont
- m.pecoraro@tecnimont.it



MAIRE AT A GLANCE

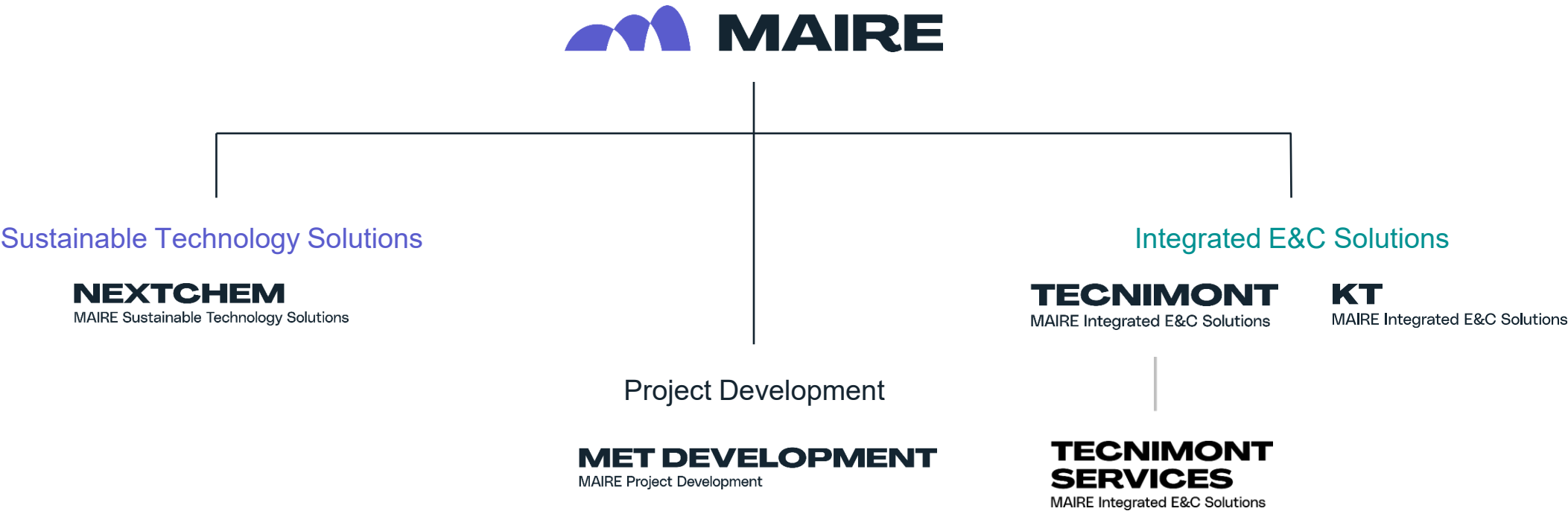
We are a technology and engineering Group that develops and implements innovative solutions to enable the energy transition.

We offer Sustainable Technology Solutions and Integrated E&C Solutions to accelerate decarbonization across industries.



Data as of 31st December, 2025.
*The data includes employees, collaborators and sub-contractors

MAIRE INTEGRATED ORGANIZATION

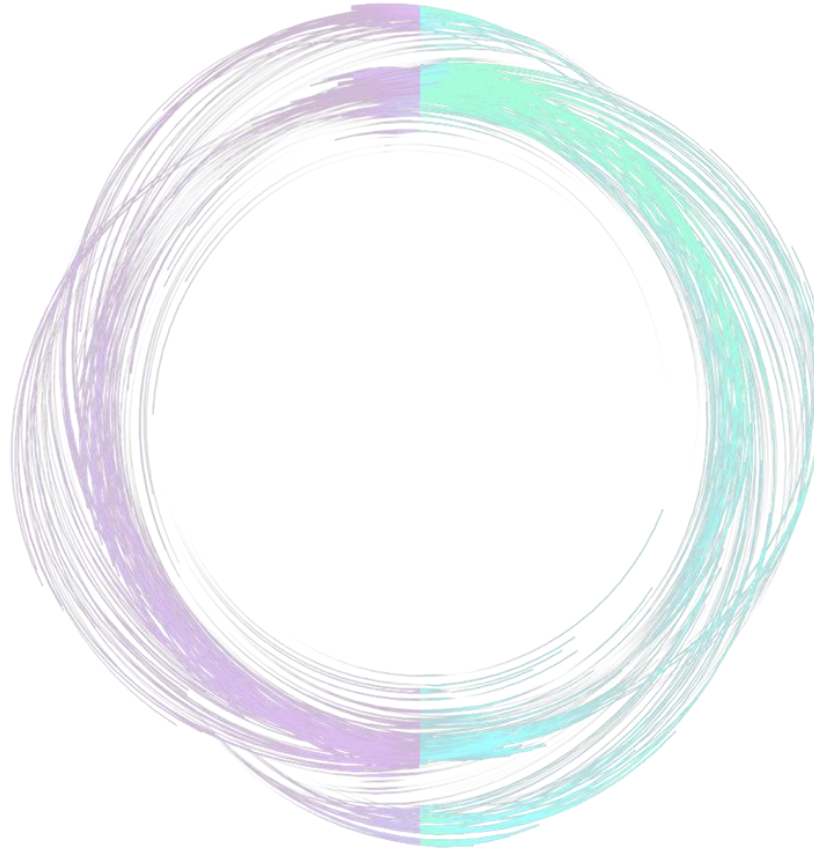


HOME TO THOSE WHO MAKE TO INSPIRE

SUSTAINABLE TECHNOLOGY SOLUTIONS

We offer **Sustainable Technology Solutions** to fully **ENABLE** energy transition.

Innovative and sustainable processes, optimizing conventional ones and creating new processes from non-fossil feedstock.



INTEGRATED E&C SOLUTIONS

We **MAKE** energy transition happen through our **Integrated E&C Solutions**.

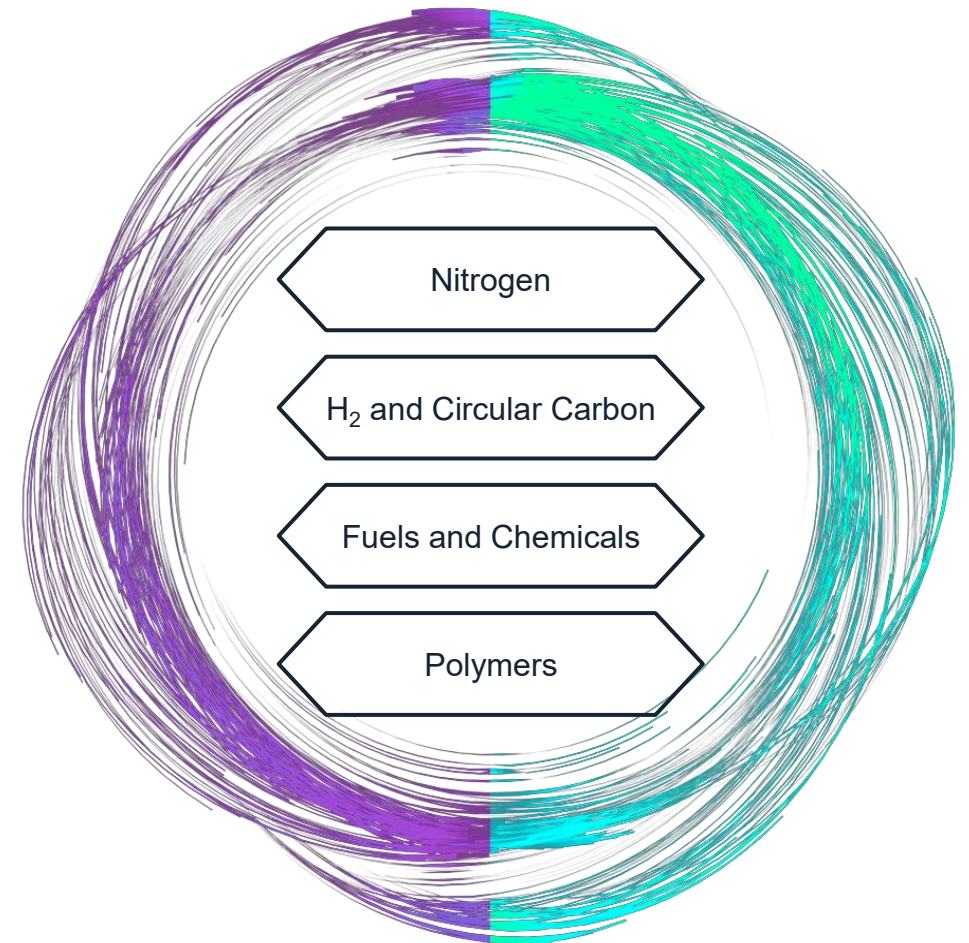
We bring into reality complex plants and frontier projects designed to provide access to the latest technologies.

PROJECT DEVELOPMENT

We **PURSUE** opportunities to support both businesses by **developing projects**

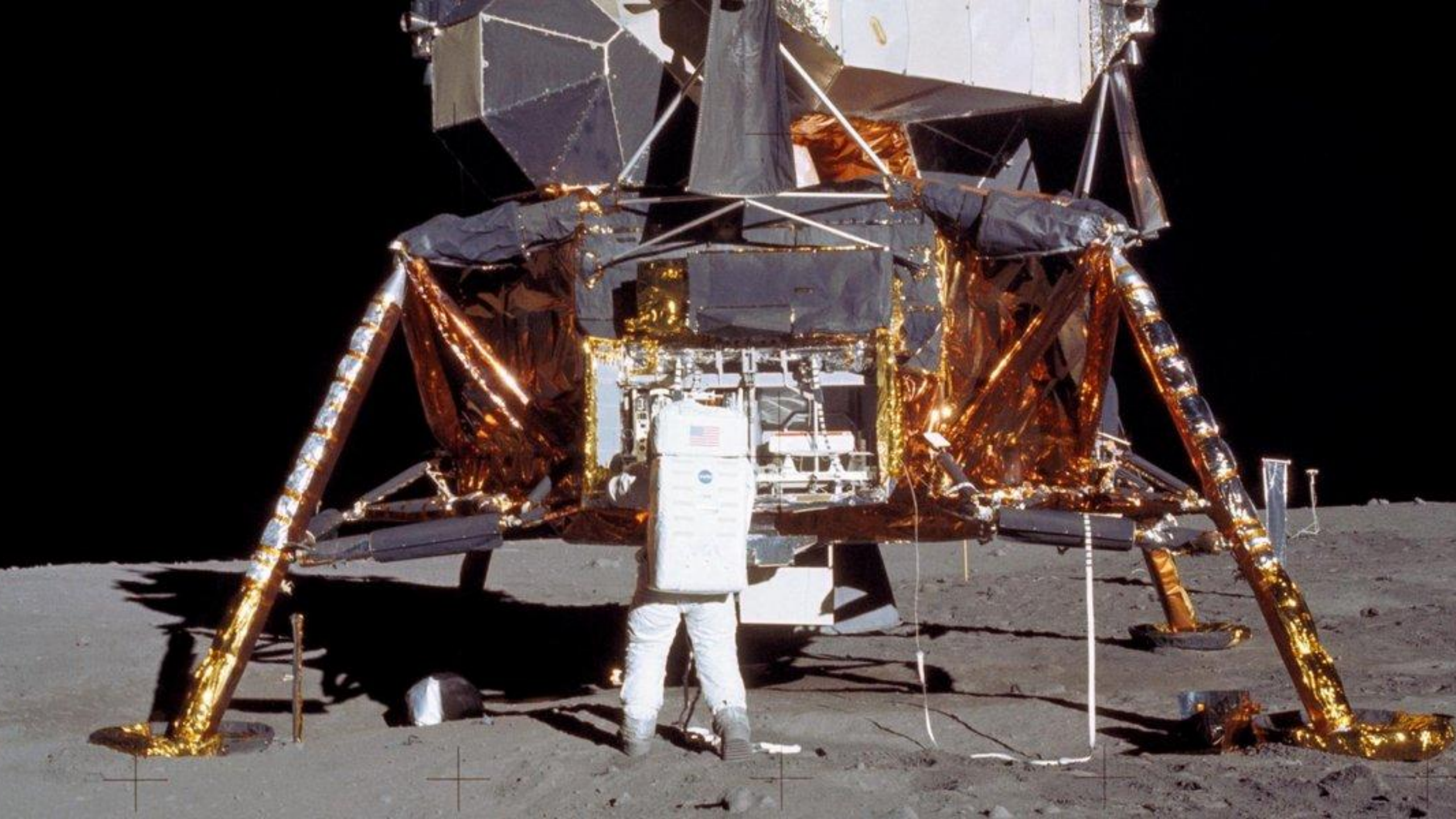
MAIRE CORE BUSINESS

We are enablers of innovation and energy transition, working alongside businesses to co-develop sustainable technologies and design integrated solutions in fertilizers, hydrogen, carbon capture & storage, fuels & chemicals, and polymers.

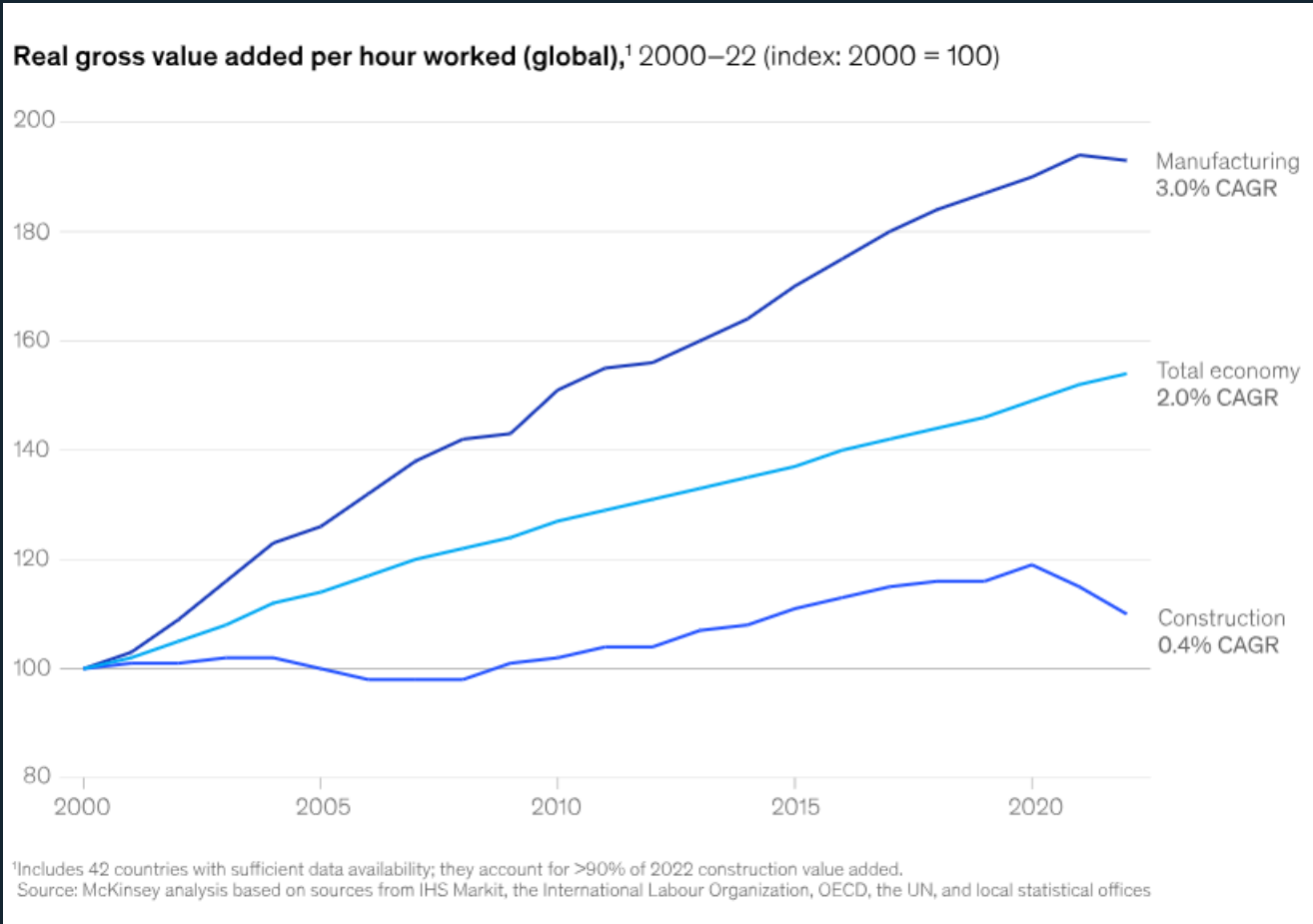








INNOVATION IN IE&C PROJECTS



Source: McKinsey & Company (2024)

OUR INDUSTRY:



LOW MARGIN, HIGH RISKS

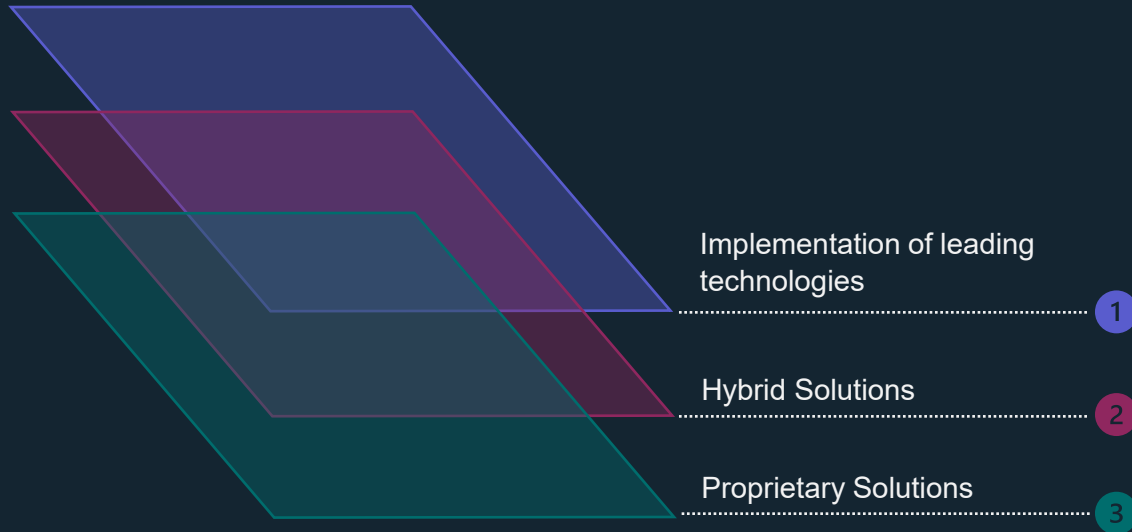
PRODUCTIVITY LAG vs OTHER INDUSTRIES

LACK OF INNOVATION & SKILLED TALENTS

***“You can’t drive forward while
looking in the rearview mirror”***

(Steve Harvey)

HOW TO TACKLE THIS CHALLENGE



MULTI – LAYER STRATEGY

Adoption of Best of Breed Technologies like AVEVA:

Through this approach, MAIRE has leveraged existing AI technologies to meet some Engineering needs.

Hybrid Solutions: Integrating existing third-party applications with in-house AI configurations to meet MAIRE Engineering's specific requirements.

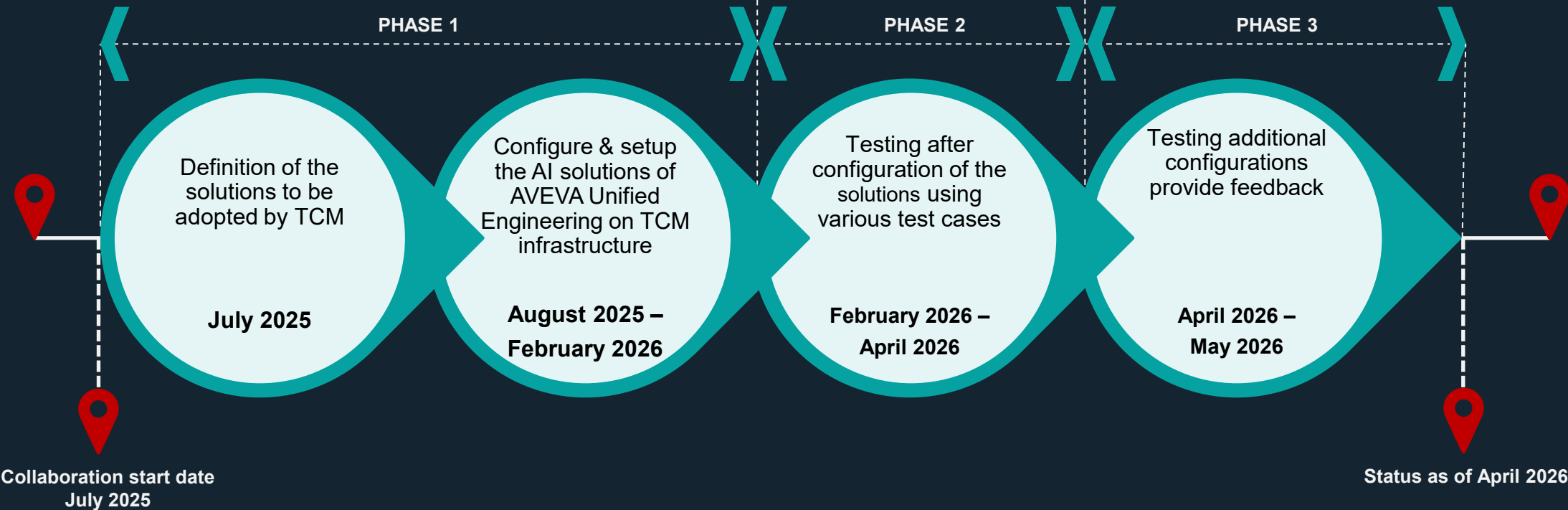
Proprietary Solutions: After identifying gaps in existing technologies, 3rd layer is adopted by developing proprietary solutions to meet MAIRE Engineering's specific requirements through its **NEXTBRAINS** internal organization.



Remove boundaries inside IT and between Business & IT



PARTNERING WITH AVEVA FOR AI IMPLEMENTATION



ACHIEVEMENTS SO FAR

1 AVEVA PreDAI-UE built-in Machine Learning Predictive Design AI

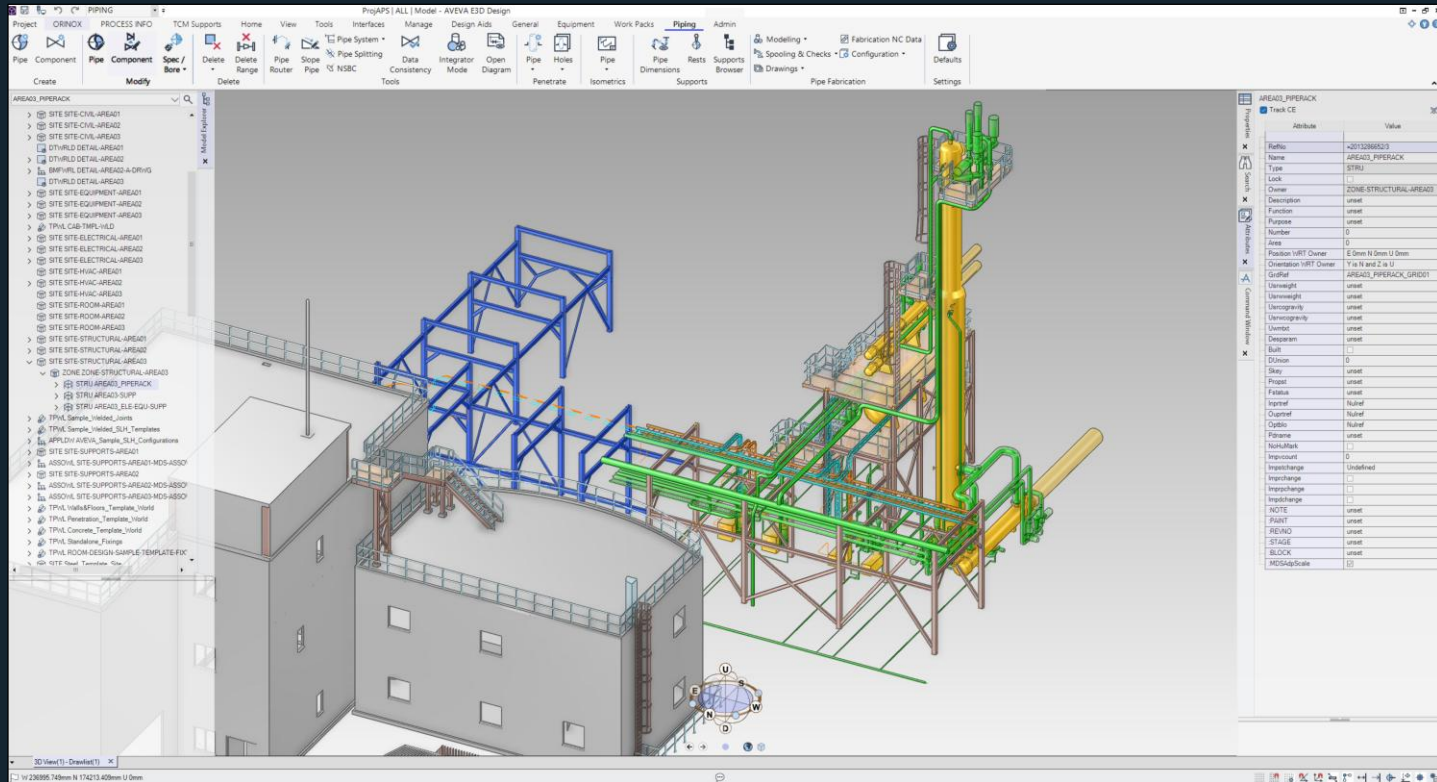
- ✓ PoC initiated
- ✓ Technology mature, high learning curve
- ✓ Historical Data main strategic enabler

2 AVEVA Industrial AI Assistant

- ✓ Technology mature, simple adoption
- ✓ Support for new hired engineering onboarding

3 GenDAI – AI-infused Piping Auto-Routing

- ✓ Technology not yet fully mature: applicability only in simplified scenarios.



***“Speed is
irrelevant if you are
going in the wrong
direction”***

(Mahatma Gandhi)



ROAD TO THE FUTURE!



Achieve an **AI-empowered Digital Twin** and **AI-based data quality** throughout project execution, not only at client handover.



Bridging the gap between **business processes** and **technology**

"The world we have created is the product of our thinking and therefore cannot change unless we first change our way of thinking". (A. Einstein)



THANK YOU!



MAIRE

Thomaz Americano

Chief Executive Officer

AP Consultoria e Projectos

Boosting Engineering Design
Performance with Advanced
AI Tools in Unified
Engineering 4.0



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E PROJETOS

AVEVAWORLD
MILAN 2026

BOOSTING ENGINEERING DESIGN PERFORMANCE WITH ADVANCED AI TOOLS IN UNIFIED ENGINEERING 4.0

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THIAGO OLIVEIRA

AVEVA BRAZIL

DIRECTOR, TECH SUPPORT, AMERICAS

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AP Consultoria e Projetos

AI-DRIVEN ENGINEERING TRANSFORMATION

CHALLENGE

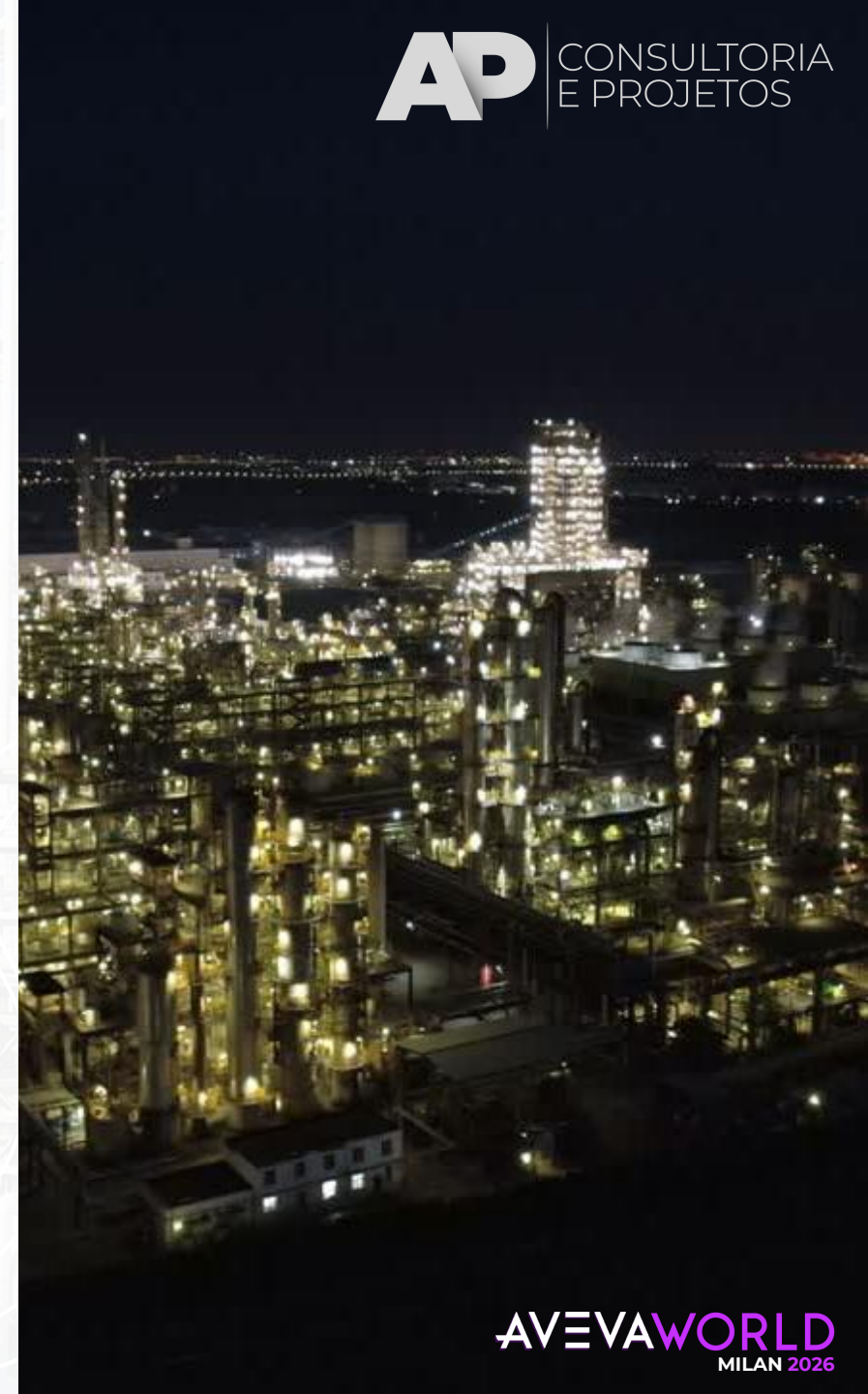
- Reduce engineering time in complex industrial projects.
- Decrease manual effort in 3D modeling and piping route definition.
- Minimize rework, clashes, and conflicts between elements.
- Support new users or users migrating from other tools.
- Improve agility in technical decision-making.

SOLUTION

- Use Generative Design AI to automatically generate piping routes.
- Use the Industrial AI Assistant for technical support based on official documentation.
- Use PredAI Machine Learning for Pipe Supports to support pipe support definition.

RESULTS

- 12% Reduction in project modeling time using GENDAI
- 31% Of piping routes defined with minimal or no designer intervention using GENDAI.
- 44% Of routes IA generated without clashes using GENDAI.
- 87% answer accuracy from the AI assistant.
- 18% Reduction in support modeling time using no code ML.
- 28% reduction in project time using no code ML.





ABOUT US

PRESENTER

AP CONSULTORIA E PROJETOS

AVEVAWORLD
MILAN 2026

ABOUT US

PRESENTER

THOMAZ AMERICANO

CHIEF OPERATIONS OFFICER

Civil Engineer graduated from the Federal University of Bahia (UFBA) and postgraduate from COPPEAD/UFRJ and the University of San Diego. Director of Engineering at AP Consultoria e Projetos and also Director of ABEMI (Brazilian Association of Industrial Engineering). In 2022, he was responsible for creating the ABEMI Talks roundtable series.

AP CONSULTORIA
E PROJETOS



THIAGO OLIVEIRA

DIRECTOR, TECH SUPPORT, AMERICAS

Director, Tech Support, Americas for AVEVA. Specializes in engineering software, project management, and customer support and success. Responsible for managing the support of hundreds of customers in Latin America, leading a high-performance team in major projects using AVEVA solutions under the engineering portfolio, and acting as site leader for the AVEVA office in Rio de Janeiro.

AVEVA



ABOUT US

AP CONSULTORIA E PROJETOS

- **Brazilian Company**

Headquarters in Salvador/BA, Brazil.

- **Project Experience**

Founded in 1993, with over 105 contracts completed.

- **Multidisciplinary Engineering**

Process, Mechanical, Piping, Electrical, Instrumentation, Automation, Civil, Telecommunications and Laser Scanner

- **Excellence by Global Certifications**

"AP is a GPTW-certified company and holds ISO 9001 certification, reinforcing its commitment to quality, ethics, and excellence.



- **Areas of Activity**

Oil & Gas, Energy, Petrochemicals, Infrastructure, Mining, Ports and Terminals, Pulp and Paper, Metallurgy and Steel.

- **Innovative Company**

Winner of innovation awards in Brazil in 2021, 2023, and 2024, and speaker at AVEVA World in 2023, 2025, and 2026.

- **Focus on the PI System**

In 2025, AP launched an OT sector focused on the PI System, training engineers with AVEVA specialists through global partnerships.

- **AVEVA Partnership**

Over 13 years of partnership and collaboration with AVEVA.



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E PROJETOS

GENERATIVE DESIGN AI

(PREVIEW)

WHAT IS IT?

HOW DOES IT
WORK?

PILOT
PROJECT

BENEFITS AND
CHALLENGES

RESULTS

AVEVAWORLD
MILAN 2026

GENERATIVE DESIGN AI

(PREVIEW)

WHAT IS IT?



TRADITIONAL MODE

In traditional engineering, designers manually execute complex piping routes and layouts for projects.



VS

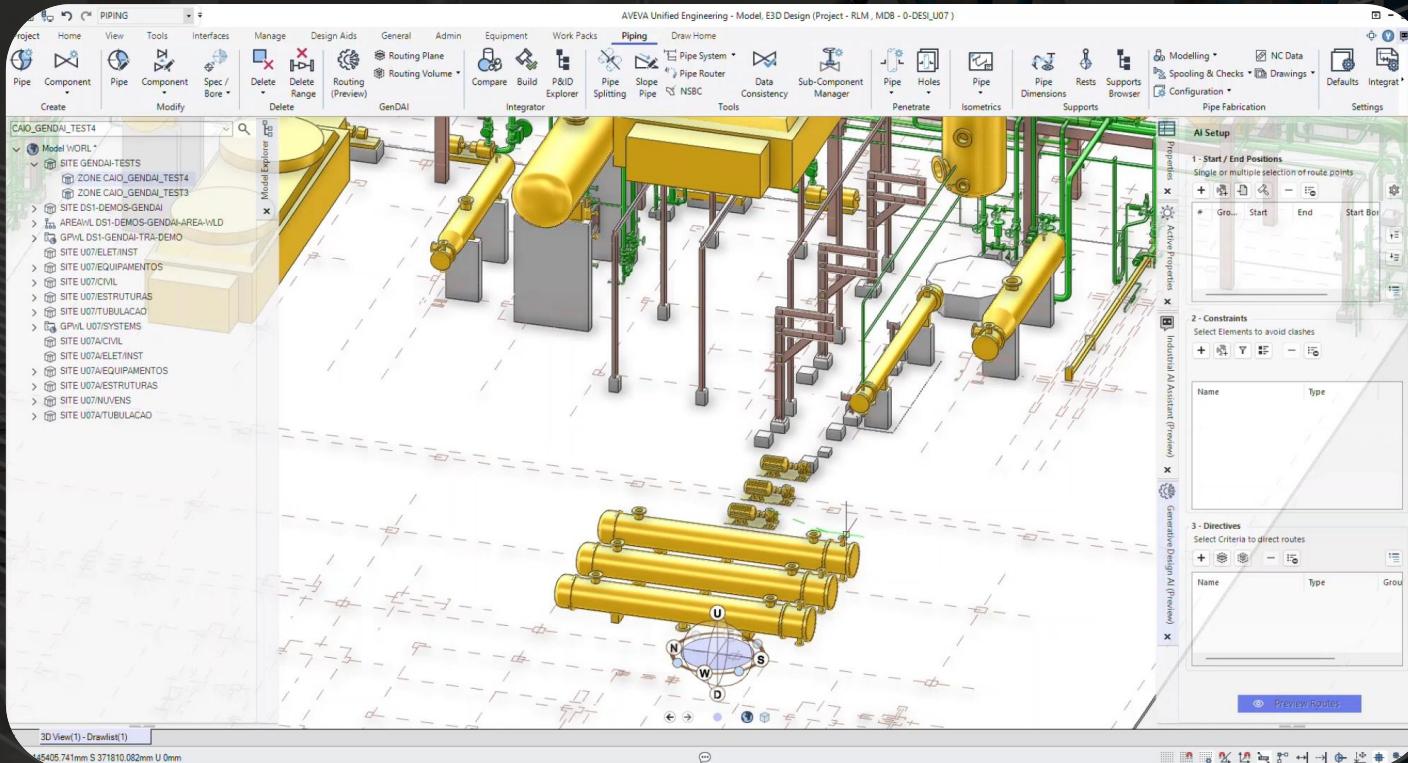
GENDAI MODE

With GenDAI, AI analyzes design requirements and automatically generates feasible layout solutions, initially focusing on piping auto-routing.



GENERATIVE DESIGN AI (PREVIEW)

HOW DOES IT WORK?



01

SPEC PARAMETERS

- Customization and discipline-specific creation defaults

02

PROJECT OBJECTIVE

- Starting point
- Ending point

03

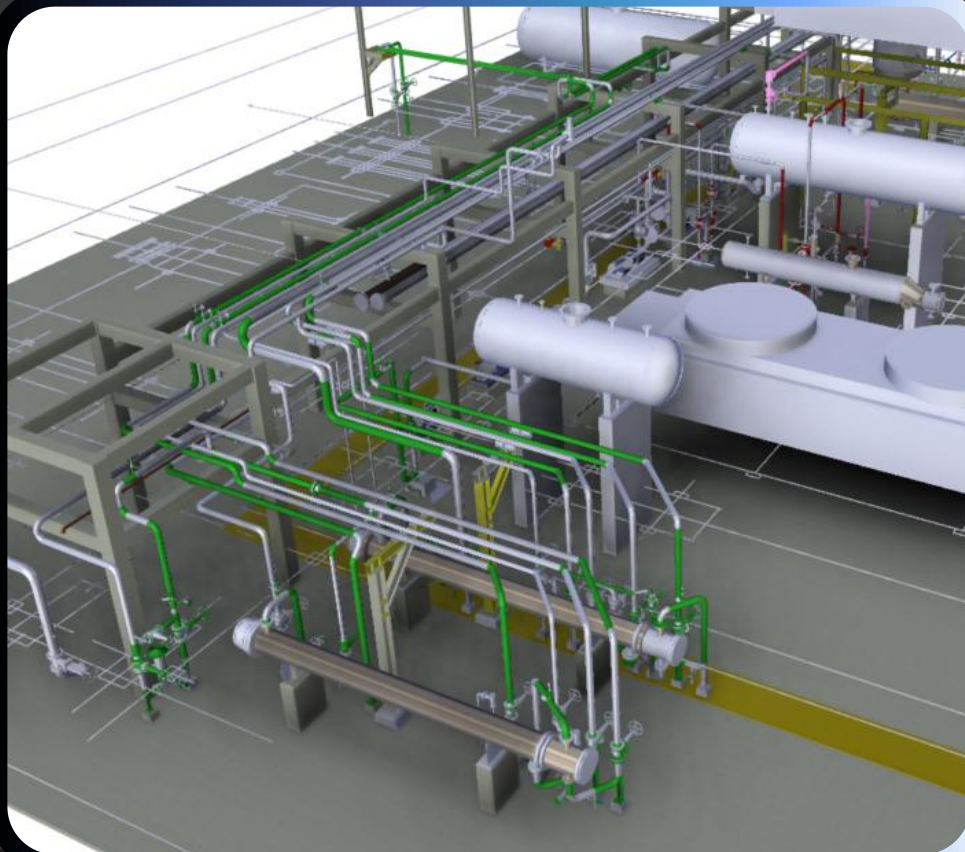
PHYSICAL CONSTRAINTS

- Spaces
- Obstacles
- Routing

GENERATIVE DESIGN AI

(PREVIEW)

PILOT PROJECT



PILOT PROJECT



**INDUSTRIAL
PROJECT**



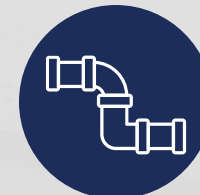
**MULTIDISCIPLINARY
PROJECT**



**+400H
PROJECT**



**+9000
OBSTACLES**



**+70 MODELLED
PIPES**



**CUSTOMER
SPEC DATA**

GENERATIVE DESIGN AI

(PREVIEW)

Benefits and Challenges

Benefits of the solution



INCREASED PRODUCTIVITY

It reduces working hours in the 3D modeling process



COST REDUCTION

It saves time on the project and reduces human intervention



OPTIMIZED OPTIONS ANALYSIS

It helps engineers compare different design scenarios.



REDUCTION OF INTERFERENCE

GENDAI avoids collisions or records conflicts between elements



Implementation Challenges (BETA)



NEED FOR ENGINEERING ANALYSIS

Speeds up the selection process, but does not eliminate the review



OPTIMIZATION VS. BEST SOLUTION

The best industrial layout is not always the shortest



AVEVA INDUSTRIAL NOZZLE

The nozzle needs to be updated according to the APS and ACP databases for the solution to function



DIFFICULTY FOR ROBUST ROUTES

Difficulty in finding robust routes and being able to generate crash solutions

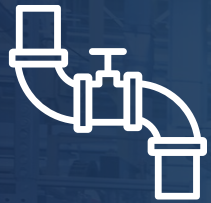


GENERATIVE DESIGN AI

(PREVIEW)

RESULTS

PILOT PROJECT NUMBERS



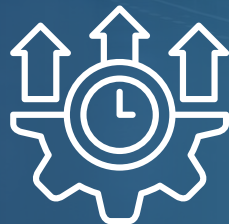
18 LINE ROUTES



6 MIN
AVERAGE TIME
TO SOLUTION



6 M
MEDIUM
LENGTH



44% ROUTE WAS
REUSED

50%

PIPELINE ROUTES TRACES WITHOUT
CLASH

33%

PIPING ROUTES DEFINED WITHOUT
OR WITH MINIMAL DESIGNER
INTERVENTION

12%

REDUCTION IN PROJECT MODELING
TIME



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INDUSTRIAL AI ASSISTANT

(PREVIEW)

WHAT IS IT?

HOW DOES IT
WORK?

EXAMPLES

BENEFITS

RESULTS

AVEVA WORLD
MILAN 2026

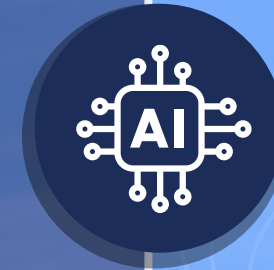
INDUSTRIAL AI ASSISTANT

(PREVIEW)

WHAT IS IT?



**MULTILINGUAL
SOLUTION**



**INFORMATION
SUPPORT**

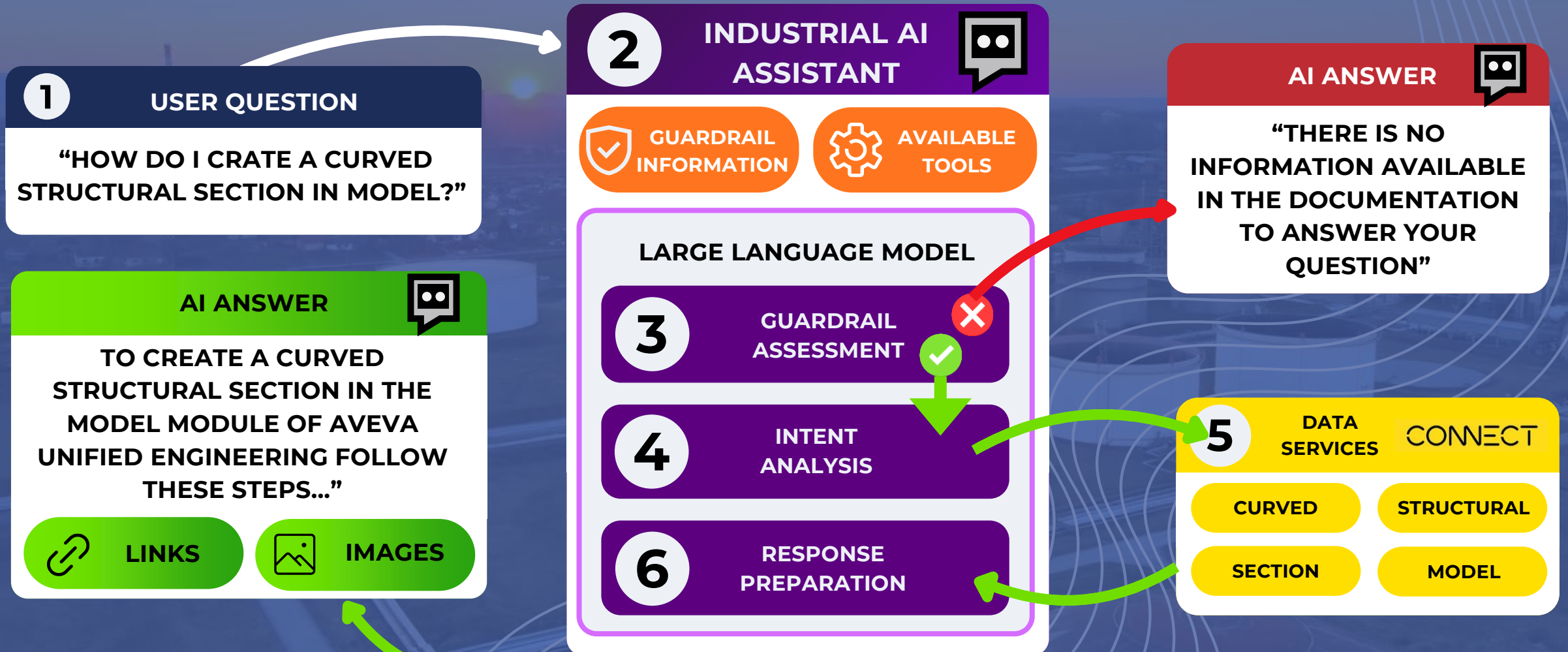


**IMMERSIVE
RESPONSE**

INDUSTRIAL AI ASSISTANT

(PREVIEW)

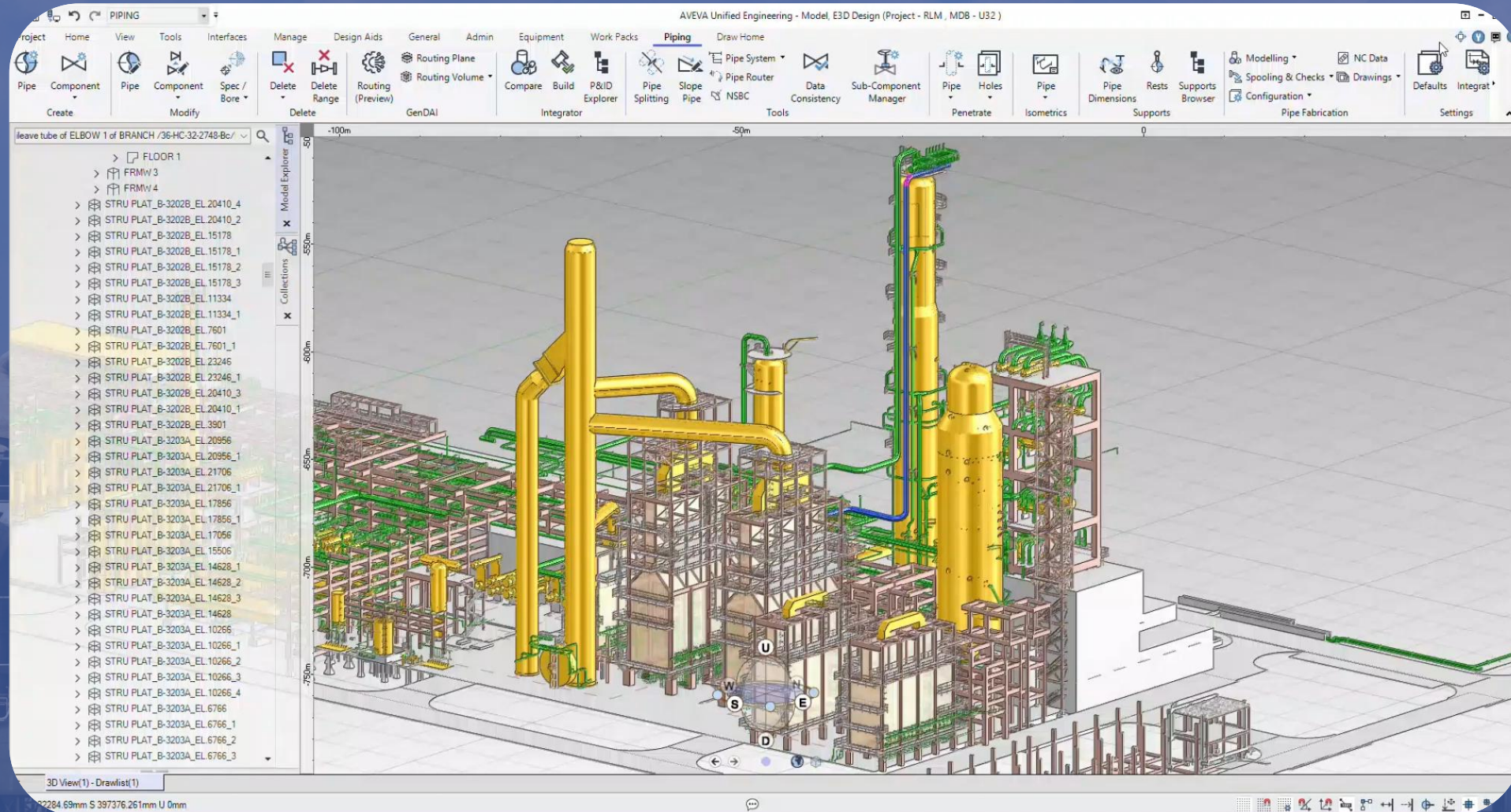
HOW DOES IT WORK?



INDUSTRIAL AI ASSISTANT

(PREVIEW)

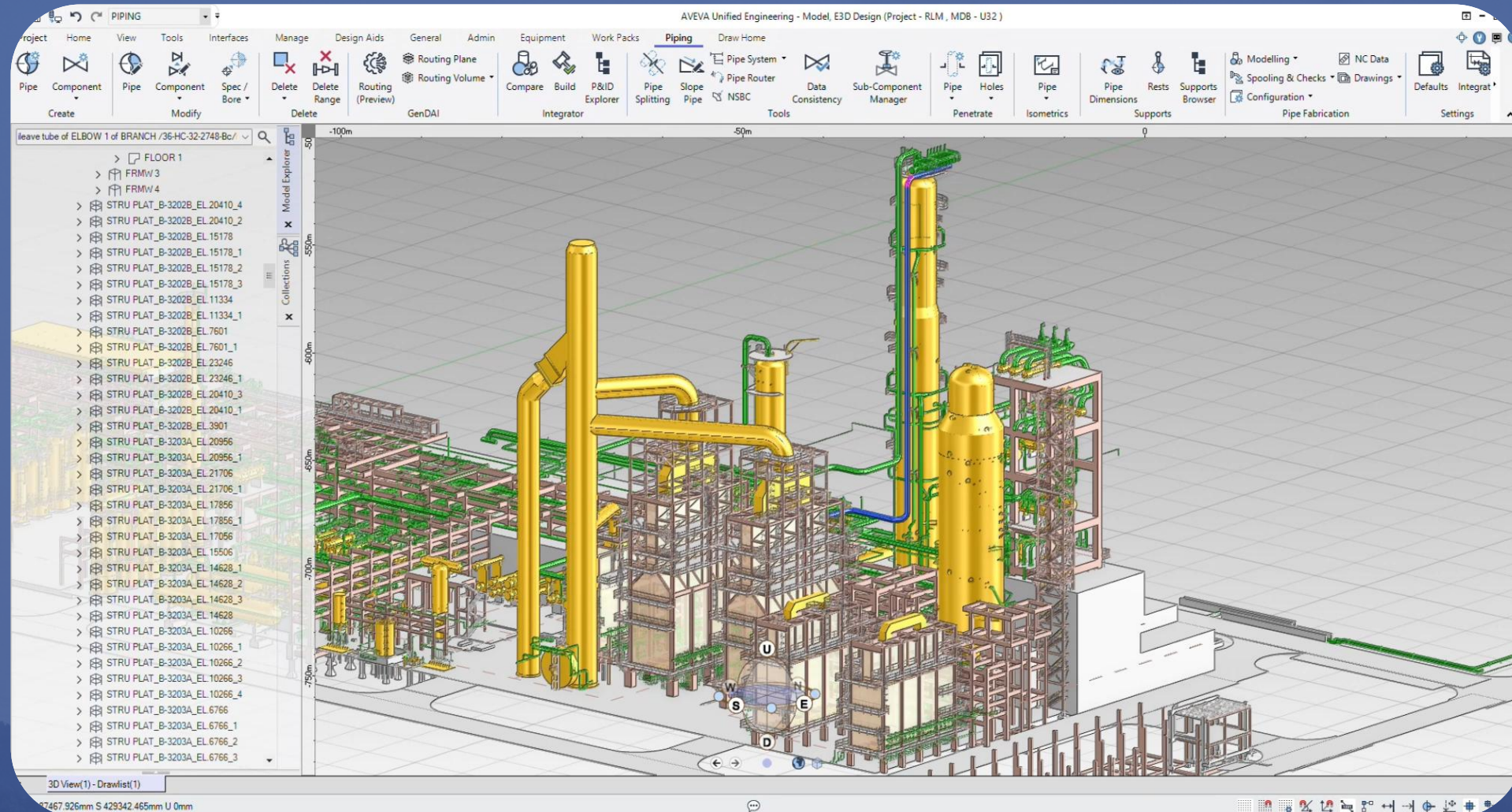
EXAMPLES



INDUSTRIAL AI ASSISTANT

(PREVIEW)

EXAMPLES



INDUSTRIAL AI ASSISTANT

(PREVIEW)

BENEFITS



REDUCING THE LEARNING CURVE

For new users or those migrating from other tools, the assistant acts as a mentor.



TECHNICAL KNOWLEDGE

The assistant was trained using official AVEVA documentation, ensuring that the response is accurate and based on software best practices.



USER-FRIENDLY INTERFACE

It functions as an attached side panel, allowing you to read the instructions while manipulating the 3D model.



INCREASED PRODUCTIVITY

The response arrives in seconds, maintaining workflow, and less time spent resolving operational issues means more time focused on specific tasks.

INDUSTRIAL AI ASSISTANT

(PREVIEW)

RESULTS



87%

ACCURACY OF CORRECT
ANSWERS



22 s

AVERAGE TIME TO ANSWER
A QUESTION

19%

AGILITY IN THE PROCESS OF
EXECUTING AN ACTIVITY



54%

SOLUTIONS ANSWERED IN
THE FIRST QUESTION





CONSULTORIA
E PROJETOS

PREDAI MACHINE LEARNING FOR PIPE SUPPORT

WHAT IS IT?

EXAMPLES

COMPARATIVE
CASE

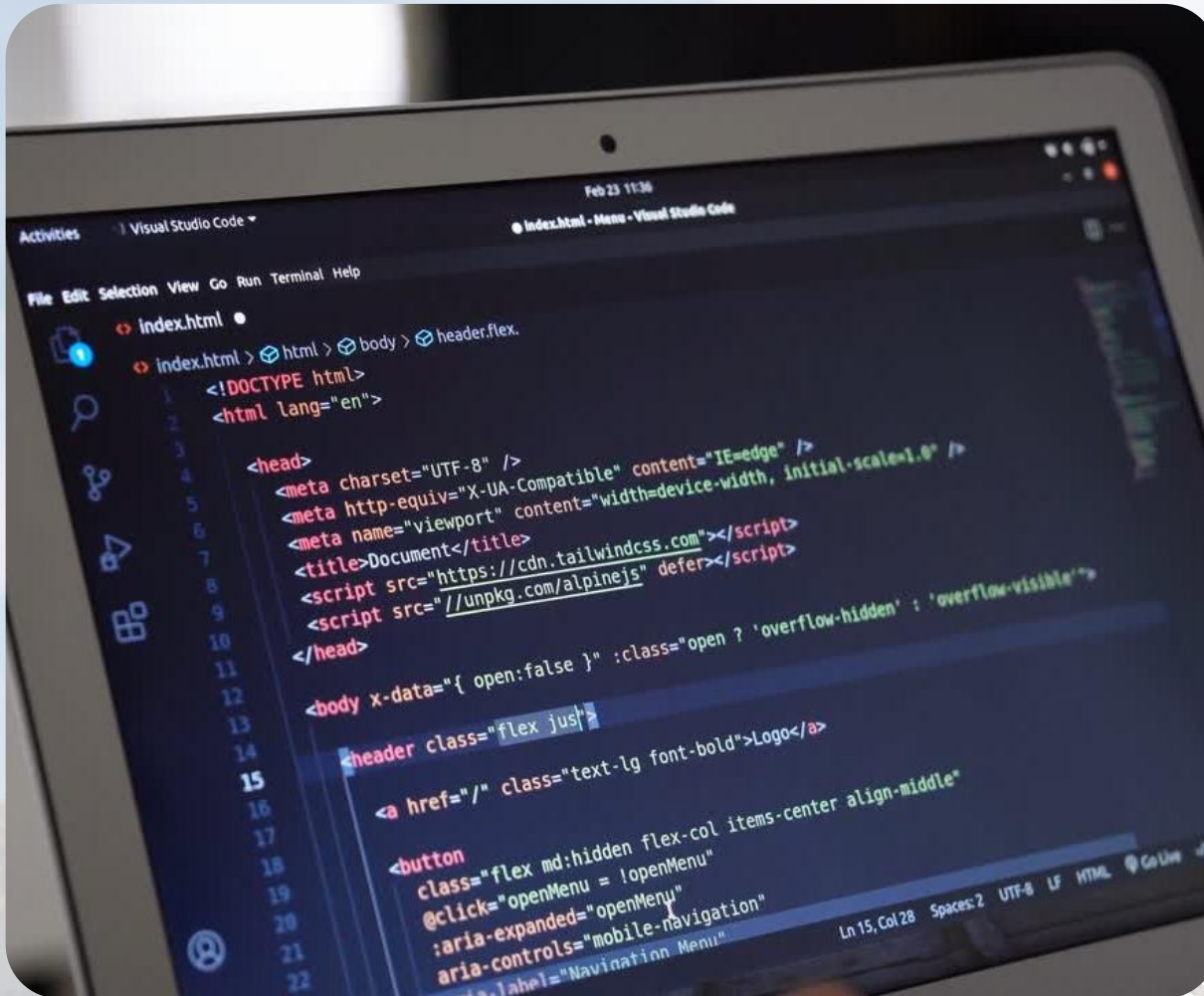
RESULTS

AVEVAWORLD

MILAN 2026

PREDAI M.L. FOR PIPE SUPPORT

WHAT IS IT?



NO CODE



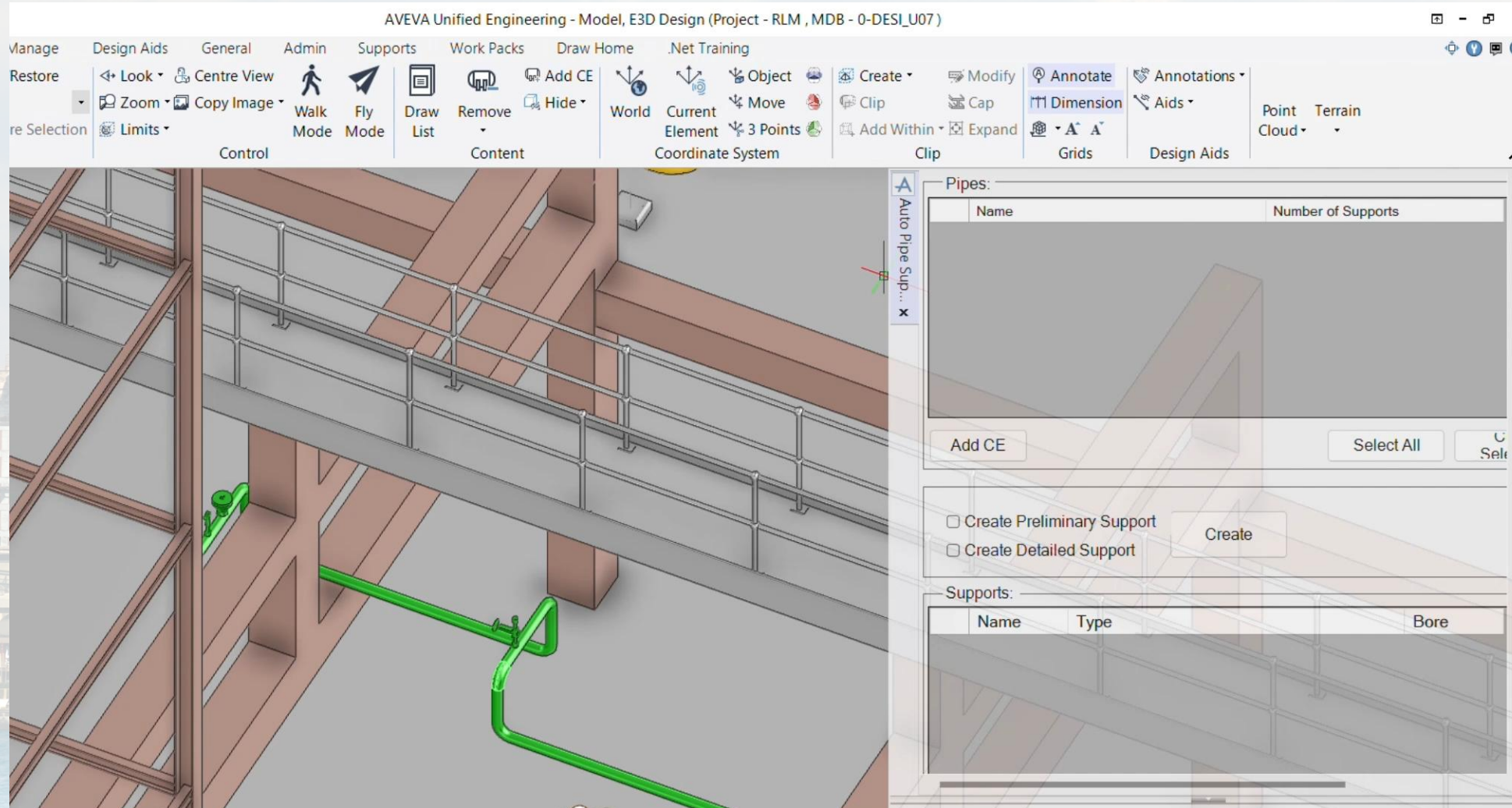
**SOLUTION WITHIN
AVEVA E3D**



**PARAMETERS AND
DATABASE**

PREDAI M.L. FOR PIPE SUPPORT

EXAMPLES



**28 Preliminary
Supports**

48 Seconds

**28 Detailed
Supports**

97 Seconds

PREDAI M.L. FOR PIPE SUPPORT

COMPARATIVE CASE



DEVELOPMENT
ENVIRONMENT

PREVIOUS MODEL
(2025)

VISUAL STUDIO /
C# / ML.NET

NEW MODEL
(WITH PREDAI)

NATIVE (WITHIN
E3D AVEVA)



LESS
DEPENDENCE

NEED FOR SOFTWARE
DEVELOPERS AND A TECHNICAL
PARTNERSHIP WITH AVEVA

COMPLETE AUTONOMY FOR THE
ENGINEERING TEAM



CASE
EXAMPLE

12 SUPPORTS
PRELIMINARY SUPPORTS: 2,08s
DETAILED SUPPORTS: 3,85s

14 SUPPORTS
PRELIMINARY SUPPORTS: 1,71s
DETAILED SUPPORTS: 3,46s



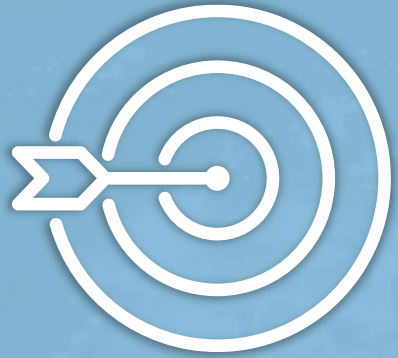
TRANSPARENCY
IN PARAMETERS

PARAMETERS PRESENTED AFTER
DATA ANALYSIS

THE REAL-TIME LOG FORM
DISPLAYS THE MODEL TRAINING
PROCESS

PREDAI M.L. FOR PIPE SUPPORT

RESULTS



86%

ACCURACY COMPARED TO
THE 2025 MODEL ML



11%

FASTER TO DETAILED SUPPORT
COMPARED TO THE 2025
MODEL ML

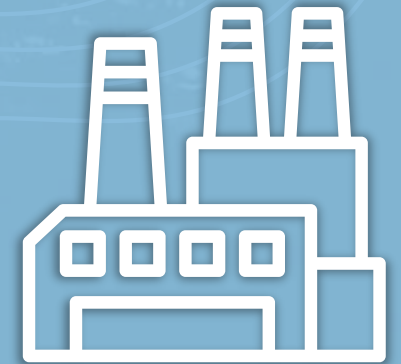
18%

REDUCTION IN SUPPORT
MODELING TIME PROJECT



28%

REDUCTION IN PROJECT
TIME





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E PROJETOS

NEXT STEPS

WHAT TO EXPECT AHEAD

AVEVAWORLD

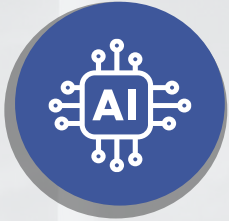
MILAN 2026

WHAT TO EXPECT AHEAD

NEXT STEPS



FASTER TECHNICAL DECISIONS SUPPORTED BY AI-DRIVEN RECOMMENDATIONS



SMARTER ASSISTANTS CAPABLE OF UNDERSTANDING PROJECT CONTEXT



EXPANSION OF AI ADOPTION INTO OTHER DISCIPLINES BEYOND PIPING AND PIPE SUPPORT



GENDAI INTEGRATION WITH POINT CLOUD DATA



THANK YOU

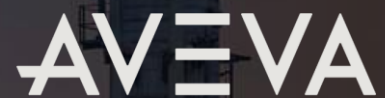


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Rodrigo Goncales

Manager

Forzy

Predictive Engineering with
No-Code Machine Learning
in AVEVA Unified
Engineering

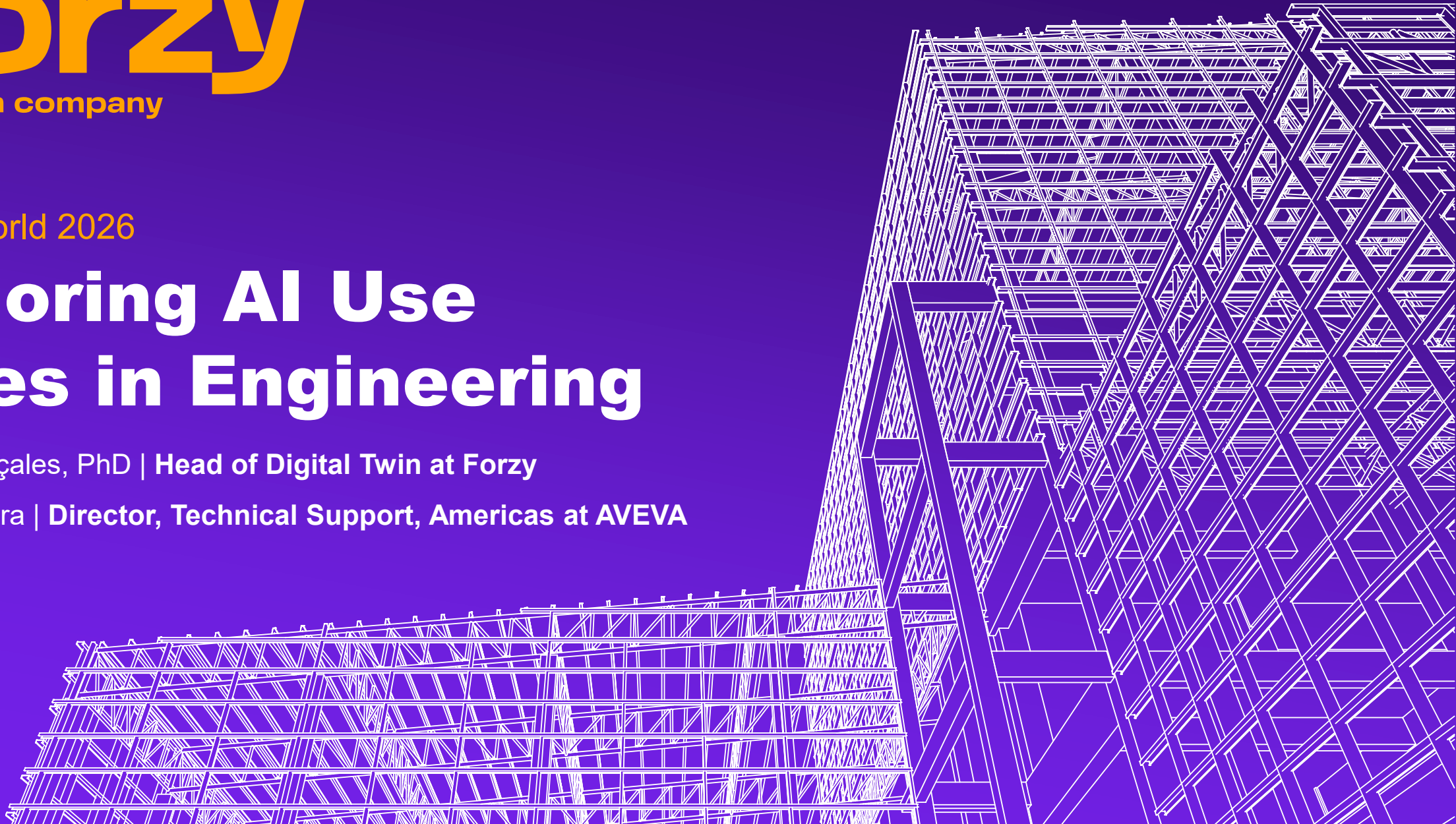


AVEVA World 2026

Exploring AI Use Cases in Engineering

Rodrigo Gonçalves, PhD | Head of Digital Twin at Forzy

Thiago Oliveira | Director, Technical Support, Americas at AVEVA



Session Leaders

Bringing engineering expertise and **AI** together for practical **industrial applications**.



Rodrigo Gonçales, PhD
Head of Digital Twin - Forzy



20+ Years of experience
with AVEVA Technologies
(since PDMS)



Leading **digital engineering**
and **data-centric** initiatives



Focused on turning engineering
data into **value** through **AI**



Thiago Oliveira
Director, Technical Support, Americas - AVEVA



Technical Director at **AVEVA**,
supporting customers
Worldwide



Expert in engineering solutions
and **digital transformation**



Driving **innovation** and
customer success across the
engineering lifecycle



Forzy | A Promon Company

Digital Engineering & Data-Centric Approach



Part of **Promon Group**



60+ Years in industrial projects



Global presence



AVEVA Partner Ecosystem

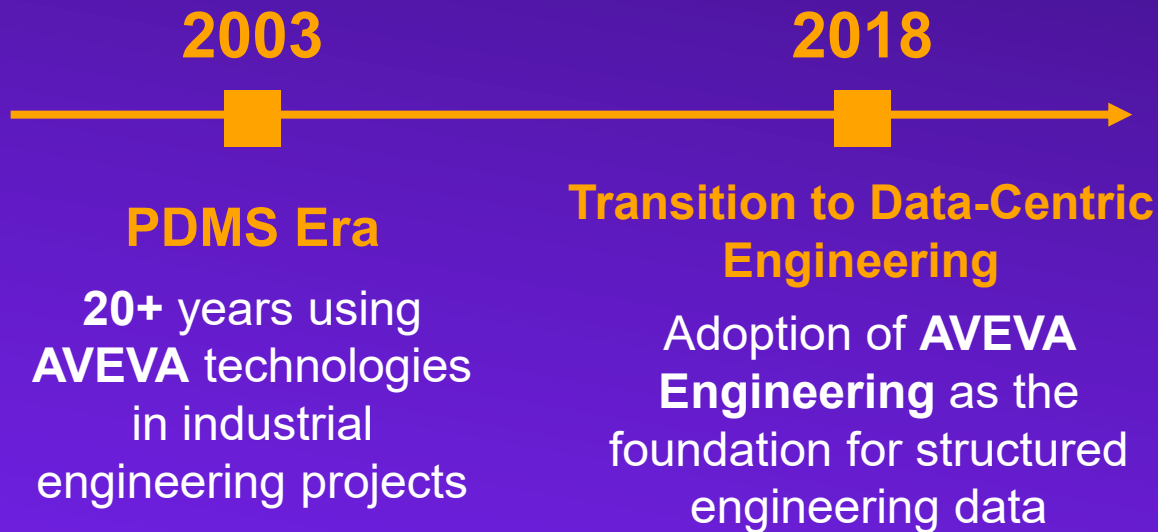


Teams **administering complex AVEVA** environments daily

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From Document-Centric to AI-Ready Engineering

Our journey with AVEVA



20+ Years

Using AVEVA technologies since PDMS



Since 2018

Data-centric engineering workflows with AVEVA Engineering



Result

Large structured engineering dataset from real industrial projects



Data-centric engineering became the foundation for practical AI adoption.

Where **Structured Data** Enables **AI**



AI can be applied across all lifecycle phases when structured data is available.



Why We Started with Engineering



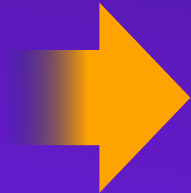
Large volume of structured engineering data
Design models, specifications, attributes and historical project information



Mature data-centric workflows
Standardization, validation and centralized engineering information

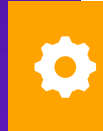


High concentration of repetitive activities
Engineering processes contain strong automation and QA opportunities





AI Opportunities



Automation
Reduce manual work and accelerate delivery



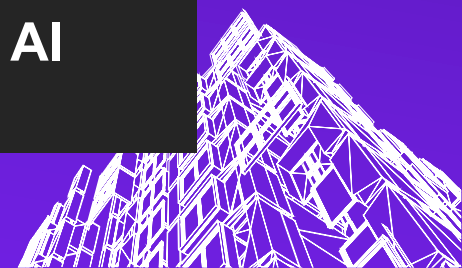
Quality assurance
Improve accuracy and consistency



Decision support
Better insights for smarter decisions



Engineering was our starting point, but structured data enables AI across the entire asset lifecycle.

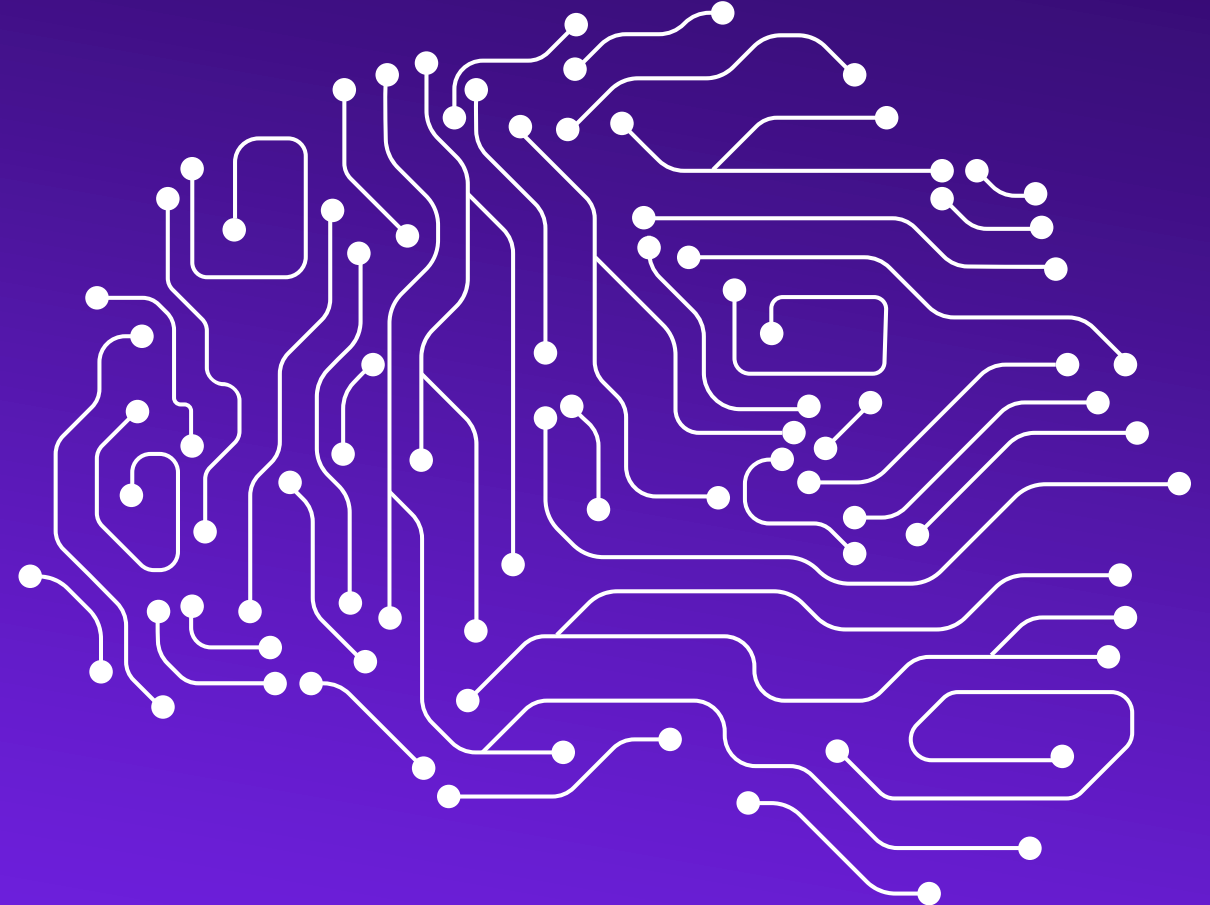




Use Case 1

AI Assistance

AI supporting engineering workflows



Use Case 1

Ai Assistance for E3D

Testing na AI assistant to support engineers in daily tasks and decision-making.



Problem



Engineers spend time
Searching for information



Error messages are
Hard to interpret



Knowledge is scattered
Across documents, standards
and individual experience



Approach



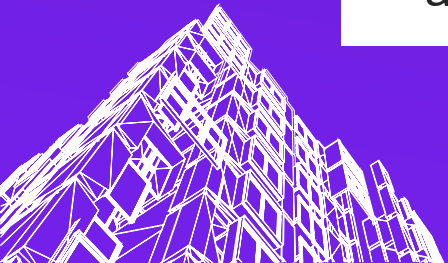
AI assistant integrated
With engineering knowledge



Natural language
interaction



Supports troubleshooting
and provides guidance



Ai Assistance for E3D

1 Creating a Pipe

To create a pipe in E3d, follow these steps:

- Model WORL *
- ▲  SITE SITE-PIPING-AREA01
 - ▲  ZONE PIPING-AREA01
 - ▶  PIPE 100-B-2
 - ▲  PIPE 100-C-16
 - ▶  PIPE 100-C-12
 - ▶  PIPE 100-C-12
 - ▶  PIPE 100-B-8
 - ▶  PIPE 100-B-8

[illegible]

Use Case 1

Ai Assistance for E3D

Examples of tasks supported by the AI assistant.

What we observed



Faster access

To procedures and engineering knowledge



Reduces dependency

on senior engineers for routine tasks



Helps interpret

Error messages and diagnostics

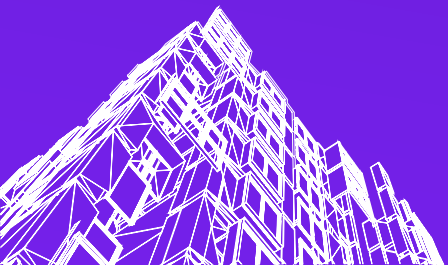


Improves productivity

and Confidence in daily work



AI as a productivity enabler for everyday engineering tasks.



Use Case 1

Ai Assistance for E3D

Additional examples tested by the AI assistant



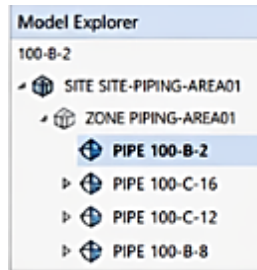
More examples (quick view)



How can I create a pipe?

To create a pipe in E3d, follow these steps:

1. Go to the Model module and open the Piping tab.
2. Click **Create > Pipe**.
3. Select the Pipe Specification, **set size**, system and other parameters.
4. Define the start point and Direction.
5. Click **Apply** to create the pipe.



Create a pipe



Right, and what about the components?

To create and manage components:

1. Select Branch in Model Explorer.
2. Go to Piping tab > Component.
3. Choose component type (Flange, elbow, reducer, etc.).
4. Set directions and positions.
5. Components are inserted in the 3D model.



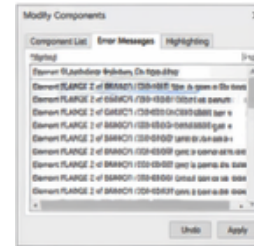
Insert and manage components



I'm getting this error When I generate the Iso: Cannot allocate bolts for FALANGE 2 of BRANCH...

This error occurs When a valid bolting reference (BLTREF) is missing or incorrect, so Isodraft cannot allocate bolts.

1. Here's how you can address it:
Check the piping specification and ensure the flange has a valid bolting reference (BLTREF).
2. Verify that the specification is correctly linked to your piping.
3. Run Data Consistency Check to identify any catalog or specification issues.
4. If using OLD methods, switch to NEW methods for bolt calculation.
5. Publish any updated catalog or spec changes



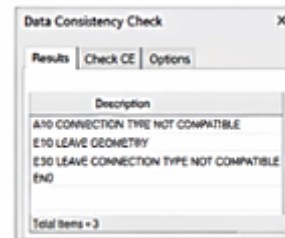
Interpret error message



Good, now I want to check if there's any problem with the pipe, how can I check this?

Use the **Data Consistency Check** to verify your design and identify issues.

1. Go to Home tab > **Check** Group.
2. Click **Data Consistency**.
3. Review results and diagnostics.



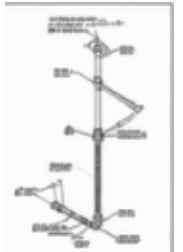
Run data consistency check



Now, what's left is the Isometric. Explain how to generate.

To generate an isometric drawing:

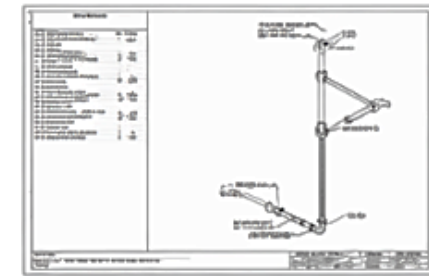
1. In the **Model Explorer**, select the pipe.
2. Go to the **Isometrics** tab on the ribbon.
3. In the **Create** group, click the **Pipe** button.
4. Select the **Pipe** option from the dropdown.
5. The isometric drawing will be created with BOM and all relevant dimensions.



Generate isometric drawing



Show me the isometric of PIPE 100-B-2



View isometric with BOM

Use Case 1

Ai Assistance for E3D

Impact, limitations and value for engineering teams



Before

Without AI assistant



Depends on senior engineers or administrators

Need to interrupt others or wait for availability



Time to spend searching for information

Multiple sources, documents and experience



Delays due to support queues

Opening as ticket and Waiting hours for a response

Typical resolution time:
Hours (Sometimes days)



With AI assistant

With AI assistant in UE 4.0



Immediate answers for common question

Get guidance instantly, whenever you need



Faster issue resolution

Solve many problems without waiting for others



Reduce dependency on support

More autonomy for engineers and designers

Typical resolution time:
Minutes



Limitation



No direct interaction with the 3D model

The assistant works with documents, rules and knowledge bases, but does not interpret the model its geometry directly.



Insight

This opens the door for the next step: AI capabilities connected to the 3D model.



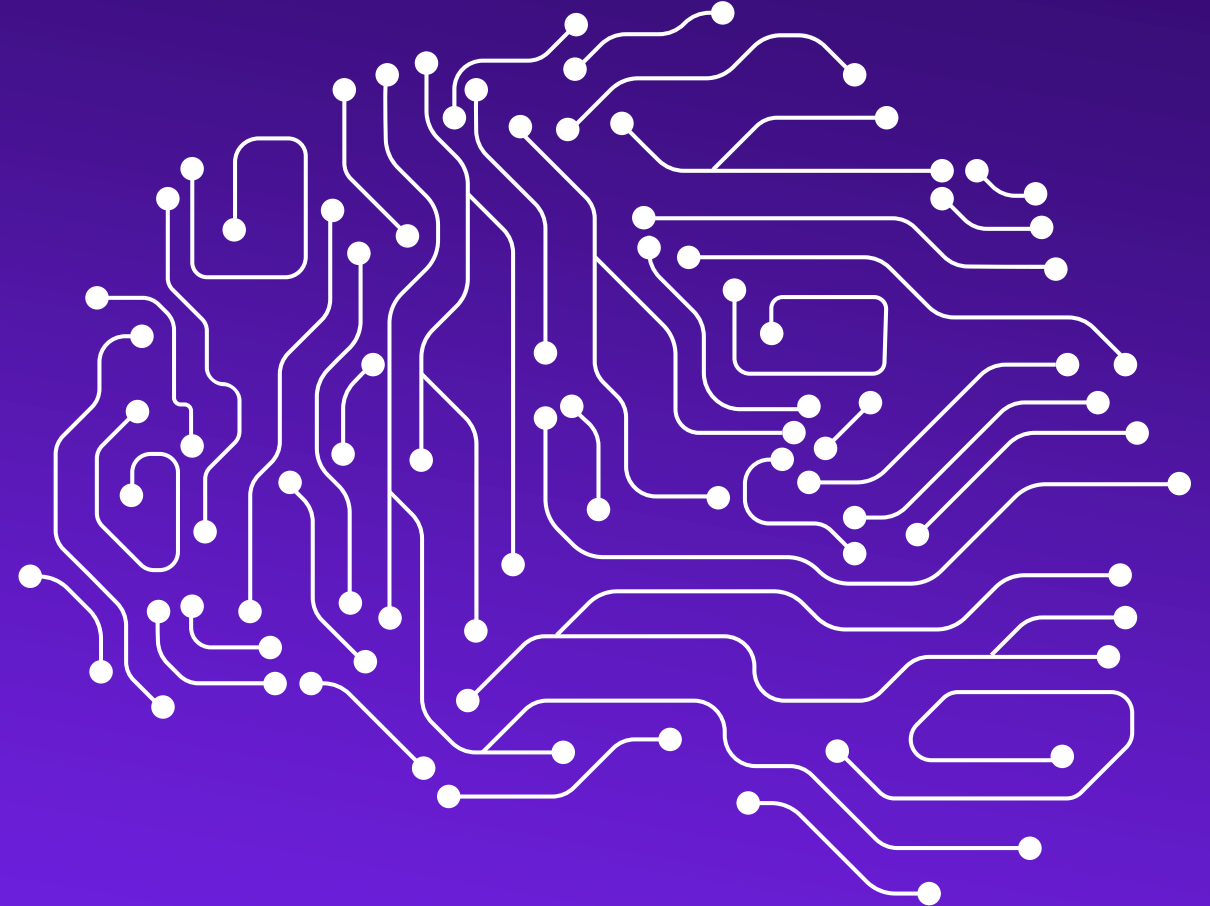
AI improves productivity by reducing waiting time and accelerating access to knowledge.



Use Case 2

Generative AI

AI generating engineering solutions



Use Case 2

Generative AI Pipe Routing

Evaluating AI to generate pipe routing solutions considering real engineering constraints.



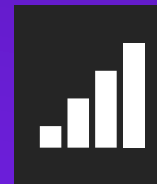
Automated pipe routing
using generative AI



Considering real engineering constraints
(equipment layout, pipe racks, interferences)



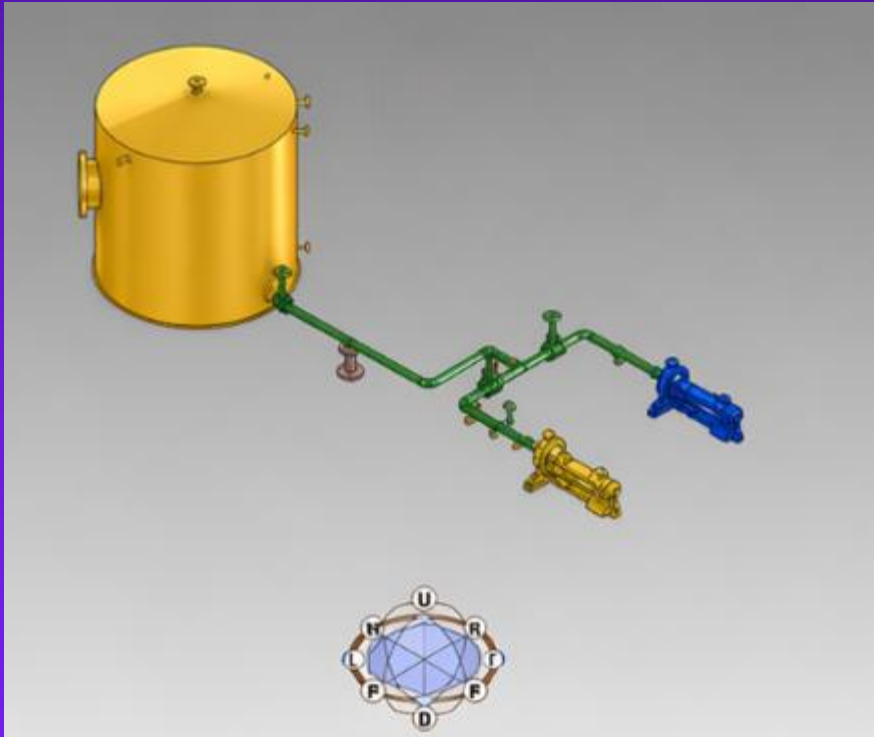
Evaluation focused on technical feasibility
and routing quality



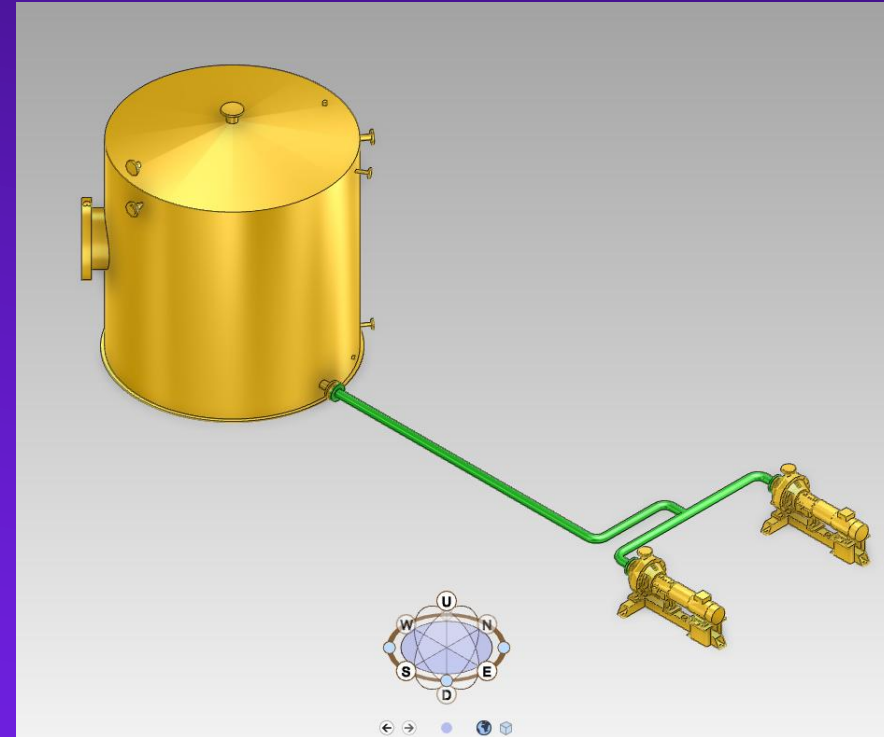
Results analyzed to measure productivity
and identify limitations

AI-generated routing vs. traditional design

Traditional routing (engineer)



AI-generated routing



Where Generative AI performs well

Key strengths identified during the evaluation



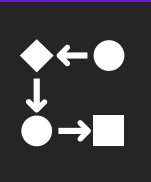
Short distances and Intra-unit routing

Good performance in short runs and connections within the same area



Conceptual design phases

Great support for early design, providing a solid basis with minor adjustments.



Dense layouts with grouped lines

Efficient routing for compact arrangements (e.g., pump skids and equipment clusters).



Results close to engineer standards in simple scenarios

In less complex routers, solutions are very close to what an engineer would design.



Challenges and Engineering Constraints

Impact



~67% reduction in routing time per line
Compared to traditional manual routing, including review and manual adjustments.



Faster conceptual design
Accelerates early engineering and layout iterations.



Reduces manual effort and iterations
Less rework and more time for engineering decisions.



Engineering Considerations



Performance decreases in long-distance routing
The tool tends to lose plan references over long routes.



Difficulty handling elevation changes
Struggles with routing that involves multiple levels.



Engineering validation remains essential
AI-generated suggestions are reviewed within the engineering workflow.

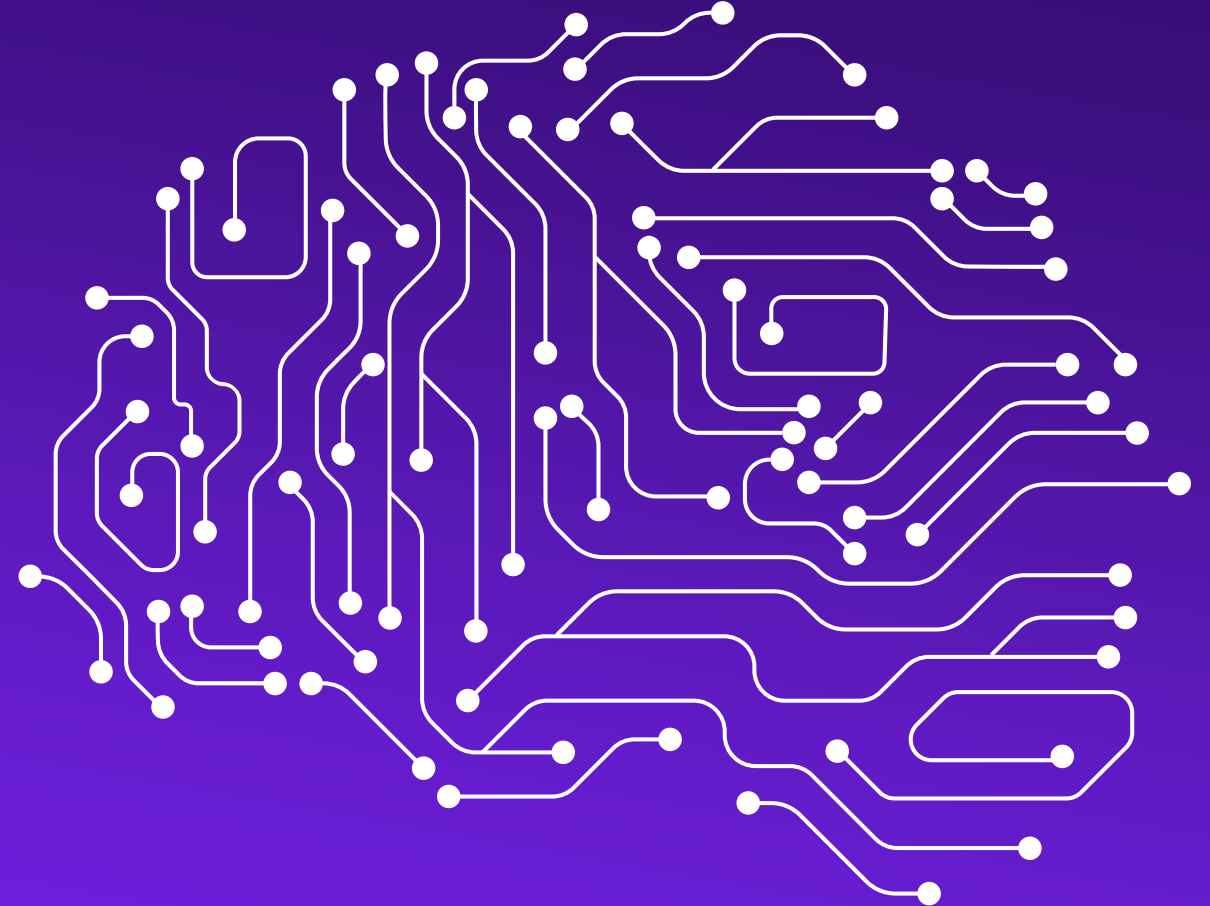


AI accelerates engineering workflows while keeping engineers in control.

Use Case 3

Predictive AI

AI learning from engineering data



Use Case 3

Why attribute prediction with ML

Decades of engineering execution generated structured datasets that are now becoming usable for AI-driven assistance.



Engineering knowledge systematically captured through data-centric project execution

Structured and validated within AVEVA Engineering databases across multiple industrial projects.



Engineering standards and decisions already embedded in project data

Engineering logic is already present in attributes, specifications and datasheets.



Still highly dependent on engineering interpretation

Valuable knowledge still depends on individual experience and manual analysis.

Use Case 3

Making AI usable for real engineering workflows

From IA experiments to engineering-grade validation



1. What we achieved



ML models successfully predicted engineering attributes
Historical AVEVA Engineering data demonstrated strong reuse potential



Native AVEVA ML capabilities accelerated experimentation
Initial models and training workflows were successfully implemented



Custom integration enabled practical adoption
A dedicated DLL integrated ML predictions directly into the Engineering environment



2. Key Technical Learnings



Prediction alone is not enough
Engineers require confidence indicators to validate recommendations



Statistical interpretability is critical
Without probability visibility, results were difficult to operationalize



Human validation remains mandatory
Engineering decisions still depend on technical judgment and project context

MachineLearning Addin

Grid Name: =805326356/42

Model Name: HOOKUP

Set Grid

Predict

DataSet

Tag	FlangePressureClas	HousingMaterial	SyphonType	FillFluid	DiaphragmSeal	AreaClassification	Predição
5200-PMP02A-PI01	150#	AISI 316	N	S	S	Não classificada	MAN-012 73%
5200-PMP02B-PI01	150#	AISI 316	N	S	S	Não classificada	MAN-012 73%
5200-PMP08A-PI01	150#	AISI 316	N	S	N	Não classificada	MAN-006 6%
5200-PMP08B-PI01	150#	AISI 316	N	S	N	Não classificada	MAN-011 6%
5200-PMP09A-PI01	150#	AISI 316	N	S	N	Não classificada	MAN-009 6%
...	...	...	...	...	...	...	...

Scores

Classe	Score
MAN-012	73%
MAN-006	6%
MAN-011	6%
MAN-009	6%
MAN-010	2%
...	...

Scores

Classe	Score
MAN-012	73%
MAN-006	6%
MAN-011	6%
MAN-009	6%
MAN-010	2%
...	...

Practical outcome



Reduced manual interpretation effort and faster engineering validation processes
Engineers can review predictions and probability scores directly inside the Engineering environment.



Engineering AI is not only about prediction, it is about confidence and validation

forzy

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Use Case 3

From Engineering Data to Engineering Intelligence

Turning data, AI and engineering expertise into real business value



1. Strategic Implications



Structured engineering databases are strategic assets
Years of structured data can train reusable engineering intelligence.



AI should augment engineering decisions
The objective is productivity and consistency, not replacing engineers.



Embedded AI workflows are more valuable than isolated models
Integration inside daily engineering tools increases practical value.



The combination of AVEVA + custom engineering logic was decisive
Native AI capabilities alone were not sufficient for production-level usability.



What This Means for Engineering Companies



Data quality becomes a competitive advantage
Well-structured engineering projects create future AI capabilities.



AI adoption will be incremental
The first gains come from repetitive and standardized workflows.



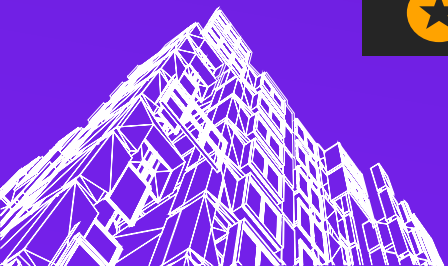
Engineering expertise remains critical
AI effectiveness still depends on domain knowledge and validation.



Workflow integration defines adoption success
Engineers will not use disconnected AI tools outside their daily platforms.



Engineering AI is not only about prediction, it is about **confidence and **validation****



“

The future of engineering AI depends **less** on algorithms and more on **structured engineering data**.

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Thank you!

Let's build the future of engineering **together.**



Let's connect
and continue
the conversation.



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 Connect with Rodrigo

Thiago's LinkedIn



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Panel

Your Panelists



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Pecoraro

Engineering
Processes
Digitalization, Head
of Department



Thomaz
Americano

Chief Executive
Officer



Rodrigo
Goncales

Manager



Greg Lawton

CEO



Mauro Pistis

Interim - Global
Presales &
Customer Success
CoE Leader



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