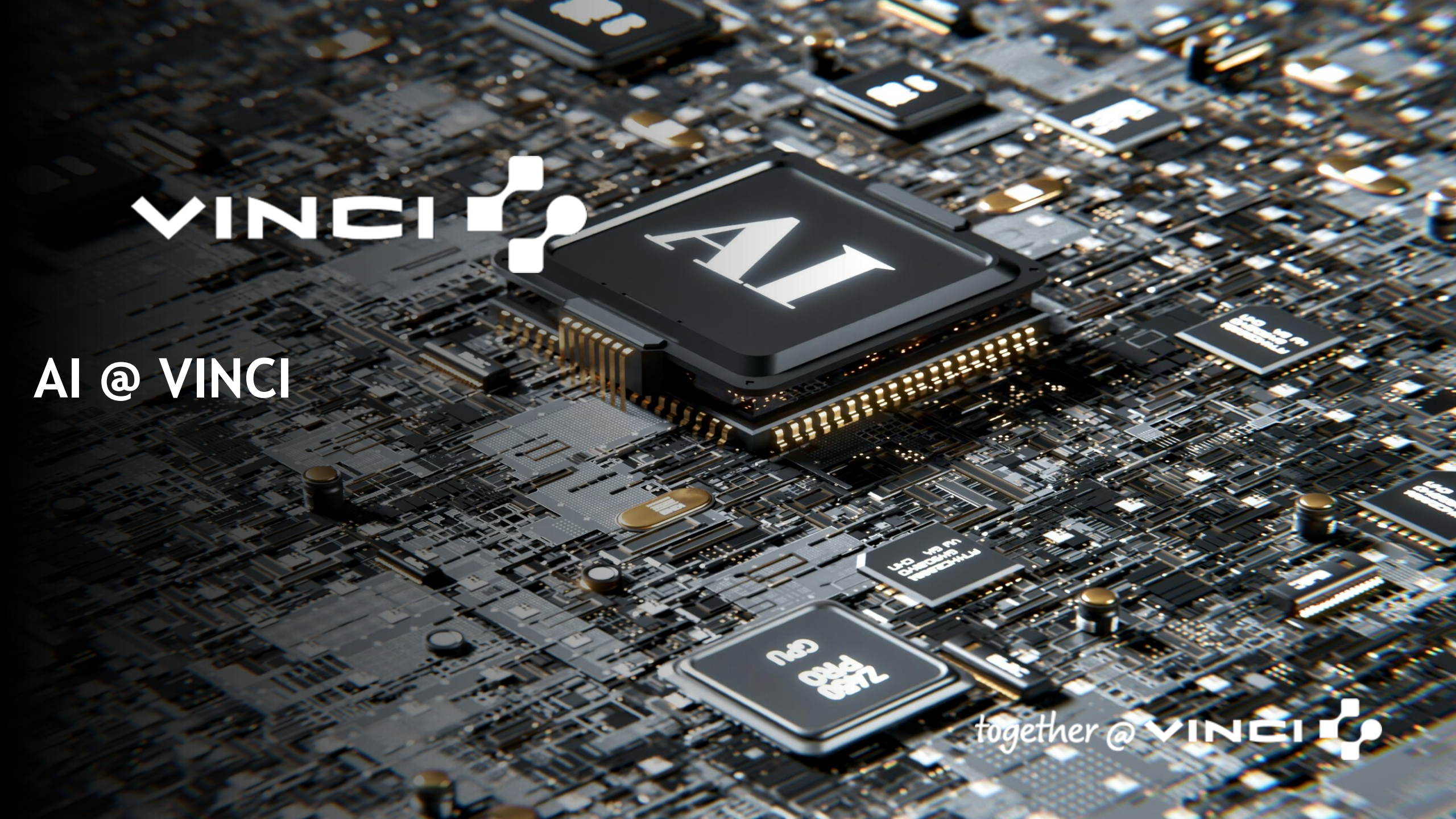

VINCI
AI
AI @ VINCI
together @ VINCI

-Artificial Intelligence -

Machines *mimicking* human behavior

People and expertise

Field concerns: a problem to solve

Data

Algorithms & infrastructure

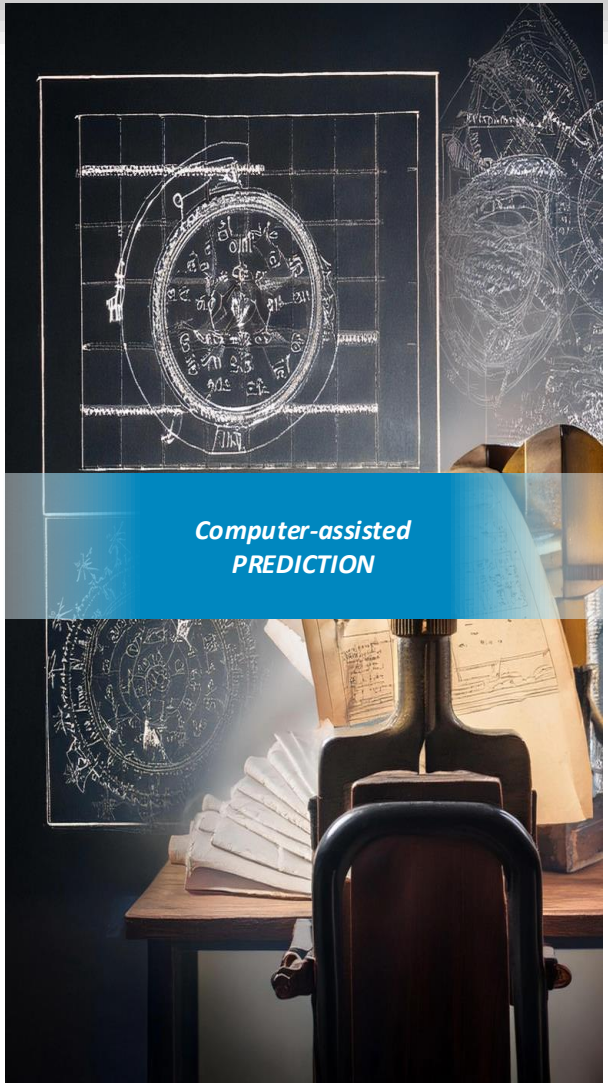
Recognize patterns

Solve problems

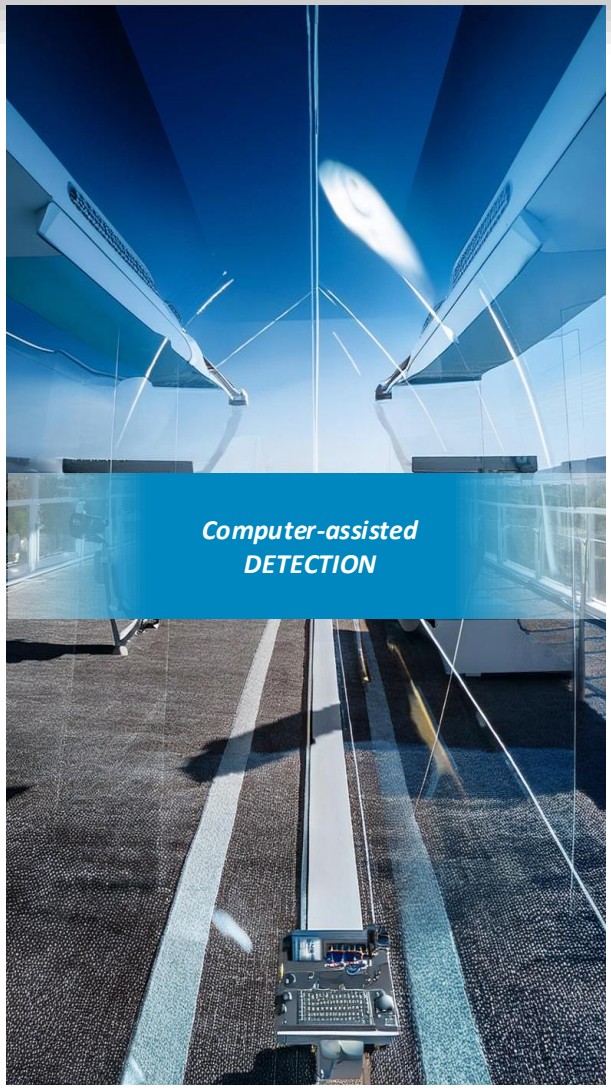
-Artificial Intelligence -

Machines *mimicking* human behavior

Computer-assisted DESIGN



Computer-assisted PREDICTION



Computer-assisted DETECTION

Computer-assisted ANALYSIS

Recognize patterns

Solve problems

Computer-assisted
DESIGN

A theoretical framework…

A simulation environment

An agent discovering the environment and acting using a set of movements

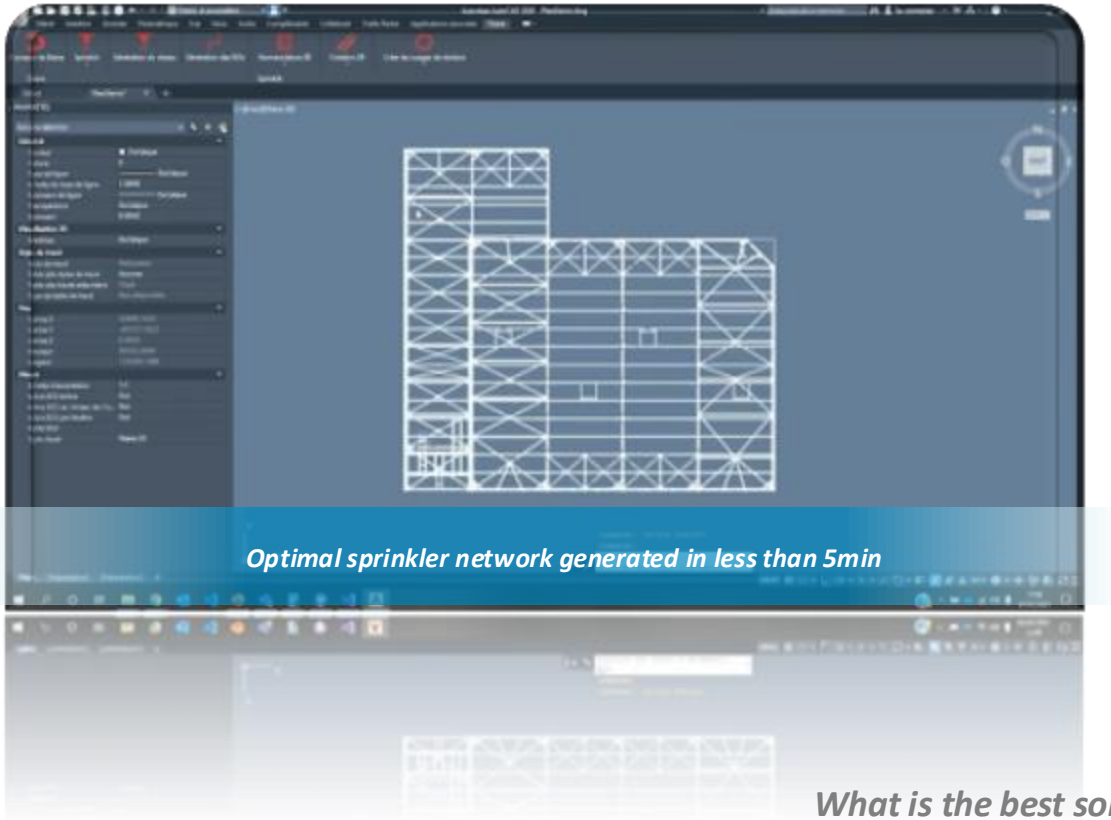
A set of rules regulating the environment

One log-book used by the agent to remember their past tries

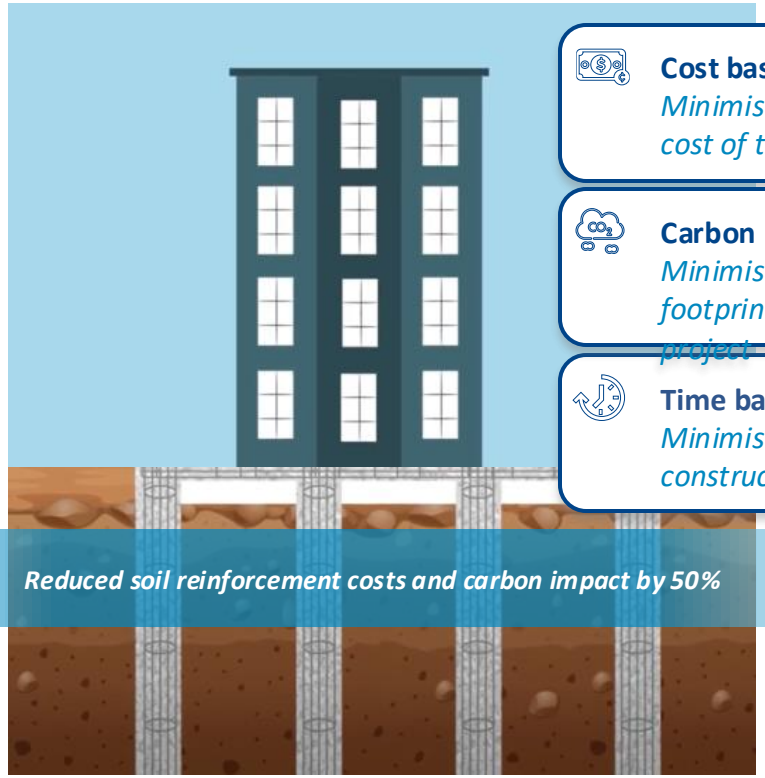
What is the best solution for my problem?

Computer-assisted
DESIGN

... with concrete field applications



Optimal sprinkler network generated in less than 5min



Reduced soil reinforcement costs and carbon impact by 50%

Cost based
Minimise the total cost of the project

Carbon based
Minimise the carbon footprint of the project

Time based
Minimise the construction time

What is the best solution for my problem?

Computer-assisted
DESIGN

... with concrete field applications

SPRINKIA
France

Sprinkler network optimization

SYNAPSE-UP
France

Generative Design for construction

Substratum.ai
USA

Pre-design stage optimization for ground-improvement

CCS-AI
UK

Reduction of design time for high-voltage line maintenance systems

NUTRICIEL
France

Industrial production optimization

FireStop!
UK

Fire-stopping equipment layout optimization

LAIGTHING
France

Lighting Design Optimization

NEO SCHEDULE
Germany

Automation of maintenance schedules

Golden Batch
France

Industrial production optimization

CVCIA
France

HVAC Network Design Optimization

PullAI
France

Burried High-Voltage lines network optimization

Formworks rotation
France

Formworks layout plan optimization

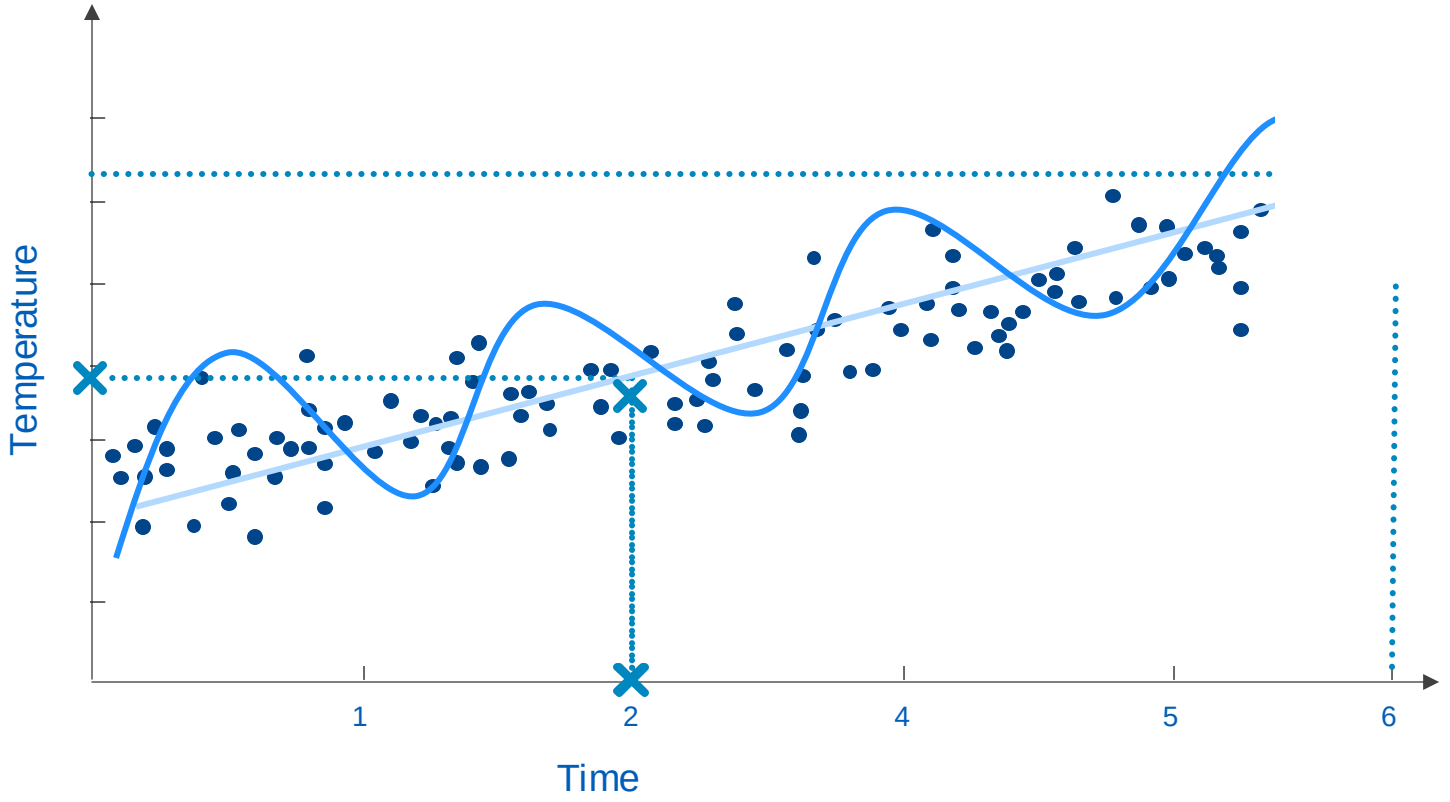
Optimal sprinkler network generated in less than 5min

Reduced soil reinforcement costs and carbon impact by 50%

And more

Computer-assisted
PREDICTION

A line… used to imagine the future…



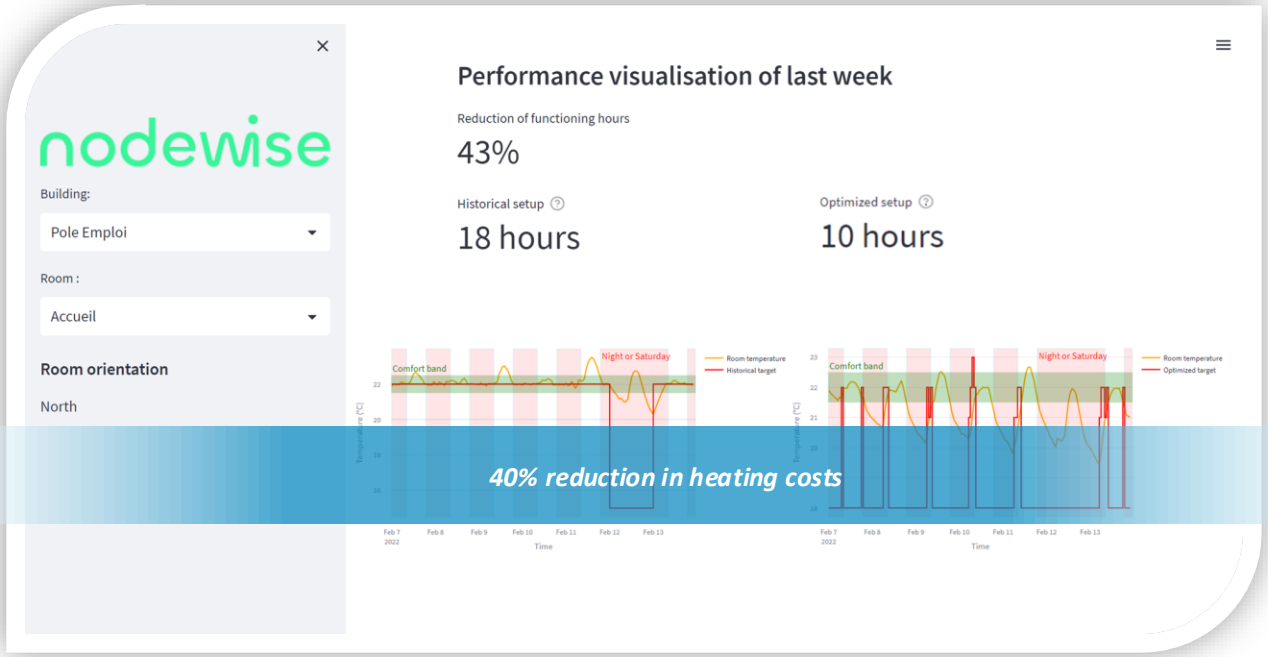
Starting with data without clear correlation…

…a computer can learn and discern a mathematical model…

…and use it to make predictions

Computer-assisted
PREDICTION

...and support our businesses

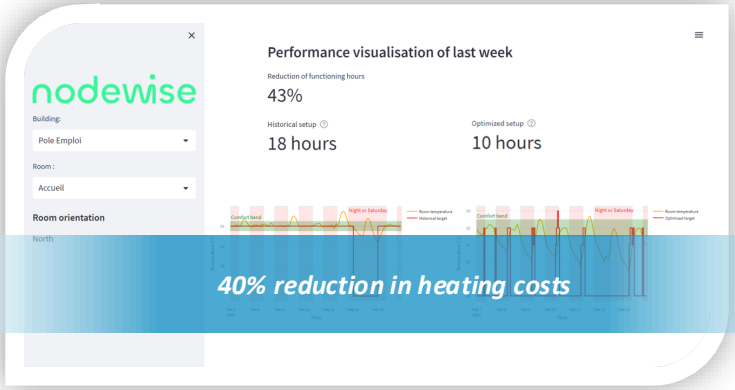


40% reduction in heating costs

50% reduction in the degradation speed

Computer-assisted
PREDICTION

...and support our businesses



40% reduction in heating costs

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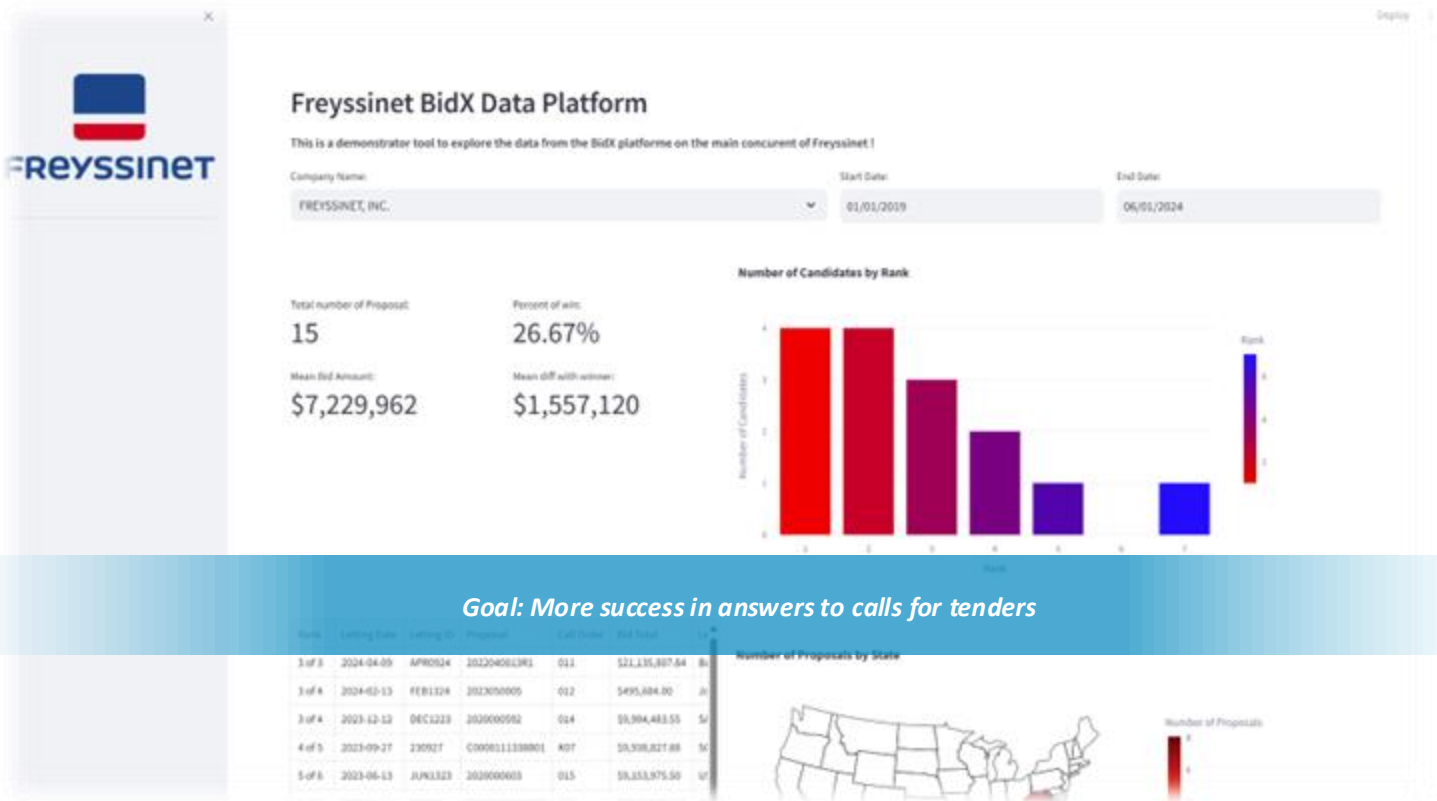


Goal: More success in answers to calls for tenders

Computer-assisted
PREDICTION

...and support our businesses

CITY &YOU

France

Provide a mutability score for real estate projects

CUSTOMER SATISFACTION

France

Predicting and improving customer satisfaction at airports

TAXI-TIME

UK

Aircraft taxi-time Prediction to Improve Operations

NEO SCHEDULE

Germany

Automate scheduling and task allocation

FINANCIAL DRIFT

France

BU financial drift prediction

LISEA - MESEA

France

Improving the concession's lifetime value

PREDICTRAM

France

Improving the lifecycle value of transportation equipment with predictive maintenance

AIGUILLES

France

Railway switch degradation monitoring to reduce failures

AIRPORT LOGISTICS

France

Improved availability of luggage sorting systems at CDG Airport

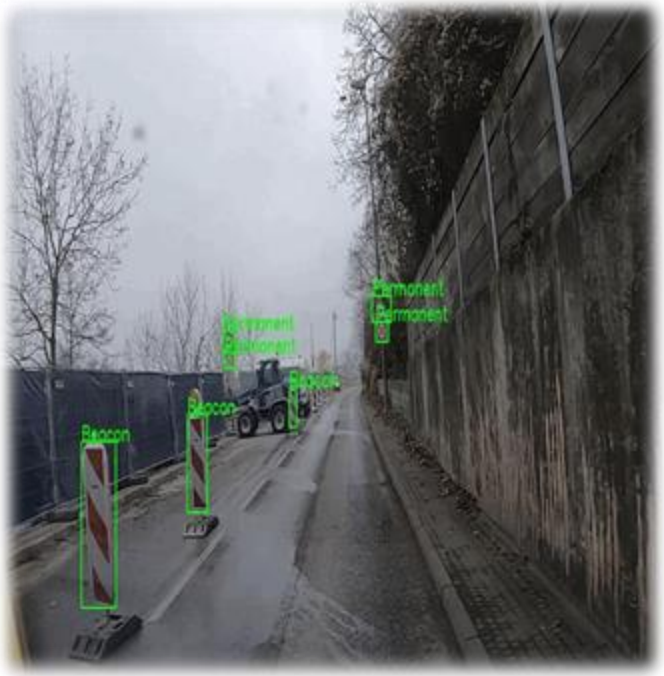
And more

Computer-assisted
DETECTION

Different approaches with direct impacts on the field

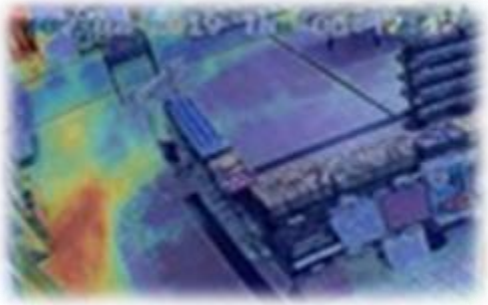
Classification

Object detection



Segmentation

Object tracking



Computer-assisted
DETECTION

Different approaches with direct impacts on the field

HISTORICAL MONUMENTS

France

Generating Autocad plan for monument façades

SATELEAKS

France

Detecting leakage from drinkable water pipelines using satellite data

ROADQUOTE

France

Enabling augmented road inspection

AITV

France

Optimizing maintenance planification for French nuclear reactors

SMART RETAIL

Portugal

Extracting insights on retail customers' in-store behaviors

COUNT-AI

Germany

Improving construction signs monitoring

CHRONSITE

France

Monitoring construction sites

CONVEYOR BELT

Germany

Automating misalignment detection in linear infrastructures

And more

Computer-assisted
ANALYSIS

Understanding information and delivering insights…

The cement is poured into the…

LLM

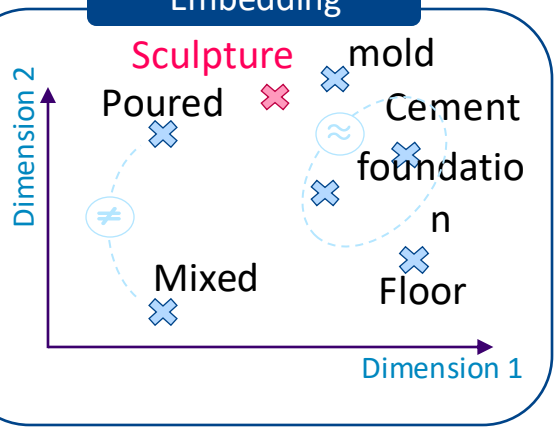
…foundation 10%

…mold 77%

…floor 2%

…basement 1%

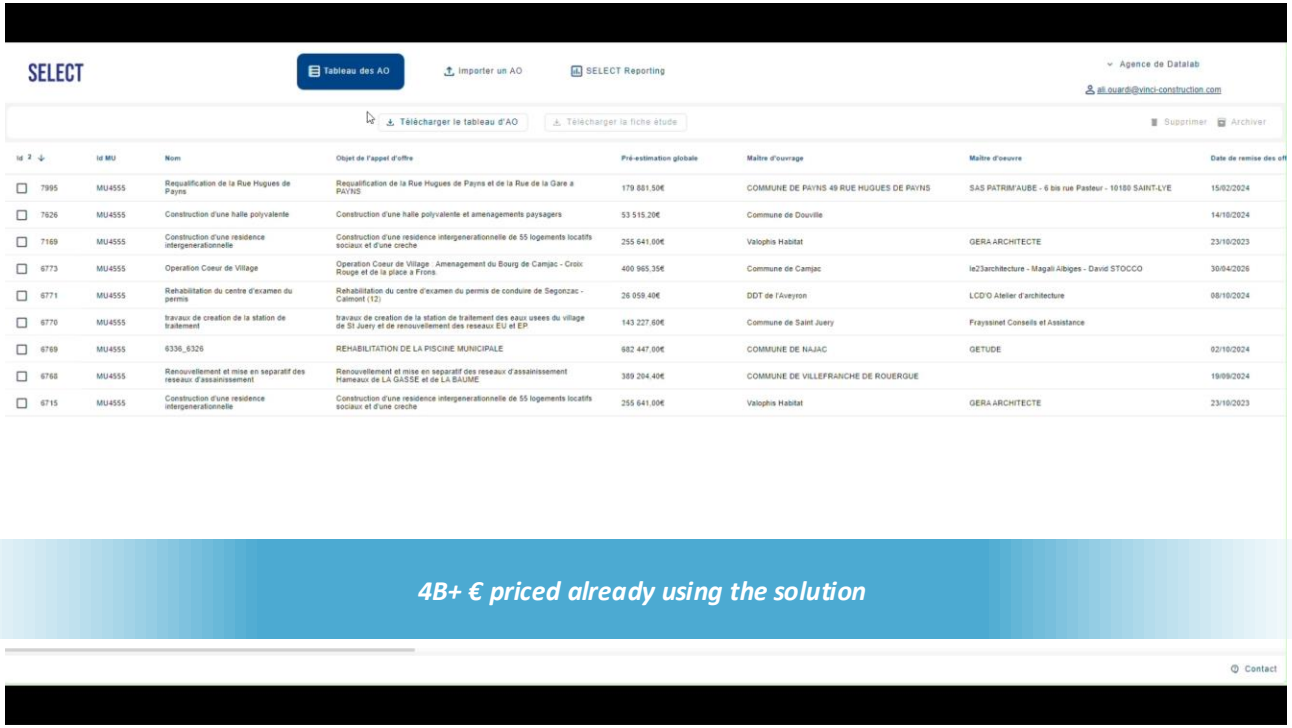
Embedding



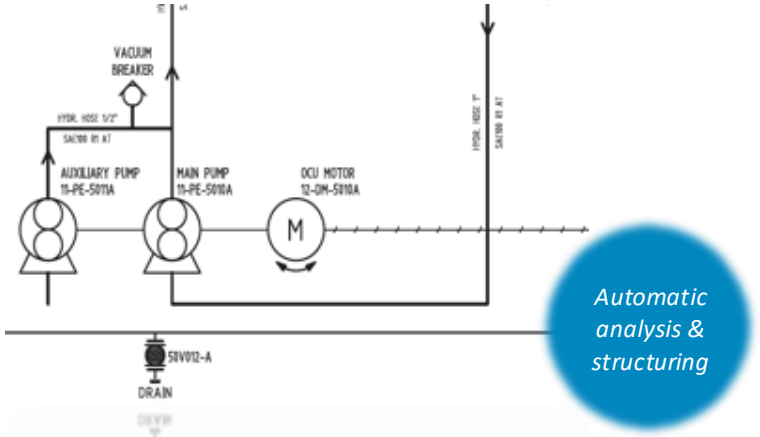
- Information retrieval
- Information classification
- Trend identification
- Audio transcription
- Translation
- Text generation

Computer-assisted
ANALYSIS

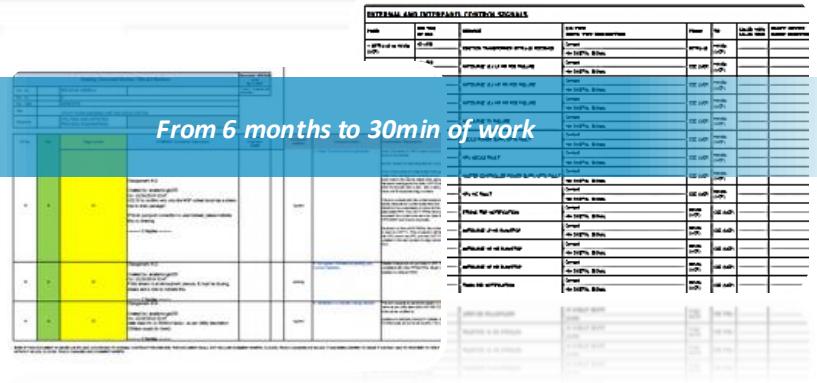
...both for our business units' specific businesses...



4B+ € priced already using the solution



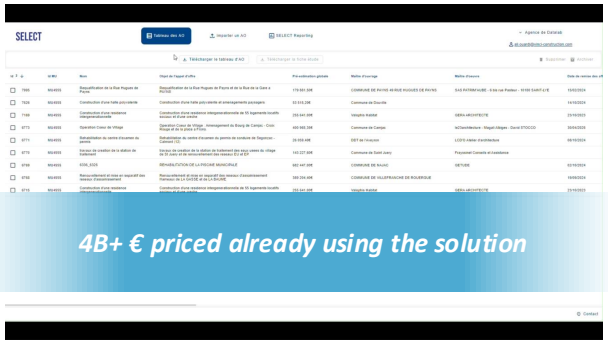
Automatic analysis & structuring



From 6 months to 30min of work

Computer-assisted
ANALYSIS

...both for specific our business units' specific businesses...



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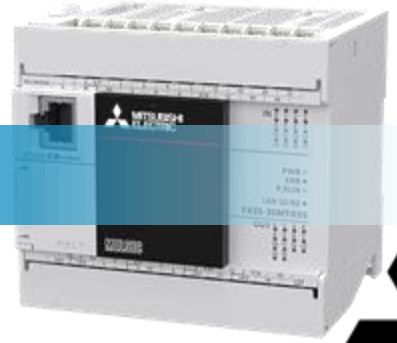
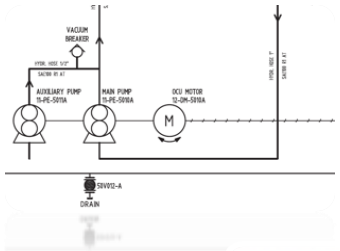


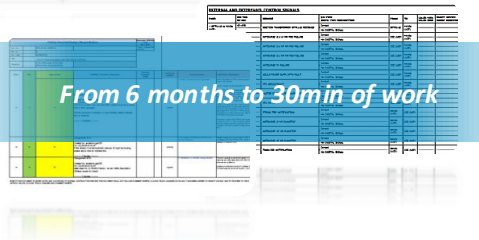
Process simplification and significant time-savings

SIEMENS

Schneider Electric

MITSUBISHI





From 6 months to 30min of work

A unique code to govern multiple programmable logic controllers

Computer-assisted
ANALYSIS

...and for the common good of the group

BID TAILOR

UK

Automating the bid generation process

ARIA

France

Extracting the relevant legal information and clauses from a contract

AUTO-ITP

UK

Automating the inspection and test plan document generation process

IntelIA

France

Automating the quotation generation process

SELECT

France

A one-stop-shop for tender pre-qualification

TICKETAI

Switzerland

Reducing ticket resolution times

NAKINA

Canada

Automating identification and qualification of leads for construction tenders

ACTEMIZE

France

Data processing in installation eng. during the commissioning stage

GUTENBRAIN

France

Automating information extraction from industrial documentation

Contracts processed and analyzed in less than 5min

Bid answsered in a couple of days instead of weeks

And more

-Artificial Intelligence -

Machines *mimicking* human behavior

People and expertise

Field concerns: a problem to solve

Data

Algorithms & infrastructure

Recognize patterns

Solve problems