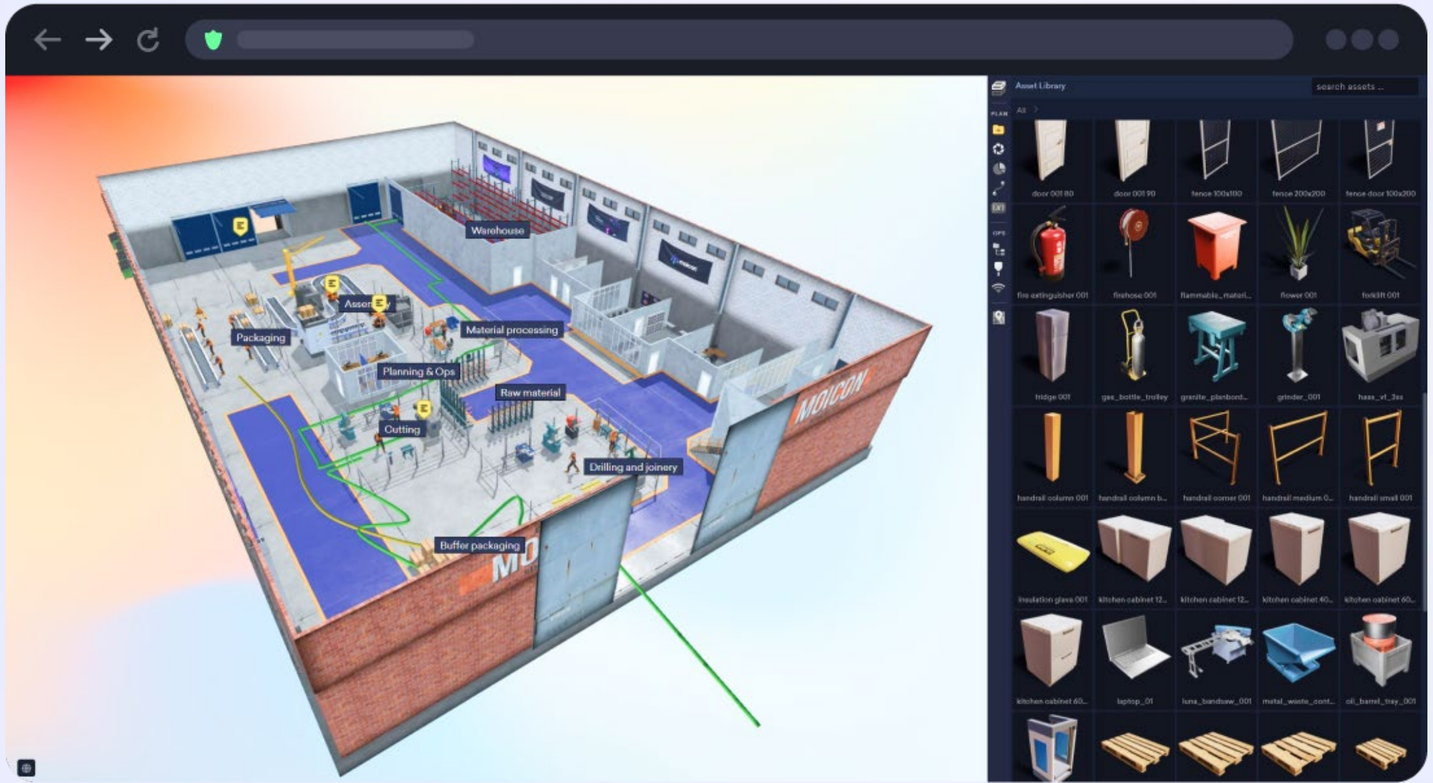
moicon

Your Digital Twin for Manufacturing



About Moicon

- Leveraging 3D visualizations to support Manufacturing operations.
- Founded in 2017.
- Highlights the benefits of organizing Manufacturing data in easy-to-read breakdowns visualized in a simulated web environment.
- Moicon is a combination of visualizations experts coming from the gaming industry and professionals coming from the Manufacturing scene.
- Certified Partner of Autodesk.
- Accessible for all. Moicon is web-based and opens directly in your favourite web-browser.

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Sales Manager

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Customer Success Manager

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Tech Ops Lead

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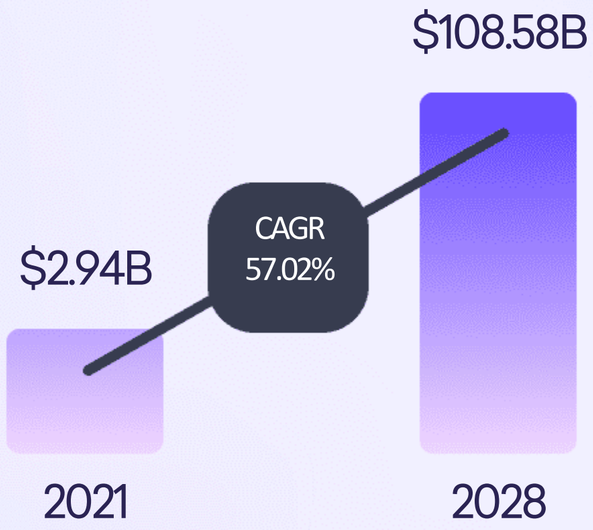
3D/UX/UI Designer

Vitaly Sakharuk
Fullstack Developer

Alexander Goldringer
Web Developer

VERIFIED MARKET RESEARCH™

Global Digital Twin Market



What is a Digital Twin?

“A Digital Twin is a digital representation of a real-world entity” - Gartner

“By 2025, 40% of physical-experiences businesses will improve financial results and outperform competitors by extending into digital twins” - Gartner Top Strategic Predictions for 2021 and Beyond

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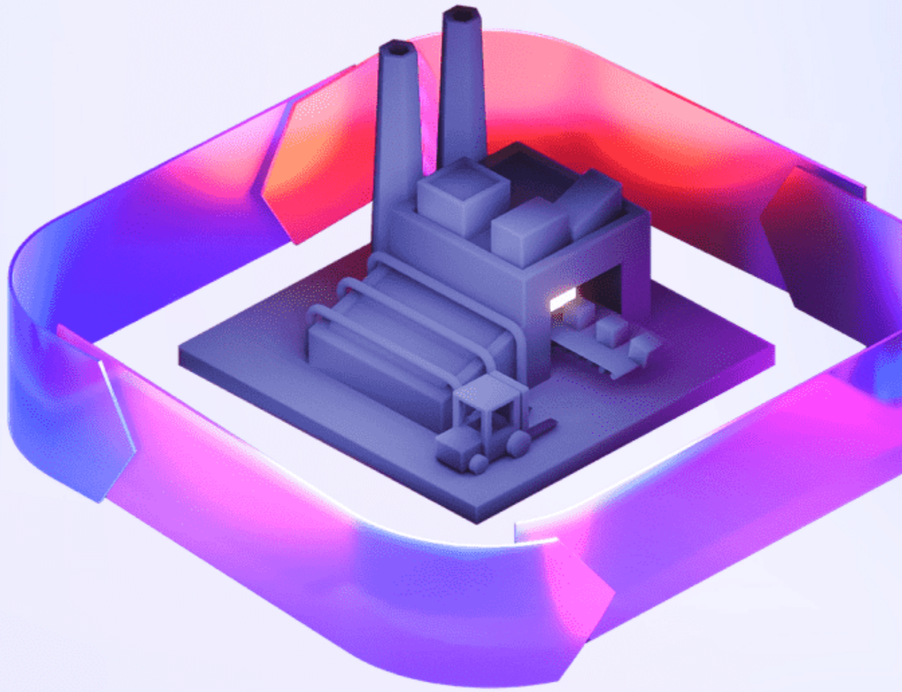
Moicon’s Mission

“Provide manufacturers with valuable insight to increase performance and decrease costs”



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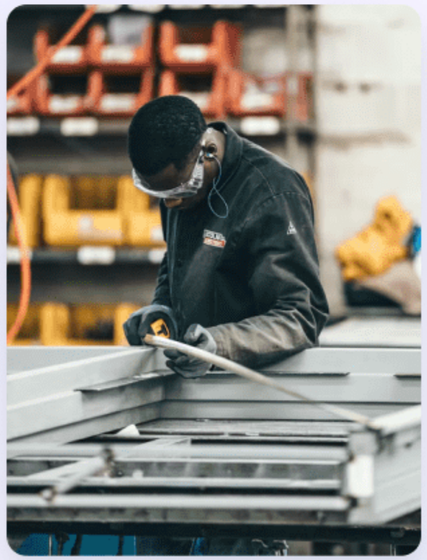

Manufacturing Challenges

Some common challenges

- How can I plan and test different layouts and flow of activities to see what works and what doesn't to eliminate losses in my production?
- How can I analyze my processes to identify my production bottleneck, and how can I further use this to optimize my material flow?
- How can I more easily detect time traps or waste in my production?
- How can I contextualize and visualize real-time data collected from my factory?
- How can I leverage data visualization as decision support to target energy saving activities in my facilities?

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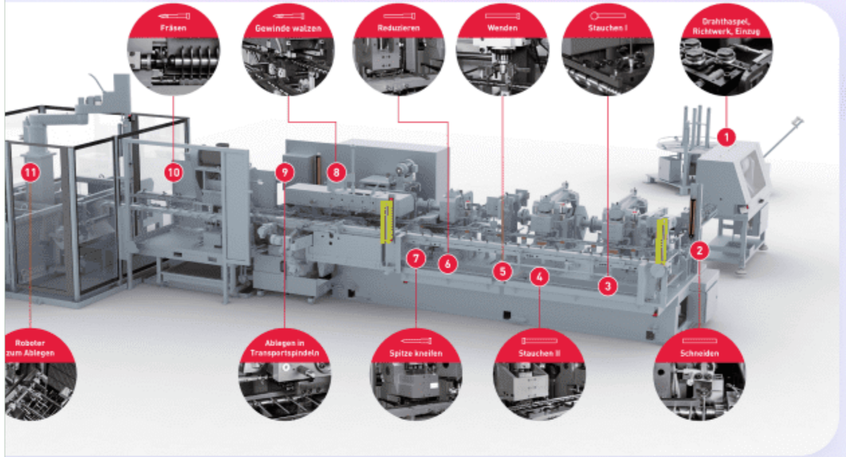
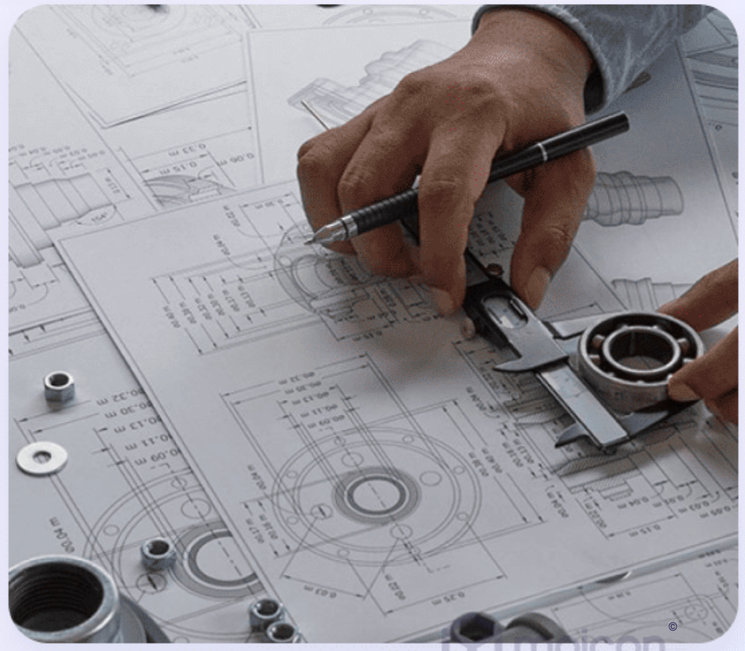
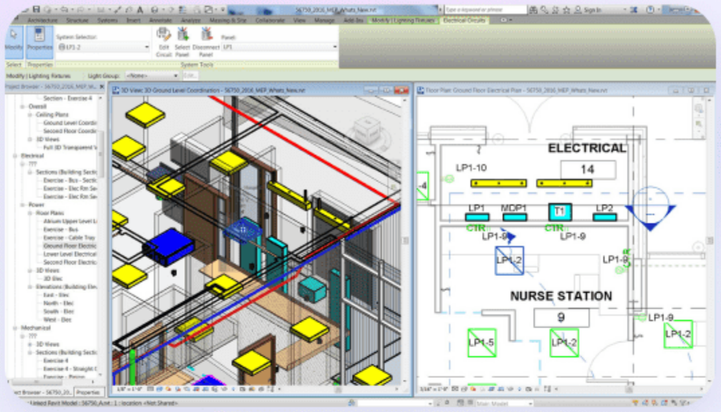
The Problem

Factory planning

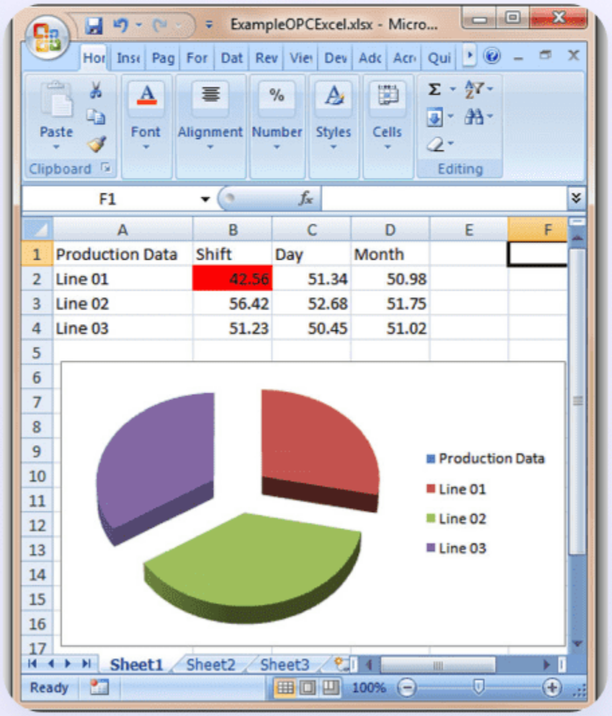
- Factory changes are often tested physically directly onto the factory floor to verify new workflows and layouts.
- Lack of accessible layout and measurements data makes it challenging to plan the optimal factory layout before physical implementation.
- Costly dependencies to 3rd party to achieve desired planning outcome: E.g. architects, equipment suppliers, consultants.
- Optimally arrange machines & equipment of different sizes within a given total factory space and apply process analysis and material flow analysis on top to get the full picture of your new and optimized changes before implementation.







Problem illustration 1



Problem illustration 2

The Problem

Factory Operations

- Contextualize the right view or ‘lens’ onto your factory operations to drive business value for your specific role and use case.
- Cross-exchanging information in a manufacturer’s operations between products, processes, and people, within different value chain functions.
- Harmonize the siloed systems and operations from machines, equipment and sensors to drive significant operational efficiencies.
- Maintaining asset uptime and consistent performance, monitoring and analyzing metrics including utilization, availability, and quality.
- No Single Source Of Truth (SSOT) available to stakeholder

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Where a Digital Twin Can Help

Planning

- Optimize space with proper planning of your current equipment to reduce the total cost of operation and maintenance.
- Simulate “what if” scenarios for a complete production line
- Support equipment investment decisions
- ‘Walk through’ of a 3D virtual representation of your facility with a toolbox (measuring, specifications, performance, placement).

Operations

- Harmonize the siloed discord across manufacturing operations by proving unified data visualization views.
- Contextualized information can drastically improve KPIs or an operator’s assets uptime.
- Identifying the greatest business value and pressing needs for the organization and clearly visualize its KPI’s.
- In-context monitoring; Zoom in to see what a specific process is doing, or zoom out to see how it affects the process overall.

Where a Digital Twin Can Help

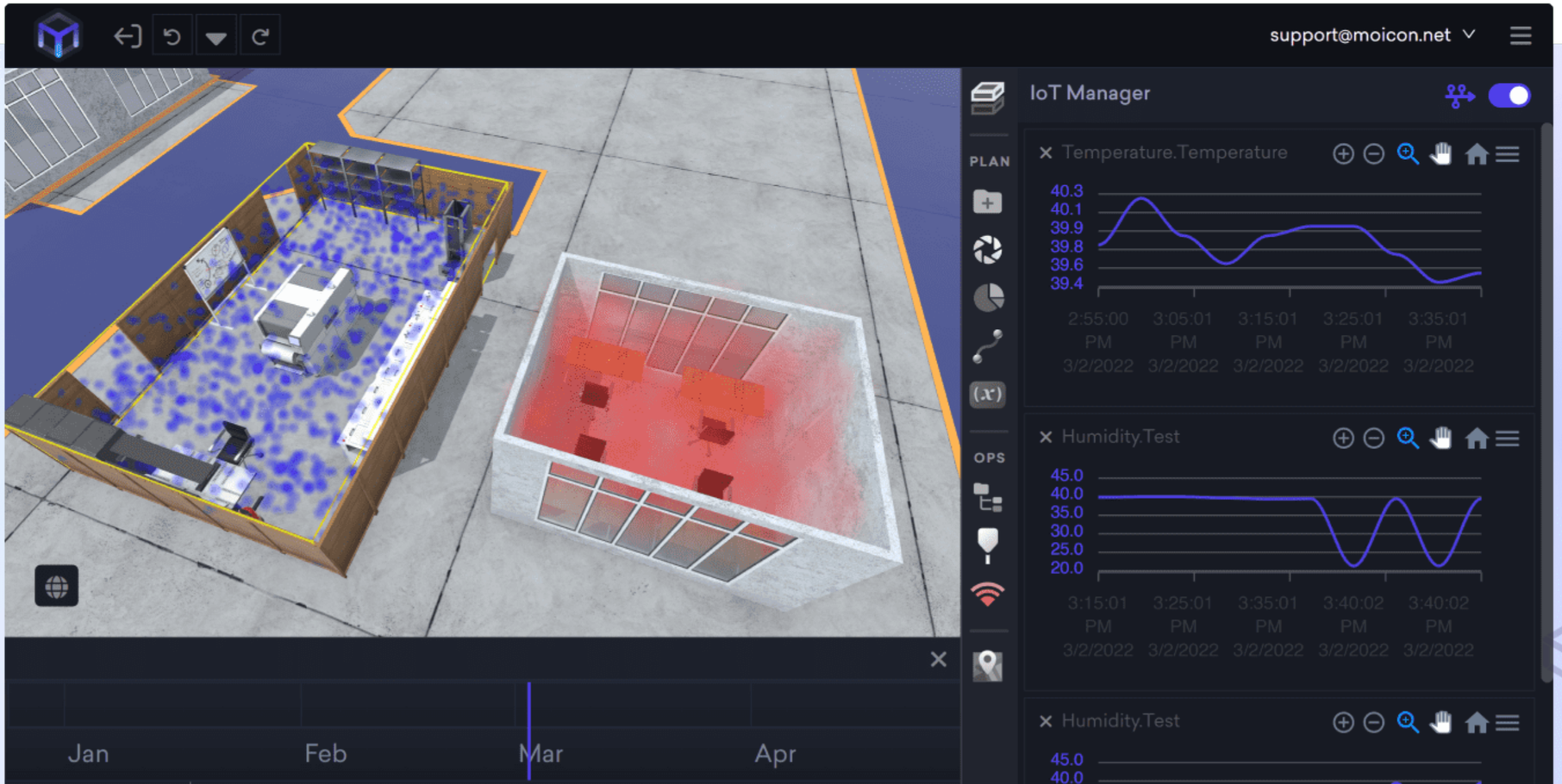
Planning

Current

Desired

Where a Digital Twin Can Help

Operations



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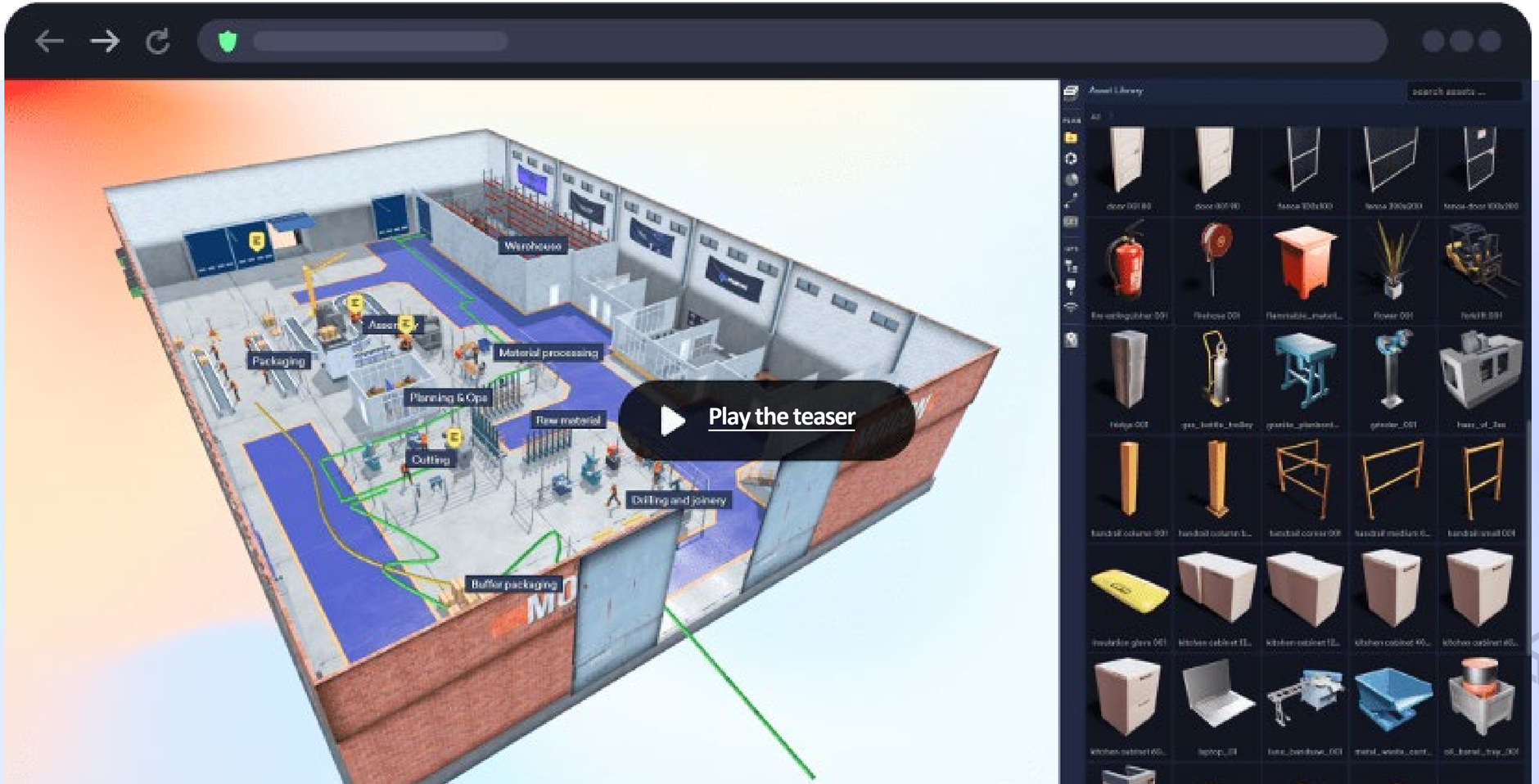
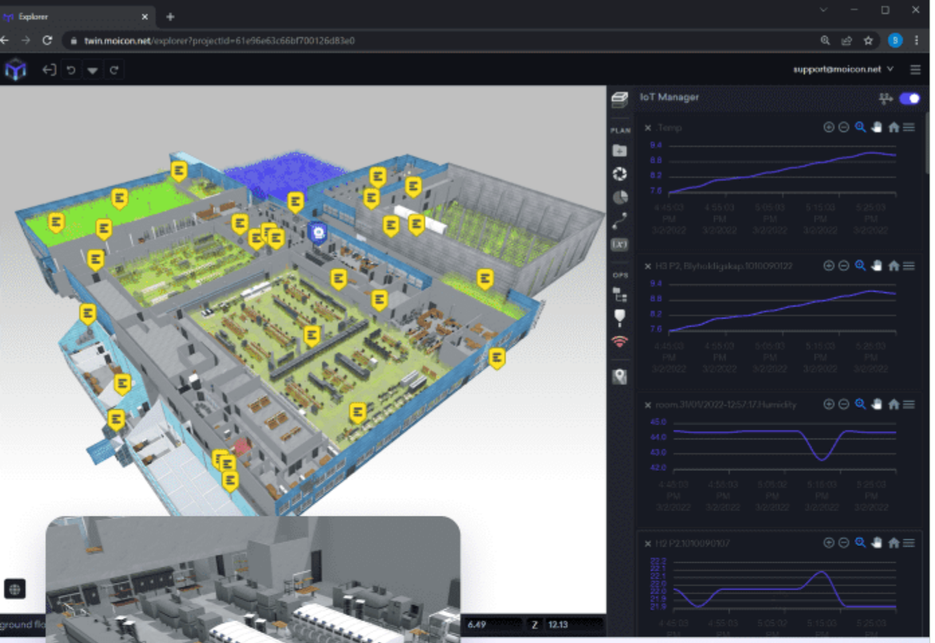
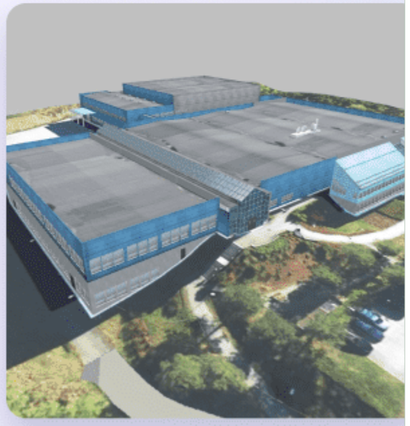
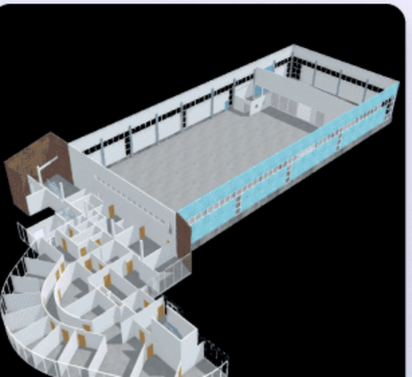
Where a Digital Twin Can Help

Video: Moicon Digital Twin









hapro. Electronics

Customer Case

The challenge

Displaying real operations with IoT and sensors to make their factory operations truly transparent to their operators for better decition making.

The approach

Hapro uploaded and connected their 3D model of their factory with their IoT sensors data.

The Moicon delivery

Hapro leveraged Moicon to create intuitive visualizations that their whole team can reference. Moicon enabled them to break their silos into contextualized data visualizations.

The customer value

Moicon helped Hapro visualize their data & ignite innovation - providing a dashboard for improved productivity and increased knowledge, ultimatelly resulting in Hapro winning a €20 million bid.

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isiflo

Customer Case

The challenge

With a wide array of products and frequent changes in customer orders, Isiflo needed an agile tool to plan and optimize their factories.

The approach

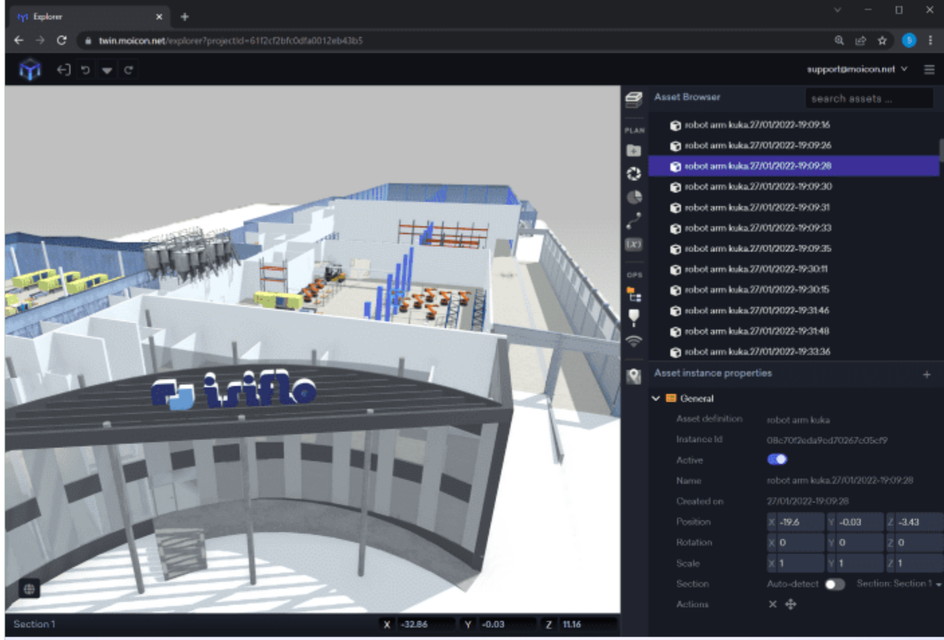
Isiflo uploaded a 3D model of their factory plus their machines, assets and equipment into the Moicon Digital Twin Platform.

The Moicon delivery

Isiflo leveraged Moicon to create “what if” experiments in their virtual factory, testing different layouts and flow of activities to see what works and what doesn’t.

The customer value

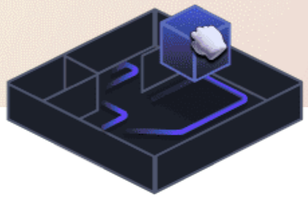
With confidence, Isiflo now configures new layouts without the expensive (and historically risky) step of interrupting production to make a change.



How it works?

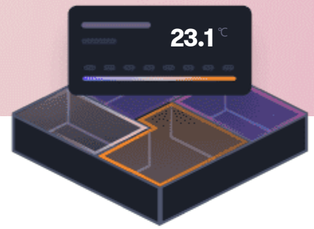
1. Upload your existing 3D model or order one from us

Upload your 3D model. Moicon supports over 60 different file formats, including Revit, Solidworks, Inventor, Rhino, 3ds Max and 56 more!



2. Plan, Simulate and Manage Space

Run “what if” experiments in your virtual factory and uncover the optimum balance to specify exactly the requirements before shopping for new equipment



3. Operate, Monitor and Visualize Data

Boost your ROI and increase factory efficiency. Visualize all data in one centralized place for broader view

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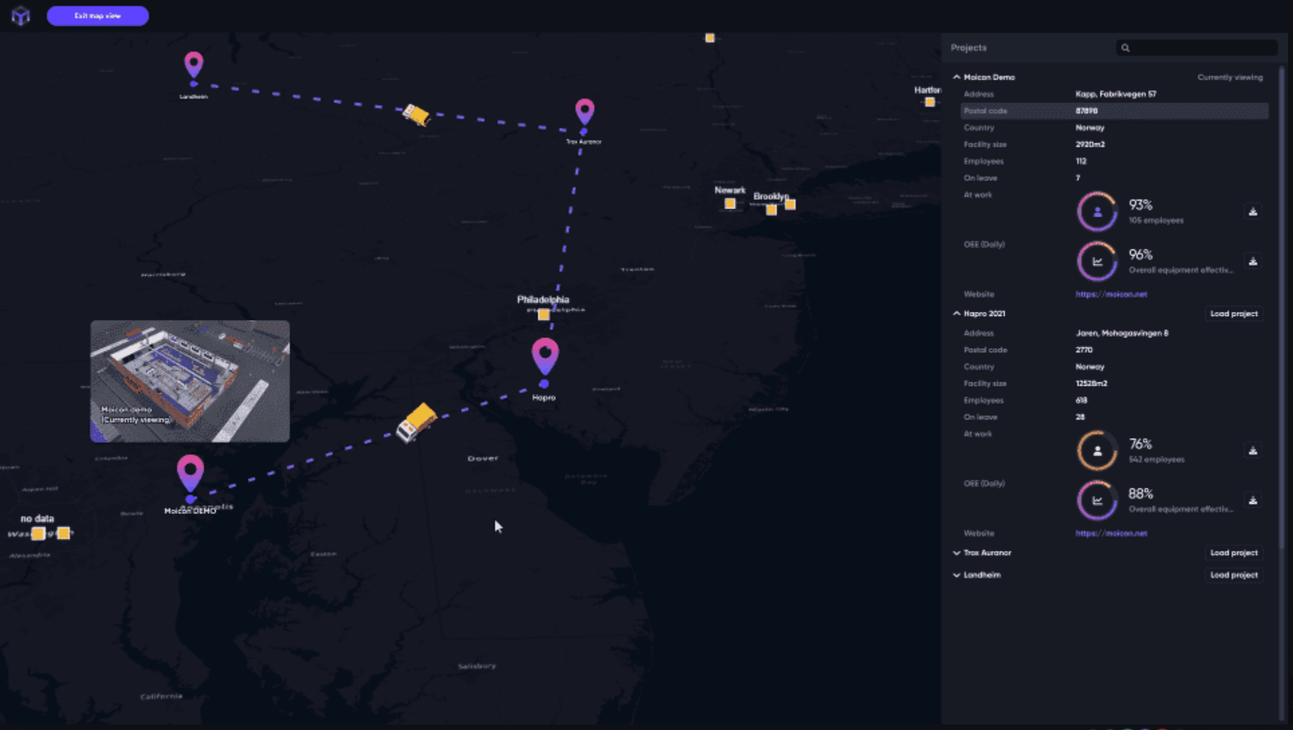
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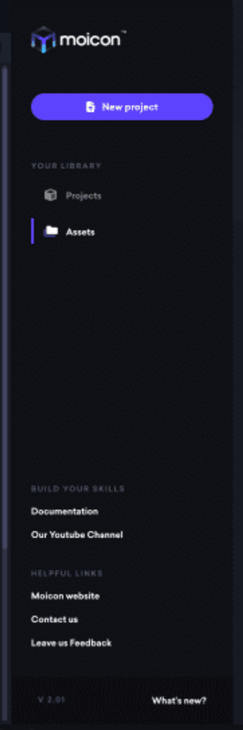
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New project
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Moicon website
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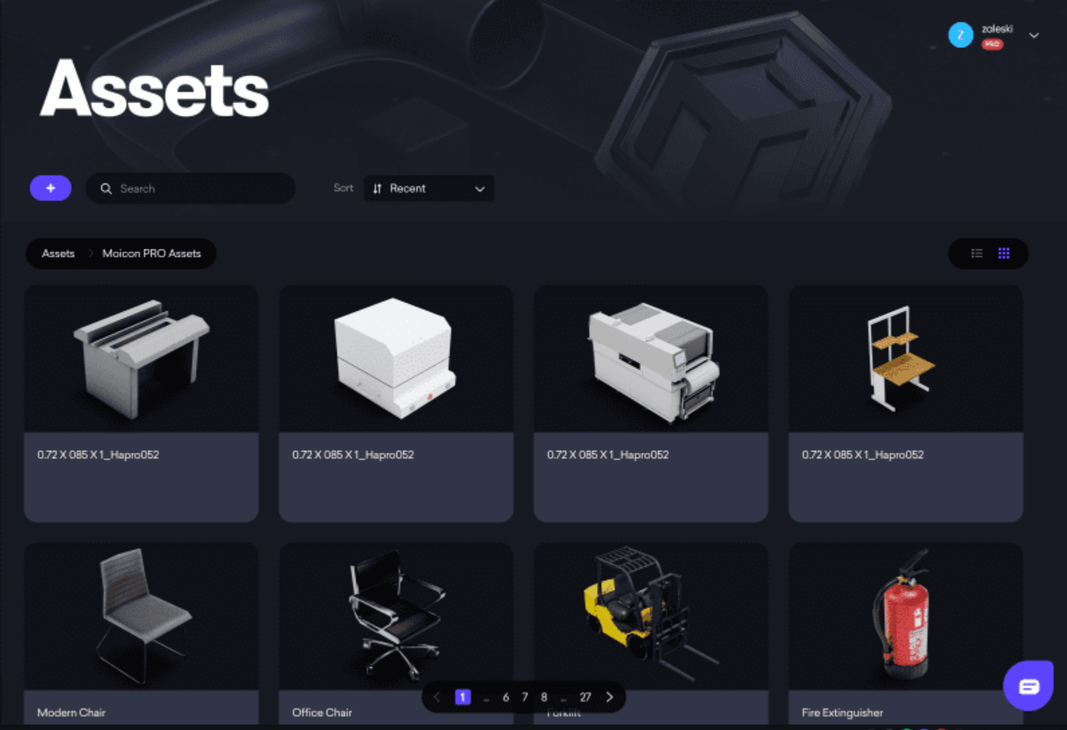
What's new?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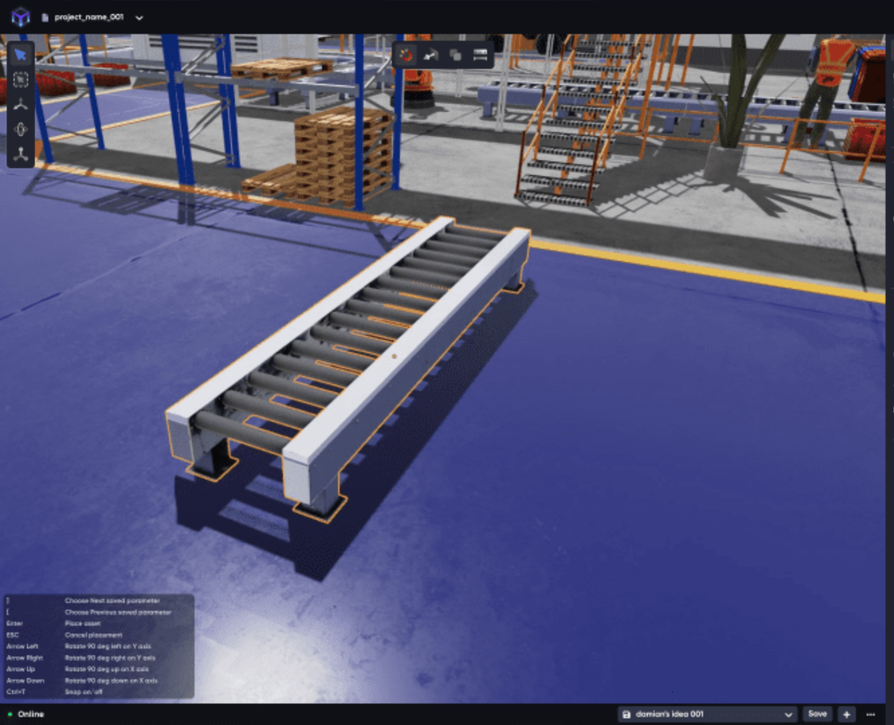
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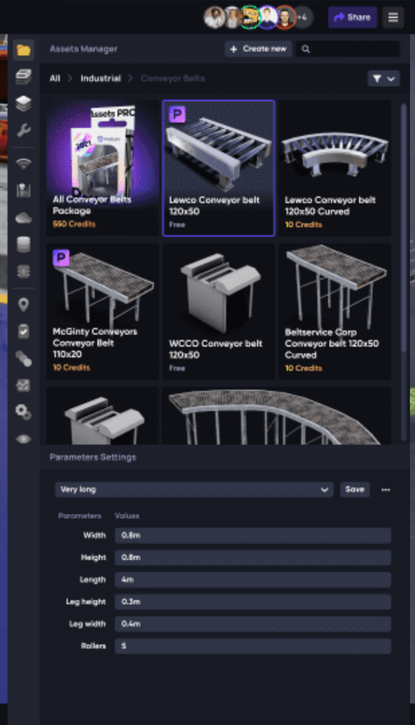
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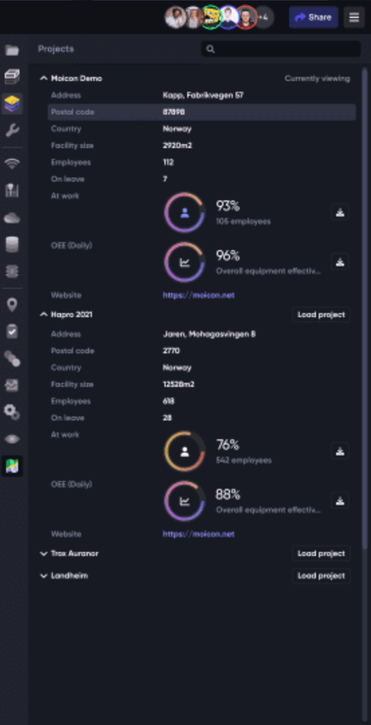
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Landheim
Load project

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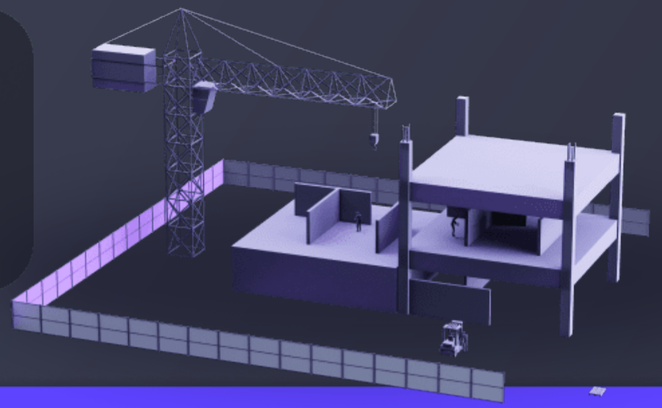
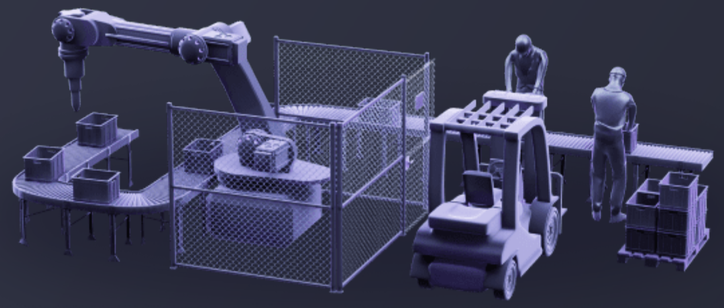
Factory Lifecycle





Factory Planning

Plan Simulate & Manage Space

- Configuration Tools
- Modifying Tools
- Assets Library
- Floor Plan Printing
- Sections

Process Planning Process Simulation

- Process Analysis
- Material Flow
- Gemba Walk

Factory Operation

Operations & Mainenance

- Maintenance
- Issues reporting
- Kinematics
- BIM, Docs & Files
- IoT
- Markups & Labelling

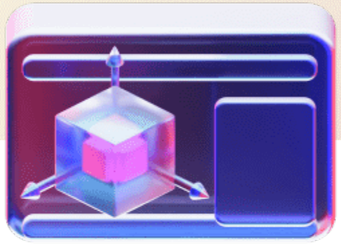
Renovation & Improvements

Re-use Planning features for Operational renovation improvements

Moicon© Platform Highlights

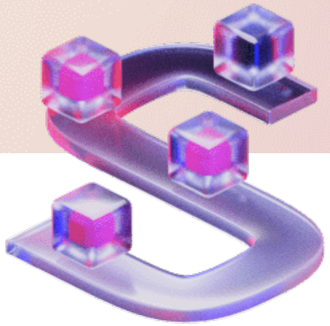
No Installation

Easy access through your web browser. No installation needed to display your factory's digital twin.



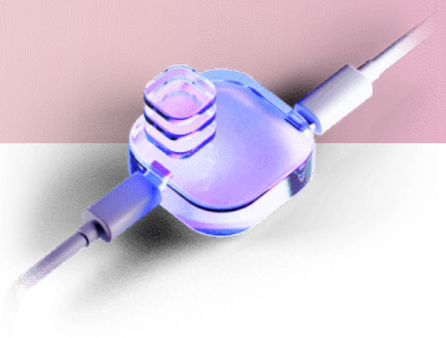
Easy to Use

Intuitive and easy-to-use 3D visualization, based on renowned gamification techniques.



Powerful Manufacturing Toolbox

Handles large and complex 3D models, robots and equipment. Provides an unprecedented toolbox designed specifically for factory planning and operation.



Connected

Integration of equipment data and IoT sensor data. Can integrate with a wide range of sources, including live facility data, sensors and ERP systems.

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isiflo

LANDHEIM

MANUFACTURING TECHNOLOGY
NORWEGIAN CATAPULT CENTRE

Nammo

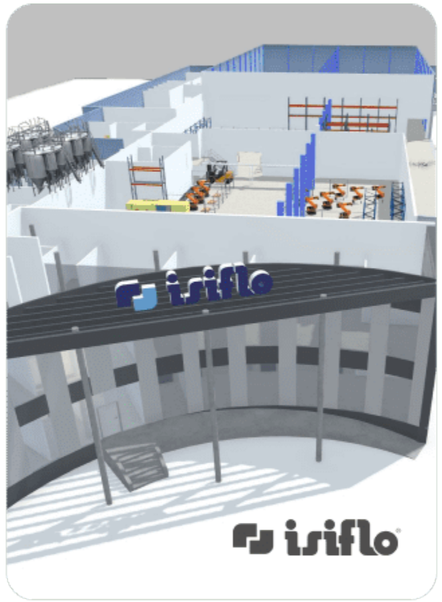
FOSSMV.no

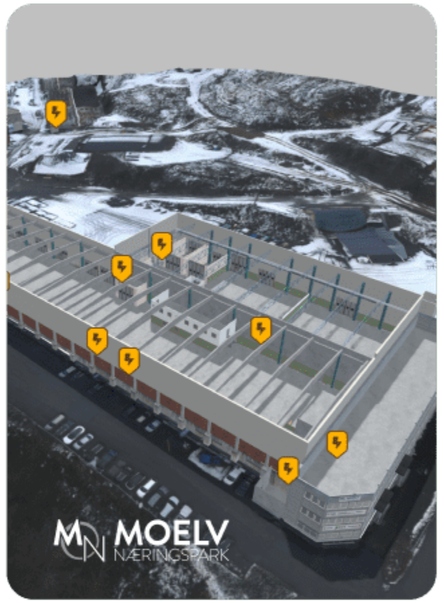
HOLMEN CRISP
Mølle og bakeri på Toten siden 1854

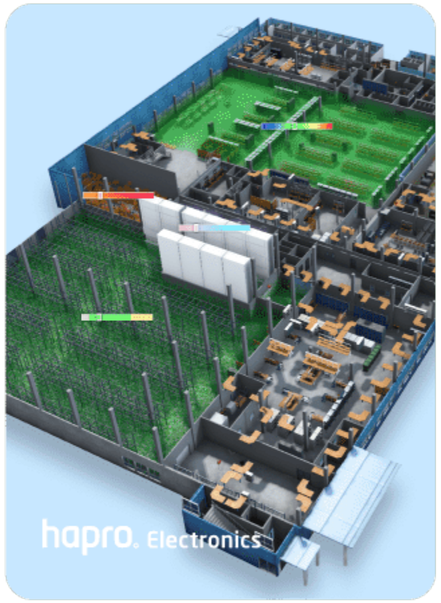
SKOGPLANTER
Innlandet

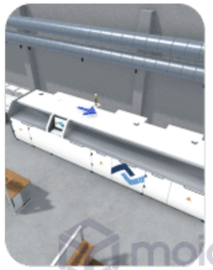
MOELV
NÆRINGSPARK

We've worked with many. Are you next?









Srinath Jonnalagadda

VP | DESIGN & MANUFACTURING

AUTODESK

They are a small company out of Norway with really big ideas

https://forge.autodesk.com/customer-stories/moicon

We’d love to collaborate!

To get more information about our cloud-based Digital Twin for manufacturing, don’t hesitate to get in touch.

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