



MASTERDIGITALTWIN

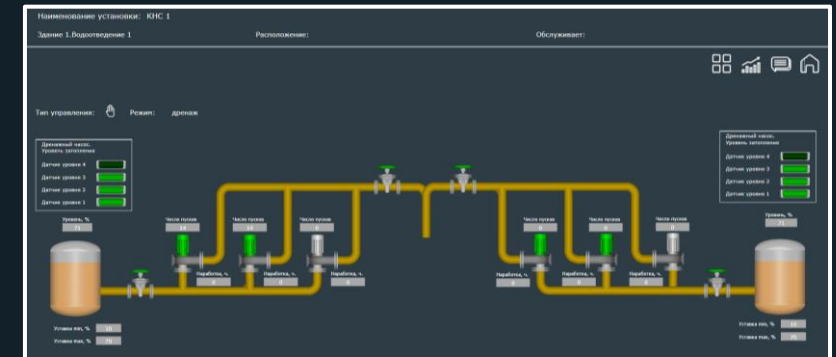
Intelligent software solution for operating
engineering systems based on BIM and SCADA

2026

Cross-platform software application for operating engineering systems based on BIM (ifc format) and SCADA

What is the difference between Digital Twin and BIM?

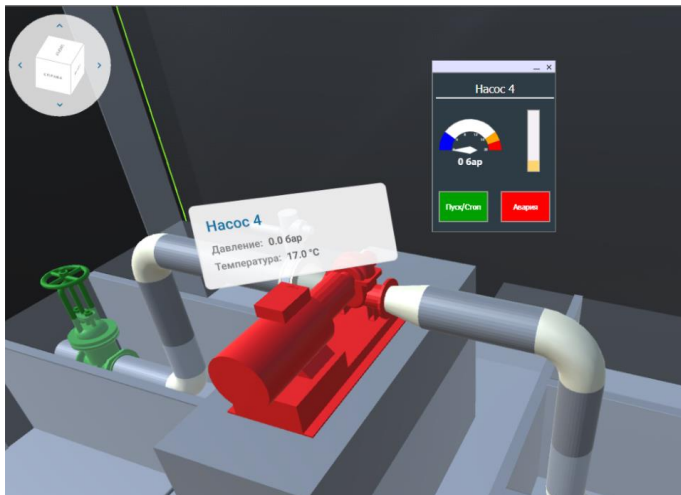
- Digital Twin - dynamic digital replica of a physical building / asset / or facility that integrates real time data, simulation models, and operational information to represent the current state and performance of the building / asset / facility.
- BIM describes how a building is designed, whereas a digital twin shows how it actually functions throughout its lifecycle.
- While BIM focuses on design intent and construction information, Master Digital Twin focuses on operational behavior and performance monitoring.



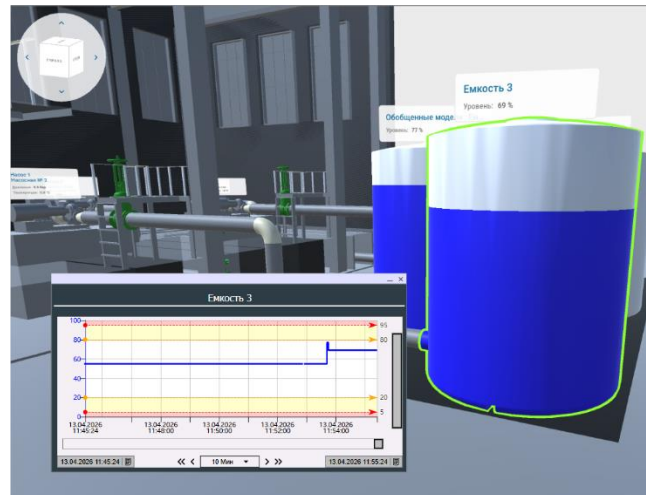
MASTERDIGITALTWIN ALLOWS



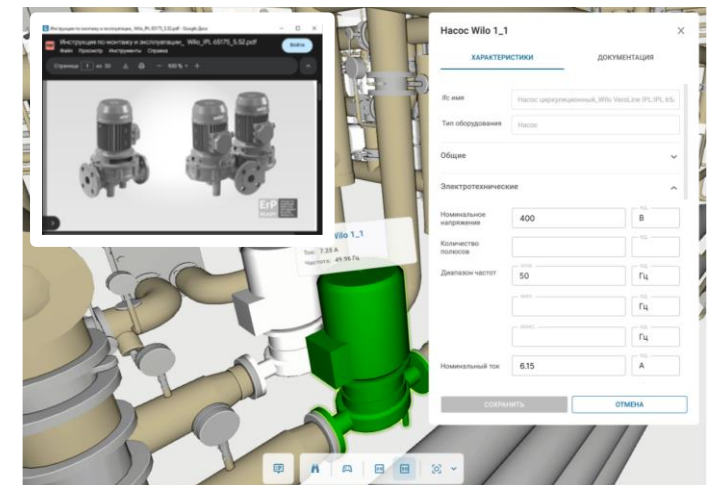
1. Real time monitoring of equipment on a digital replica of the asset;
2. Faster and easier navigation on the asset due to remote 2D-3D movements thru copy of the asset and looking behind the walls



3. Display of any MasterSCADA windows, including those that allow controlling equipment via BIM;
4. Synchronization between traditional mnemonic-diagram and their digital replica

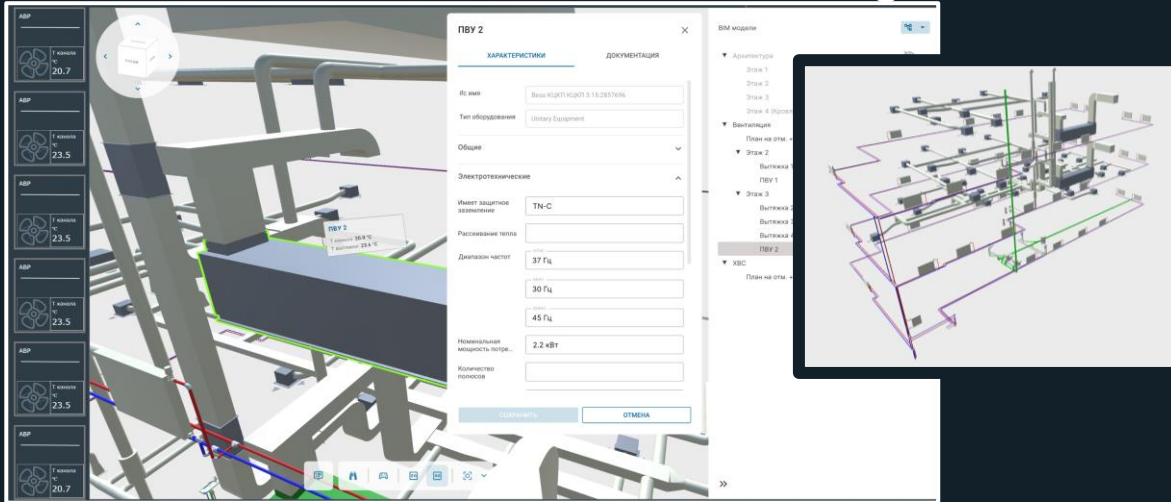


5. Immediate access to the assets data, equipment specification and documentation

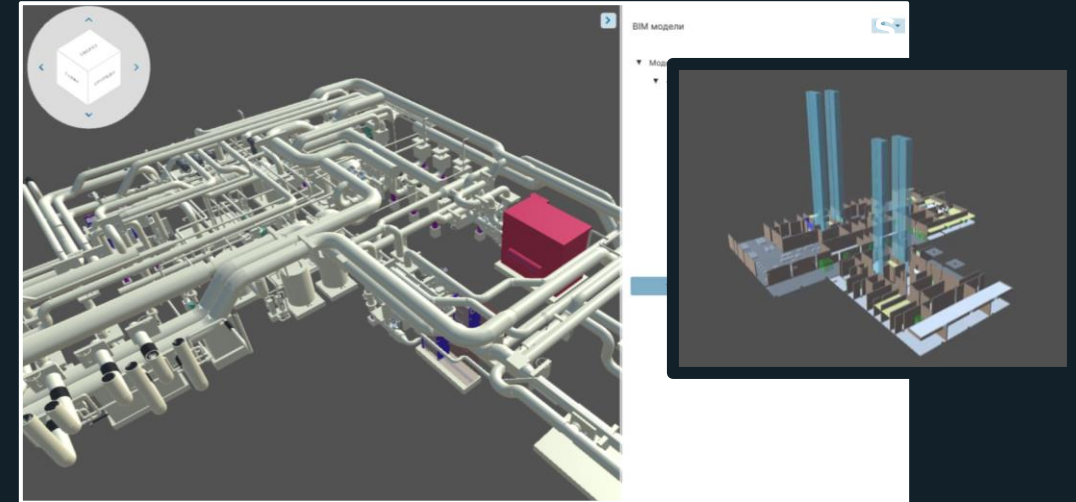


FOR MULTIPLE BUILDINGS

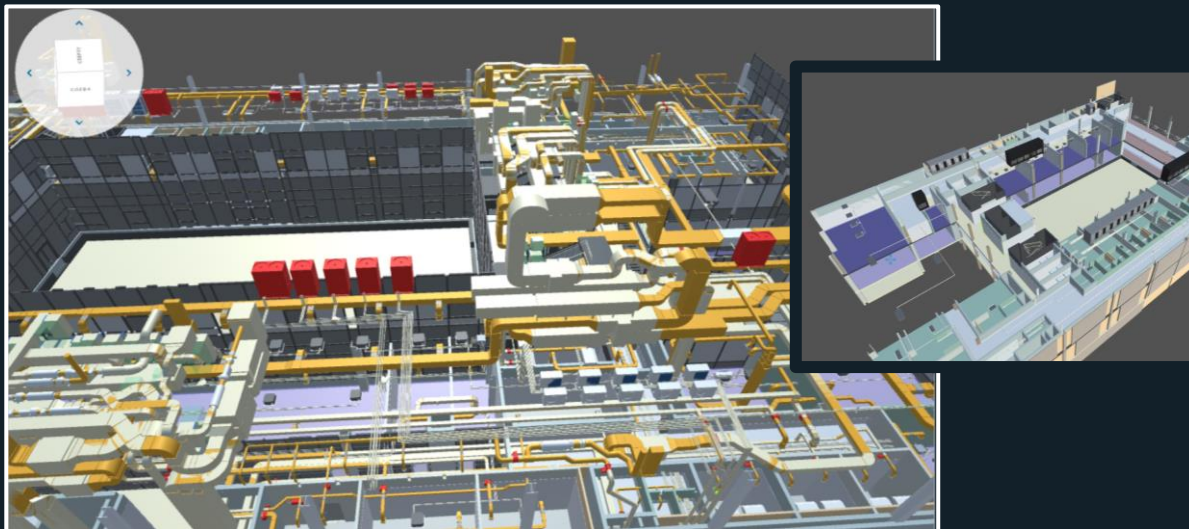
Residential and Commercial Buildings



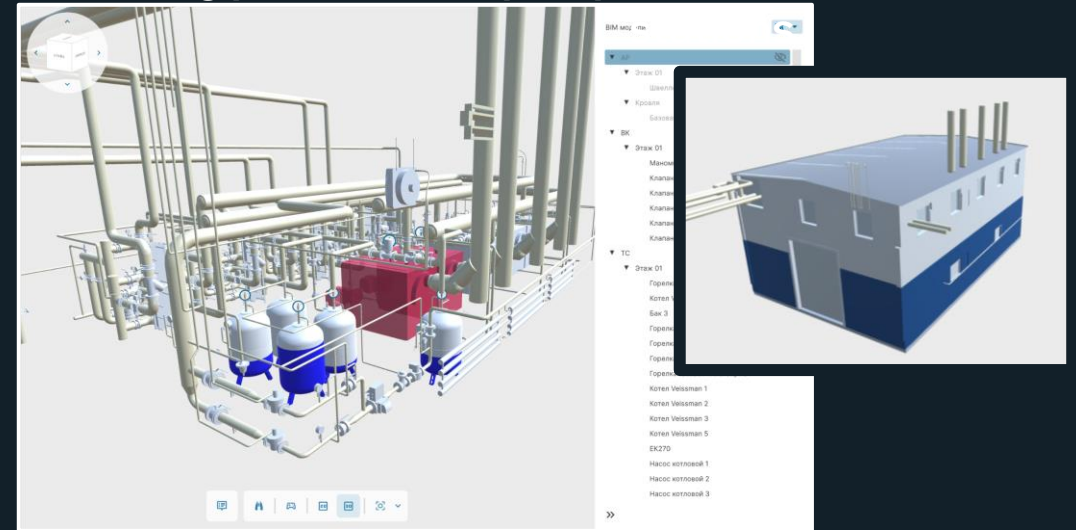
Administrative and Commercial buildings



Data Centers



Heating plants, water pump stations



OUR VALUE PROPOSITION

Effective asset

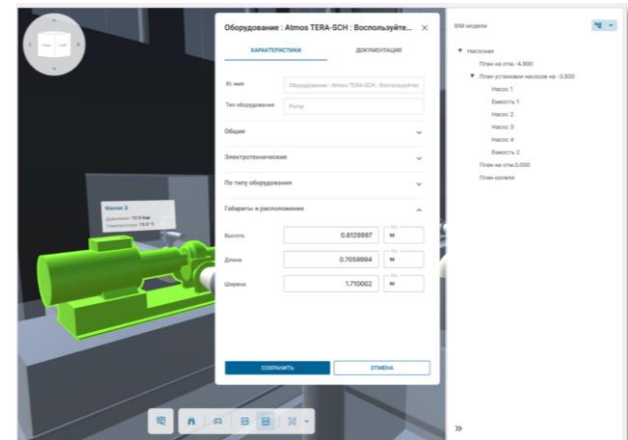


- Single storage space for all facility data available to different user categories (documentation, maintenance plans of engineering systems, consolidated operating costs)
- Less errors using outdated or false

Faster repair and

maintenance works

- Fast decision making. **Minimizing systems downtime by 30%**
- Fast asset navigation. **Minimizing incidents response time by 20-30%**
- Fast identification of potential threats



SCADA MARKET PLAYERS

Software product	Functionality	Limitations	Web-site
MasterDigitalTwin	- Model loading (ifc) - IFC properties import to CSV or to Data Base. Properties publishing - Adding model elements to scenes, handling of scenes (layers, visibility, materials) - Tuning signal source	Data Source - Master SCADA 4D	https://iek-digital.ru/products/masterdigitaltwin/
Iconics	- Model loading (ifc, dwg, xaml, 3ds) - IFC properties import to CSV or to Data Base. Properties publishing - Adding model elements to scenes, handling of scenes (layers, visibility, materials) - Tuning signal source	Not available for sales as installed software	https://iconics.com/
Aveva E3D Design	- Model loading (nwd). Managing laser scan data and clouds of dots - Scenes moving in the model space	Not known mechanisms for acquiring field signals from external sources	https://www.aveva.com/ru-ru/products/system-platform/
LAquis SCADA	- Image created in the proprietary editor (not in BIM) - Placement of 3D models of equipment in space - Animated 3D models (selected version of the software supports equipment status and movements). - Trends analytics in 3D	3D image is not compatible with BIM. If the image is loaded, it loses its properties.	https://laquisscada.com/

MASTERDIGITALTWIN



3D DYNAMIC DIGITAL REPLICA OF
ENGINEERING SYSTEMS, BUILDINGS
OR UTILITIES



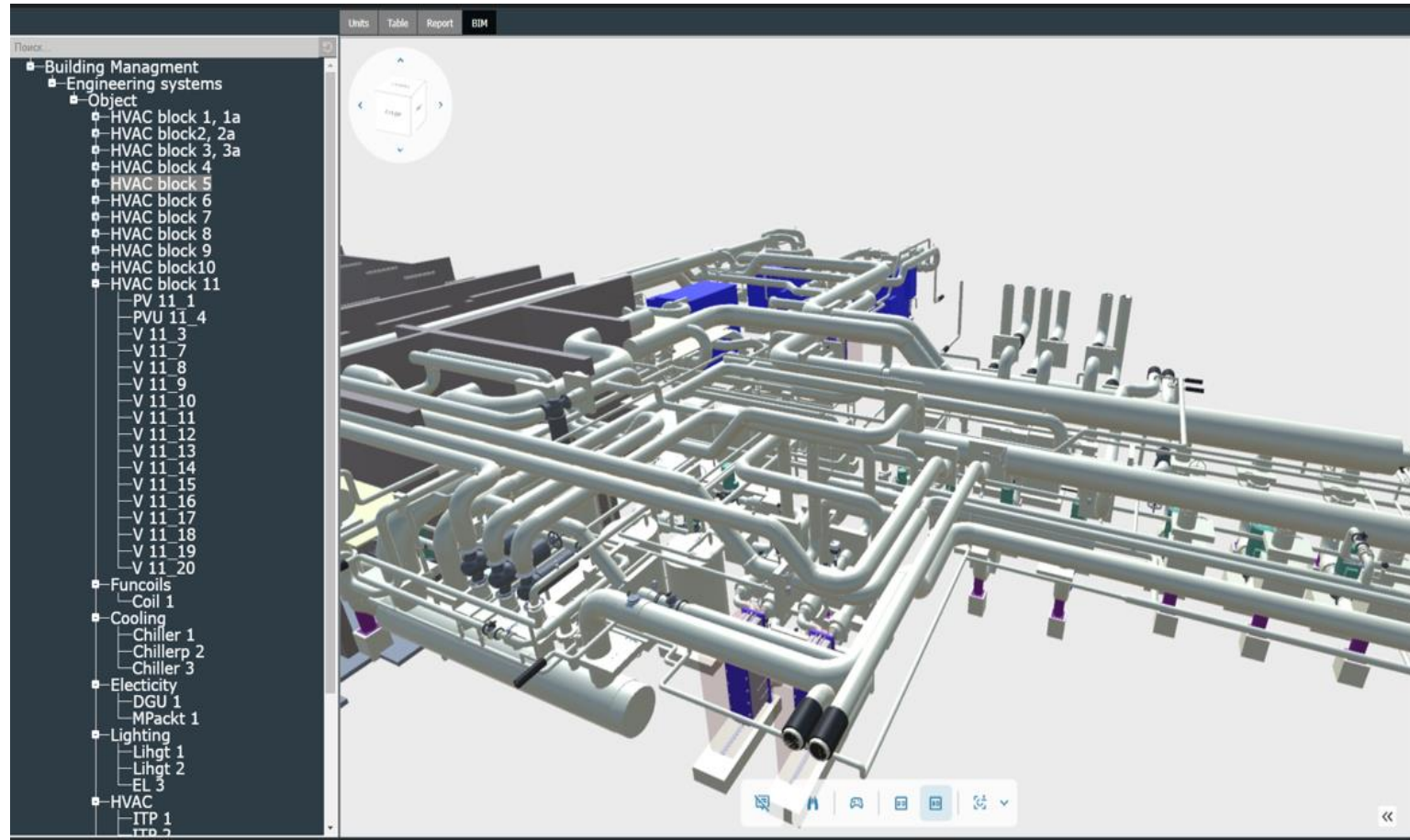
PROVIDES REAL TIME MONITORING
OF EQUIPMENT AND DISPLAYS
OPERATION DATA



SINGLE STORAGE SPACE FOR TOTAL
FACILITY DATA (SPECIFICATIONS,
MAINTENANCE PLANS, OPERATION
COSTS)



EASY UPDATE OF 3D MODEL
ELEMENTS AND DATA





360 DEGREE OVERVIEW OF FACILITY AND EQUIPMENT,



FIRST-PERSON NAVIGATION THOROUGH FACILITY, SWITCHING FROM 3D TO 2D PLANS.



SIMULATES AND PREDICTS EQUIPMENT BEHAVIOR AND PERFORMANCE



MODELS SCENARIOS OF SYSTEM AND EQUIPMENT OPERATION.



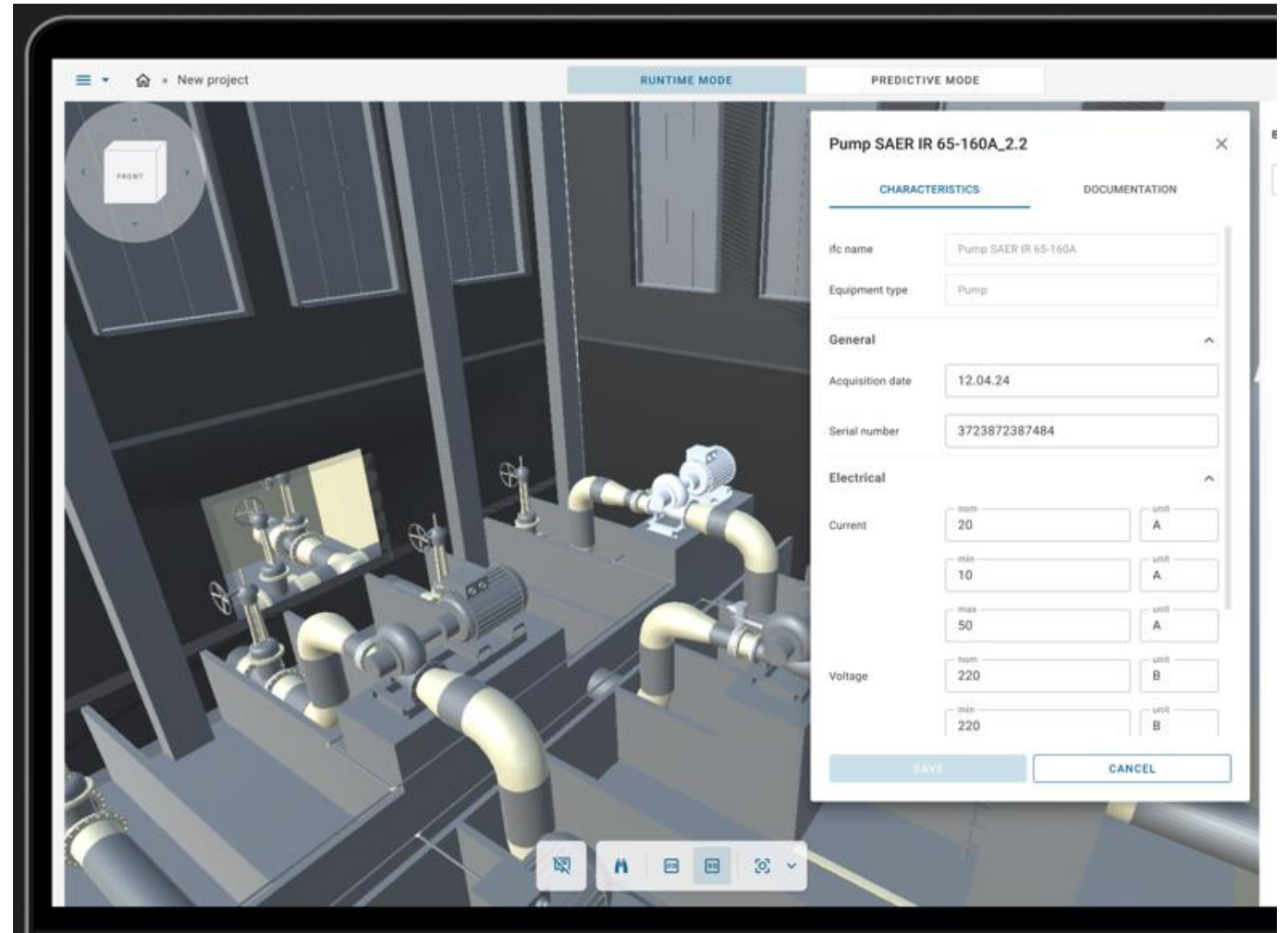
LOWERS MAINTENANCE COSTS AND DOWNTIME



REDUCES ENERGY RESOURCES CONSUMPTION – ELECTRICITY, HEAT, WATER



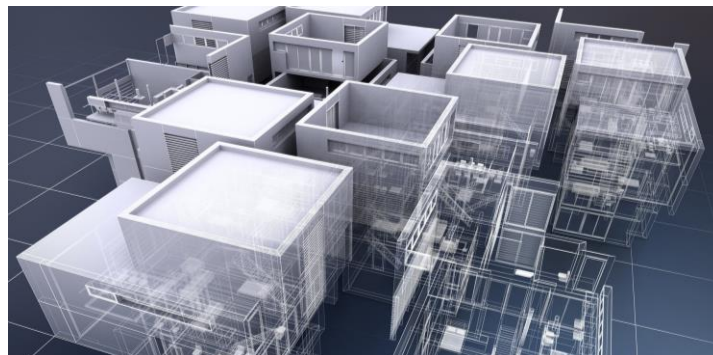
PROVIDES SIMULATION TRAININGS TO PERSONNEL – IMPROVING PRODUCTIVITY AND SKILLS



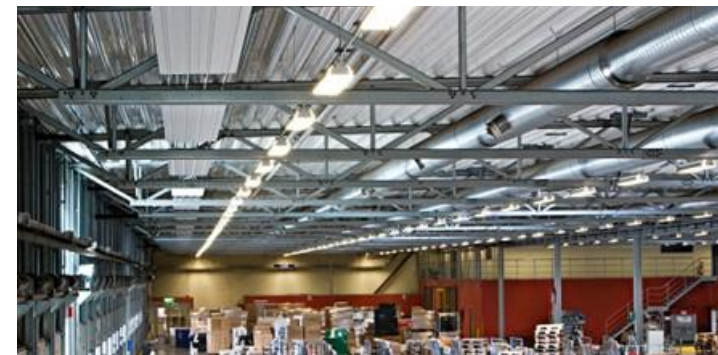
SOFTWARE PRODUCT ECOSYSTEM



- MasterSCADA 4D
- MasterSCADA 4D (WEB)
- MasterOPC
- MasterPLC



- MasterBMS
- MasterCAD
- MasterDigitalTwin



- IEK ERM
(ЭнергоМенеджмент)
- IEK IIoT Platform
- AIM IQLink

IEK DIGITAL TEAM

- SOFTWARE DEVELOPERS
- ANALYSTS
- TESTERS
- SYSTEM ARCHITECTS
- TECHNICAL SUPPORT ENGINEERS
- ENGINEERS FROM VARIOUS INDUSTRIES
- SALES & PRE-SALE



In total 170 specialists

TRAININGS - WEBINARS - DEMOS



Demo

Try-it-yourself demo:
upload a model, create a
project
Login GuestSupport
Password: guest



Demo

Ready-made project in the
demo environment



THANK YOU FOR YOUR ATTENTION

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