



SIMLAE

**DIGITAL TWIN SOLUTIONS SUPPORTING
FULL LIFE CYCLE OF BUILDINGS**

NEW TRENDS IN DIGITISATION OF BUILDINGS

SIMLAB, is a technology company from Poland, specialising in property digitisation, combining the Matterport environment with BIM, building automation and FM systems.

We offer a suite of software for architectural, engineering and construction teams for comprehensive documentation, and more efficient and efficient communication. We also offer solutions for property owners and managers that integrate 3D scans with asset data, facility maintenance functions and intelligent building (IoT) technologies.

The STAGES and SIM-ON platforms are dedicated to a wide range of users for managing the full, iterative lifecycle of a property - from design and construction, through use, to refurbishment and sale. Our highly specialised tools are easy to use, require no specialist knowledge and can be started in just a few simple steps.

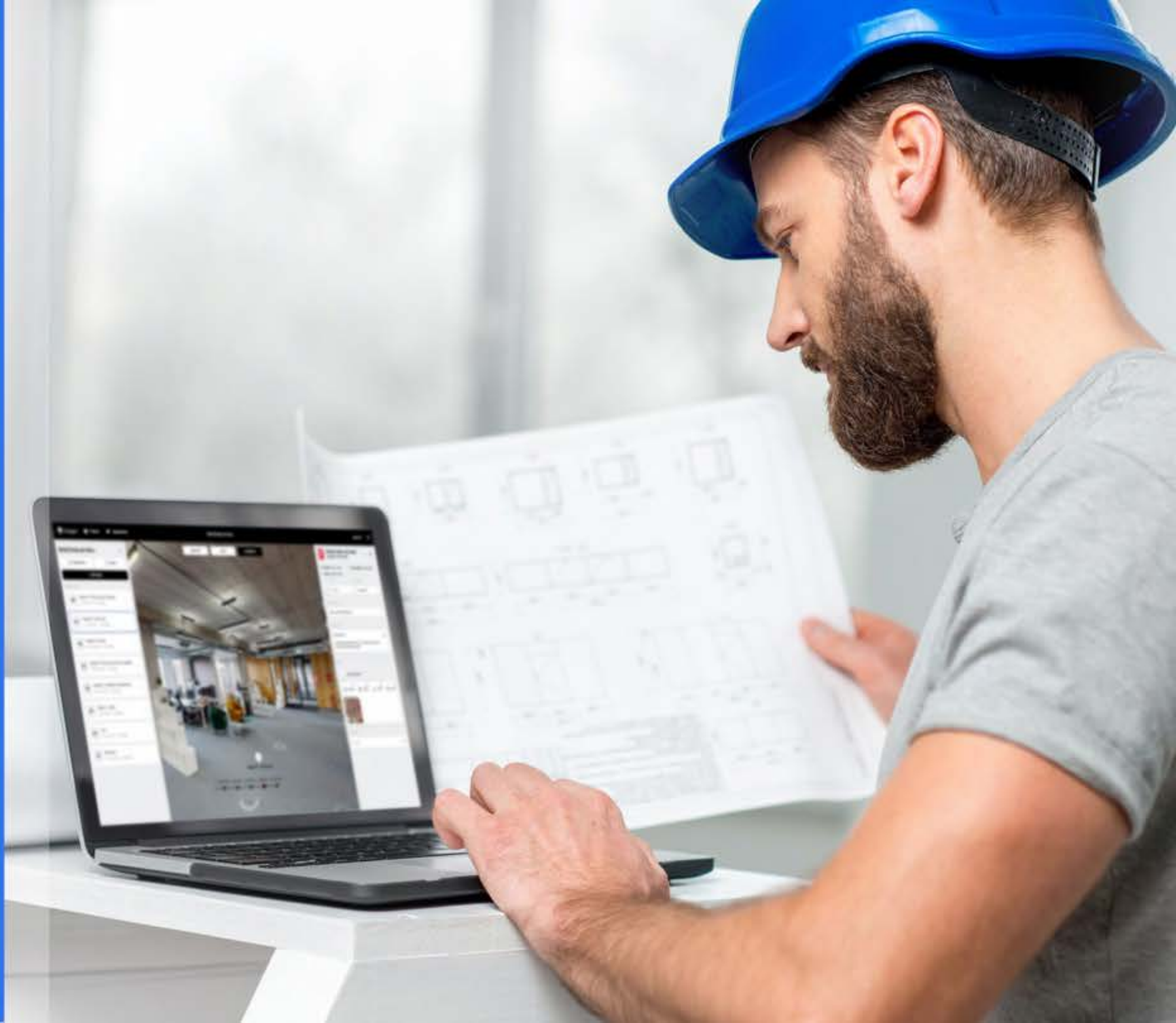




**DIGITAL TWIN PLATFORM
FOR DOCUMENTATION
AND MANAGEMENT OF
CONSTRUCTION PROCESSES**

CREATED BY
SiMLA3

POWERED BY
Matterport™



WHY STAGES?

STAGES is a professional platform for construction progress monitoring and cross-sector communication, providing easy access to building digital documentation.

Most important features:

- Facility Digital Twin Timeline & split-screen
- Cross-sector communication toolkit & reports
- Advanced collaboration & sharing options

FOR WHOM?

STAGES is dedicated to:

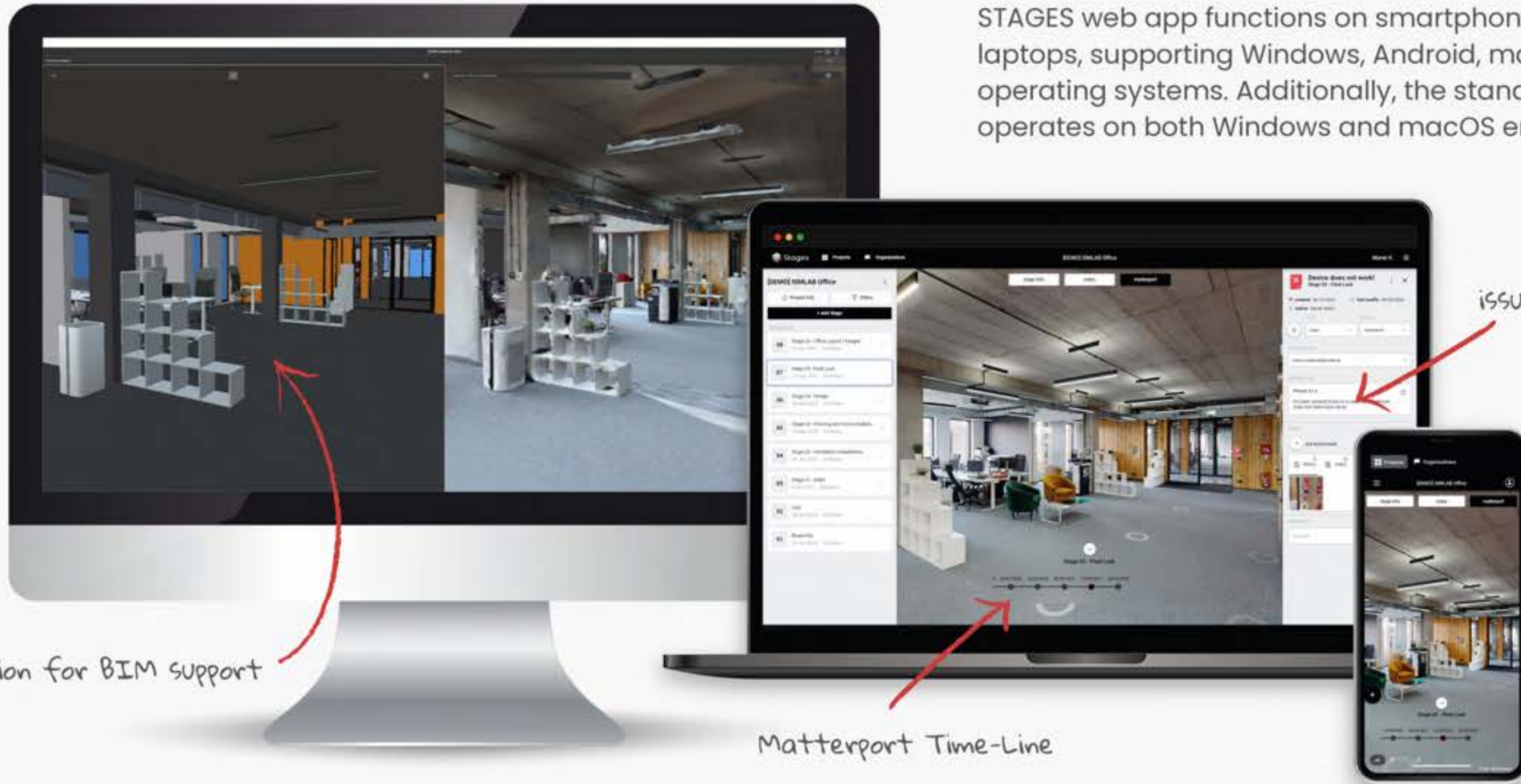
- building owners
- construction companies
- general contractors
- facility managers
- architects & interior designers
- insurance companies & banks



MULTIPLATFORM



STAGES web app functions on smartphones, tablets, and laptops, supporting Windows, Android, macOS, and iOS operating systems. Additionally, the standalone platform operates on both Windows and macOS environments.

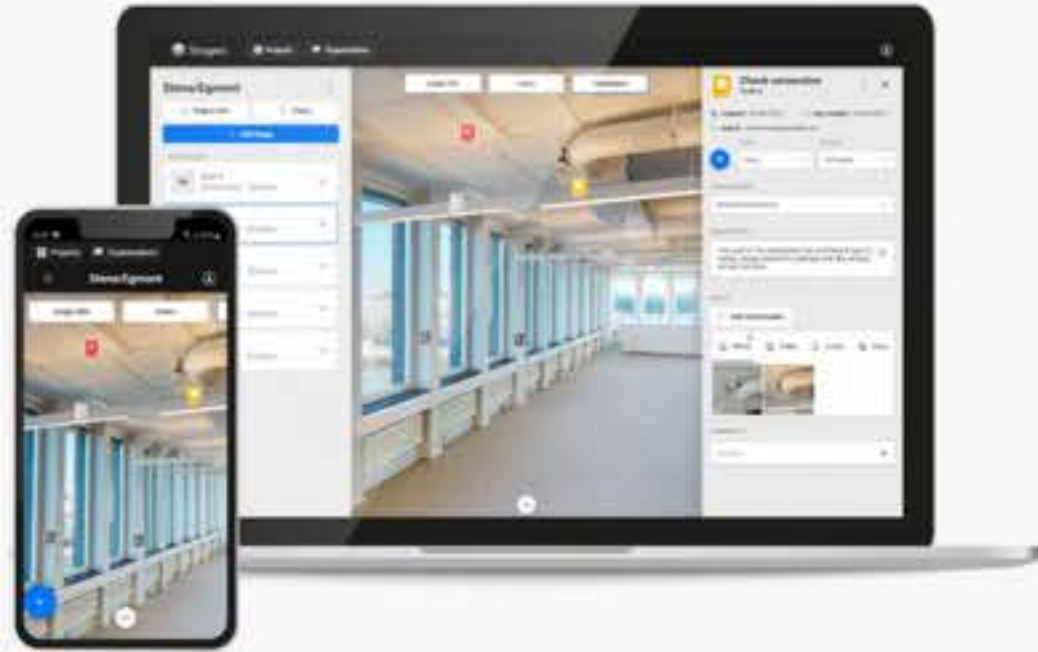


desktop version for BIM support

Matterport Time-Line

issue collaboration

SAME PROJECT, TWO SOLUTIONS, MANY POSSIBILITIES



Web platform

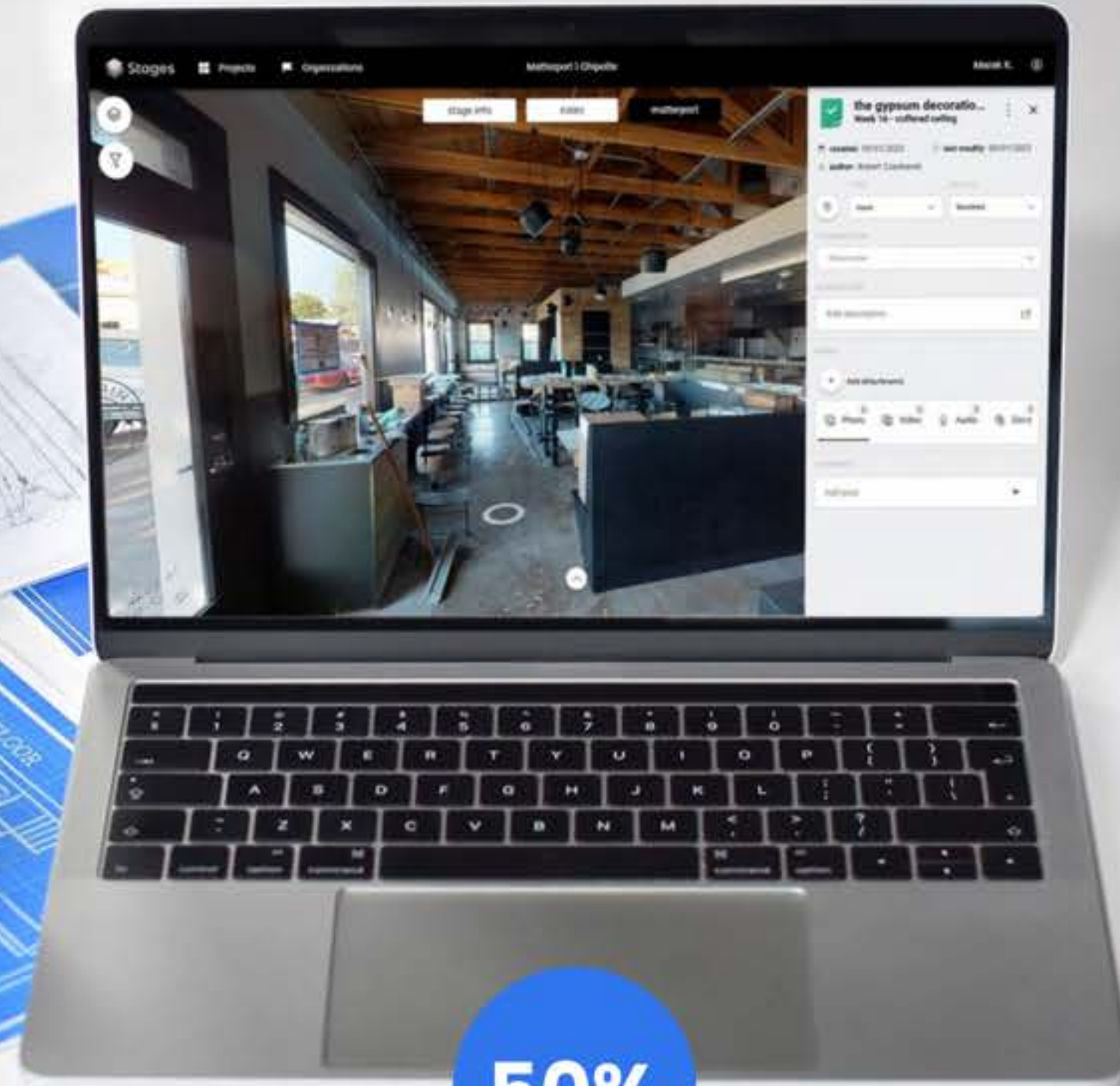
- A useful tool for communication and easy access to site documentation
- Dedicated to laptops and mobile devices
- Designed for construction site use
- Low hardware requirements
- Compatible with Matterport spaces



Desktop app

- Professional construction management platform
- Dedicated to desktop computers
- Designed for stand-alone, home, or office use
- Requires higher hardware specifications for a full range of advanced features
- Works with Matterport spaces, 2D plans, BIM and 3D geometry.

VALUES



70%

Greater efficiency and accuracy with Digital Twin documentation

50%

Time savings through remote collaboration reducing on-site visits

30%

Faster completion of projects through elimination of errors

USER GROUPS



Help your customers in construction and building management expanding Digital Twins with unique functionalities



Open up new opportunities for a wide range of customers who can make even better use of your scans, saving time, reducing risk and improving the quality of their work.



BUILDING OWNERS



Detailed building documentation on one, easy-to-use platform

Check how your investment is progressing without driving to the site. Get complex documentation with handover and use for further operation, or sale.

Access



Quick access to all stages of construction, securing all documentation in one place. Complex data overview via browser on both mobile and stationary devices.

Insight



Insight into layout of all installations in the building. Overview of multi Matterport 3D models, and comparison in split-screen mode.

Store



Insight into layout of all installations in the building. Overview of multi Matterport 3D models, and comparison in split-screen mode.



CONSTRUCTION TEAMS



Workflow enhancement with comprehensive digital toolkit

The entire team has an overview of the Digital Twin documentation. All stakeholders are kept up to date with the progress of the work, no matter how often they are on site.

Access



Easy reporting of work progress. Issue and task management with email notifications.

Report

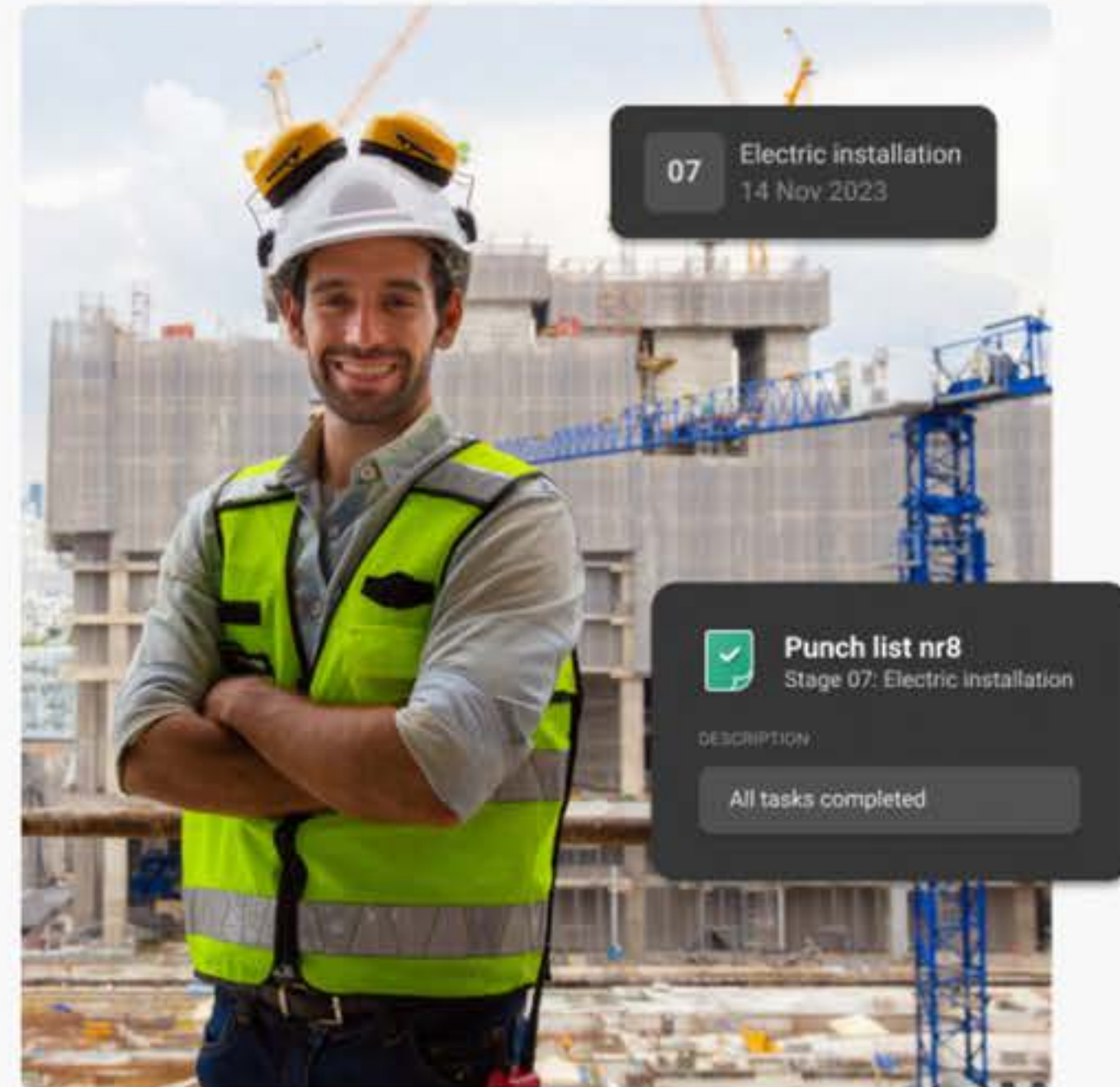


Easy sharing of projects with other teams. Showcase of work progress via public link.

Share



Quick access to all stages of building construction. Remote operations through the browser on mobile and desktop devices.



GENERAL CONTRACTORS



Comprehensive data repository for remote collaboration

Check how the construction project is progressing remotely. Work with AEC documentation, meet deadlines, react to errors, monitor compliance with the project.

Collaboration



Easy communication with subcontractors and collaborators. Issue and task management with e-mail notifications.

Multifunction

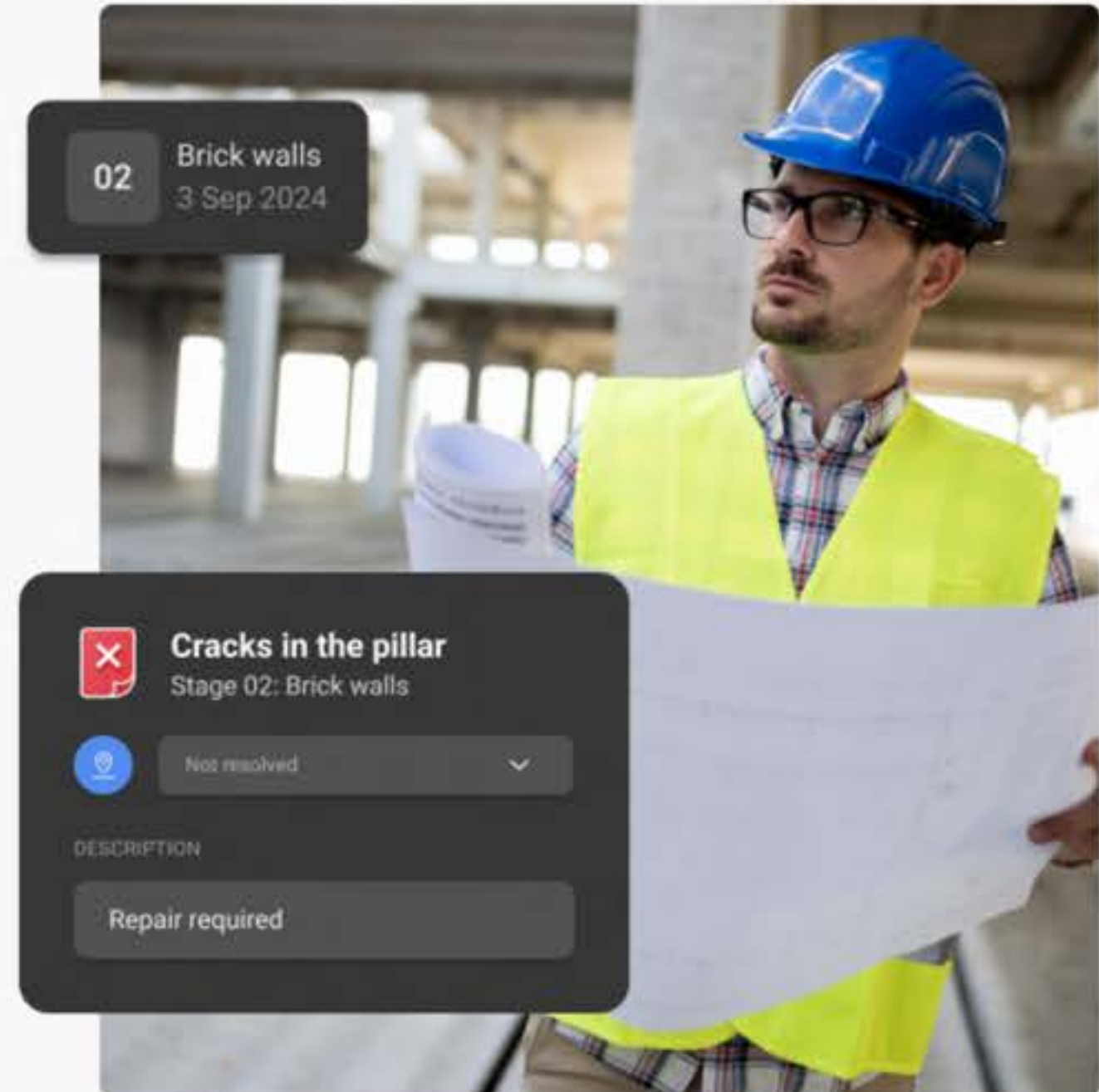


One platform to support multiple types of building representation: CAD & BIM, scans 360, 2D floorplans. Displaying all file formats simultaneously.

Communication



Collaborate effortlessly with construction teams and architects using our tools. Easily exchange information, take accurate notes, and share data through voice and video recordings to keep everyone aligned.



FACILITY MANAGERS



Instant access to detailed documentation within one solution

Access all data immediately through your browser. Gain instant access to construction documentation. Communicate with the contractor without having to travel to the construction site.

Access



Quick access to all stages of building construction, and assets related to infrastructure. Available via browser on mobile and desktop devices.

Security

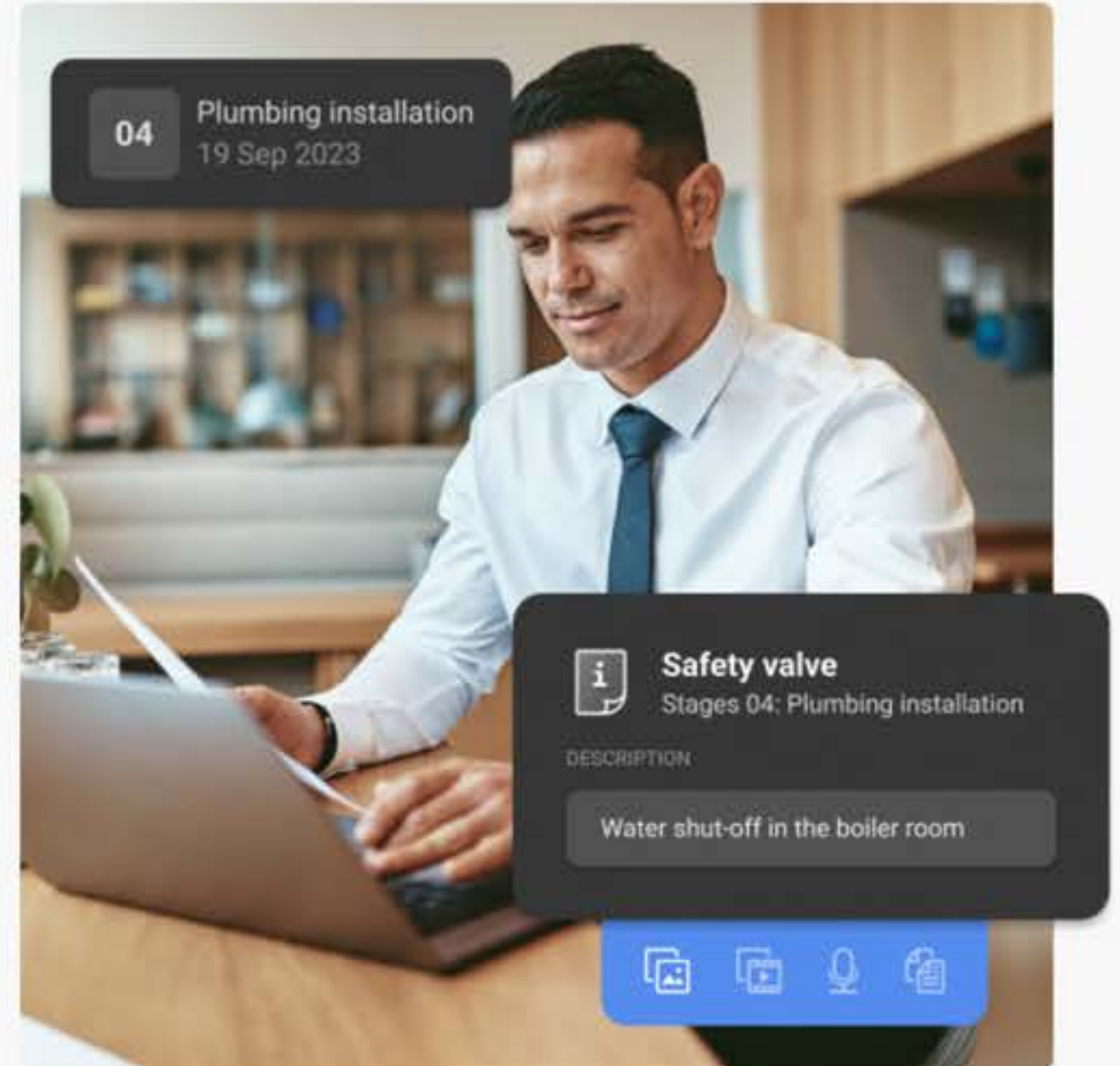


All data container for building structure documentation in one, secured place. Multi-level access permissions for safe facility maintenance.

Collaboration



Issue and task management with e-mail notifications. Toolkit for generating and sharing reports.



INSURANCE & BANKS



Detailed documentation on one, easy-to-use platform

Minimize discrepancies in damage claims and save time with accurate, updatable documentation.

Access



Obtain detailed property insights with a few clicks. Get instant access to accurate, digital inspections and documentation on any device with internet connection

Comparison



Split-screen mode for before vs after comparison of property's condition. Detection of unauthorized changes and modifications in building structure.

Documentation



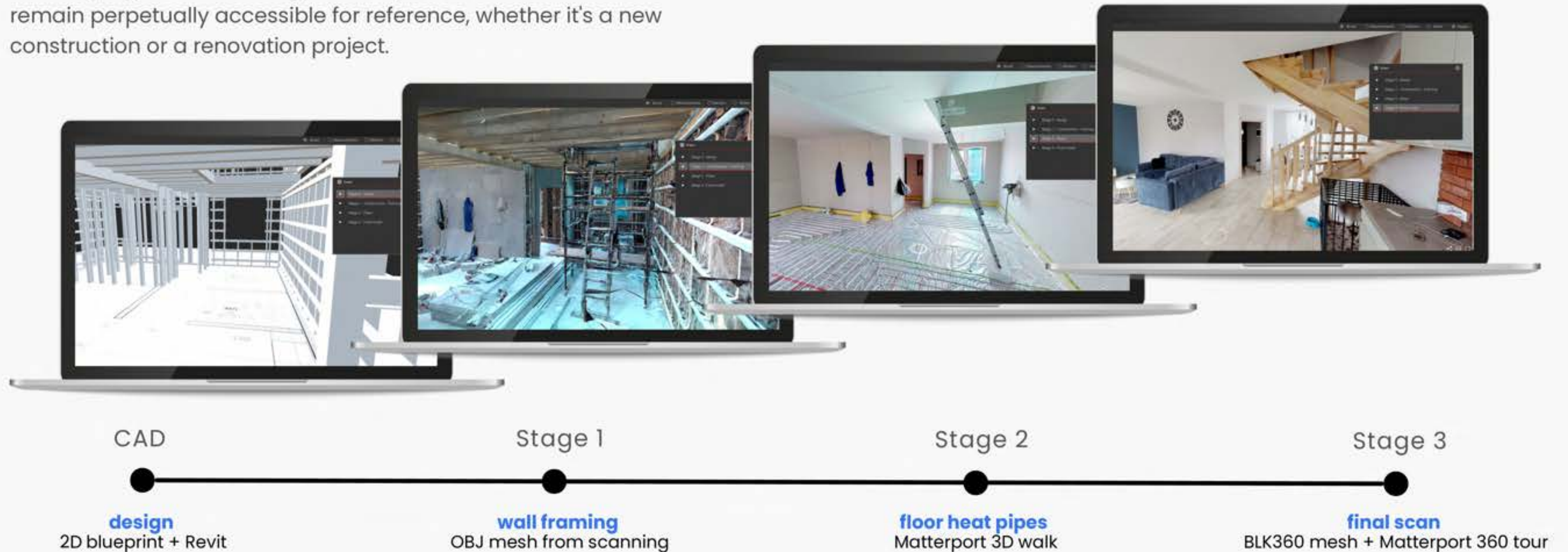
Precise documentation of damages, improving record accuracy during claim processing.



VIEW THROUGH STAGES



STAGES facilitates effortless viewing and comparison of sequential property scans, regardless of the frequency or interval. It enables remote progress monitoring from any location. Stored views remain perpetually accessible for reference, whether it's a new construction or a renovation project.



SPLIT SCREEN



Introducing an innovative side-by-side split view that revolutionizes comparisons:






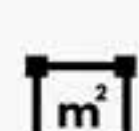
- seamlessly align as-built Matterport scans with as-designed BIM data using groundbreaking spatial navigation
- align 2D plans, 3D formats, and Matterport models with the project timeline for comprehensive analysis

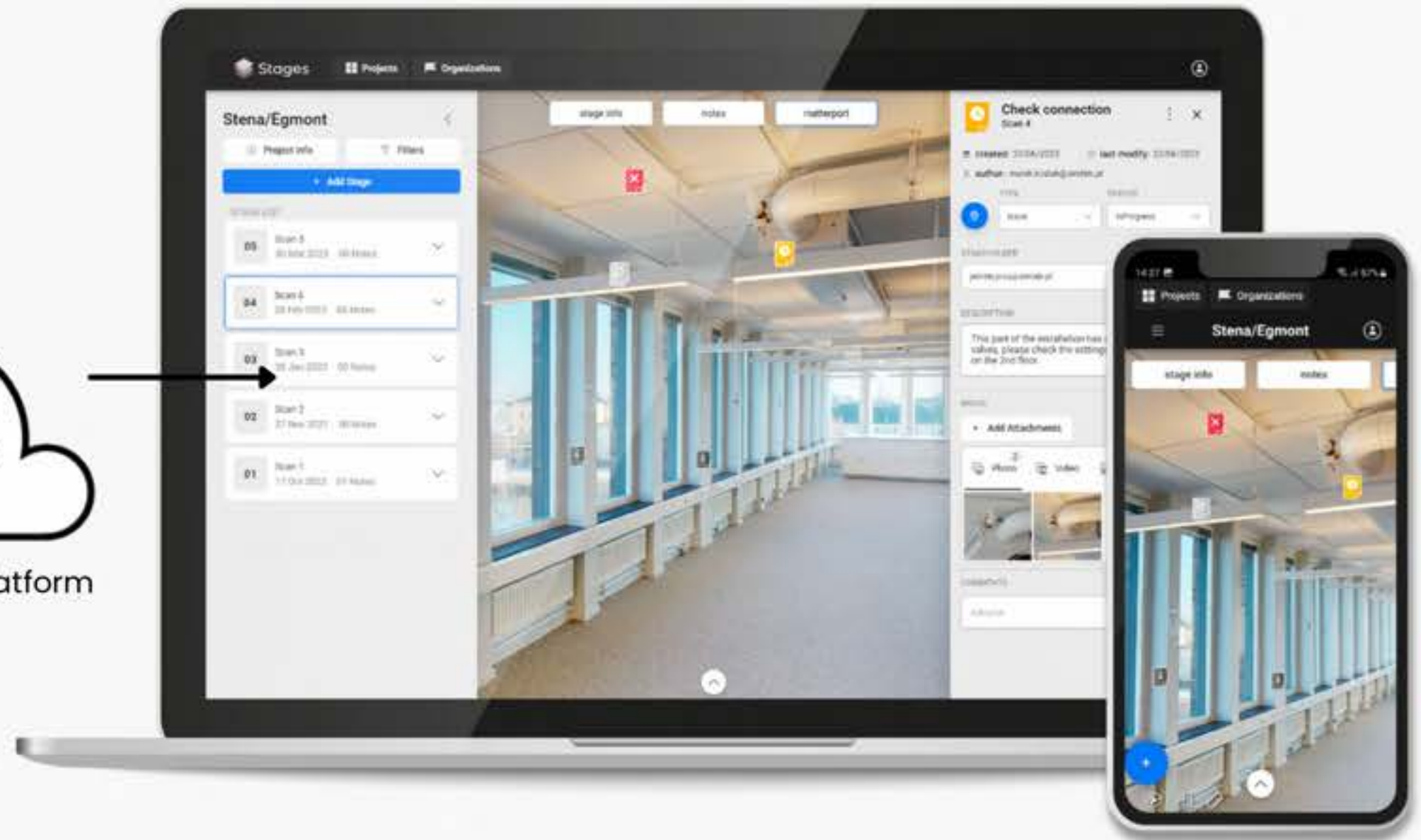
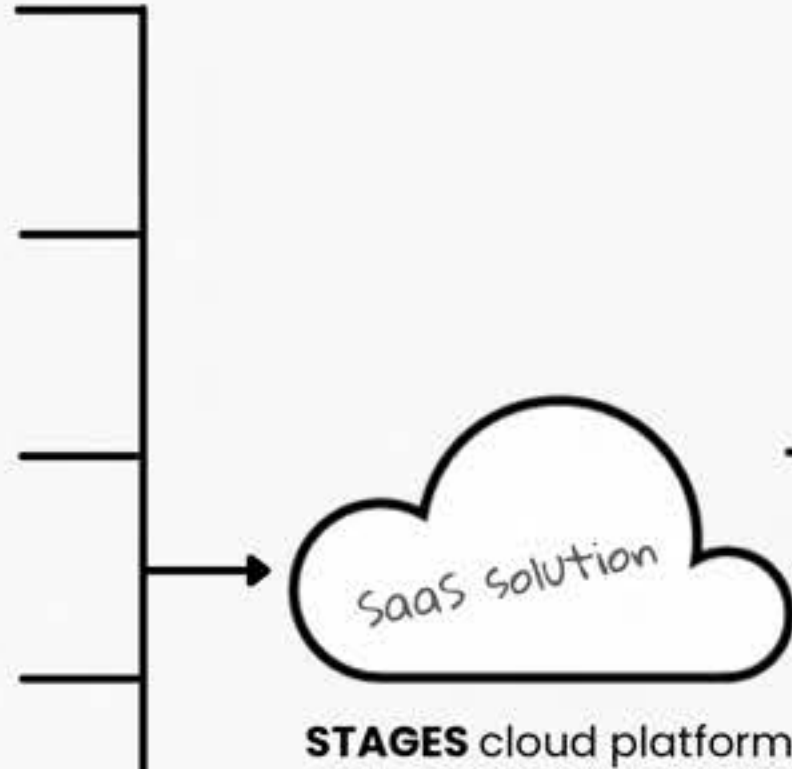


COLLABORATION TOOLKIT



Single source of data, common use interface

-  **Videos**
-  **Brush Notes**
-  **Audio Notes**
-  **Docs**
-  **Picture Notes**
-  **Area Measurement**




BUILDING LIFE-CYCLE SUPPORT



Tracking changes via Matterport 3D scans
Intuitive issue management & collaboration system

Issue markers:

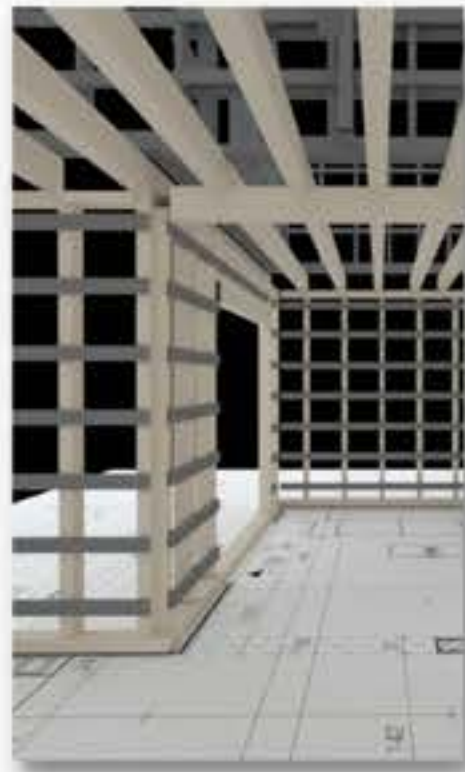
 Information

 Pending issue

 In progress

 Unresolved issue

 Resolved issue



CAD

Architect design



Stage 1

week_4
construction walls



Stage 2

week_9
electric installation



Stage 3

week_12
floor heating



Stage 4

week_14
floor tiles,
ready for paint



Stage 5

week_17
ready for moving in

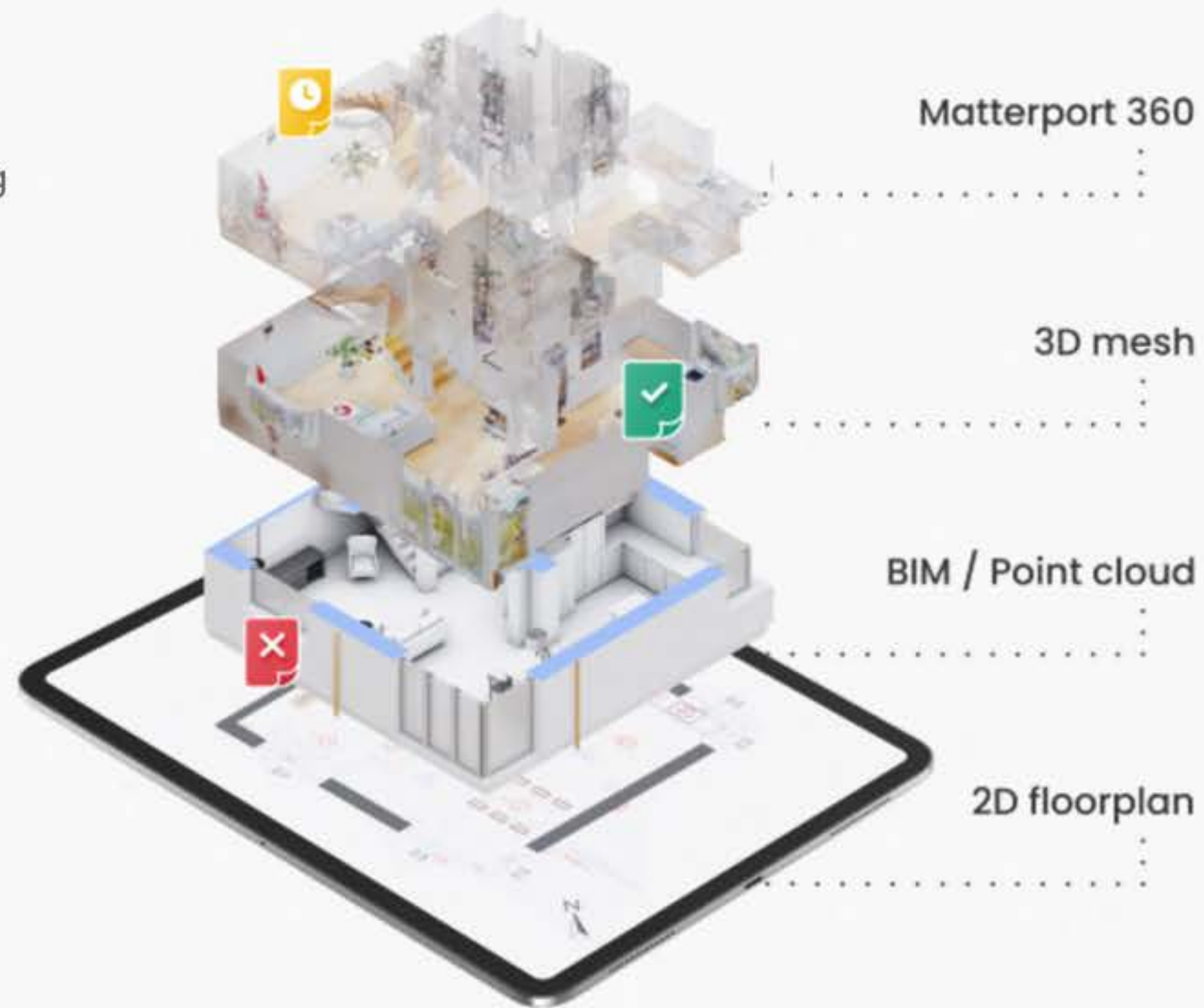
COMBINES SCANS & MODELS



STAGES desktop version enables simultaneous viewing of 2D PDF plans, 2D CAD plans, and/or 3D BIM models alongside the scan stage. This feature empowers the control, tracking, and resolution of discrepancies between plans and actual field conditions.

Supported formats:

- .IFC BIM models
- .PDF blueprints
- .OBJ Matterport scans
- .FBX 3D models
- .XYZ point cloud
- .E57 point cloud
- Matterport 360

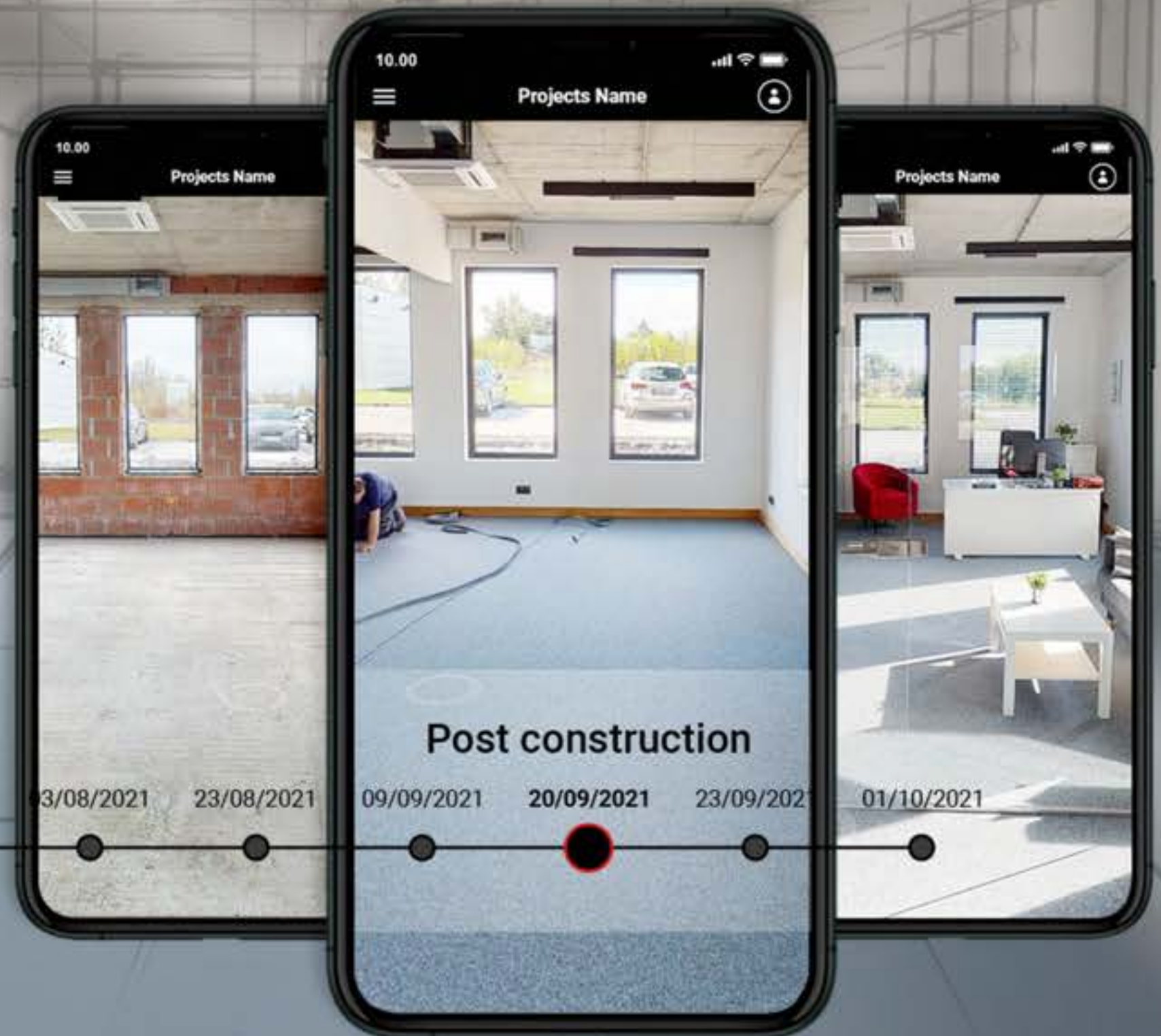


SPATIAL INNOVATION

Using the highest quality Digital Twin technology lifts our product to a whole new level. Implementation of Matterport 3D scans is the key to an innovative concept that integrates timeline and communication features with spatial visualization.



11/06/2021 03/08/2021 23/08/2021 09/09/2021 20/09/2021 23/09/2021 01/10/2021



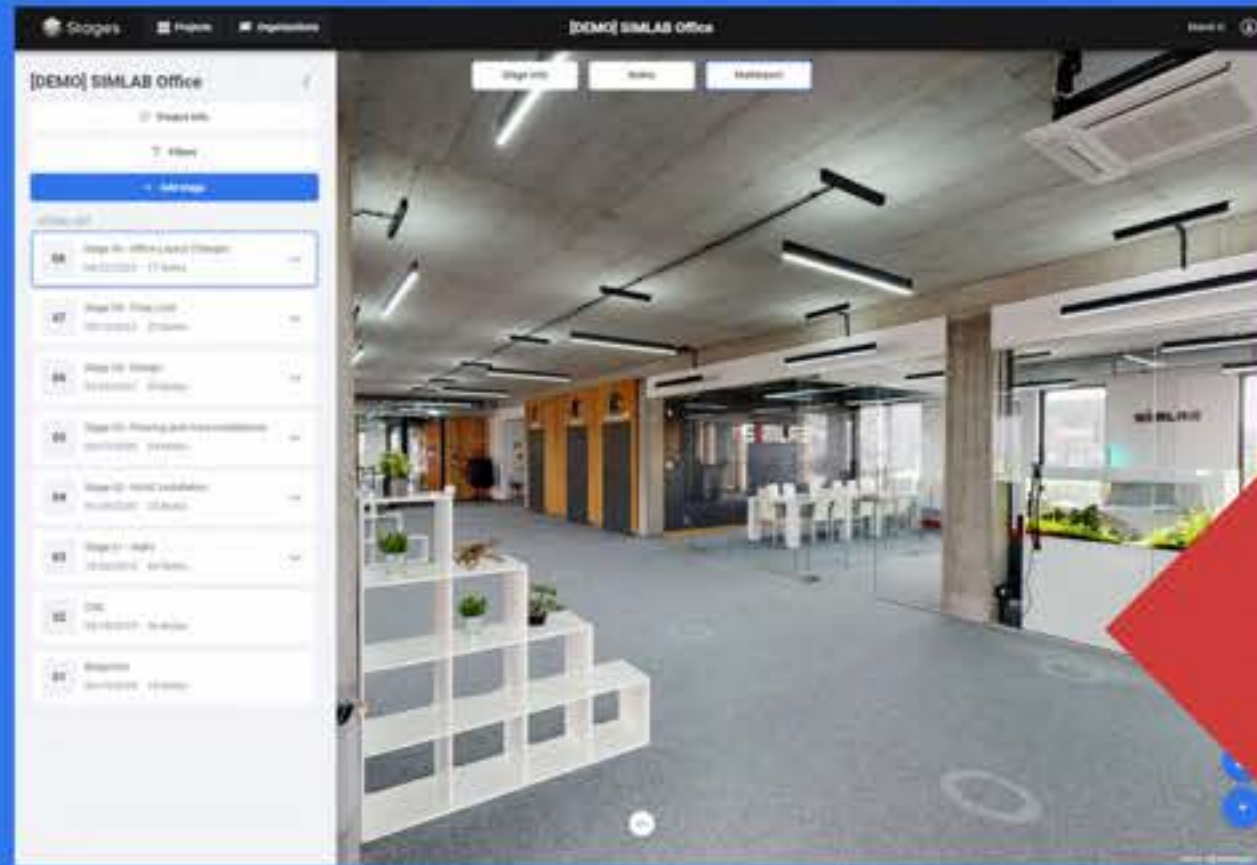
SUPPORT FOR THE FULL LIFE CYCLE OF A BUILDING



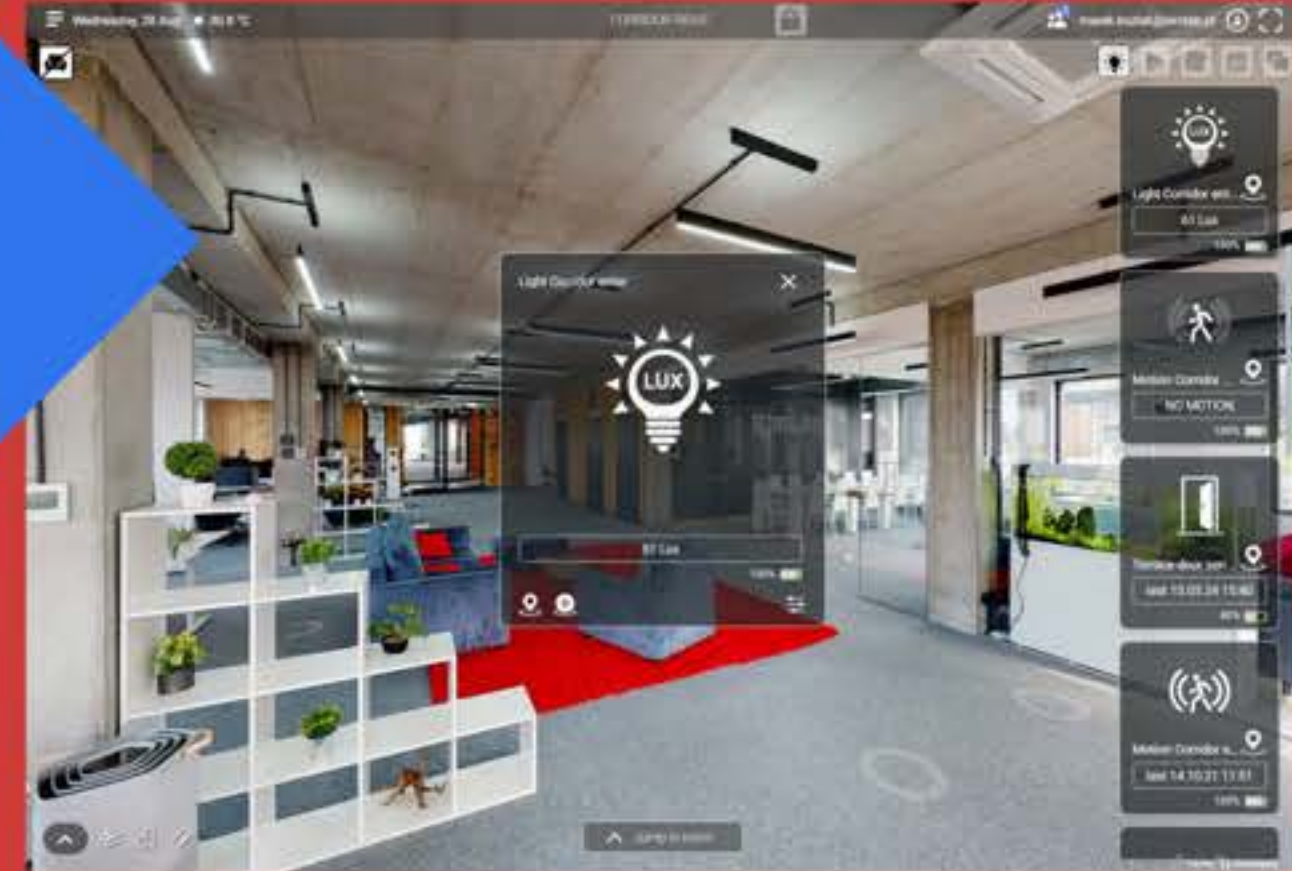
The last scan in STAGES after completion is used to set up the project in the SIM-ON facility management application.



The notes contained in STAGES with the equipment data are imported for review during maintenance of the facility.



When renovating or rebuilding, STAGES gives access to visual documentation at every relevant stage.



Comprehensive documentation and data repository will come in handy for marketing in support of sales.

simon

CONTROL OF IOT SYSTEMS
AND PROPERTY MANAGEMENT IN
THE DIGITAL TWIN ENVIRONMENT

CREATED BY

SIMLAE

POWERED BY

Matterport™



WHY SIM-ON?

SIM-ON multi-platform: revolutionizing home and facility management. Our digital twin solution harnesses Matterport 3D panoramas to create a spatial interface encompassing:

- seamless IoT and home automation control
- streamlined assets management
- effortless scheduling and maintenance operations

FOR WHOM?

Comprehensive tool tailored for a diverse range of users:

- real estate developers
- property owners
- hospitality sector stakeholders
- facility managers
- IoT hardware suppliers
- real estate & insurance professionals



POWERED BY



USER GROUPS

Help your customers in building management expanding Digital Twins with unique functionalities

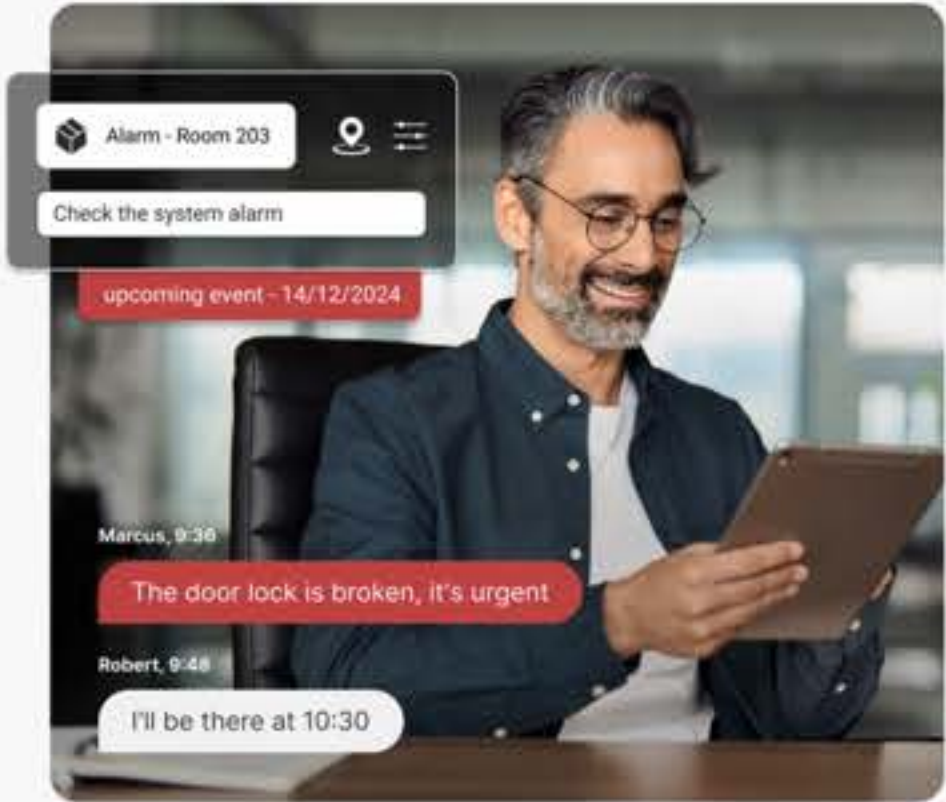
Open up new opportunities for a wide range of customers who can make even better use of your scans, saving time, reducing risk and improving the quality of their work.

For profession:

- Building owners
- Facility managers
- IoT hardware suppliers
- Real estate agents

For industry:

- Commercial real estate
- Residential real estate
- Hospitality
- Public sector



VALUES

Digital Twin 3D interface



A virtual format of entire facility, easy to locate areas of interest, and monitor equipment in real-time. Quickly accessible via a browser.

One complex ecosystem



One tool to manage three key areas of operation: IoT control, Asset Management, and Facility Management. No more jumping between apps.

Easy IoT management



Integration of Digital Twin with building automation multiple standards. Real and accurate location of IoT devices in 3D environment.



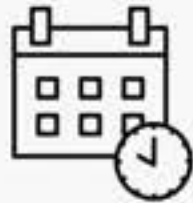
ADVANCED FACILITY OPERATING SYSTEM



IOT CONTROL



**ASSETS
MANAGEMENT**



**SCHEDULE &
MAINTENANCE**



**TASK MANAGER
TOOLKIT**

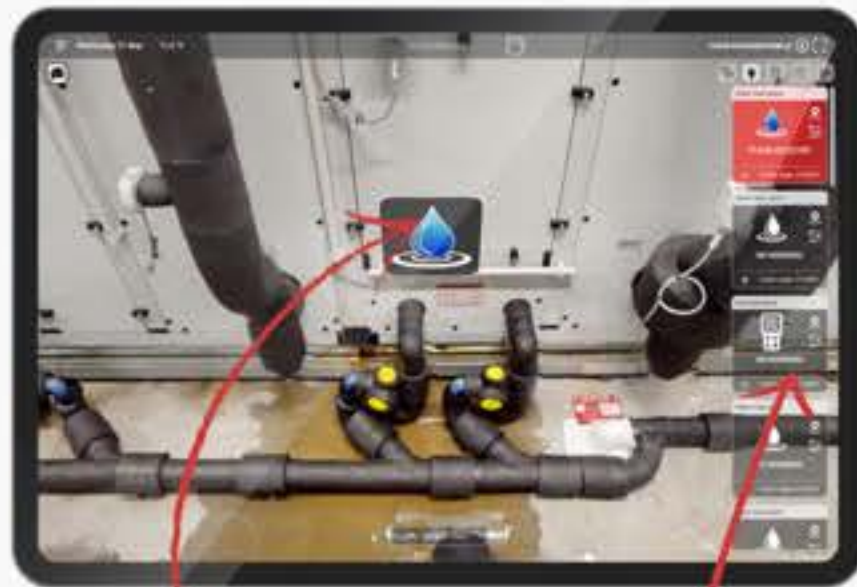


3D DIGITAL TWIN



**WEB ACCESS
ON ALL DEVICES**

ADVANCED FACILITY OPERATING SYSTEM



Sensor activity visualization

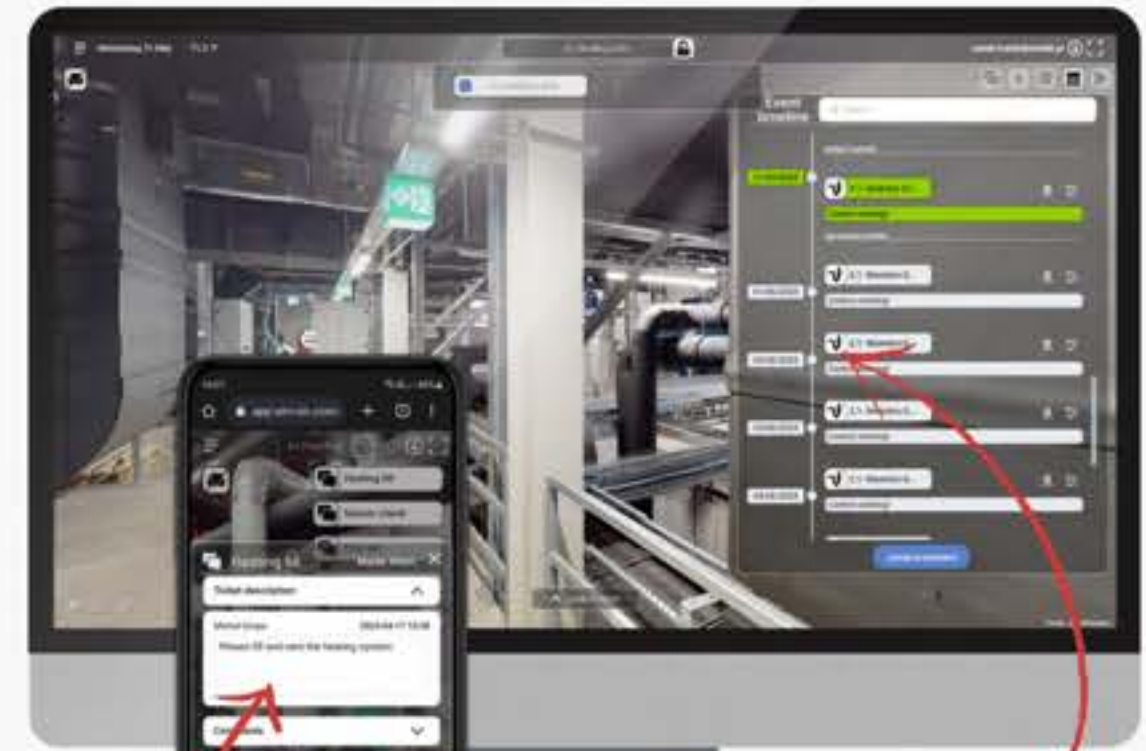
IoT control widgets

All asset information

Customized assets category



Tasks manager, status report



Maintenance events timeline



IOT CONTROL

- **Centralized synchronization** of multiple vendors
- **Hardware interoperability** for automation scenes
- **Intuitive 3D interface** with 2D dashboard option
- **Visual representation** of device activity and settings
- **Customizable displayed information**
- **Diverse access levels** within user groups
- **Secure and user-friendly access** to device data

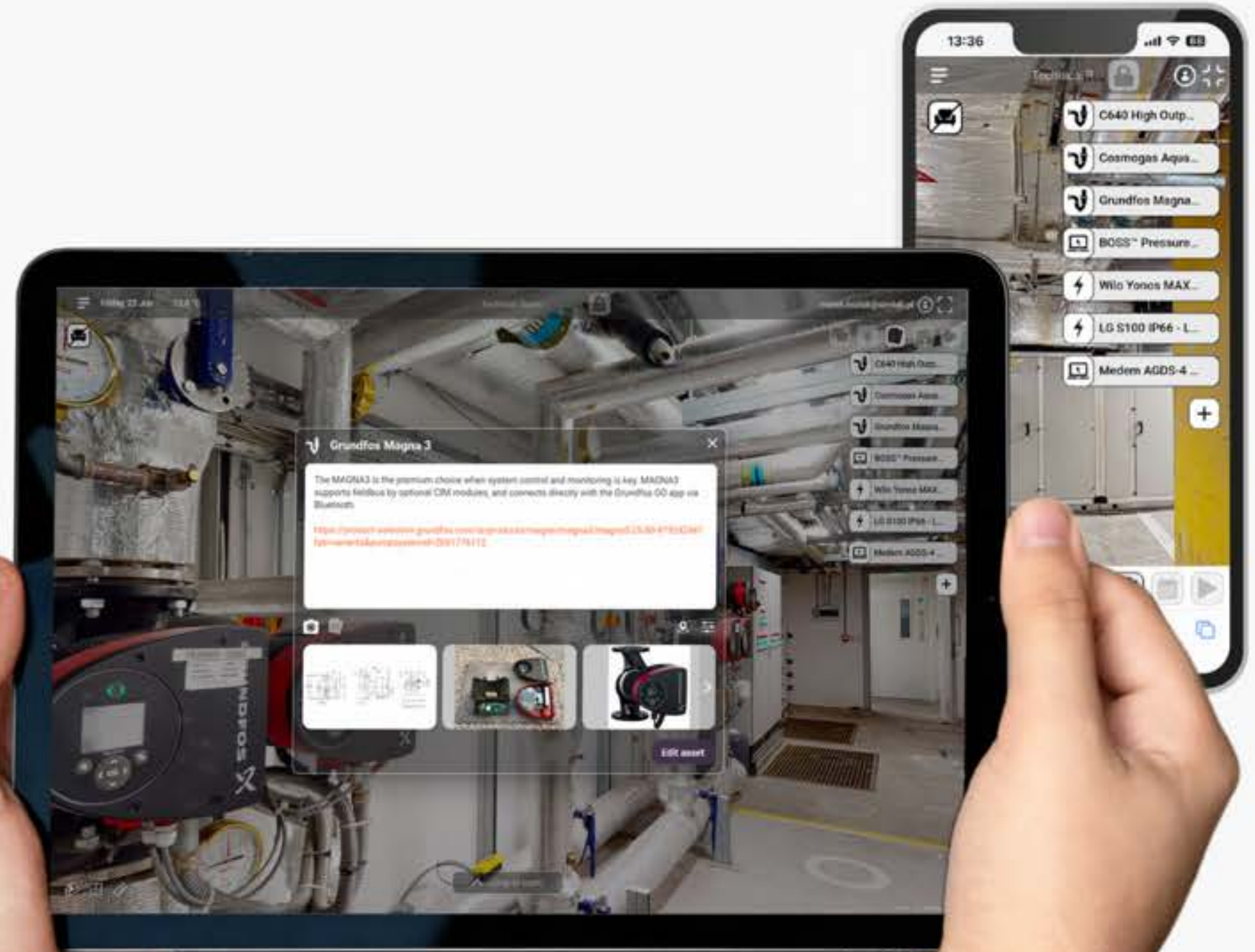


A single platform for centralized control for all vendors

ASSETS MANAGEMENT



- Accurate **device mapping** in physical space
- **Centralized collection** of equipment, or material data
- **Incorporation** of photos, videos, & documents for assets
- **Category filters** for user-friendly sorting

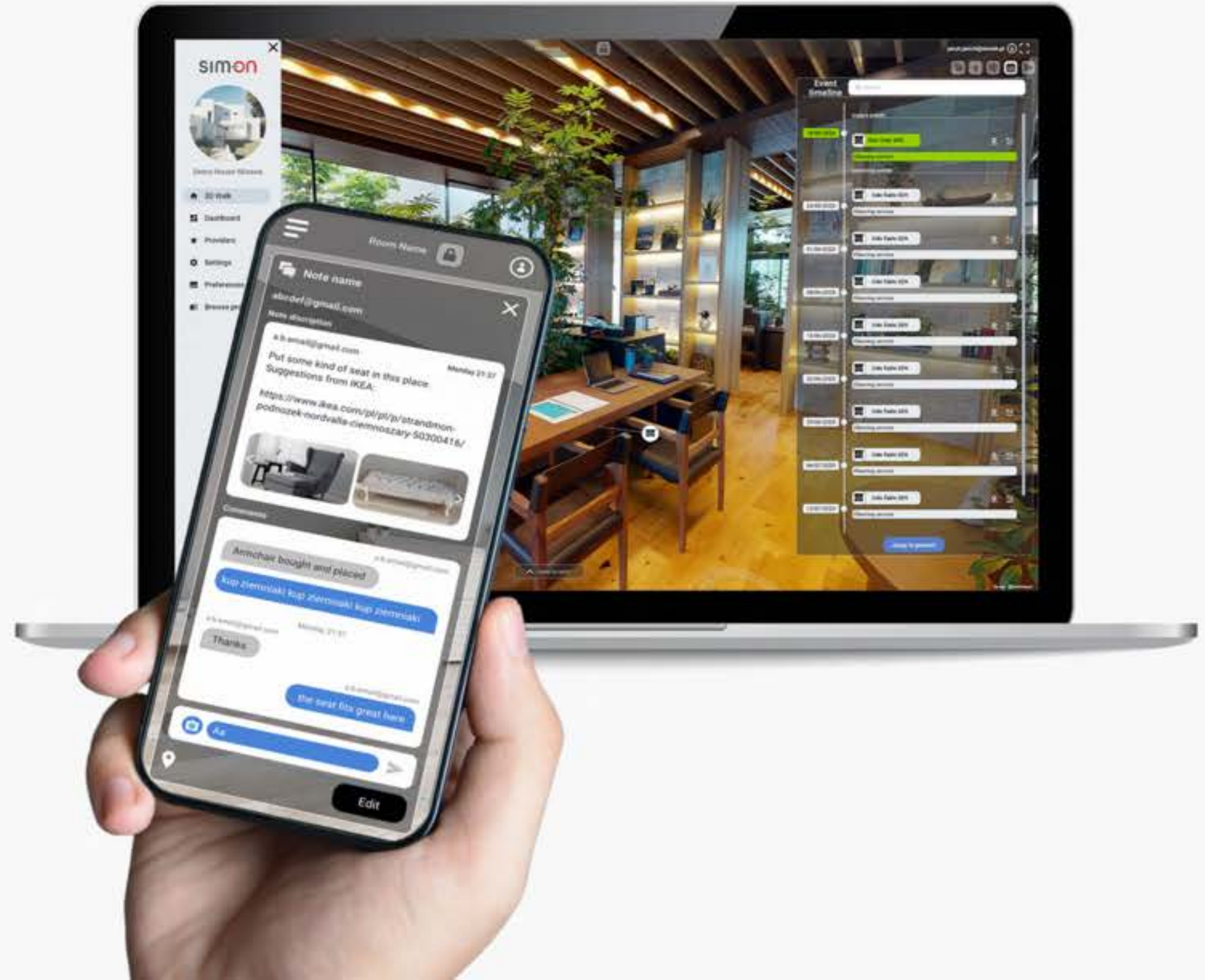


All data stored in a single container.

FACILITY MANAGEMENT



- Plan and oversee **facility maintenance** tasks
- Navigate facility **inspections in 3D**
- Create personalized **event timeline** schedule
- Link to preferred **news and widgets**
- Utilize **task manager** for note-sharing, issue reporting, and problem-solving.



Streamlined resolution of tasks and issues with a single tool.

ALL BUILDING DATA CONTAINER

Online 3D model visualization serves as the comprehensive information hub for all data associated with a given physical space.



Control of IoT electronic

Issue report

Storage of asset information

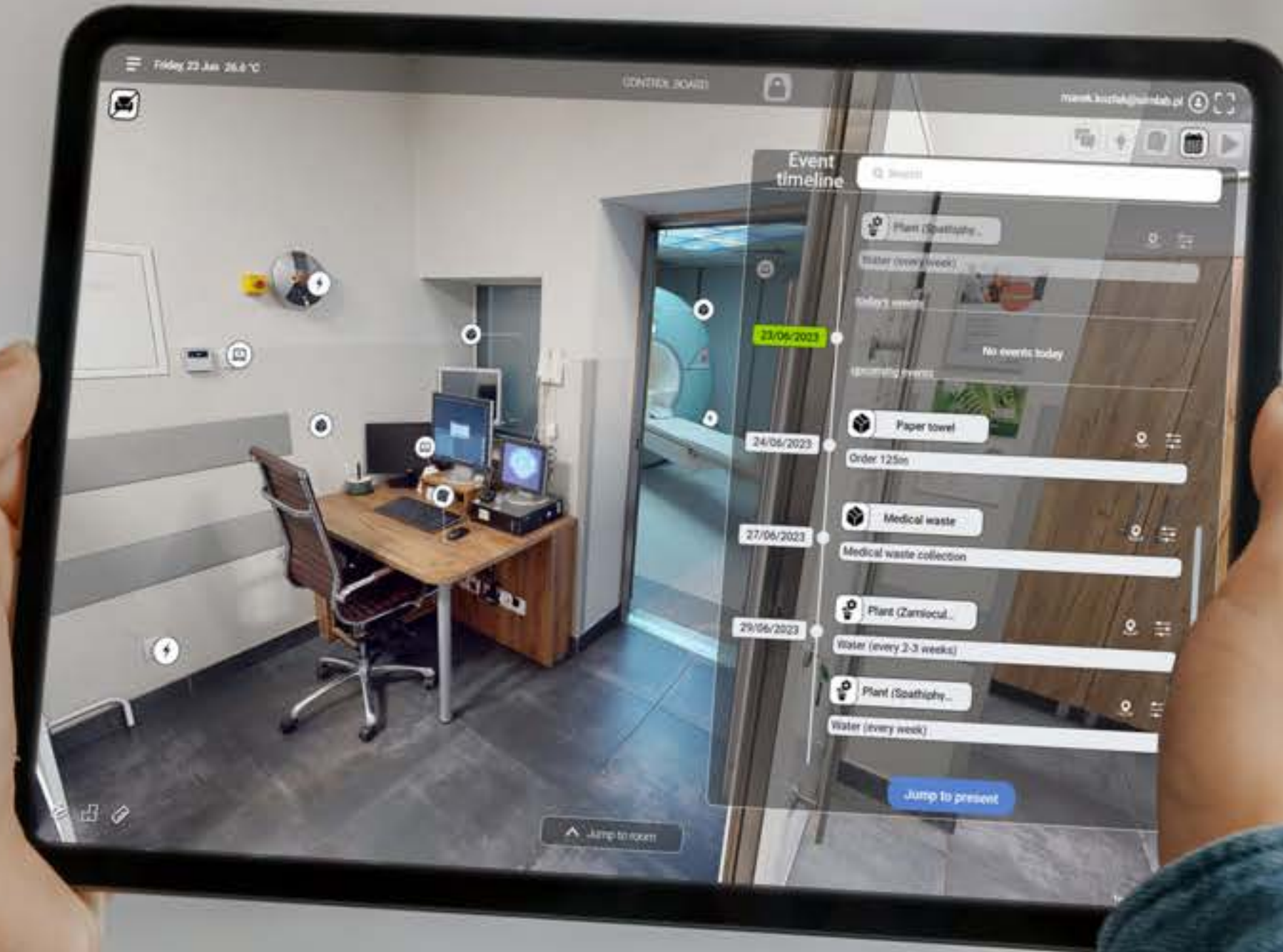
MULTIPLATFORM

SIM-ON operates through web browsers on a variety of devices, including smartphones, tablets, laptops, and desktops. It supports multiple operating systems such as: Windows, Android, macOS, and iOS.



sim-on

SPATIAL INNOVATION

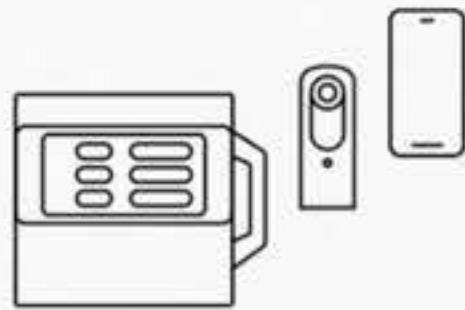


Leveraging top-tier digital twin technology elevates our product to an entirely new realm. The integration of Matterport 3D scans forms the cornerstone of our innovative approach, merging the 2D dashboard interface with spatial visualization.

FROM SCAN TO 3D BUILDING CONTROL PLATFORM



1



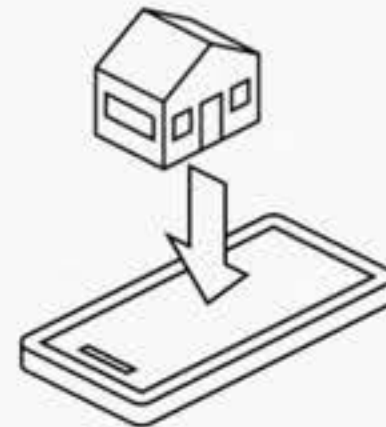
Scan your space

2



Register account

3



Add your scan

4



Get connected

INTEGRATION GAME CHANGER

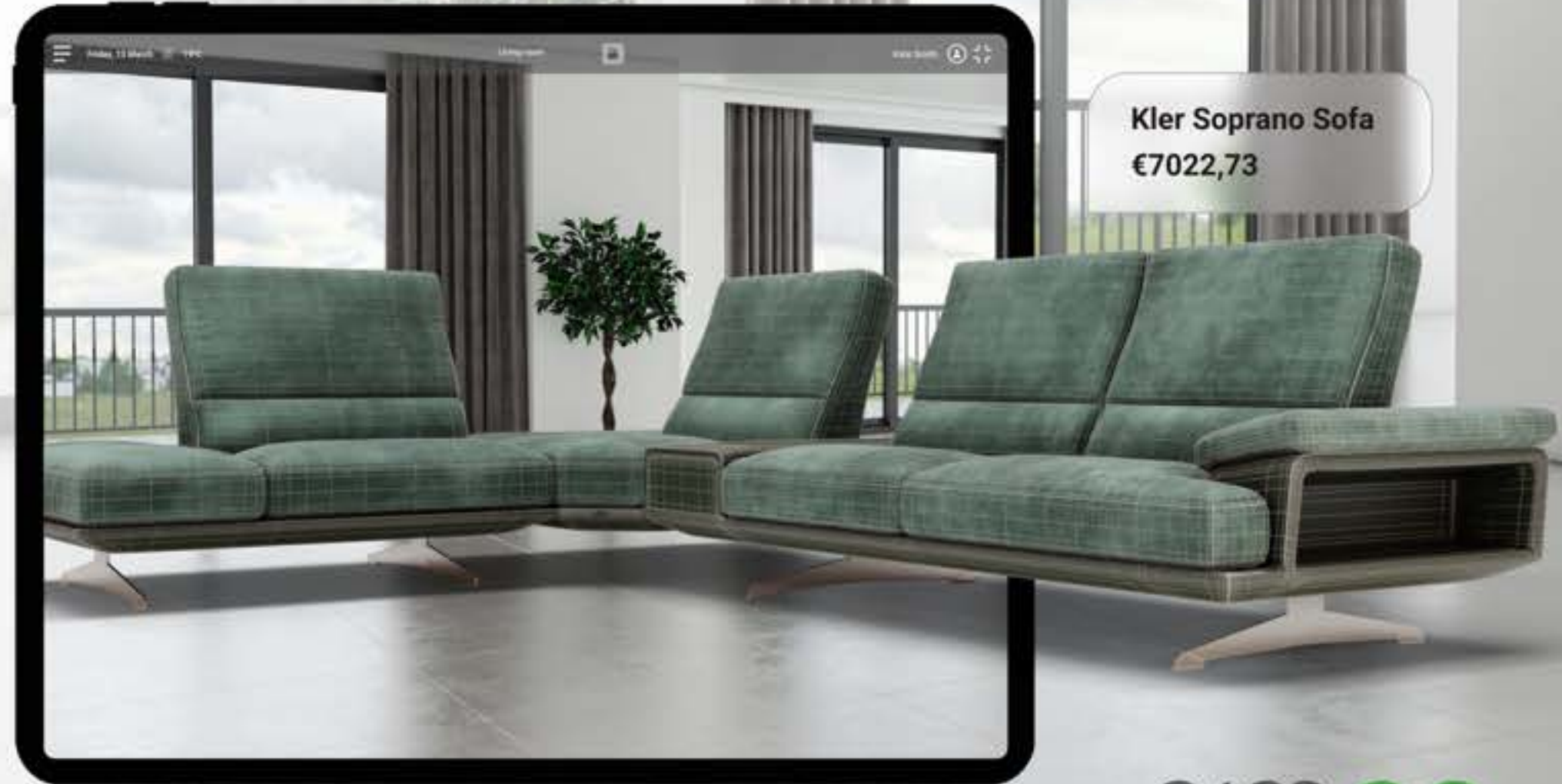
Revolutionizing wired and professional home automation installations: introducing a unified communication System built on the global **KNX** standard. The bridge connection operates via **Schneider Electric's** logic controller "Wiser for KNX."

SIM-ON transforms hardware competitors into software collaborators, fostering unprecedented synergy!



FUTURE GOALS

- Live **position monitoring**
- **E-commerce** integration
- **Augmented Reality**: Unparalleled Immersive Journey
- Diverse IoT device **standards integration**
- Integrations with **asset databases** and **pro FM systems**
- Secure **desktop version**





SIM-STAGES.COM



SIM-ON.COM

CREATED BY



SIMLABINC.COM