CitA | TECHLIVE 2026
Intelligence, Integration and Transformation



Dexcom Stadium, Galway,
12th November 2026

HITECHNIQUES



Shaping the Future of Construction

Oliver Murray
Matterport

Reality Capture:
Connecting the Physical and Digital Built Environment



Who am I?

A designer, photographer, innovator & trainer.

Over 25 years in photography and immersive technology.

Today I specialise in Matterport reality capture, developing practical accessories, delivering certified training and supporting adoption through Hitechniques.





Who do I work for?

UISCE ÉIREANN : IRISH WATER
APACHE PIZZA
savills
KNOTEL
ck Calvin Klein
iadt DUN LAOGHAIRE
TOMMY HILFIGER
RNLI Lifeboats
NIDO Student
CUSHMAN & WAKEFIELD
Bank of Ireland
Foot Locker, Inc.
Collins Aerospace
REISS
bennett
Aer Lingus
docusign
BIOMARIN
AUTODESK
Iarnród Éireann Irish Rail
Square
wework
JR Rhatigan J.J. Rhatigan & Company
amazon
Abbott
kipling
GSA GAIETY SCHOOL OF ACTING
coffey
airbnb



What is Matterport?

A building you can explore from anywhere.

Matterport combines 360° HDR photography, spatial measurements and 3D data to create an immersive, navigable digital record of a real-world environment.





What is Matterport?





How does it work?

One capture. Multiple outputs.

A LiDAR-enabled camera captures geometry and photographic information, creating a spatially aligned model from which visual, measurement and point-cloud information can be accessed.

Share the visual walk through with a URL.





Who uses Matterport?

Anyone who needs to understand a space.

Architects, engineers, surveyors, contractors, facilities managers and asset owners use reality capture for planning, inspections, condition records, collaboration and ongoing asset management.




Matterport
7e6xwisrr83k5bztp4ugcuqdd copy

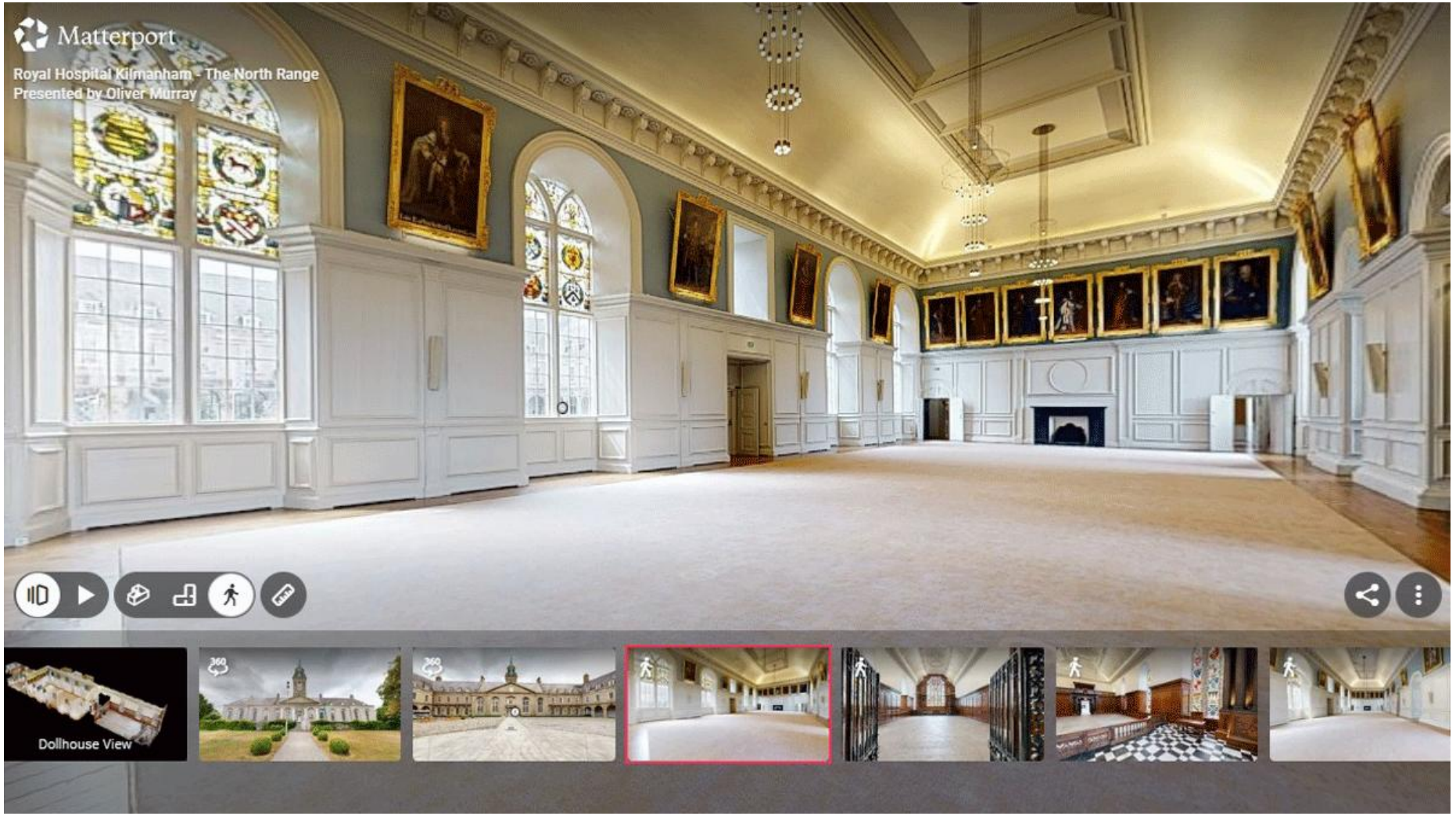




Reality Capture: Connecting the Physical and Digital Built Environment

Matterport





Reality Capture: Connecting the Physical and Digital Built Environment

Matterport



Why capture a building?

Because buildings change and evidence matters.

Document existing conditions, monitor progress, record completed works and preserve a visual reference for future inspections, alterations and disputes.



JJ Rhatigan
Building Contractors

St Finian's College Mullingar
Refurbishment Project
Matterport Capture
1400+ sweeps
Interior & Exterior
Proof of condition
E57 Point Cloud - Revit

Matterport®





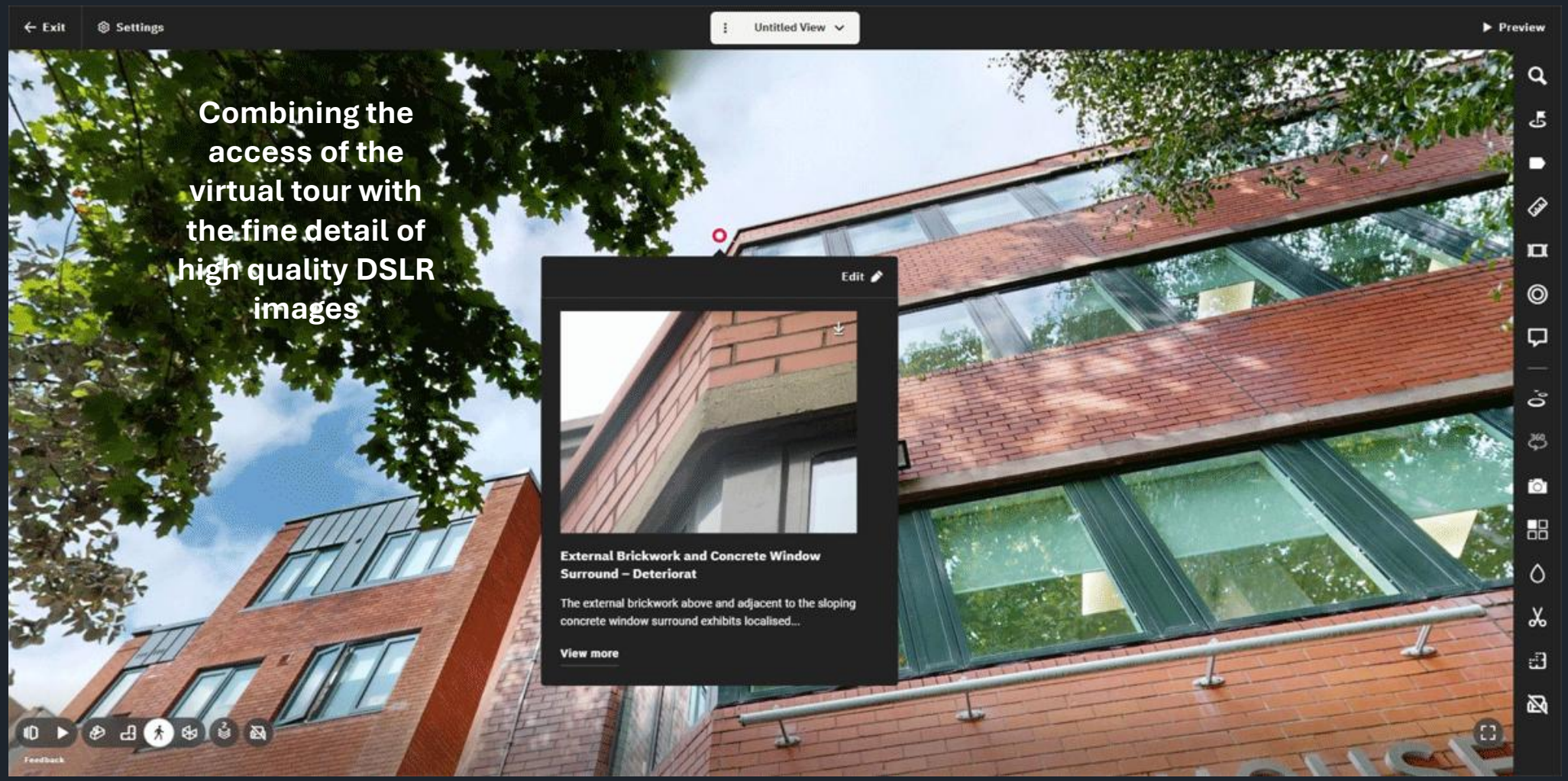
East Wall Road Dublin

9 apartment & 2 duplex blocks
554 build to rent apartments

Matterport Capture of each unit prior to delivers as proof of condition

Result: eliminated disputes




Exit
Settings
Untitled View
Preview
Combining the access of the virtual tour with the fine detail of high quality DSLR images
Edit
External Brickwork and Concrete Window Surround – Deteriorat
The external brickwork above and adjacent to the sloping concrete window surround exhibits localised...
View more
Feedback



How do you share Matterport?

A link, a browser, you're there.

Share a digital model with authorised stakeholders on a computer, tablet or phone.

Explore spaces remotely without specialist software or a physical site visit.

The ultimate in accessibility for all stakeholders.



Can you do more than look?

Measure it. Mark it. Discuss it.

Take measurements, identify assets, add information tags and link supporting documents — all within the spatial context of the building.

Every piece of information is connected to its physical location, making it easier to understand, interpret and communicate.



Can I download the data?

It's more than a virtual tour.

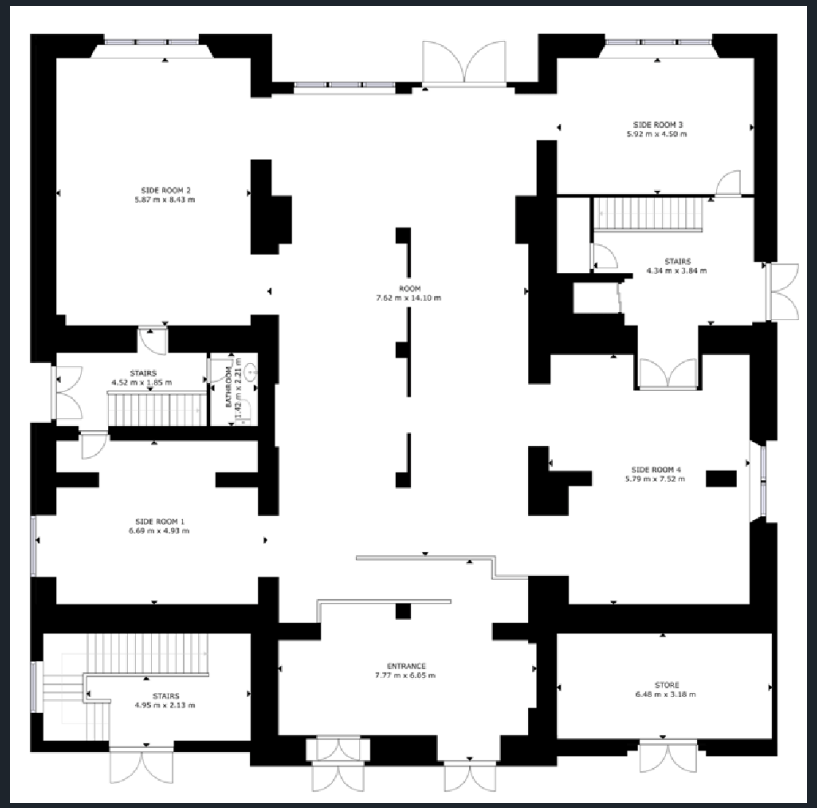
Extract:

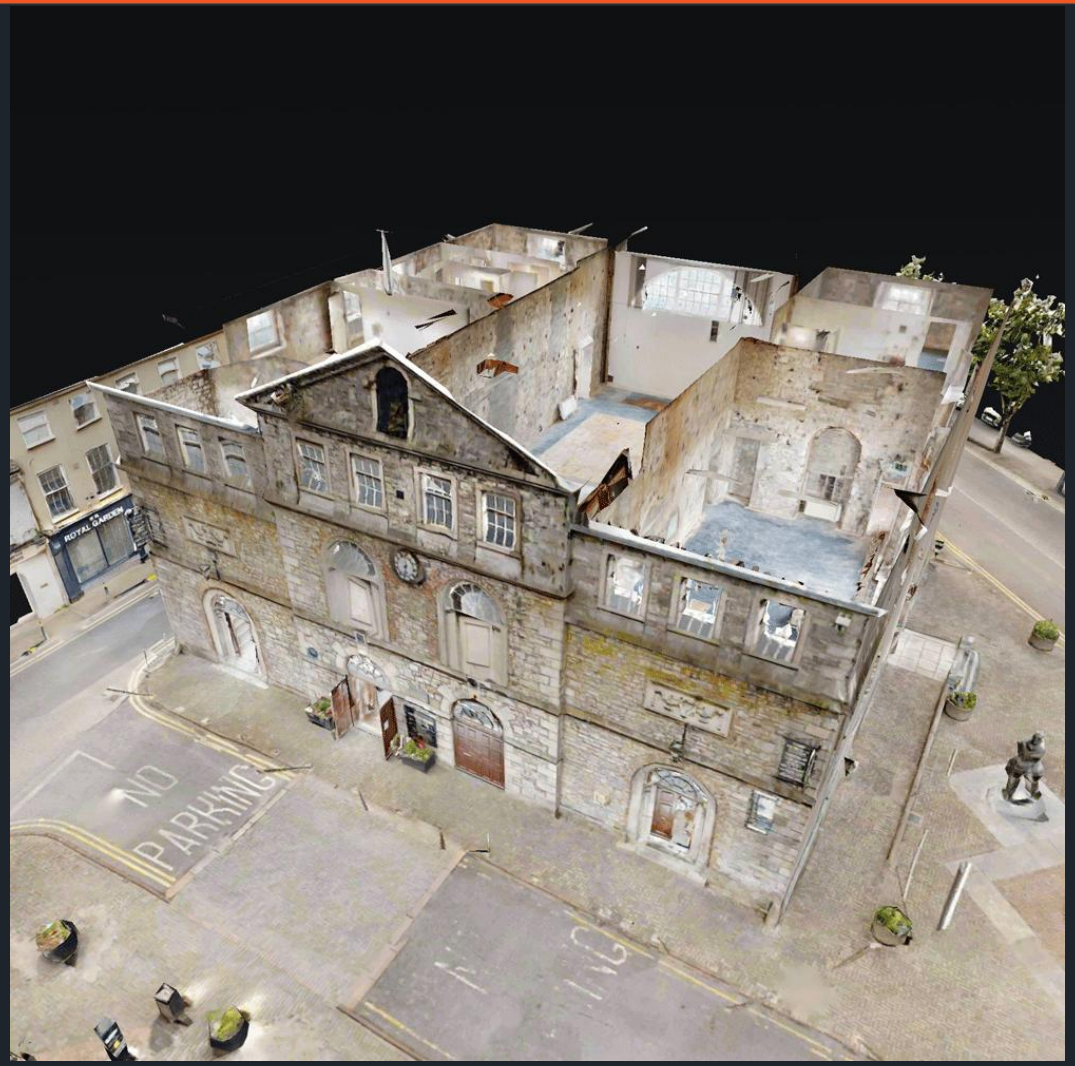
- HDR imagery
- floor plans
- point clouds
- mesh files
- E57
- CAD
- BIM

Help connect reality capture with existing design and engineering workflows



Can I download the data?

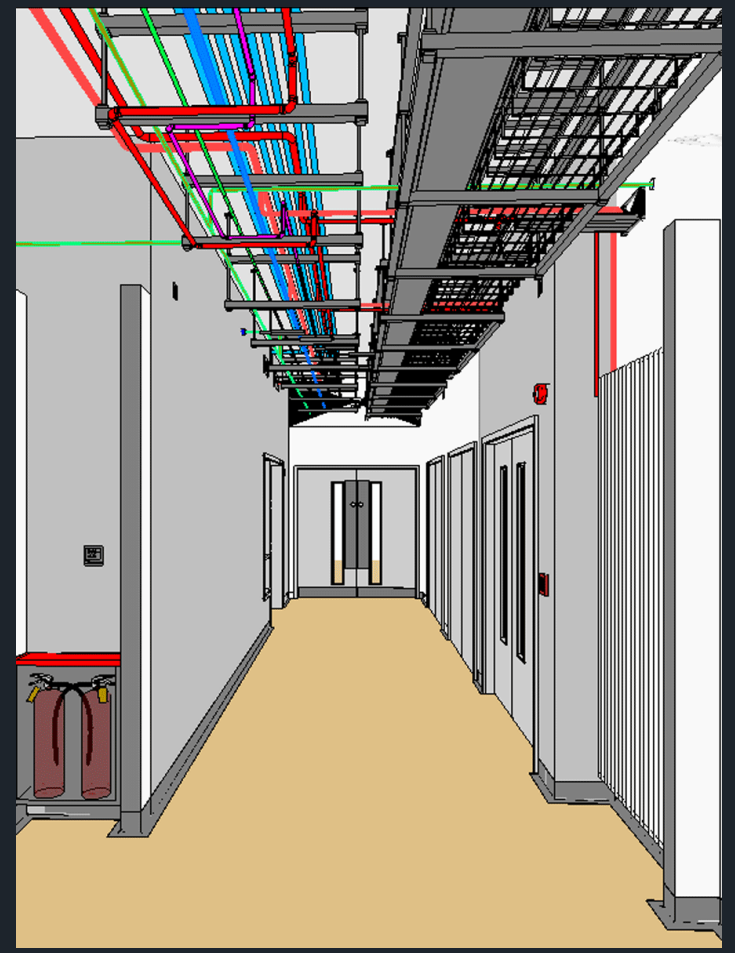







FIRE
POINT
TARFLEX







What else is possible?

Connect the physical with the digital.

Integrate captured environments with asset information, BIM, facilities management and inspection workflows.

Platforms such as **Procore and Autodesk Forma** can incorporate reality capture information into wider construction and design workflows, connecting physical spaces with digital project data to support better collaboration and informed decision-making.

Matterport is now integrated with these platforms.

AUTODESK Forma

PROCORE

AUTODESK CONSTRUCTION CLOUD™



What's the real opportunity?

The real value of reality capture isn't simply creating a digital model of a building. It's making information about that building accessible and useful to everyone who needs it — today, tomorrow and throughout its lifecycle.

Capture once. Share widely. Use repeatedly.

Thank you.



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Capture Reality.
Connect Information.
Transform Decisions.

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Matterport®