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NavVis

NEXT GENERATION MOBILE MAPPING

Danny McGinn
Assistant Sales Manager
WIPCO Ltd.

wipco
3D Scan & Solutions

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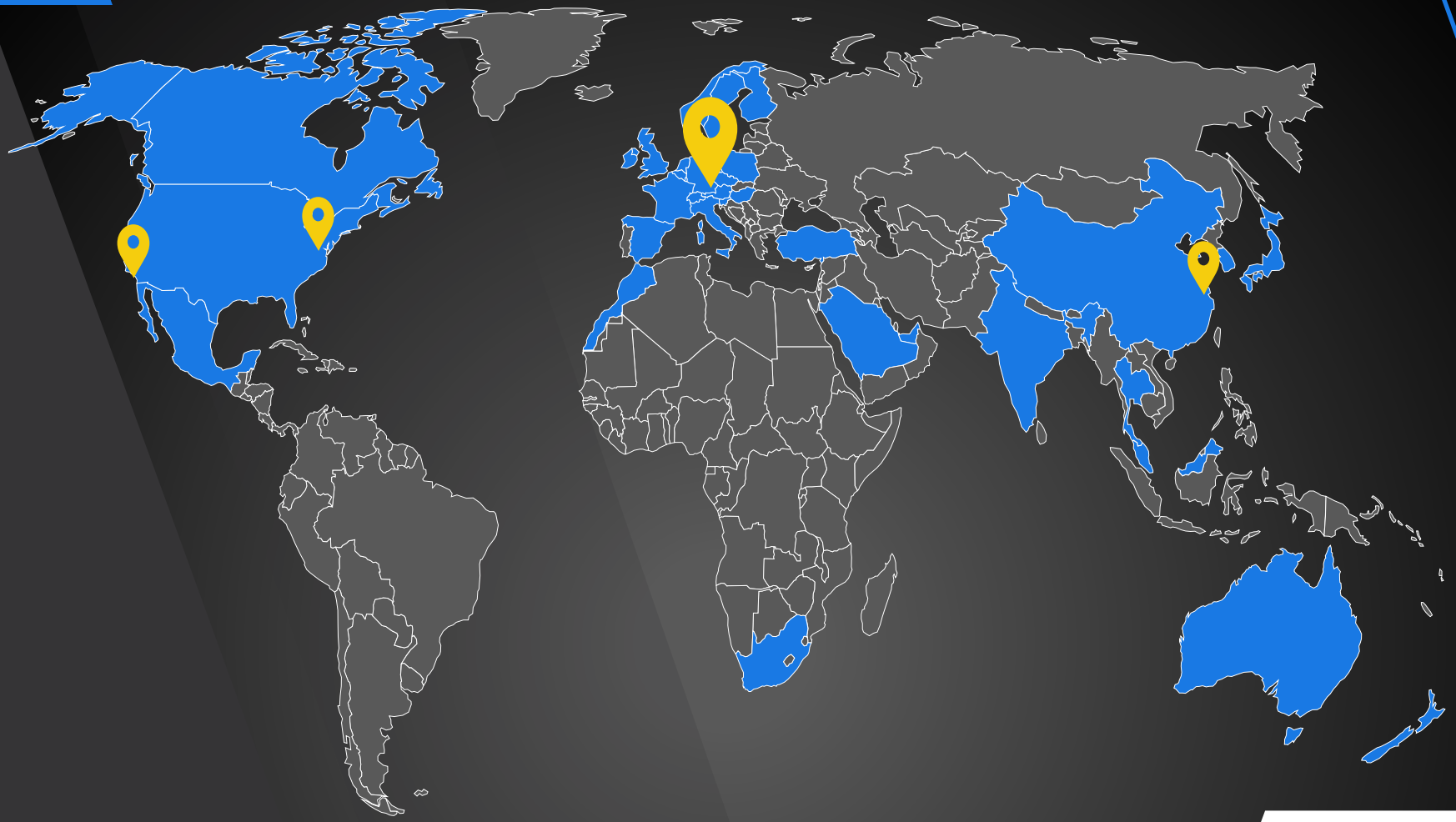
ABOUT NAVVIS

300+
EMPLOYEES

19
PATENTS

40+
COUNTRIES

500+
CUSTOMERS



SOFTWARE
COMPANY

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END-TO-END MOBILE MAPPING SOLUTION

A powerful hardware and software product suite

NavVis VLX

Wearable mobile mapping

NavVis IVION

Advanced cloud processing, visualization & collaboration

NavVis

wipco 3D Scan & Solutions

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Wearable device powered by precision SLAM technology:

NavVis

Four 20-megapixel cameras arranged for complete 360° capture

NAVVIS

LIVE FEEDBACK

Monitor real-time progress and quality while mapping with the built-in interface.

- Always in view
- High resolution OLED display
- Dataset management
- Real-time quality map
- Covers multi-story scans

NavVis

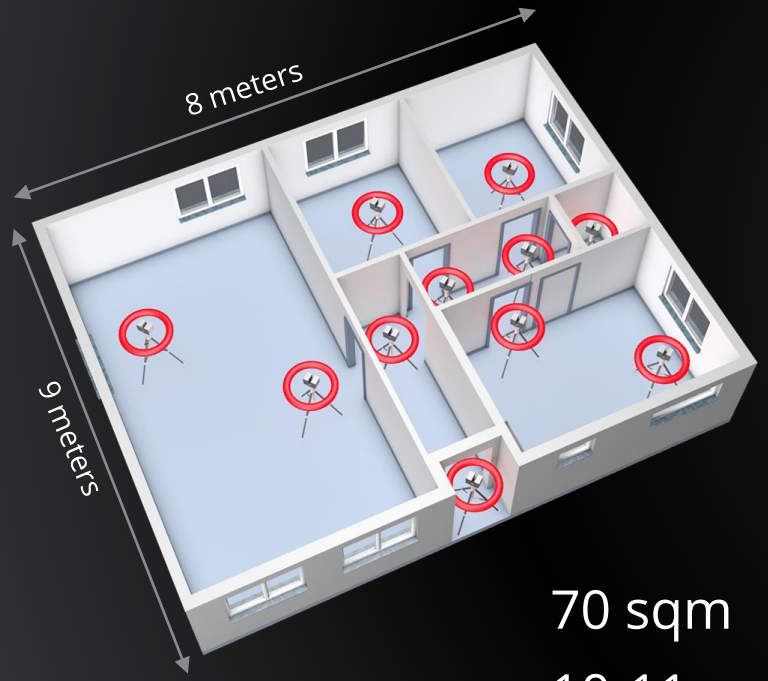
SMART PACKAGE

NavVis VLX folds to fit into one case for easy transport. When you're ready, simply unfold and start scanning.

NavVis

UNPRECEDENTED SLAM DATA QUALITY

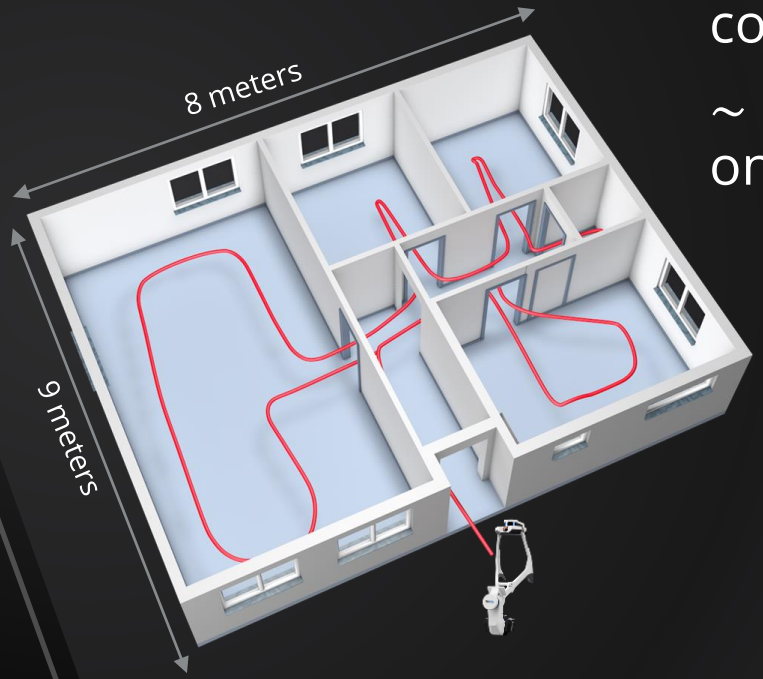
Scan more comprehensively while saving time



70 sqm

10-11 scan positions, some blind spots

~ 30 min



70 sqm

Continuous trajectory, complete coverage

~ 5 min (>10x faster on larger spaces)

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UP TO 20 TIMES FASTER THAN A TERRESTIAL LASER SCANNER

PLAY VIDEO

NavVis VLX

TLS

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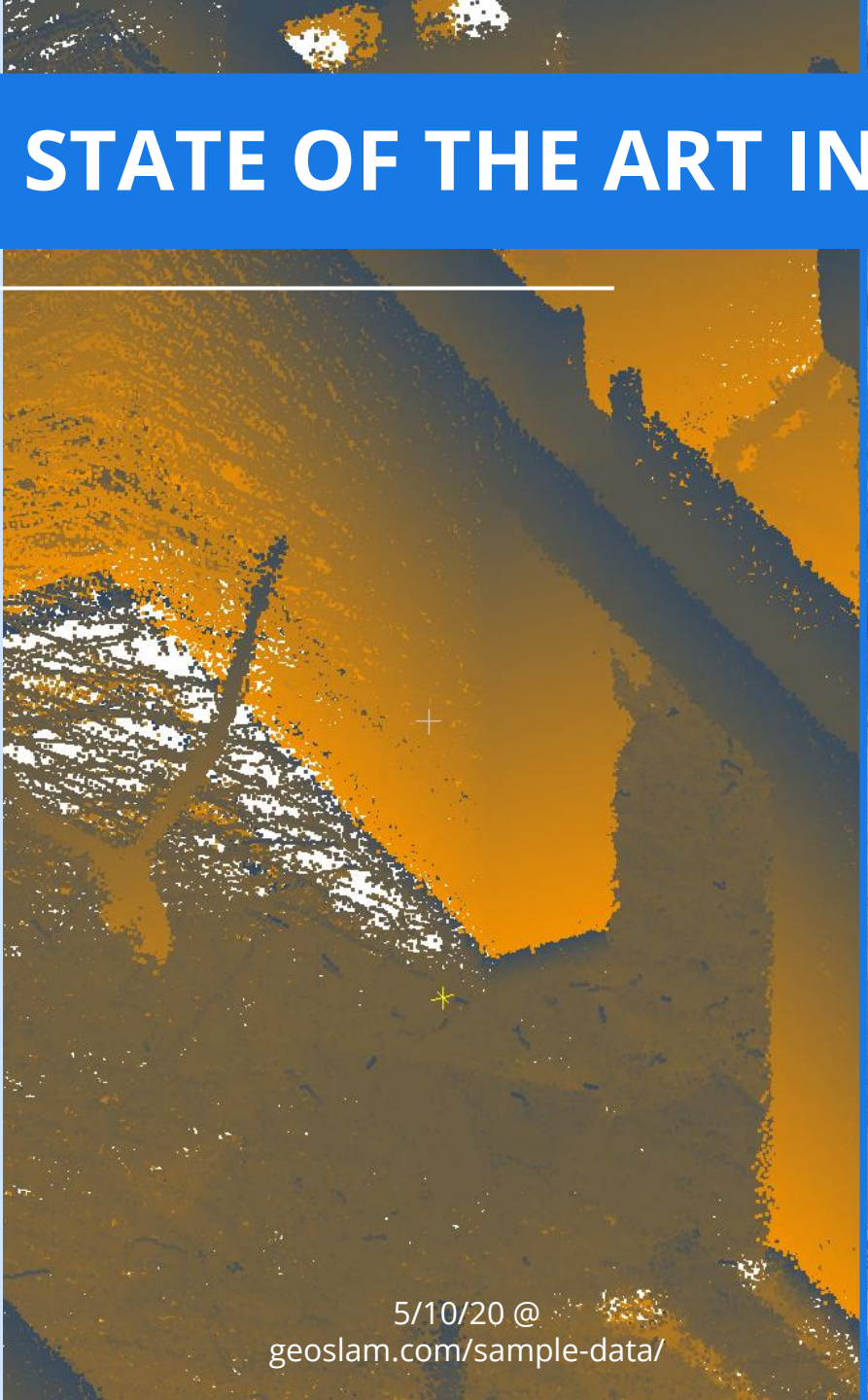
NAVIS

STATE OF THE ART IN SLAM-BASED MAPPING



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geoslam.com/sample-data/

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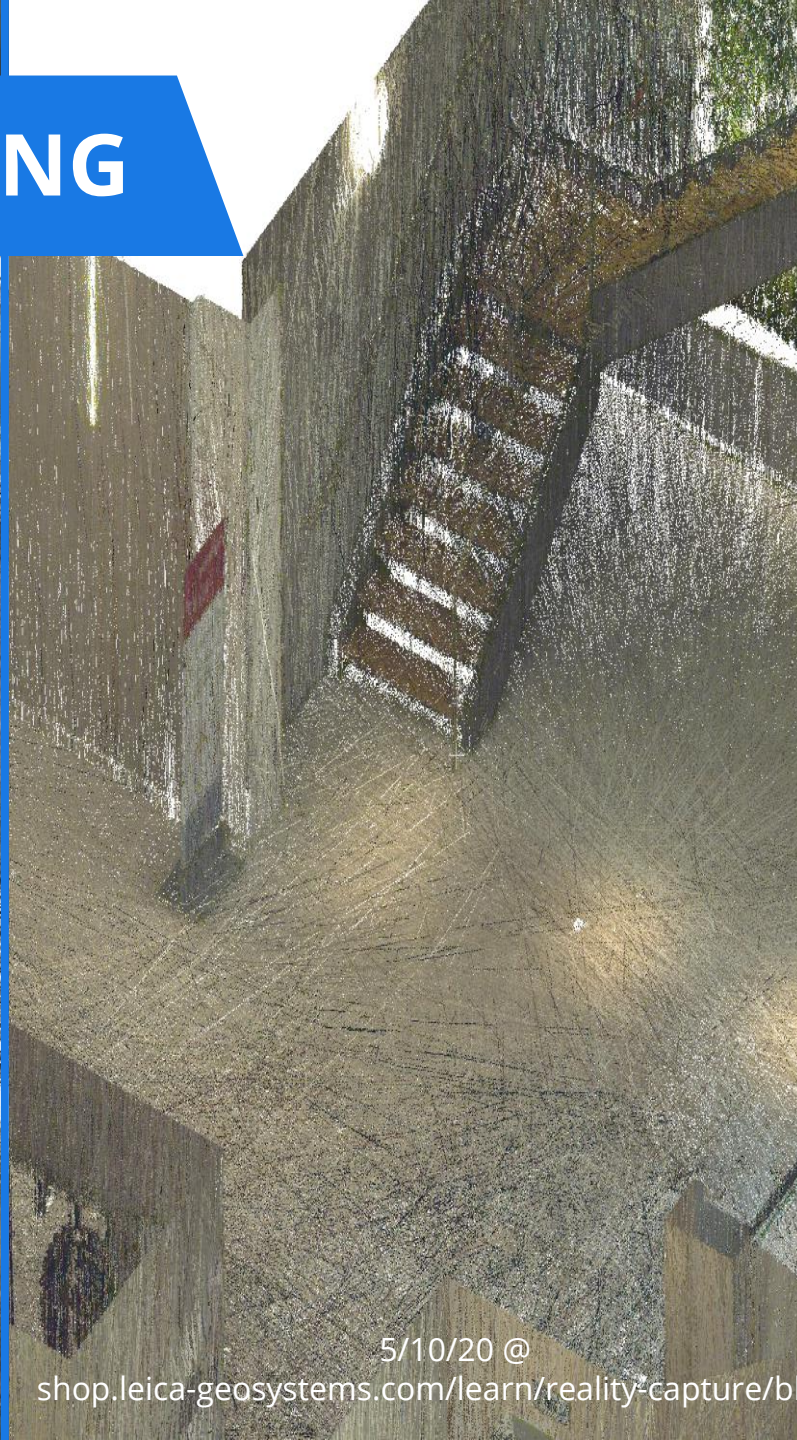
labs.paracosm.io/px-80-scans



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shop.leica-geosystems.com/learn/reality-capture/b

SURVEY GRADE POINT CLOUDS

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CAPTURED WITH NAVVIS VLX

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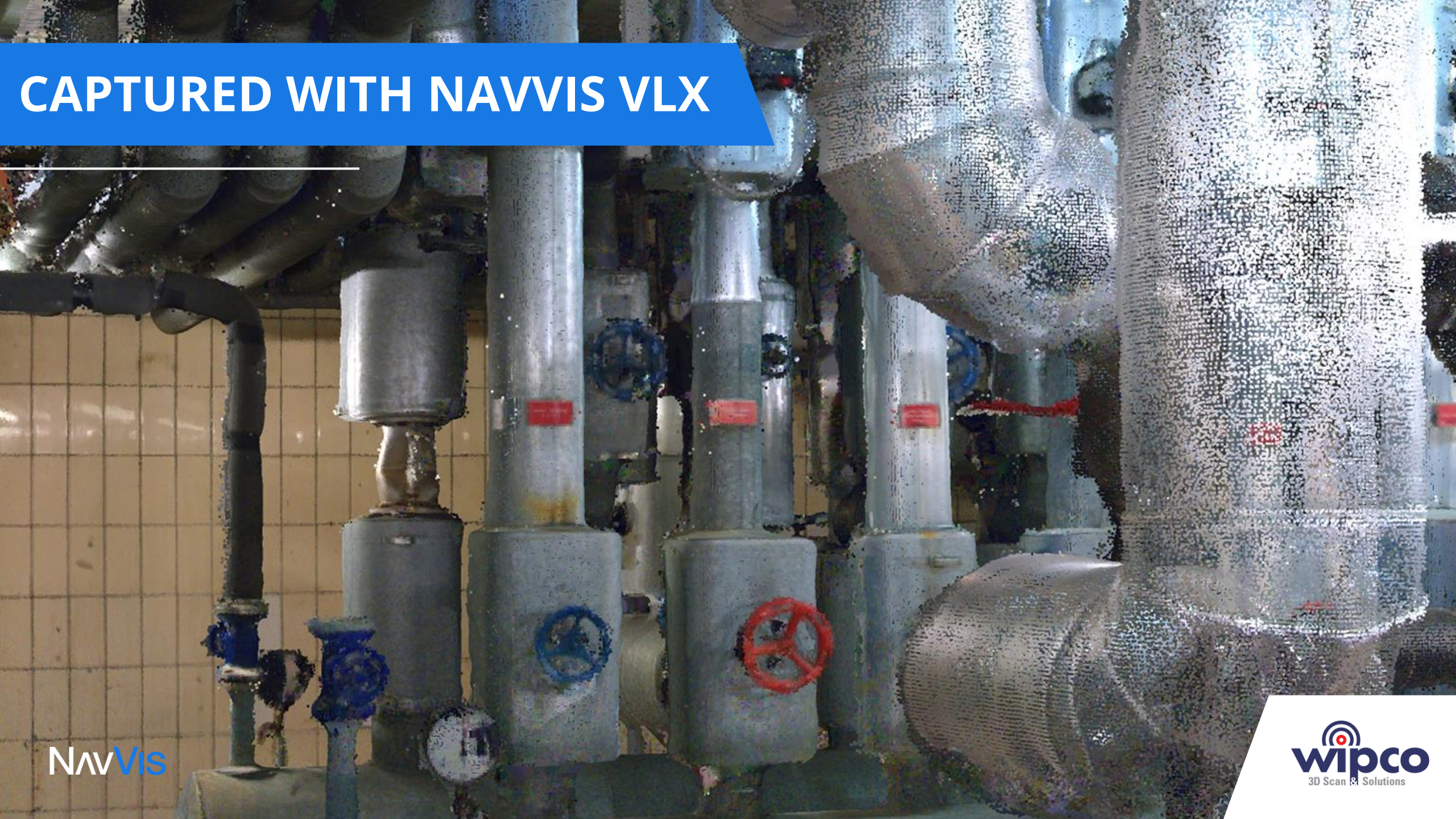
CAPTURED WITH NAVVIS VLX



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CAPTURED WITH NAVVIS VLX

NavVis

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NavVis IVION

PROCESSING, POINT CLOUDS AND DIGITAL TWINS

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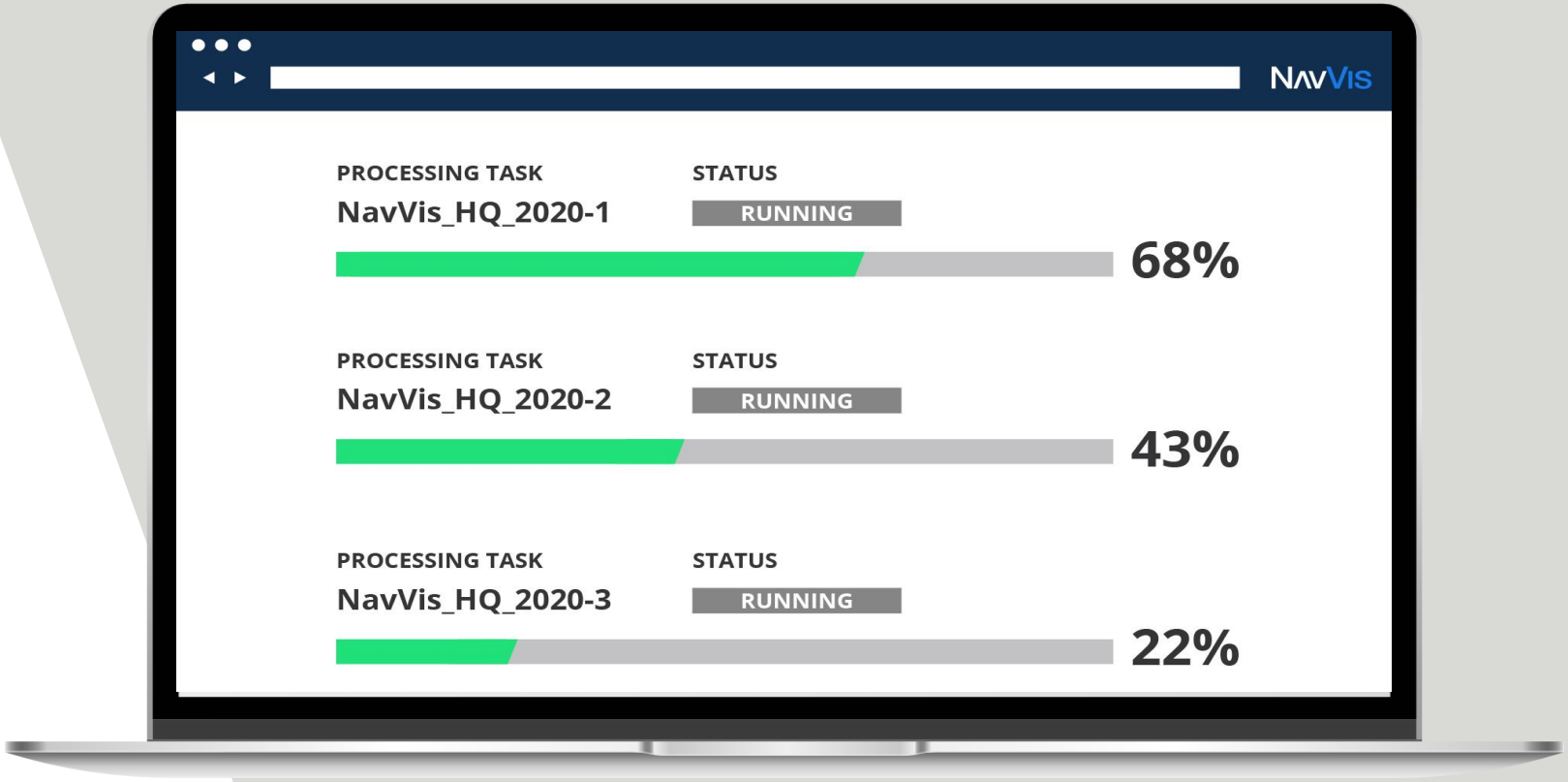
CLOUD PROCESSING FOR IVION

Define 5 different settings and the rest is done **automatically**

Process multiple datasets in parallel

Automatic alignment when using control points



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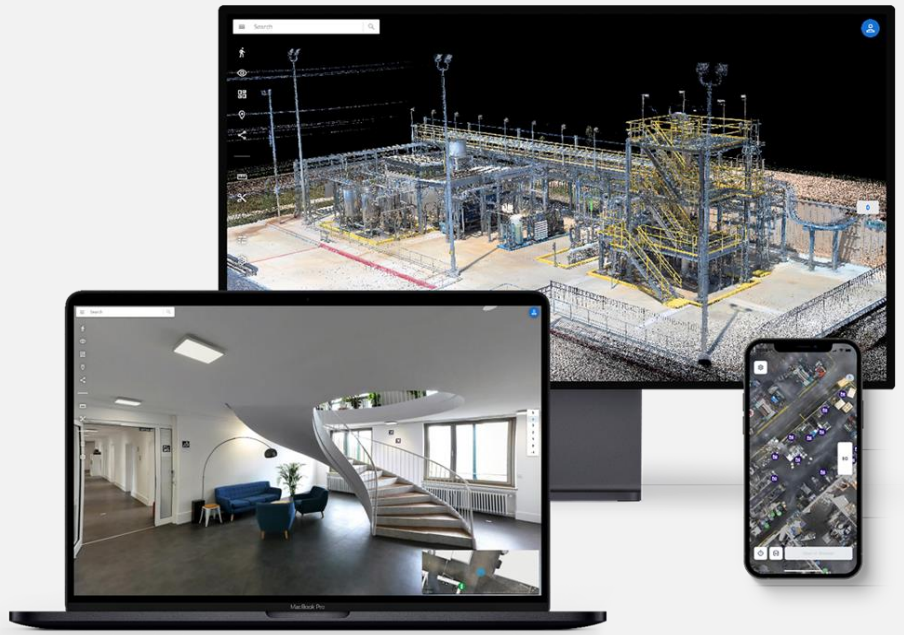
NAVVIS IVION CORE – A CLOSER LOOK

An innovative new deliverable that extends the use of 3D scan data beyond BIM models and building plans to a wider range of stakeholders. Main features:



Stream photorealistic point clouds in a web browser – no installation or plugins required

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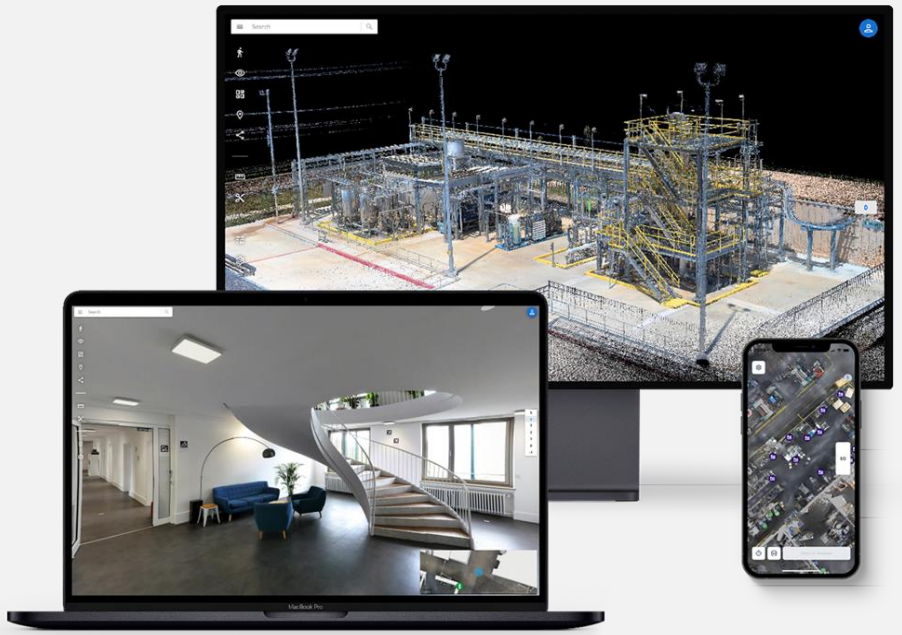
NAVVIS IVION CORE – A CLOSER LOOK

An innovative new deliverable that extends the use of 3D scan data beyond BIM models and building plans to a wider range of stakeholders. Main features:

360

Realistic 360° walkthroughs to move around a digital building as if you were on-site



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NAVVIS IVION CORE – A CLOSER LOOK

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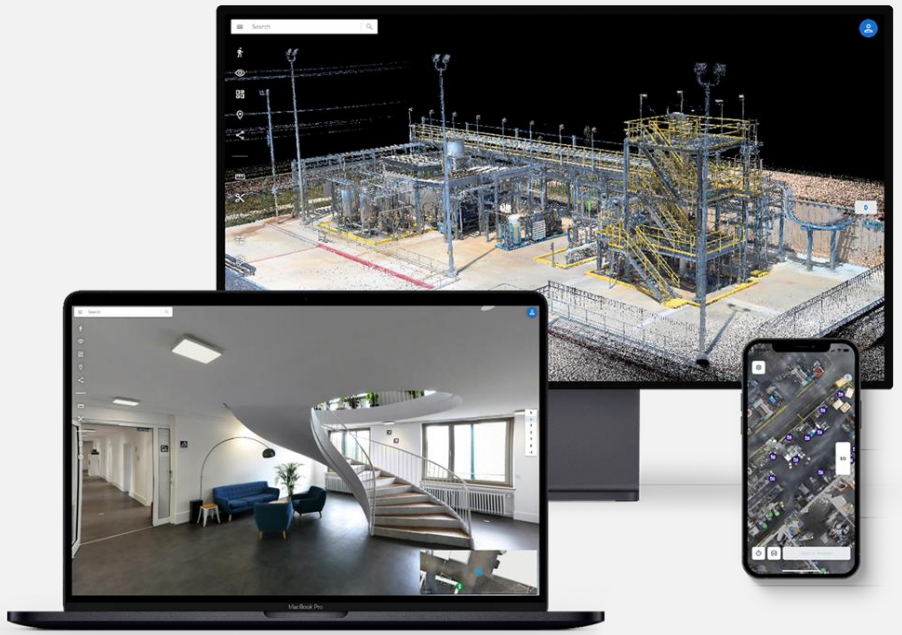
Add, search for and route to geo-tagged information, and take highly accurate virtual measurements



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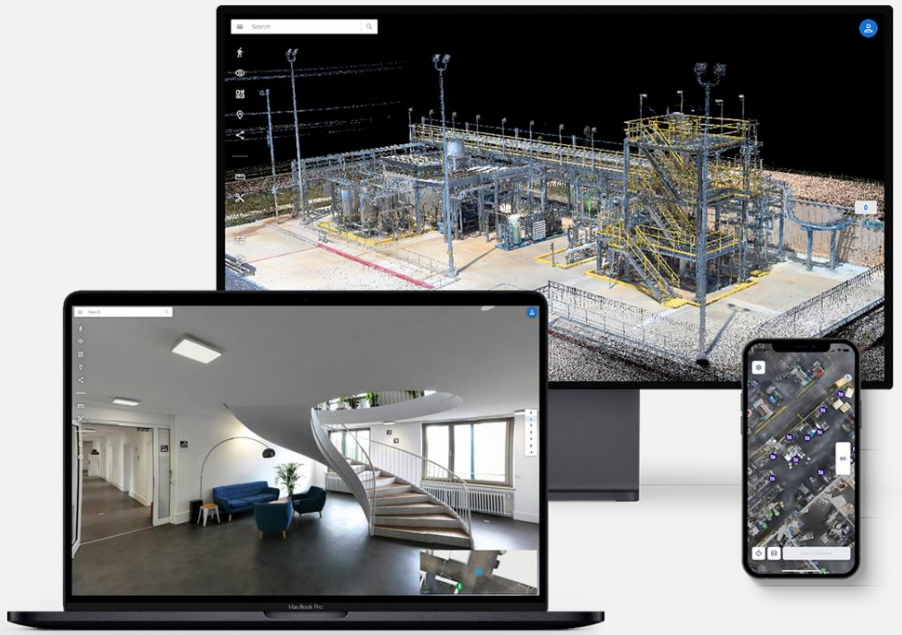
NAVVIS IVION CORE – A CLOSER LOOK

An innovative new deliverable that extends the use of 3D scan data beyond BIM models and building plans to a wider range of stakeholders. Main features:

Select, crop, and download point clouds in various formats



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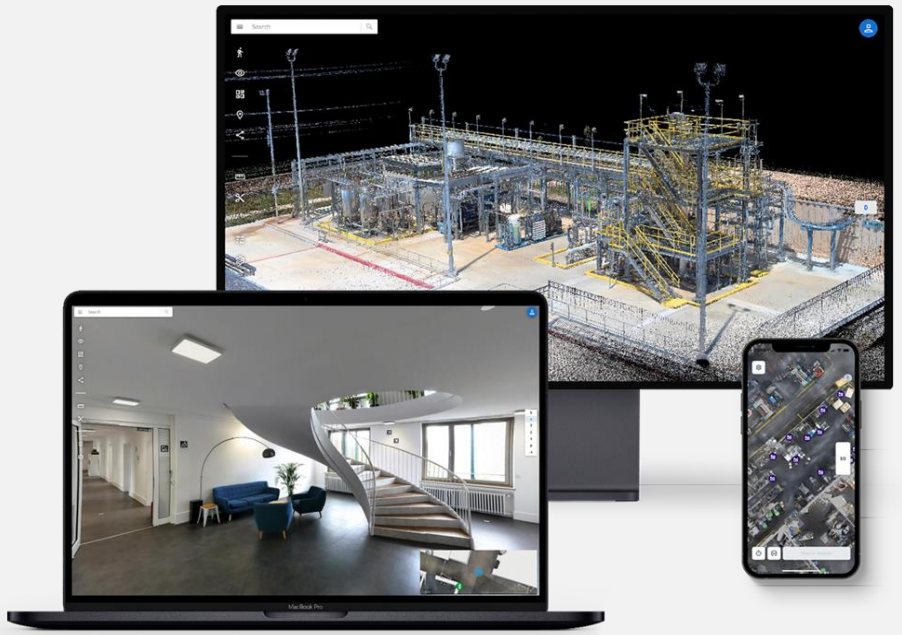
NAVVIS IVION CORE – A CLOSER LOOK

An innovative new deliverable that extends the use of 3D scan data beyond BIM models and building plans to a wider range of stakeholders. Main features:

Import point clouds from third-party scanning devices



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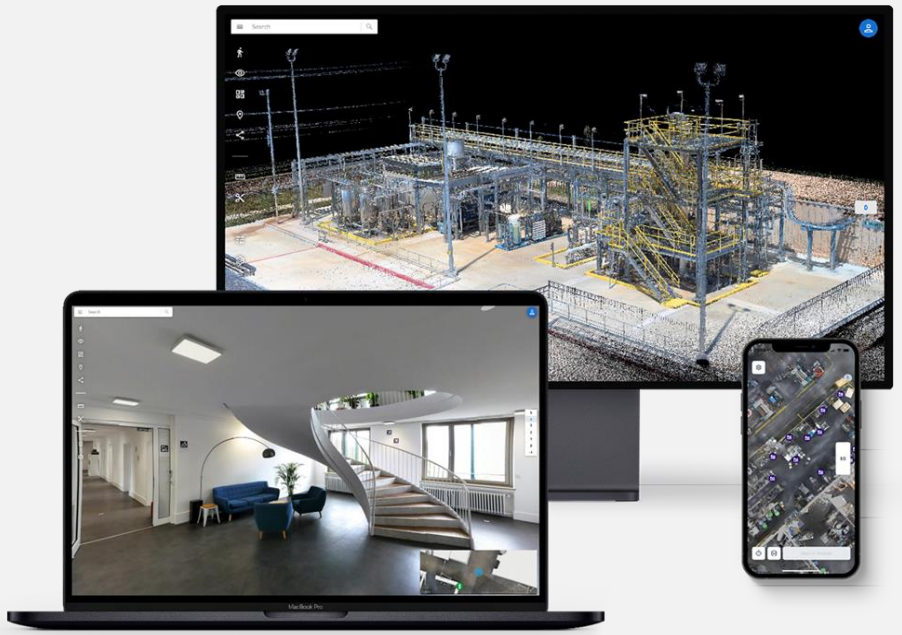
NAVVIS IVION CORE – A CLOSER LOOK

An innovative new deliverable that extends the use of 3D scan data beyond BIM models and building plans to a wider range of stakeholders. Main features:

Auto-generate 360° panoramas, HD floorplans, and routing from .e57 point cloud files



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Q&A

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Thank you

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