

FIG WORKING WEEK 2019

22-26 April, Hanoi, Vietnam

Presented by the FIG Working Week 2019,
April 22-26, 2019 in Hanoi, Vietnam

"Geospatial Information for a Smarter Life
and Environmental Resilience"



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DEMO

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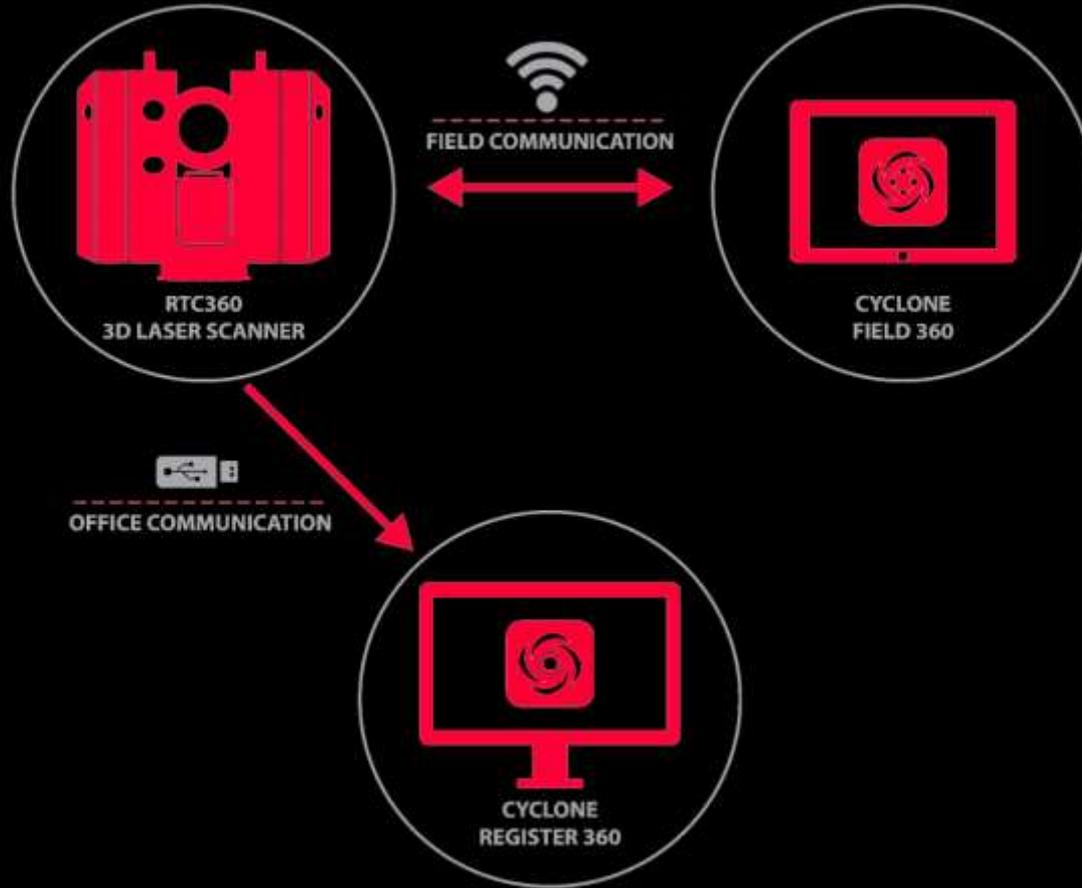


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TruRTC Technology
Inside RTC360



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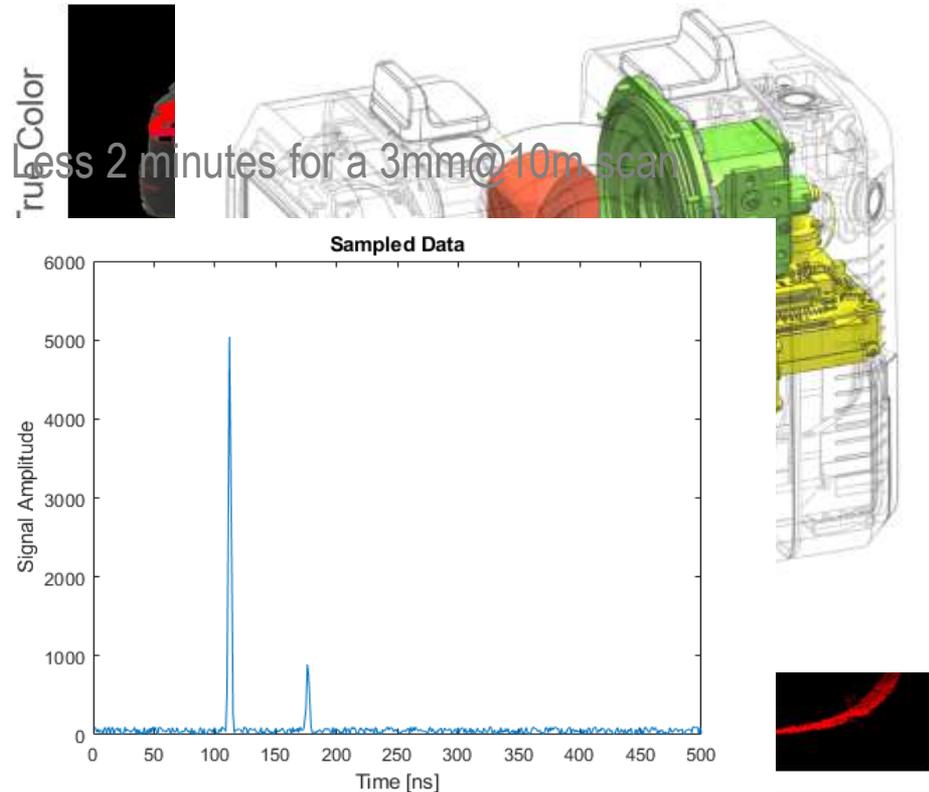
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3D laser scanning

Fast: up to 2 Mio points per second EDM.

High dynamic: more measured points on critical surfaces.



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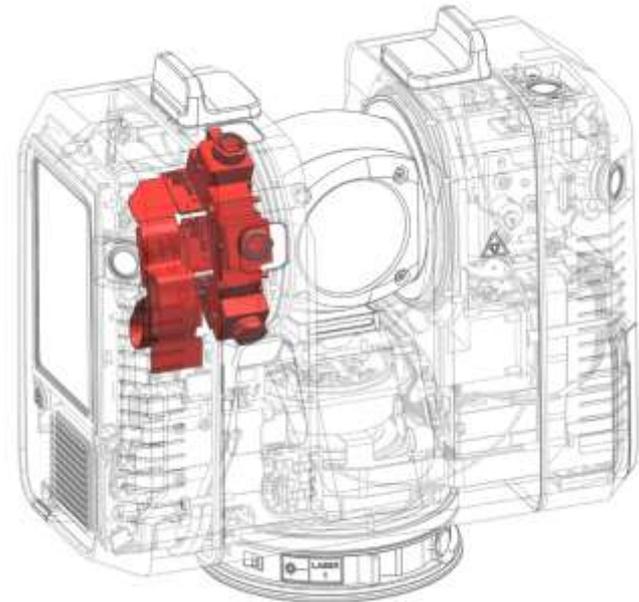


HDR spherical images

Fast: less than 1 minute to collect HDR full dome, independent from light conditions.

High dynamic: from bright sunlight to darkness, without user settings.

Colour fidelity: the colours are represented as they are.



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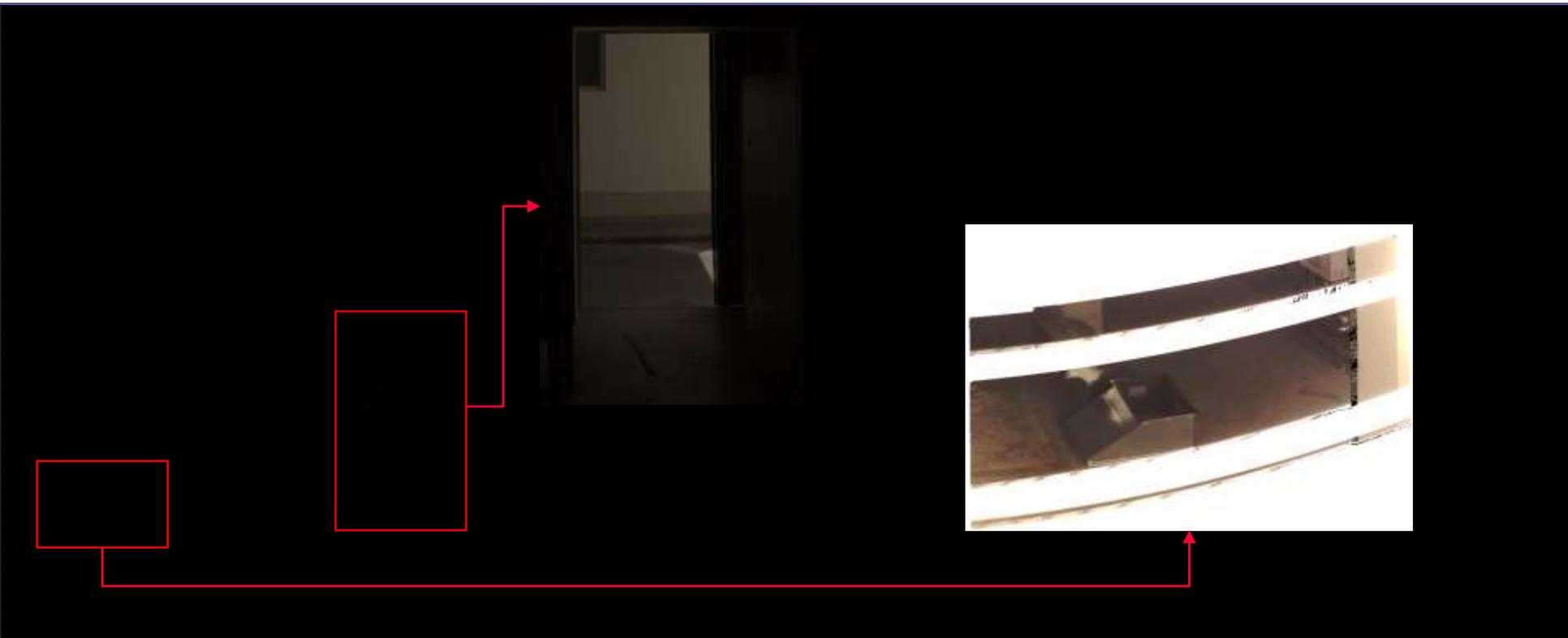




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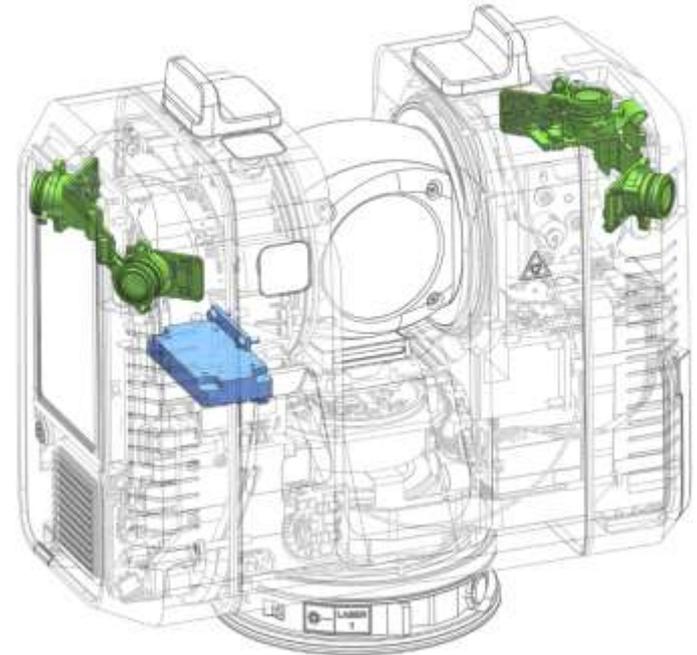
Visual Inertial System

VIS delivers the **delta pose** between two consecutive setups, in **real time**

VIS is based on **5 cameras** and one **IMU**

No user interaction is needed, **auto start&stop**

VIS is **robust** to most of the handling and environmental conditions



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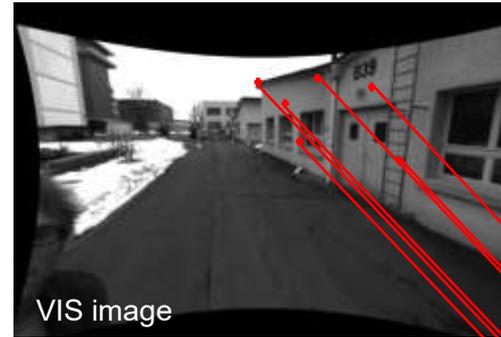
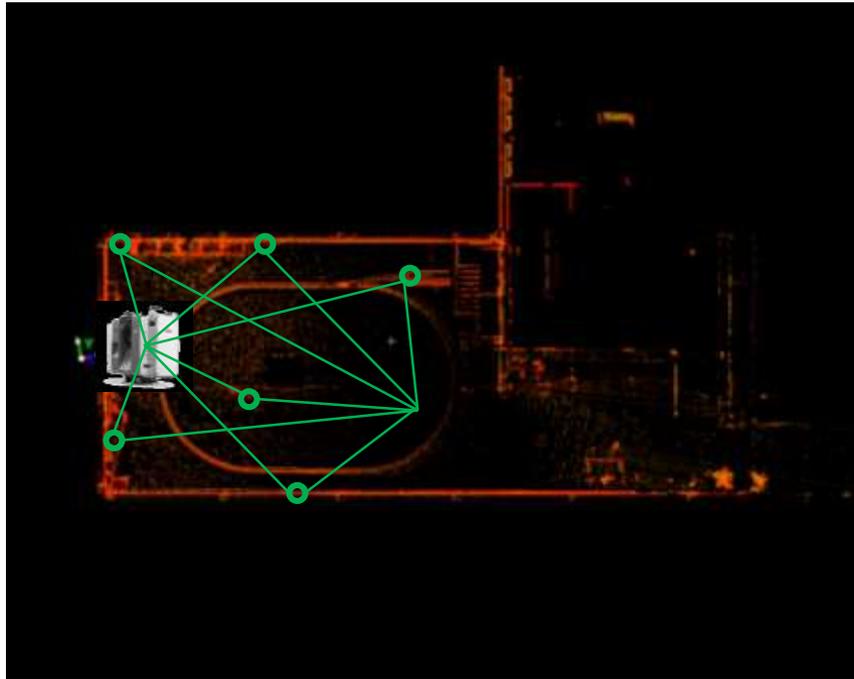




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VIS image



Point cloud

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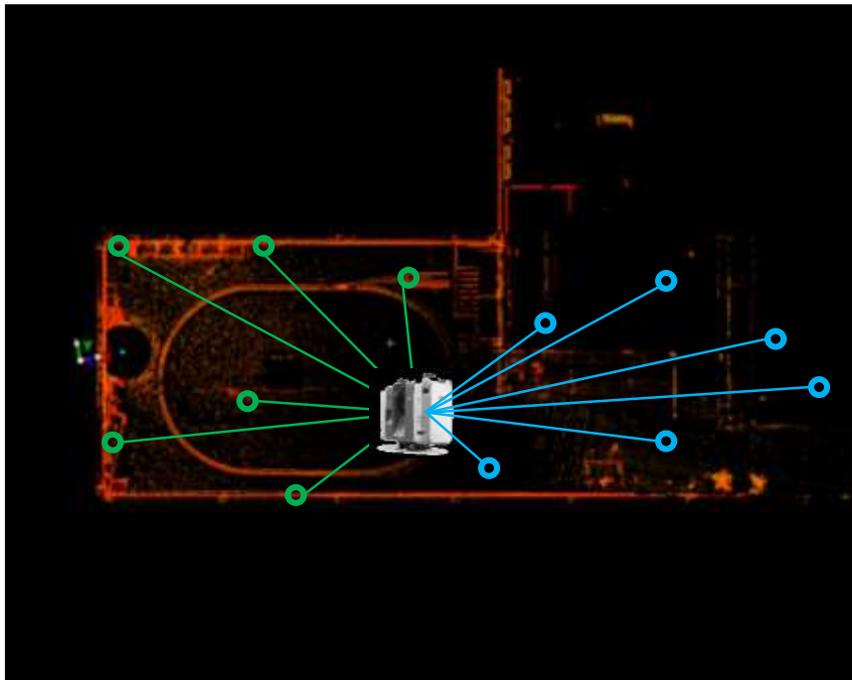




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- “original” 3D points derived from pointcloud
- “new” 3D points created by forward intersection from multiple scanner positions

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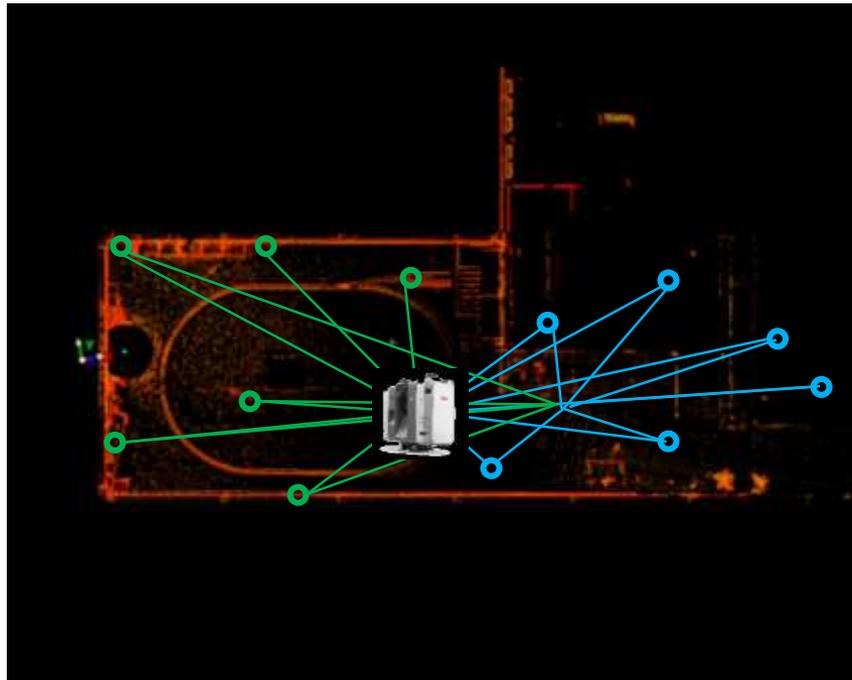




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- “original” 3D points derived from pointcloud
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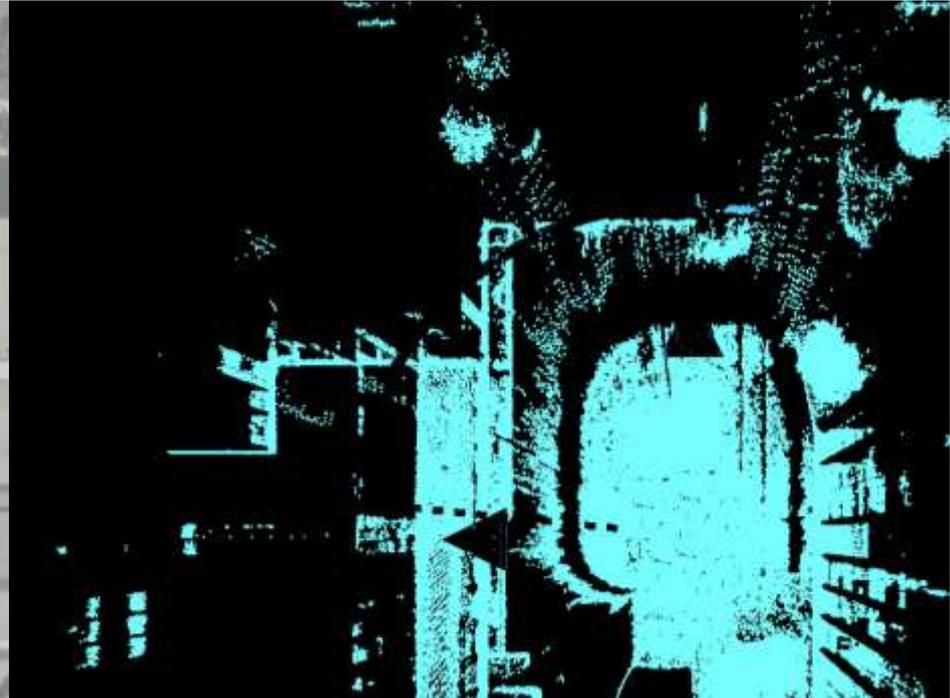




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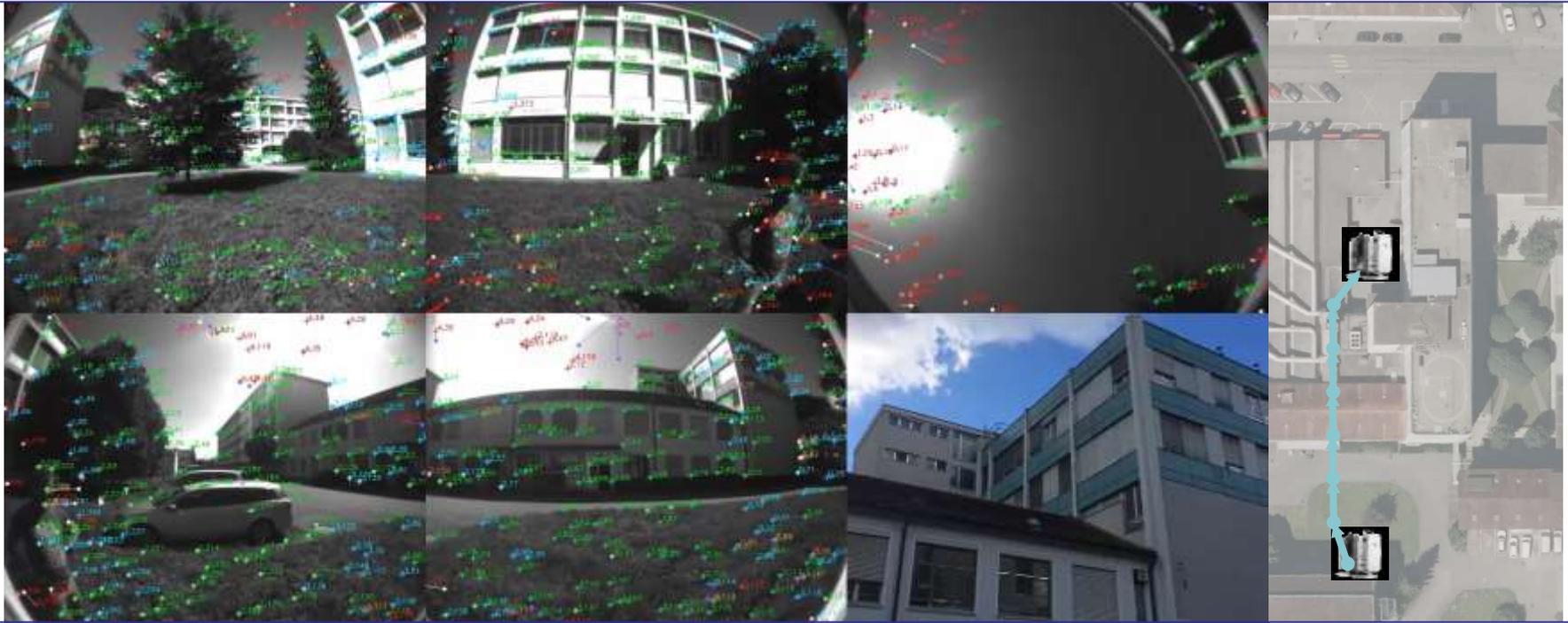




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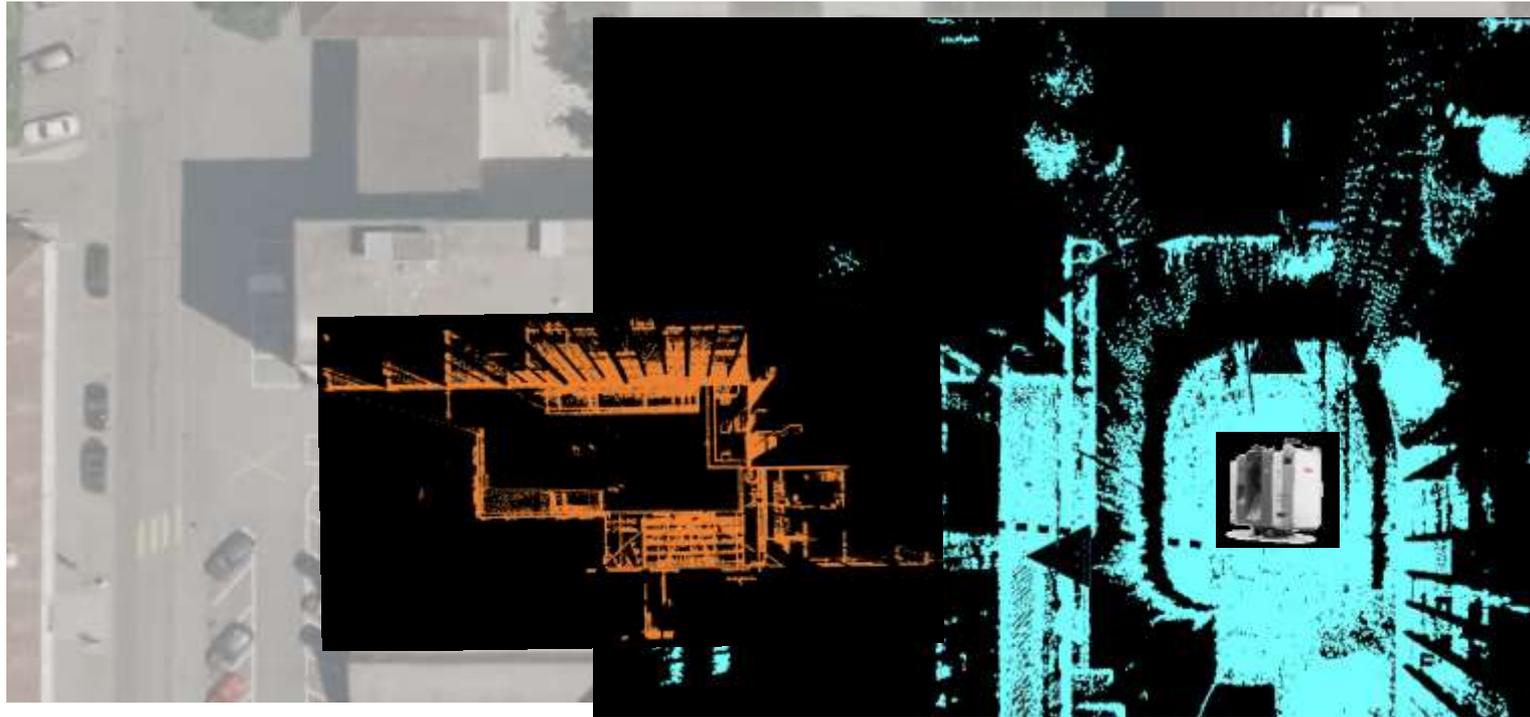




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Cyclone FIELD 360



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View: Display point cloud data in full HDR colour, rainbow intensity or grey scale

Check: Verify pre-registered point clouds for quality and completeness control

Add: Store tags and pre-registration information back to the RTC 360



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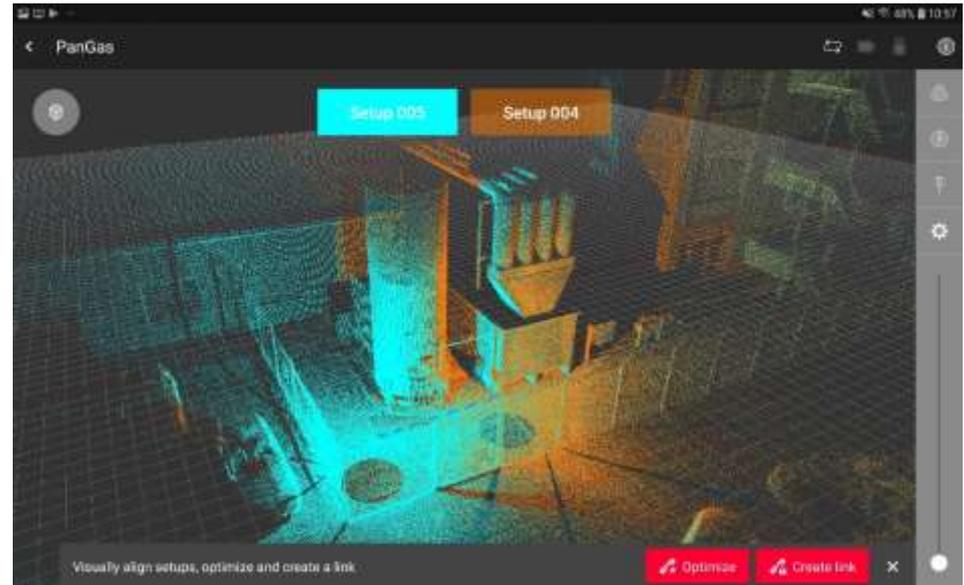
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Cyclone FIELD 360. Check.

On-site control for improved overall productivity:

- Quality
- Completeness
- Overlap and pre-registration results



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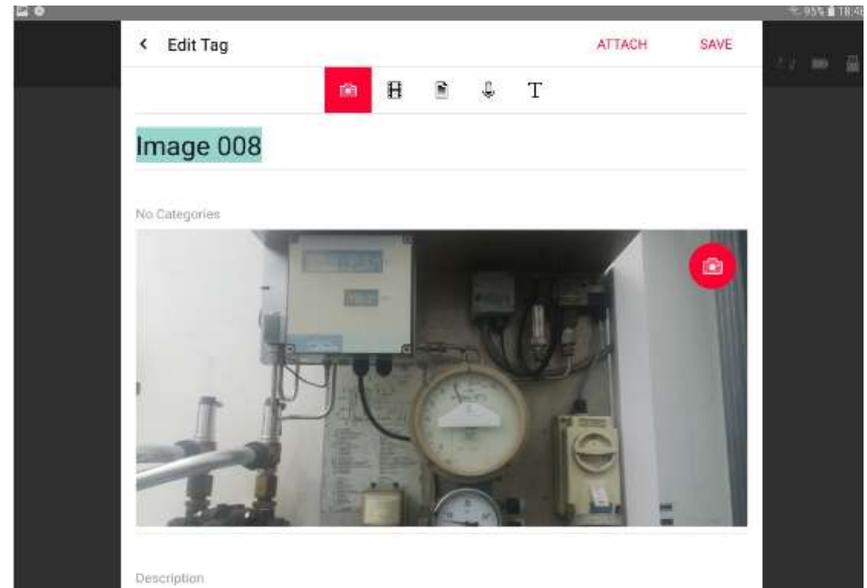
Cyclone FIELD 360. Add.

Tag types: Photo, video, audio, text, document.

Attach to: Job, Setup, 3D coordinates.

Measurements: Point-to-point distance

Automatic synchronisation to RTC 360



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Cyclone Register 360

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Cyclone REGISTER 360



- DRAG
- DROP
- DONE

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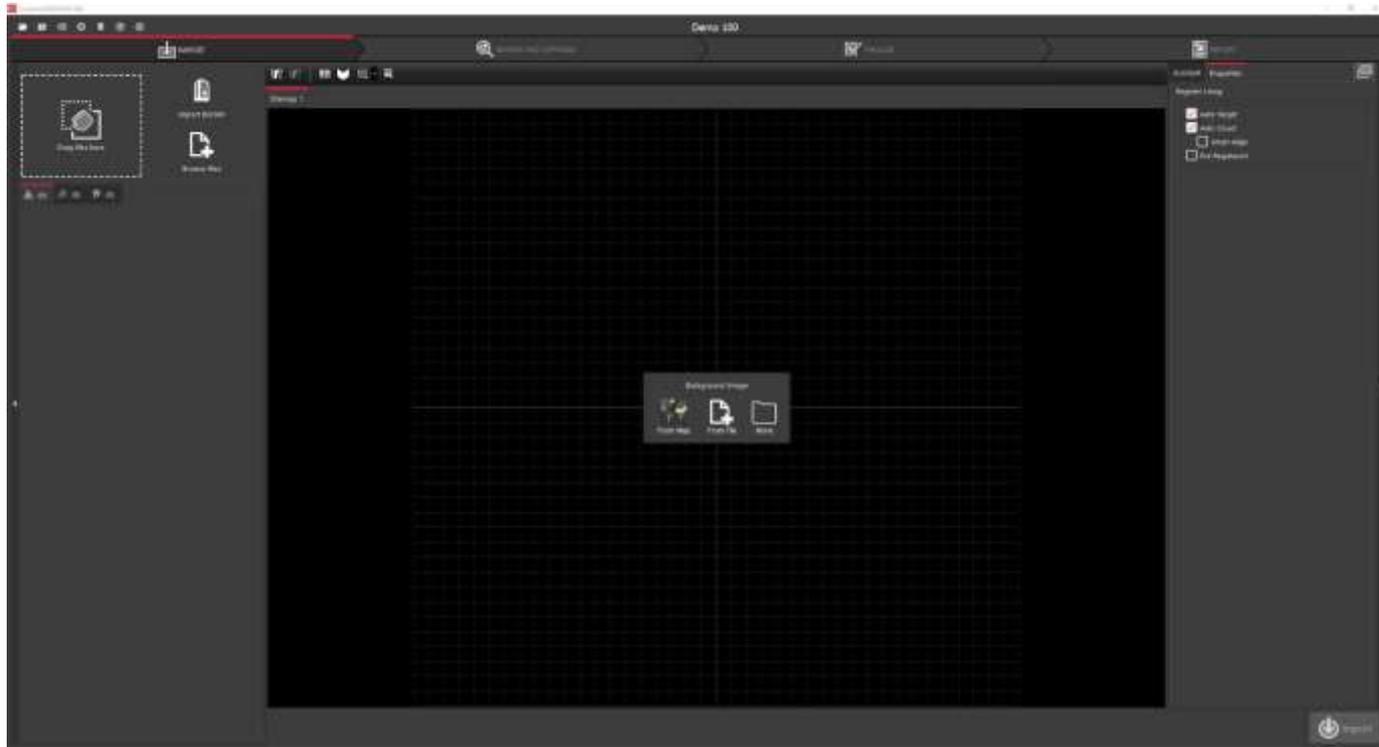
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Cyclone REGISTER 360 – Import & Register



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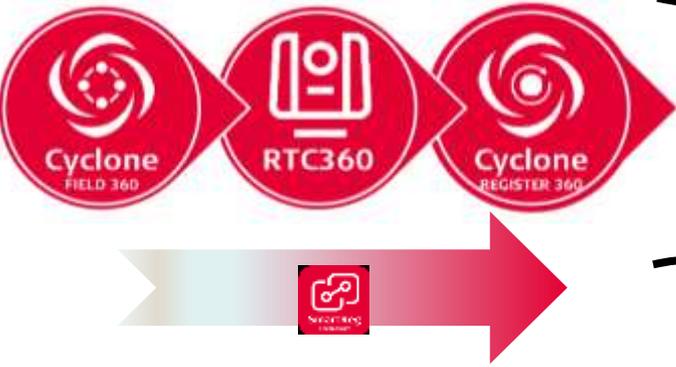
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RTC360 Workflow



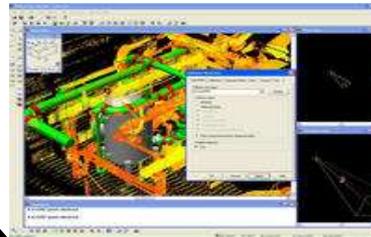
Leica TruView



CloudWorx for Smartplant 3D



Leica IMS Map360



CloudWorx for AutoCAD



3D Reshaper



Cyclone Model & Survey

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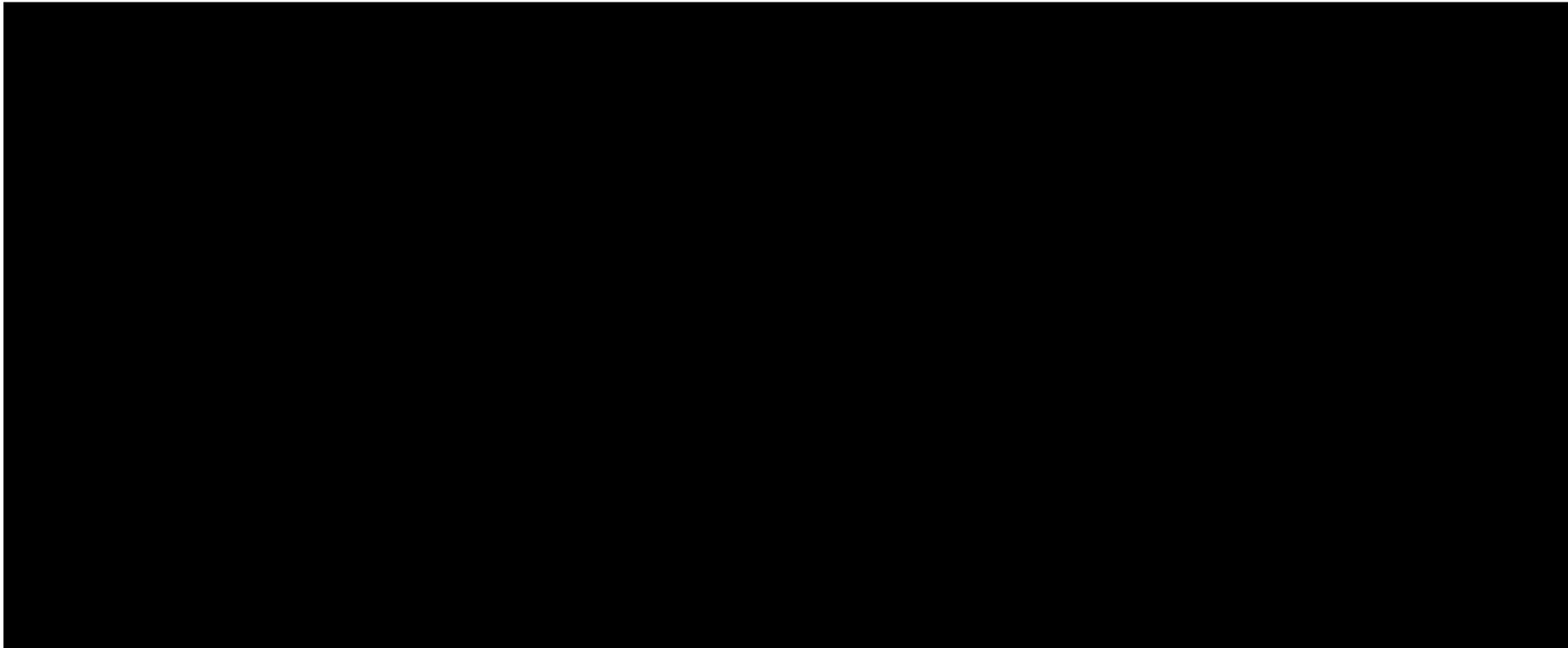




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