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BIM from point clouds

They bridge between reality and design

Hasan Bal | Account Manager - construction BIM Marc Zschieschang | Product Manager - construction BIM







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Agenda

- Review: BIM and Laserscanning
- **BIM Workflow**
- Typical project numbers
- What will be possible in the future





















What means BIM in context of FARO?

Building Information Modeling:

- Process for creation of a digital, parametric building information model
- Usage of this model as central data hub during the overall building lifecycle

Building Information Model:

Digital, parametric representation of an existing or planned building, plant or civil engineering project









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What does FARO do?

FARO feeds real world data into the building and infrastructure lifecycle

FARO provides complete solutions for extracting value from reality data

FARO helps to link the plan model with the construction site















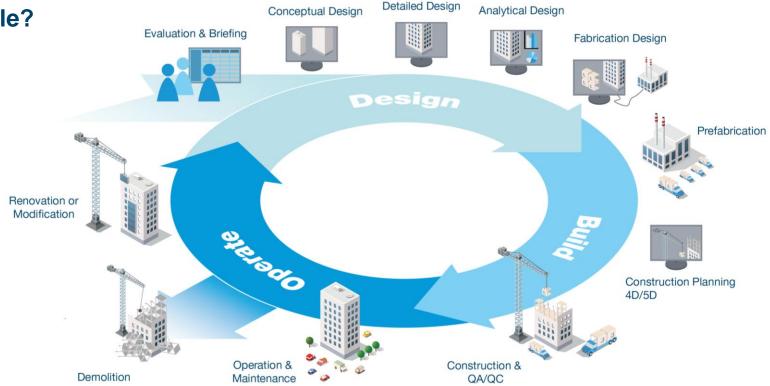






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FIG 2018 ISTANBUL

How to get reality capture data?













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Laser scanner

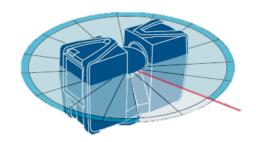
- Captures up to ~1 Million 3D points per second
- Creates a high density representation (digital twin) of the reality

Technical specification FARO FOCUS S:

Link











Distance measuring

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Result:

Reality capture data



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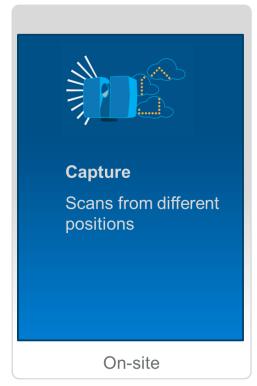


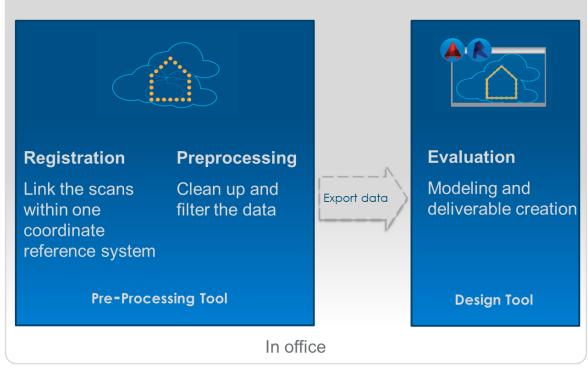






From reality capture data to BIM





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FIG 2018 ISTANBUL













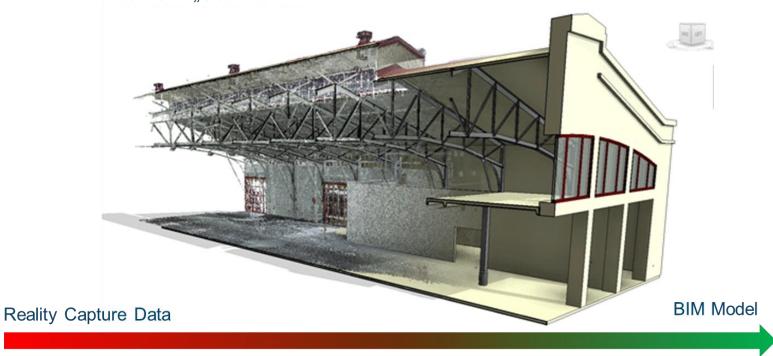




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From reality capture data to BIM

In FARO context: "Scan to BIM"

























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Scan to BIM workflow













Model overall geometry

Place building components Create "ascomponents

Wall and pipe fitting Wall and pipe alignment Work plane fitting Construction guides

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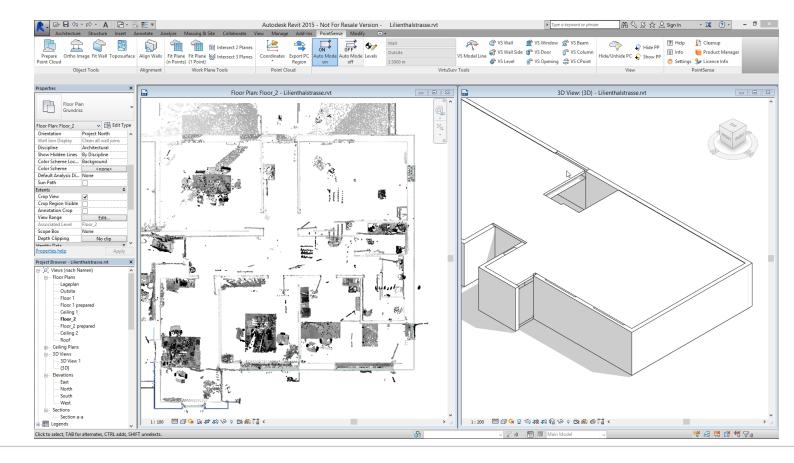




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Example:

Wall fitting



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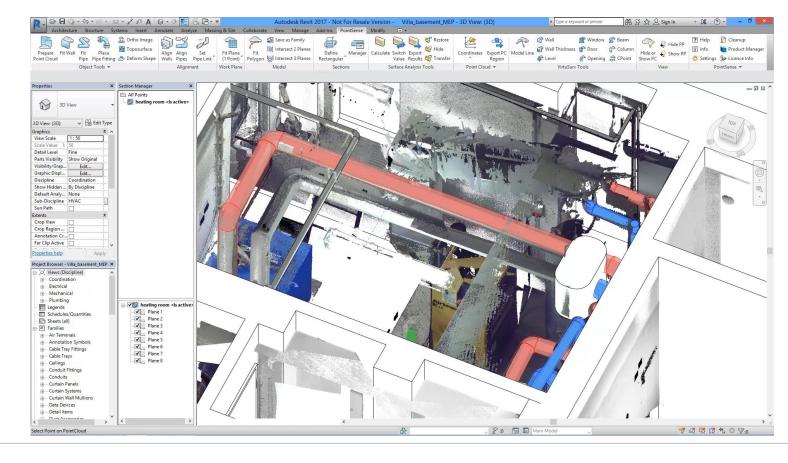




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Example:

Pipe fitting



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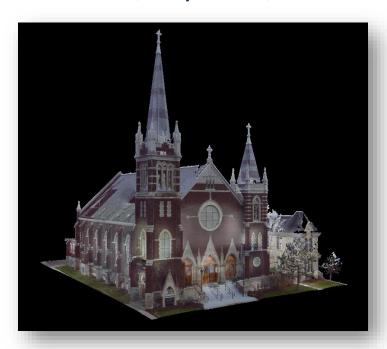


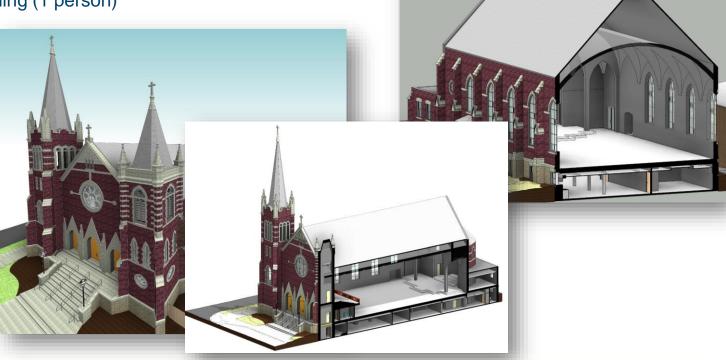
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Project numbers

FIG 2018 ISTANBUL

118 Scans, 2 Days on-site, 3 weeks modeling (1 person)























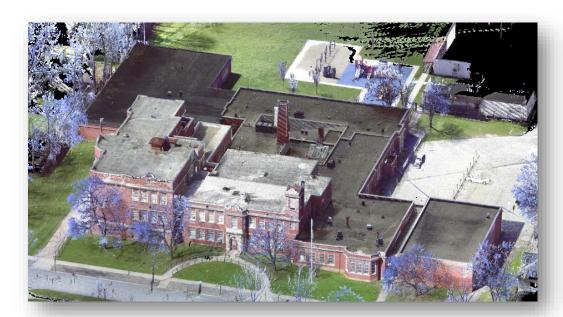


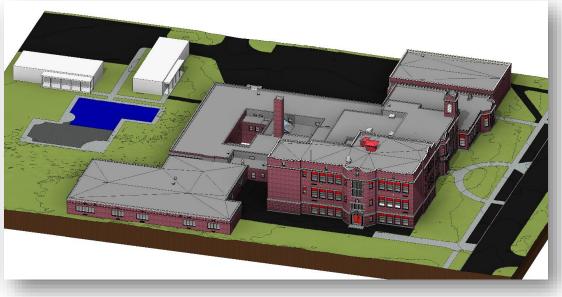


Project numbers

FIG 2018 ISTANBUL

470 Scans, 5 Days on-site, 5 weeks modeling (2 person)



























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Future outlook

Lets look behind the door























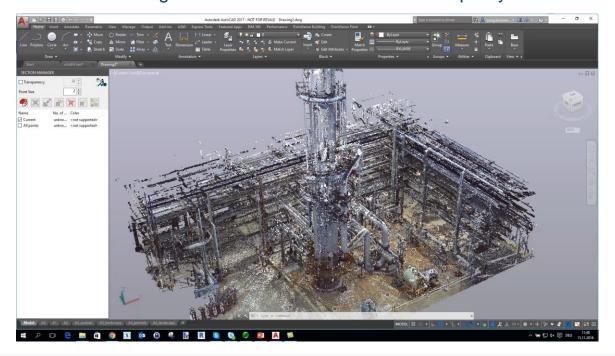


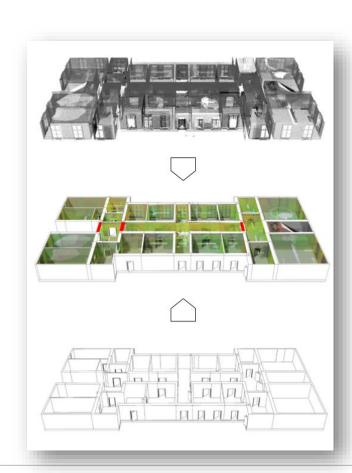


FIG 2018 ISTANBUL

Future outlook

Automated modelling embedded in user workflows with quality control toolsets





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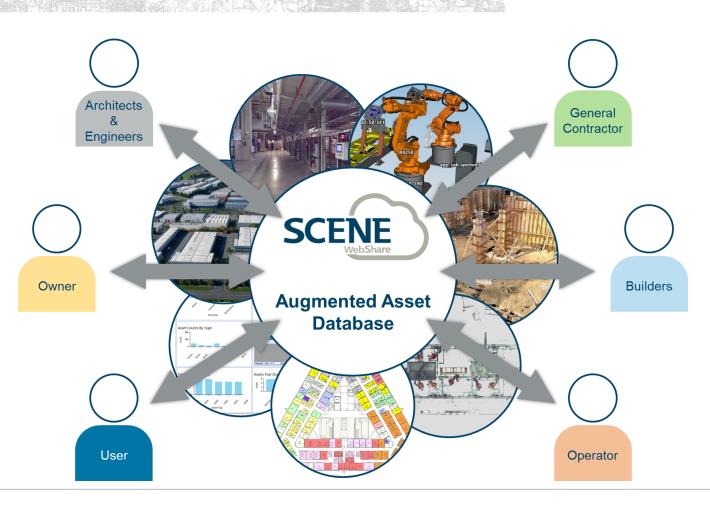












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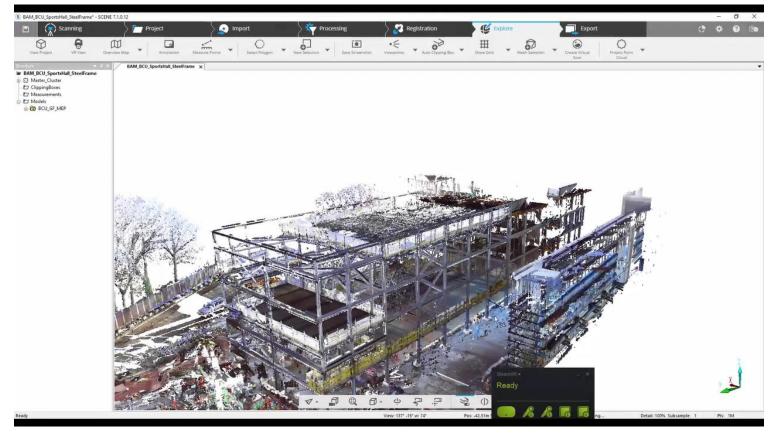






Future outlook

Improve technology harmonization

























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Future outlook

FIG 2018 ISTANBUL

Efficient on-site workflows for data capturing and quality control





























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Questions?





















