

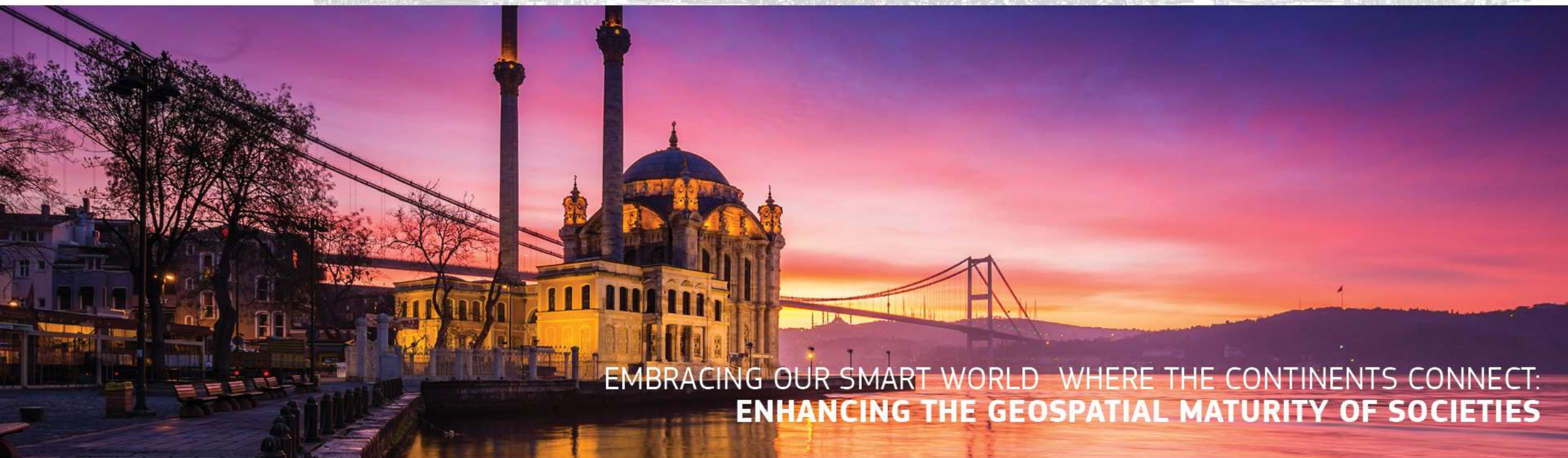


XXVI FIG CONGRESS

6–11 May 2018, İstanbul

FIG Pre-Workshop “BIM for Surveyors” May 5th and 6th

Christian Clemen, HTW Dresden, Germany



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- 50 experts “BIM and surveying”
- 20 countries
- 8 presentations
- 4 round table discussions
- 2 days
- 1 mind changing technical tour

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BIM for Surveyors Workshop



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Session 1 - BIM Basics

BIM – the opportunities and lessons learned - so far (James Kavanagh, MRICS, UK)

- Geospatial at the heart of BIM
- BIM Economics
- BIM levels & lifecycle
- Gartner hype cycle – where does your country sit on the cycle?
- Survey4BIM
- The BIM challenge
- Open Standards



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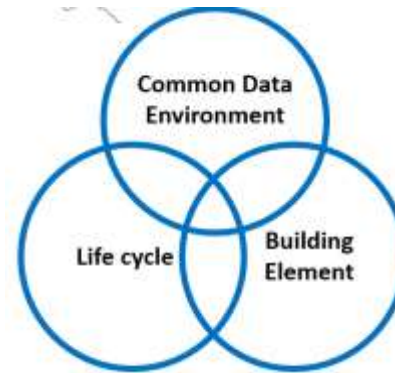


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Session 1 - BIM Basics

BIM Motivation and Education (Christian Clemen, Germany)

- Current BIM research project at the university
- Topics to teach in BIM lectures to geomatic students
- Essential BIM practices for geomatic students
- International standards for BIM Qualification (buildingSmart)



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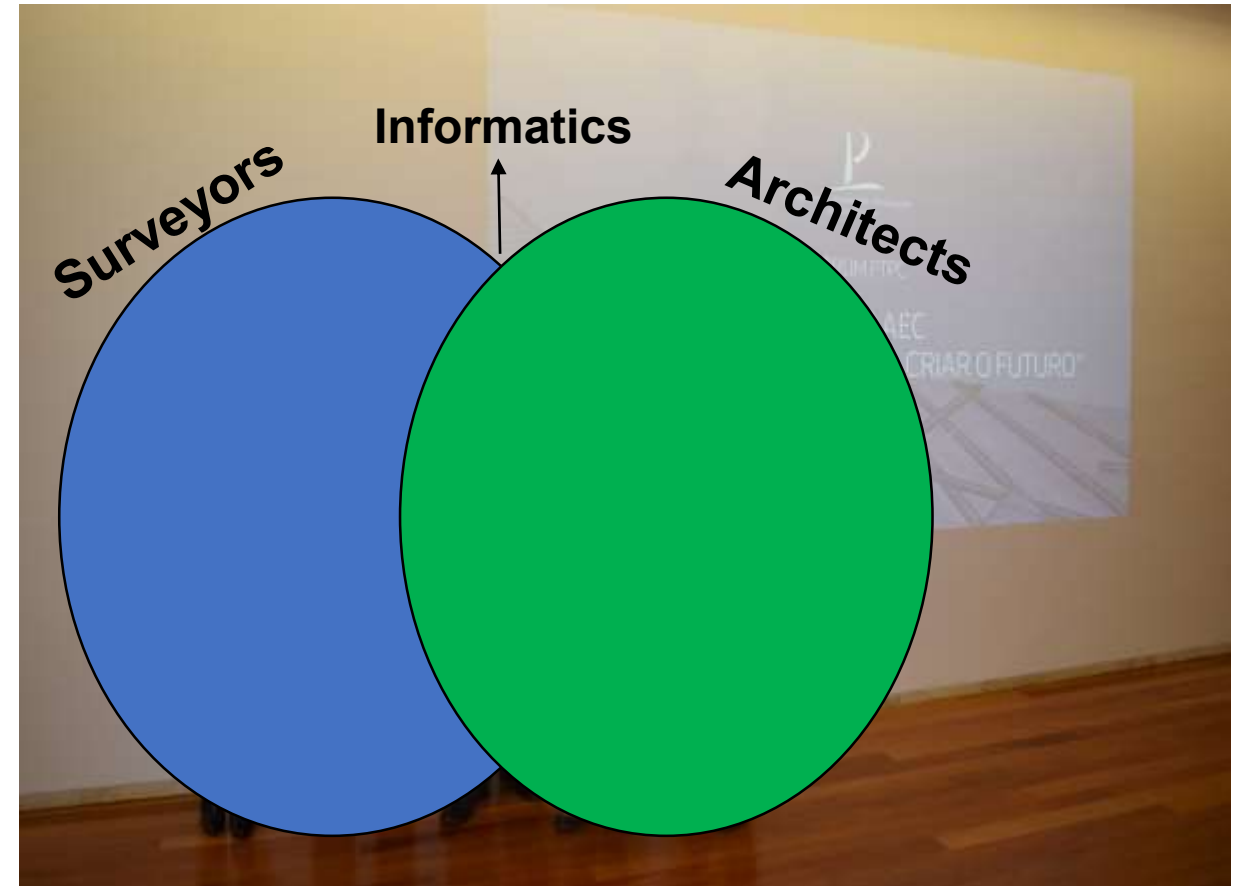


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Session 1 - BIM Basics

BIM and GIS Interoperability (Edgar Barreira and Inês Vilas Boas, FIG Young Surveyors, Portugal)

- Motivation for BIM and GIS interoperability
- Case study on interoperability (technically and cultural)
- New Trends (GIS/BIM software, surveying tools)



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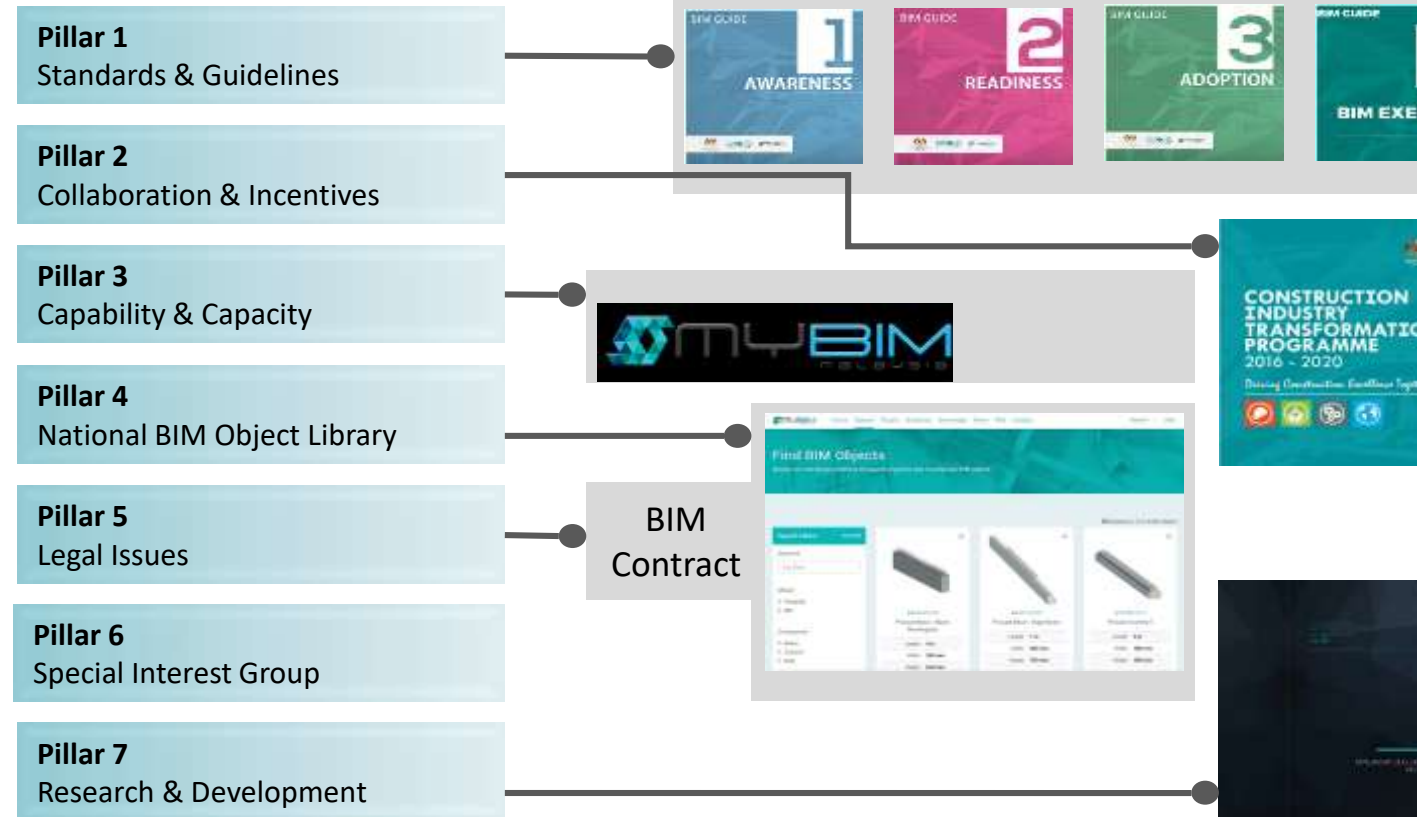


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Session 2 - BIM GIS and Surveying

BIM for GIS - Malaysian and Turkish Perspectives, Alias Abdul Rahman (UTM), Umit Isikdag (MSGSU), Sedat Bakici (TKGM) and Kherun Nita Ali (UTM)

- BIM/GIS Use-cases
- Levels of BIM/GIS integration
- National Building Information Modelling (BIM) Roadmap 2015 – 2020 in Malaysia
- 3D BIM/GIS/Cadastre Integration Turkey



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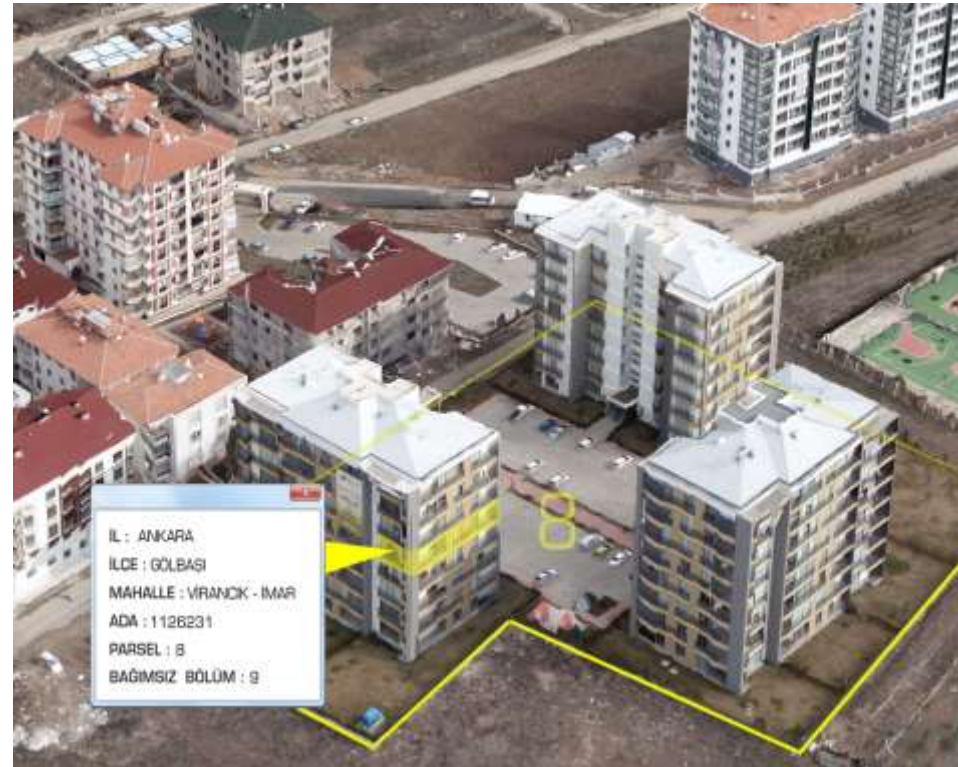


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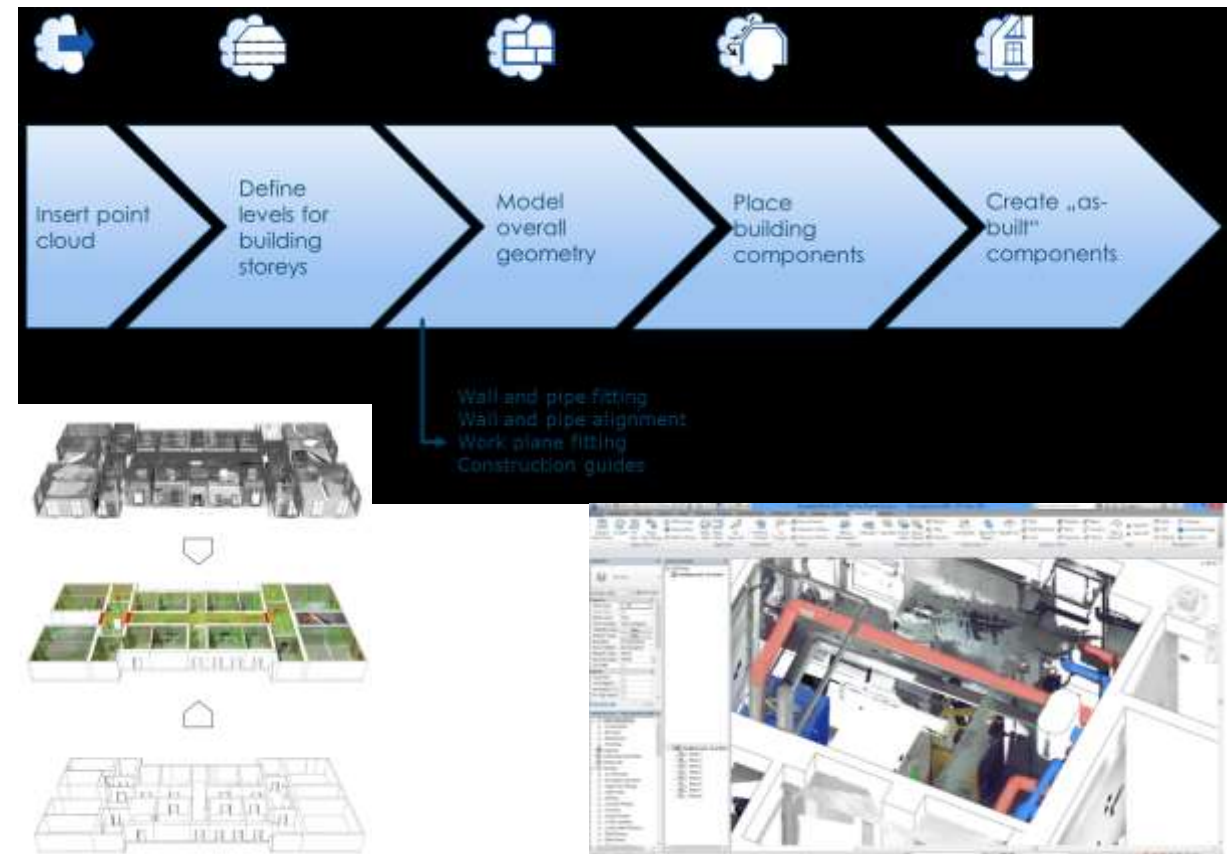


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Session 2 - BIM GIS and Surveying

BIM modelling with point clouds (Hasan Bal, Faro, Turkey)

- Faro Software
- Workflow from 3D-Pointcloud to BIM
- Automation (wall and pipe alignment)
- Future Developments



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Session 2 - BIM GIS and Surveying

Survey4BIM & BIM4Rail
(Barry Gleeson, Network Rail, UK)

Geospatial surveying as 7 virtues
...or deadly sins

The BIM “Digital Twin” for “As-Is” and “To-be”
... are they the same thing or Digital Twins ?

You need to understand BIM challenges outside survey
...to understand survey challenges in Survey4BIM



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Session 3 – BIM Management

4 little round table discussions

#1 How to establish BIM in a surveying company? (Chair: Robert Sinkner, Czech Republic)

#2 How to exchange Surveying Data with IFC? (Chair: Christian Clemen, Germany)

#3 How to collaborate with BIM and GIS? (Chair: Edgar Barreira, Portugal)

#4 Standard clauses and information requirements for survey to be included in the EIR (Chair: Barry Gleeson, UK)

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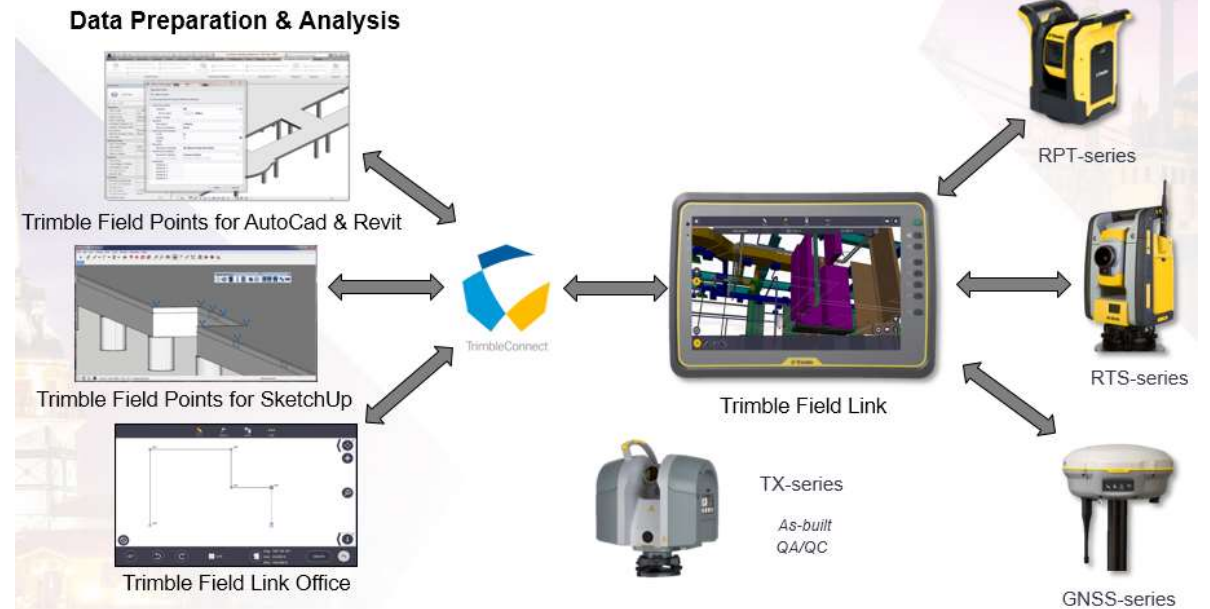
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Session 4 BIM Best Practice

Integrated Field to Finish BIM for Surveyors
(Boris Skopljak, Trimble, USA)

- BIM relevance in Trimble
- BIM in Geospatial
- Field to Finish Workflows
- Expanding Business Opportunities

Trimble Buildings – Field Solutions



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Session 4 BIM Best Practice

Visual Collaboration Platform for
Web-Based BIM
(Christian Rust , Navvis, Germany)

- Indoor Trolley
- Server based Visual BIM
- Image Based Navigation
- Case studies



NavVis

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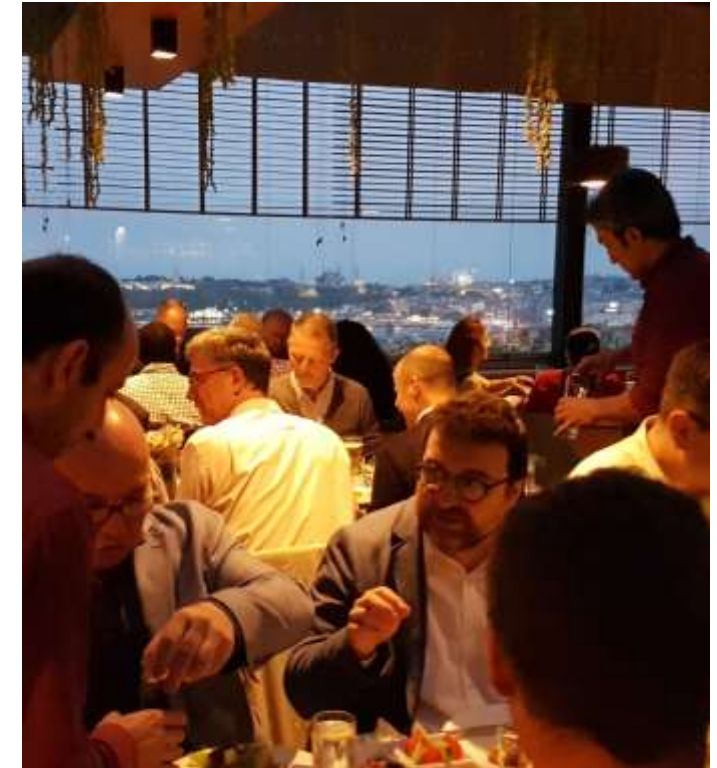


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Workshop Dinner

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Excursion on Sunday May 6th

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End-to-end BIM at the World's Largest Airport - Technical Tour

Organisation Dr. Ozan Köseoglu, iGA -
Istanbul New Airport



End to end BIM from design to Facility
Management is implemented to the
World's Largest Airport by IGA.
Istanbul 3rd airport Project is the
world's largest airport project.

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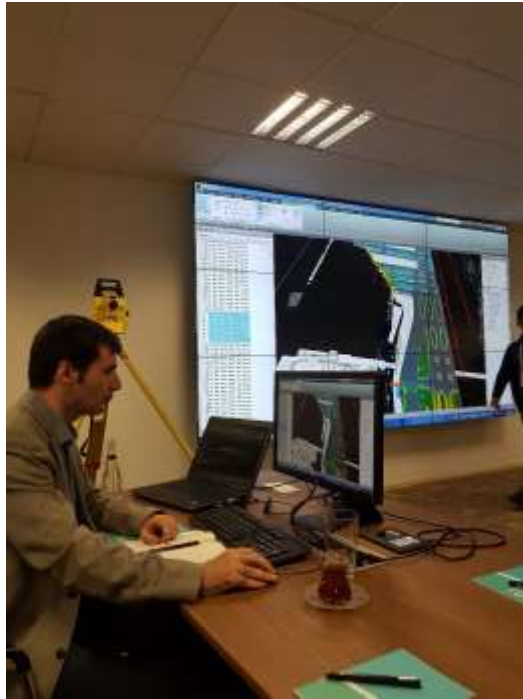


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Excursion on Sunday May 6th

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Go to:

<https://www.fig.net/fig2018/bim.htm>



BIM for Surveyors Workshop

Saturday 5 May 2018 and Field Trip "End-to-end BIM at the World's Largest Airport"
Sunday 6 May 2018

Building Information Modeling (BIM) is changing the way how surveyors work, think, estimate and make money. Using and sharing multidimensional digital representations of buildings are the driving forces for the digitalization of our work. This affects many tasks: surveyors and GIS professionals perform a 3D coordination, GIS analysis, engineering, surveying, construction work, and management and facilities management.

Scope of the Workshop:

- Training theoretical background (with BIM method) (lectures, workshops and exercises)
- Real practice presentations from large projects and GIS (from surveyors' point of view)
- Presentation of the latest software (surveying, integration and collaboration with BIM, CAD, GIS)

Audience:

- International professionals from AEC companies and civil administration agencies
- GIS and BIM experts (project manager, designers, software developer)
- Young professionals interested in this new technology for their own projects
- Academics from different countries - just few universities teach BIM with GIS
- Students and young professionals from the FIG Young Surveyors Network

The workshop will take place on Saturday 5 May and includes a field trip on 6 May 10:00 - 15:00

The workshop is organized by Christian Damm, Germany HTW Dresden

Sponsors:



A special thanks to the sponsors for making the event possible

Workshop Program - Saturday 5 May 2018

Session 1 - BIM Basics

- 09:00 BIM - the opportunities and reasons to learn - Dr. G. James Kierulff, MPCS, UK
- 09:30 BIM Introduction and Foundation (Johannes Kasper and Christian Damm, Australia and Germany)
- 10:00 BIM and GIS management (Stefan Barreira and Ole Inga Bævre, PIV Young Surveyors, Portugal)
- 10:30 Break

Session 2 - BIM GIS and Surveying

- 11:00 BIM for GIS - Application and Turkish Perspectives (Rahmetullah Aksoy, Turkey and Malaysia)
- 11:30 BIM modeling with point clouds (Yusuf Bay, PIV, Turkey)
- 12:00 Survey-BIM & BIM-BIM (Stefan Barreira, Portugal, UK)
- 12:30 Lunch

Session 3 - Little round table discussions

- 13:30 A few roundtable discussions:
 - How to integrate BIM in a surveying company? (Christian Kasper, Germany)
 - How to exchange Surveying Data with BIM? (Christian Damm, Germany)
 - How to collaborate with BIM and GIS? (Stefan Barreira, Portugal)

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