



# XXVI FIG CONGRESS

6-11 May 2018, İstanbul



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# BIM AND GIS INTEROPERABILITY



**EDGAR BARREIRA | INÊS VILAS BOAS**  
**YOUNG SURVEYORS PORTUGAL**

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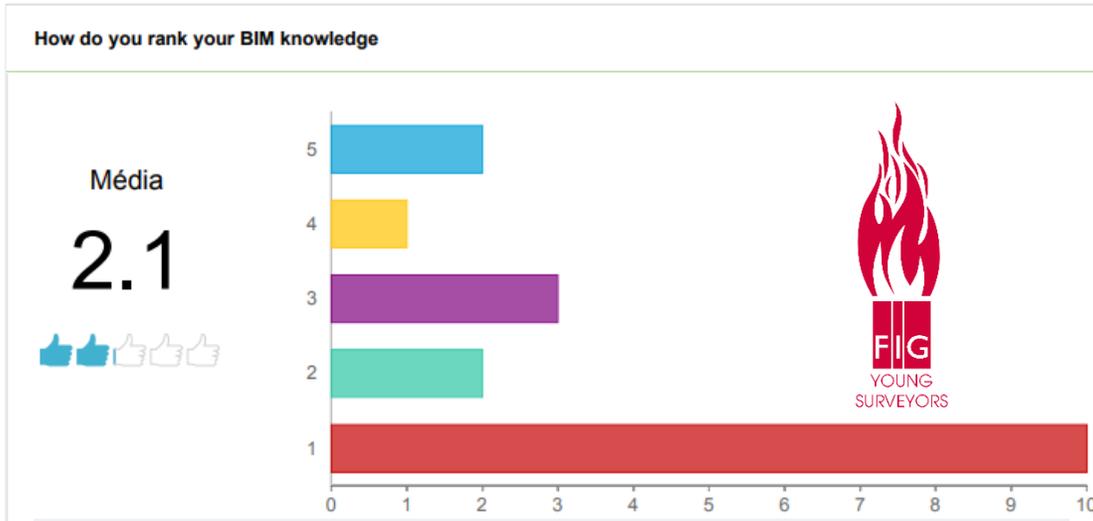
BIM for Surveyors Workshop



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# WHAT IS BIM?

How Young Surveyors looked for this one year ago (YSEM17 - Helsinki)?



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# KEY TAKEAWAYS

<b>WHAT ARE THE THREE MAIN SKILLS MUST USE TO ADD-VALUE FOR BIM WORKS?</b>	3D Cadastre, Data mashup, Create Viewers Manager of the BIM-GIS apps
<b>DO YOU USE GIS TO INTEGRATE WITH BIM?</b>	Pointclouds can ensure this point
<b>IS BIM A REAL OPPORTUNITY FOR THE PROFESSIONAL AND ITS ORGANIZATION</b>	Yes, Absolutely!
<b>WHAT ARE THE MAIN CHALLENGES FOR USE GIS WITH ARCHITECTS &amp; ENG..</b>	They use local coordinates. They need to move for GIS to get our skillss

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# RESPONSES OF YOUNG SURVEYORS LAST YEAR

## •What are the tasks Surveyors can do for BIM?

- Compare BIM model with the real as-built building;
- Project Management on the site;
- Act as a professional with standards concerns and to be part of the QA/QC team;
- Be part of the BIM coordination team;

## •What are the three main skills must use add-value for BIM works?

- Data modelling;
- Accuracy focus;
- GIS knowledge to mashup geo-information;

## •What is preferable? Virtual Reality or Augmented Reality? For what use cases?

- No preferable one. The attendees considered both are important, for different use cases. Some of the feedback about Virtual Reality focused on the Design phase and to prepare emergency plans. Some of the feedback about Augmented Reality focused on the Construction phase and to review the real building after construction (to compare with the projected building).

## •Do you want to work in BIM in the future?

- Yes, no doubt! All the attendees were motivated to learn more about BIM and to use the skills to improve BIM projects.

## •Can BIM improve the salaries of the Surveyors?

- A lot of doubts! The attendees had some doubts about the way the Surveyor can show another ones how valuable can be its knowledge to speed-up the implementation of BIM workflows. CheeHai Teo was in the room in this part showing the urgency for all the Surveyors to learn more about these trends and to use the knowledge inside the construction teams.

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**THANK YOU!**  
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