The BIM Importance
A Holistic View

Arman Mahmoudi
Project Manager & researcher
(MSc. Eng., P.E., MBA)
Oulu University of Applied Sciences(OAMK), Finland
Why the SMEs?

Who are the target groups?
90% of the firms are SMEs

The European construction sector represents:

9% of EU GDP
18 million people
3 million enterprises

EUBIM task Group, 2016
European Commission
The SMEs & BIM!

The Current Situation
A Global View
Current situation of the industry

1. Data & info management
2. Effective integrated management
3. The parallel and unnecessary activities
4. Mass production
5. The waste and recycled materials
6. Safety and risks
7. Energy & CO2 emission
8. Labors and professional worker difficulties,
9. Consuming natural resources
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Why the situation is like this?
The tech adoption curve
The possible solution
What is ideal?
What is available?
BIM as a New Technology!
What is BIM?

BIM as an acronym has two meanings:

- **Building Information Model** ........................ BIM
  - It is a product!
  - 3D design model vs. 2D design model
  - Digital & parametric model containing data
  - Common data platform IFC, COBie
  - Tools and software (Revit, Tekla, ArchiCAD, Solibri, etc.)

- **Building Information Modeling** .............. BIM
  - McGraw-Hill Construction defines BIM as "The process of creating and using digital models for design, construction and/or operations of projects."

OAMK  
ICNB  
Interreg Nord
BIM as Modeling

Sequential & Single process

Parallel & Shared process
BIM as Modeling

- Facility Manager
- Erector
- Site Manager
- Owner
- General Contractor
- Architect
- Fabricator
- Mechanical Engineer
- Detailer
- Structural Engineer
BIM as Modeling
CONSTRUCTION SITE OF THE FUTURE

CONNECTED

WIRIS SITE

DOCS

ENTERPRISE INSIGHT

SITE SENSORS

Robotic

COLLABORATIVE

Building Product

Skilled Labor

Delivery

Coordinated

Integrated Supply Chain

Automated Machines

ON-TIME

SAFE

High Quality

EN-BUDGET

Equipment Management

HQ

OAMK

GULU UNIVERSITY OF APPLIED SCIENCES

ICNB

Interreg Nord

European Regional Development Fund
The Future of Building Industry
Information Modeling technology is one of the pillars of the AEC industry’s future!
The future!

- 3D Printing
- AEC/O/M/D automation, AI, Big Data, IoT & robotics
Conclusion

1. We should increase the SMEs knowledge of BIM

2. A general BIM implementation framework/guideline can help SMEs to adopt an effective way and be ready for the future which can increase their competitiveness and profit
Thank you! ☺

Q/A?