ICNB final seminar – Oulu – December 3, 2019
Antti Haapalahti, OUAS
Project partners and roles

**Oulu University of Applied Sciences (OUAS)**
Coordinator
Development of usage of BIM in SMEs

**UMEÅ UNIVERSITY**
Uméa University (UU)/Uméa City Building supervision department
BIM use and implementation: Mapping opportunities of Lean and BIM technology, process and policy fields in building projects
Building code management

**Luleå University of Technology (LTU)**
BIM in northern building industry; BIM for sustainable building: a multiple stakeholder perspective

**Arctic University of Norway (UIT)**
Narvik, Alta Campus
Energy performance design as a part of BIM

City of Oulu, Building Supervision Office (OBS)
BIM-model for building permissions, Dissemination
Associate partners

GK Inneklima AS
T. Jespersen AS
Microkonsult AS – Norway
Alta Kommune Norway
Smart Construction Cluster, Alta

Rakennus Miilukangas Oy
GroupBuilder Oy
Kaskipuu Oy
Lemminkäinen Oyj Finland
Itid Tarinfo Ab
Funding

- Interreg Nord [www.interregnord.com](http://www.interregnord.com)
  - Priority Area 2 Entrepreneurship with special target for enhancing the cross-border business
  - EU funding 65% (Nord, via Norrbottens länstyrelse) + national funding 35%
  - Budget breakdown structure (total 1,27 M€)
    - Personnel costs
    - Office and administration cost, or instead 15% flat rate of Personnel costs
    - Travelling and accommodation costs
    - External expertise and service costs
    - Equipment cost

[https://www.icnb.eu/](https://www.icnb.eu/)
Topics and stakeholders

- Architectural design
- Technical planning
- Communication facility services
- Maintenance
- Life cycle management
- Oulu University of Applied Sciences
- Luleå Technical University
- Oulu Building Supervision
- Building Industry Associations
- Umeå University
- Arctic University of Norway
- Real Estate, Maintenance companies
- Architect companies
- Special planning companies
- Component building factories
- House building factories
- Building and construction companies
- Oy
- AS
- AB
- Window, Door manufacturers
- Architect companies
- Energy analysis model
- Code compliance
- Quantity takeoffs
- Project management
- Construction documents
- Digital fabrication
- High quality rendering
<table>
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<tr>
<th>WP name</th>
<th>Resp</th>
<th>Participants</th>
<th>Tasks</th>
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| WP1 Communication                                                     | OUAS | LTU, UU, UiT, OBSO | T1: Seminar planning  
T2: Workshop content planning  
T3: Communication to public audience  
T4: Communication to professionals  
T5: Social media communication |
| WP2 Management                                                         | OUAS | LTU, UU, UiT, OBSO | T1: Content management  
T2: Financial management  
T3: Steering group, Project group and work meeting organization  
T4: Final reporting |
| WP3 BIM use and implementation for sustainable building: Mapping opportunities for SMEs | LTU  | UU, UiT, OBSO, OUAS | T1.1: Orientation of BIM technology, process and policy fields  
T1.2: Interviews with representatives of local authorities  
T1.3: Interviews with representatives of relevant trade organisations as well as SMEs, -AECs and SME real estate holding and maintenance enterprises  
T1.4: Synthesis of results from T1.1-3.  
T2.1: Cross-analysis of BIM opportunities  
T2.2: Online three-country workshop gathering representatives of local authorities  
T2.3: Workshops gathering stakeholders cooperating in on-going building projects.  
T3.1: Synthesis and reporting of results at an online seminar inviting local authorities and building sector SMEs, including AECs and real estate holding and maintenance enterprises |
| WP4 Energy efficiency management in model based building information    | UIT  | UU, OUAS, OBSO   | T1: Integration of energy measurement and simulation data with BIM  
T2: Use of construction and energy performance simulation in renovation projects  
T3: Using BIM as tool for efficient building operation  
T4: Dissemination and learning tools; Synthesis of T1-T3 |
| WP5 Piloting and good practices evaluation                              | OBSO | UU, UiT, OUAS, LTU | T1: Building code difference analysis and requirements to BIM models  
T2: BIM operated planning permission pilot  
T3: Practices in BIM operated building projects and management  
T4: Evaluation of the experienced practices |
Thank you!

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