

5th International Workshop

When Social Science meets Lean and BIM

University College Northern Denmark

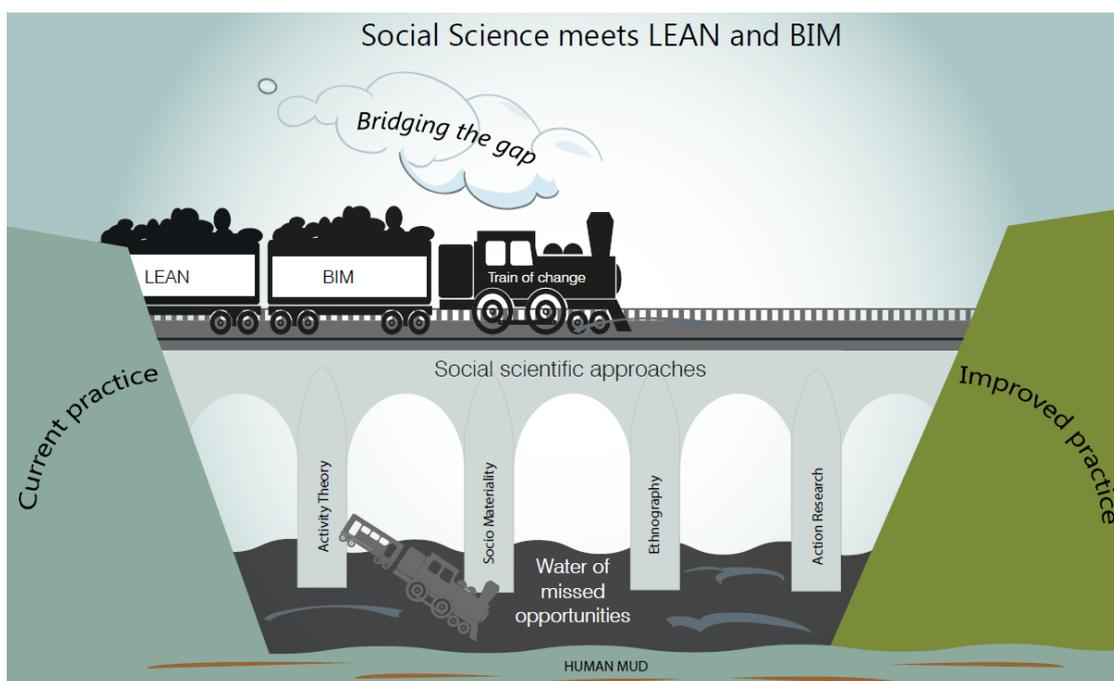
Hackathon 25th January 2017

Workshop 26th and 27th January 2017

Venue: Utzon Center, Slotspladsen 4, DK- 9000 Aalborg.

Motivation Underpinning the Workshop

“When Social Science meets Lean and BIM” is an international workshop, formerly held in Salford, Helsinki, Liverpool and Huddersfield. The focus is on bringing social science and humanistic perspectives on engineering, project management, and design studies in fertile interaction together concerning research on BIM and LEAN. The workshop is concerned with promising concepts of the construction industry, implementation of LEAN and BIM. LEAN is a management concept that focuses on the production process and value optimizing. Building Information Modelling (BIM) is a technologically mediated concept of efficient exchange of information, facilitating the digitalization of the construction industry. Compared to concept’s potential, BIM is still being applied in a quite restricted sense, mostly in design phase but a bit by bit for manifold purposes. This requires novel ways of working, regulations, guidelines, applications, etc., and also novel approaches from research. Despite the concept’s well-documented potential, the industry still finds it difficult to generate the expected value. The overall aim of the workshop is, then, to work with new understandings and approaches that can make positive contributions towards achieving the full potential of LEAN and BIM.



The creators of the workshop, researchers from Salford University and the CRADLE group (University of Helsinki) have identified two aspects of BIM which warrant further research, namely: the necessity of a better understanding of LEAN and BIM, and its improvement integration in workplace practice. The researchers argue that current research enterprises have been too focused on technological and organizational perspectives. Therefore, research and development into LEAN and BIM must have a greater focus on their utilization in everyday practice, thus bridging the gap between potential value and current practice. *“How to cross the bridge over water of missed opportunities and unfulfilled potentials? What is the energy to fuel the practice train to improvements?”*

AIM – “Bridging the gap”

The aim of the workshop is to generate new perspectives and understandings (invoking social scientific approaches) of a better use of digital technologies (BIM) and collaborative construction methods (LEAN). Combining solution-driven and problem-driven approaches together for new openings. Specific objectives of the workshop:

- Creating new ideas and knowledge across academic disciplines.
- Creating networks between researchers, students, practitioners across disciplines and nations.
- Working with challenges close to practice.

Who can participate in the Workshop?

This year, the workshop invites researchers and practitioners from the construction industry to participate in a Hackathon*. Practitioners from the surrounding industry are welcome to participate both in the Hackathon and the workshop itself.

Program

Wednesday is intended for Ph.D. students and other interested, where the hackathon is held. Ph.D. students are invited to develop prototypes with the use of BIM. A hackathon (or a hack day) is where developers meet and cooperate intensively about concept prototyping. Hackathons are often conducted within a specific theme, centered about few data (source: Wikipedia). The Danish contractor, MT Højgaard, makes their VDC-lab available during the hackathon. The participants work or conduct research in the use of LEAN and BIM.

On Thursday and Friday, the workshop will take place in the Utzon Center in Aalborg. On Thursday, a keynote speaker opens the workshop. Hereafter, discussions will be conducted at “round tables”. In the afternoon, the results of the Hackathon will be presented. The day ends with a Conference Dinner in Aalborg City. On Friday a second keynote speaker will start the day, and the last paper session will take place. The day will be concluded with a recap of the key insights of the workshop.

Input – output

- Before Workshop
 - Send abstract, latest the 20th November
 - Abstract review, the 27th November (accept/reject)
 - The accepted abstracts must be developed into a short paper of maximum six pages.
 - Deadline for paper submission, the 12th January.
- Workshop
 - The short paper is discussed at the workshop
- After Workshop (Journal processes begin)
 - Invited papers will be selected for a Special Issue
 - The short papers have to be further developed to the journal’s requirements
 - Papers will be reviewed by the journal reviewers

Workshop Chair

Henrik Buhl – Docent of Technology Research – University College Northern Denmark.

Keynote speakers

Christian Koch - Professor of Process Management and Innovation at Chalmers University of Technology, Sweden.

Sami Paavola - Docent of Adult Education at the Centre for Research on Activity, Development, and Learning – University of Helsinki.

Advisory Board

Arto Kiviniemi – Professor of Digital Architectural Design, one of the leading experts within integrated Building Information Modelling (BIM) – University of Liverpool.

Lauri Koskela - Professor of Construction and Project Management, Lauri is one of the founders of the International Group for Lean Construction - University of Huddersfield.

Reijo Miettinen - Professor of Adult Education at the Centre for Research on Activity, Development, and Learning – University of Helsinki.

Rafael Sacks - Associate Professor, is an international recognized BIM expert and co-writer of the recognized BIM Handbook - Israel Institute of Technology.

Hannele Kerosuo - Docent of Adult Education at the Centre for Research on Activity, Development, and Learning – University of Helsinki.

Patricia Tzortzopoulos – Professor of Integrated Design, and Head of Department of Architecture and 3D Design, University of Huddersfield.

Enrollment

Prices 150 €, including beverage, dinner and a social event.

Contact Info

Find more information, register and upload abstract at our official homepage:

<http://ucn.dk/english/events/social-science-and-bim/when-social-science-meets-lean-and-bim>

Please contact Peter for further information:

Peter Gade, Ph.d. Student and workshop organizer

pega@ucn.dk

+45 22 99 21 30