

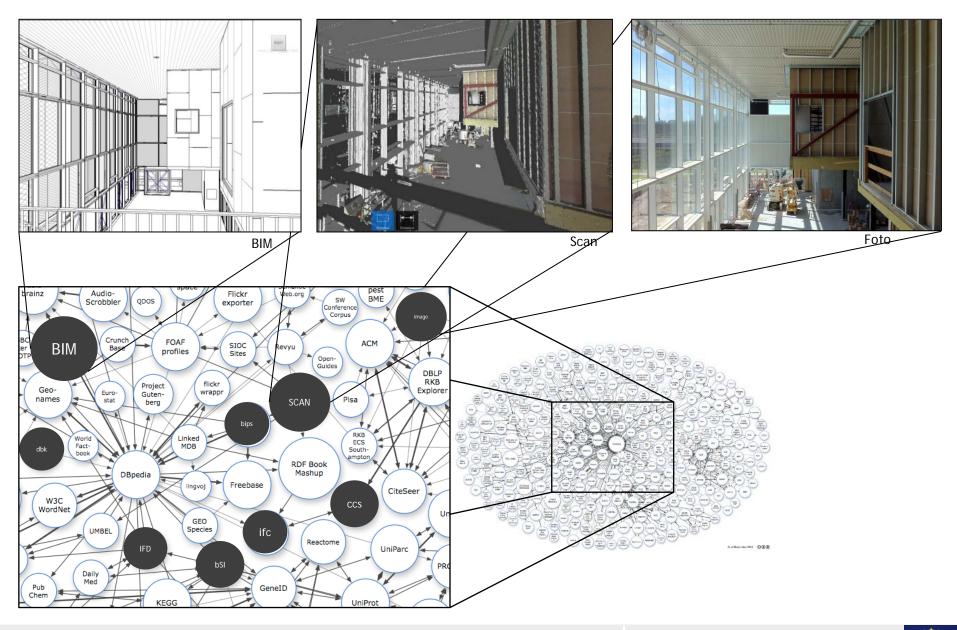
DURAARK (Durable Architectural Knowledge) is a collaborative project developing methods and tools for the semantic enrichment and long-term preservation of architectural knowledge and data. It is funded through the European Commission's FP7 Programme and is running between 02/2013 — 01/2016. www.duraark.eu











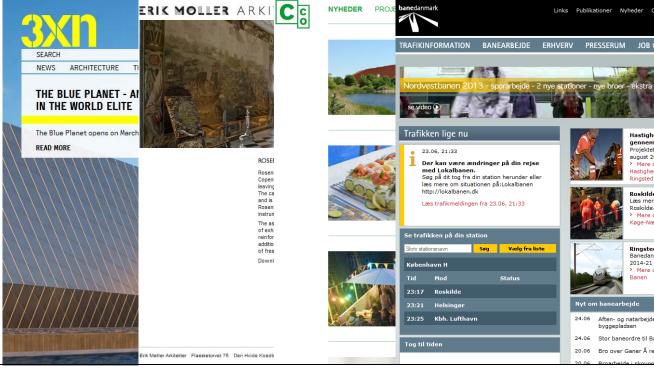
Semantic Web - Means to Connect and Compare





Extended DURAARK Partnership with Stakeholders

3XN ATS **Autodesk Research Autodesk Training Bane Danmark** ARCHITECTURE **Bentley** CITA THE BLUE PLANET - A! **Erik Møller Architects** IN THE WORLD ELITE ICD The Blue Planet opens on March Karlsruhe Institute of Technology Københavns Ejendomme LandmaalerGaarden LE34 **National Institute of Building Sciences** NCC Nemetschek VectorWorks PLAN3D Scanlab Selvaag Gruppen / DDS Data Design System Statsbygg Studio ATP Studio Christensen & Co Architects / CCO **Studio PLH Architects** TIB



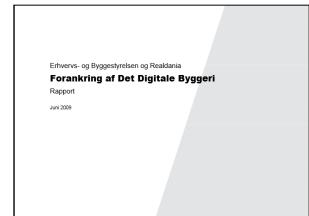






DENMARK SINCE 2007: BIM DEMANDED FOR PUBLIC BUILDINGS

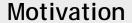
- State >2,5 mio Euro => BIM
- Municipalities >0,7 mio Euro => BIM
- Competition phase demands 3D model (IFC)
- Digital exchange of information via project web
- Quantity take-off from IFC model
- Digital handover of facility management information

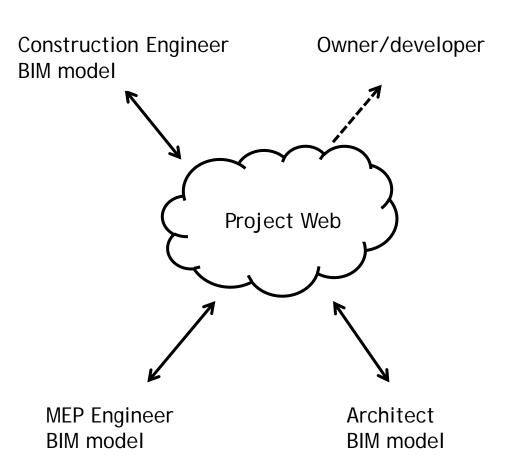


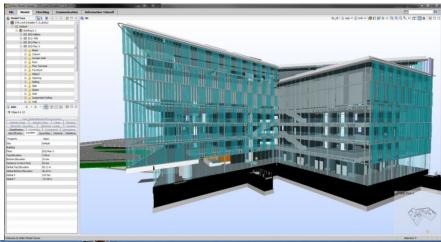












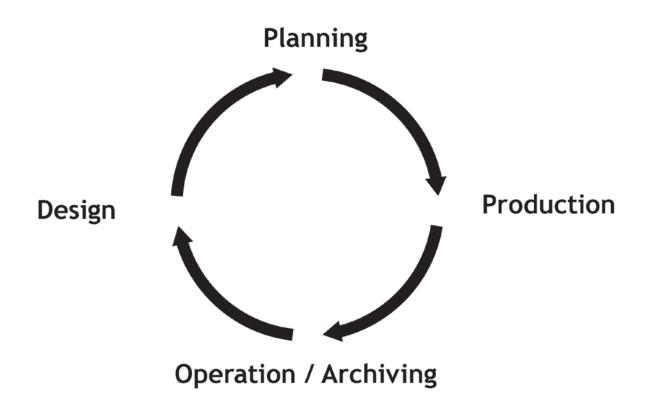


Lund Cristallen by DURAARK partner CCO architects

Current practice with BIM in building profession



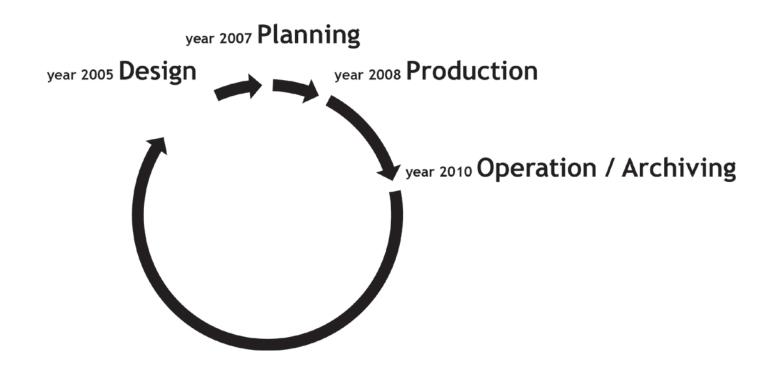






CITA

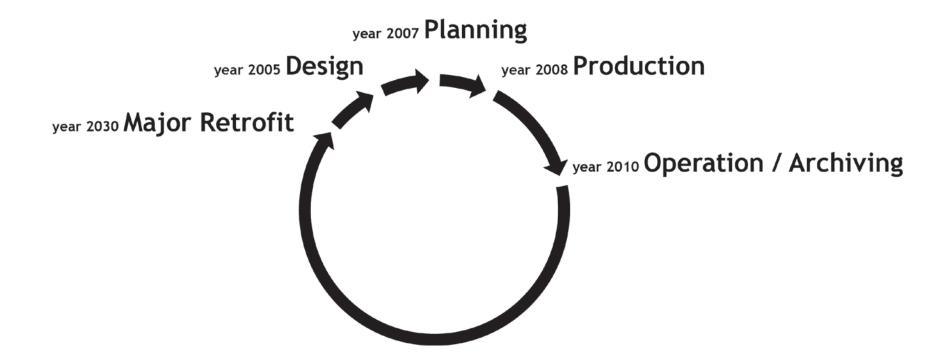








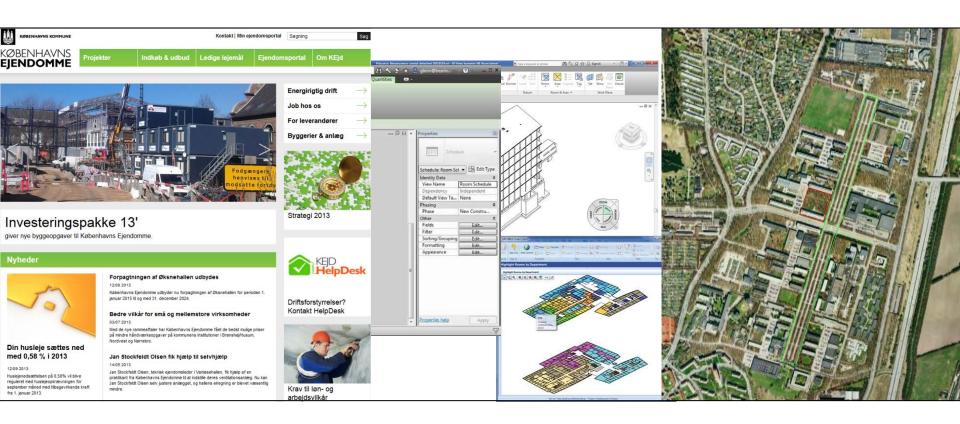






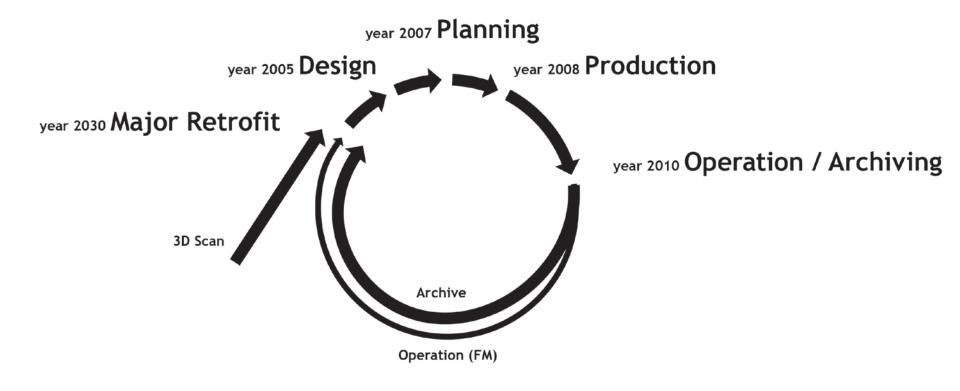


Stakeholder: Building Owners and Real Estate Managers















9.15 - Intro

9.25 - Personal intro of the participants

10.00 Session 1: Approaches

11.00 Coffee

11.20 Session 2: Data Practices

13.00 Lunch

13.40 Session 3: System architectures

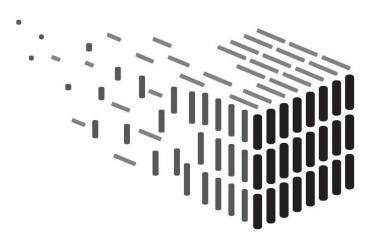
14.45 Work sessions

16.30 Conclusion

17.30 Expected End



Workshop Agenda and Expected Outcome



DURAARK DURABLE ARCHITECTURAL KNOWLEDGE

CITA



10.00 - **Future challenges**: the shift to external web resources and their consequences for the architectural profession - The DURAARK approach - (Jacob Beetz, TUE)

10.25 - Geometric Enrichment of Building Data (Martin Tamke, CITA, Richard Vock, UBO)

10.30 - **Sustainable data practices** - state of research in long-term archiving of Building Information Data (Michelle Lindlar, TIB)

10.40 Question and Answers/Discussion







11.20 - Mapping the building stock of Copenhagen

(Emil Bisgaard Mortensen, Københavns Ejendomme)

11.45 - Managing the Building stock on University scale (Markus Lampe, Danish Technical University)

12.00 - Q+A Discussion







13.40 - **Systems to manage building data**Bent Dalgaard Larsen/ Denmark (DaLux)

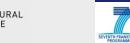
13.55 - **Systems to manage building data** Ole Kristian Kvarsvik / Norway (dRofus)

14.10 - **Systems to Collaborate- bimsync** Dag Fjeld Edvardsen / Norway (Catenda)

14.20 - Approaches to long-term archiving Systems - The DURAARK approach Thomas Krijnen (TUE)







Group 1

Bent Dalgaard Larsen Dalux (DaluxFM)

Jesus Montilla Statens fastighetsverk (The National Property Board of Sweden)

Michael Ørsted Lufthavn København

Gita Monshizadeh Bane Danmark
Martin Tamke CITA Copenhagen
Marco Fisichella L3s Hannover
Michael Panitz TIB Hannover

Group 2

Ole Kristian Kvarsvik dRofus

Erik Aaberg Arkivverket (Norwegian National Archives)

Markus Lampe Danish Technical University

Jacob Beetz TU Eindhoven
Hamid Rofoogaran LTU Lulea
Thomas Krijnen TU Eindhoven
Lena Lindbäck LTU Lulea

Group 3

Anders Engstrom Falun Kommun

Morten Steffensen Copenhagen Properties

Dag Fjeld Petersen Catenda

Riksarkivet Johan Gåsste / Johan Ekdahl

Michelle Lindlar TIB Hannover Henrik Leander Evers CITA Copenhagen

Frode Randers LTU Lulea
Richard Vock UBO Hannover

WORK SESSIONS: GROUPS







Reflection past

- where did IT systems work/ not work in respect to lifecycle and Longterm Archiving
- why did it not work / why did it work?

Current practice

- what data would you use / reuse in an emerging building lifecycle?
- How much effort is set into archiving of building related data?
- What is your current/typical landscape of IT-system? (diagramming)

Outcome: Map of current IT systems in practice

Current processes with Building Information

Future Practice

- what are the challenge and potentials from what was heard today for your future practice (i.e. through linked data, enrichment)?
- where does your / the professions practice need to change and with what requirements
- who is implementing this processes into systems and workflows for users? Is this a question of responsibility?
- How can adaptable systems look like?
- how could your system/ process be using a longtime archive functionality? (diagramming)

Outcome: A map of a future process and system of yours?

Diagram steps towards







