

What does BIM mean to me?

Why deal with BIM?

Help build and operate buildings more efficiently and with better quality.  
The goal is definitely not to „do BIM“

How can BIM help if its content is only information?

Quickly, comprehensibly and guaranteed to provide correct, valid and up-to-date information for decision-making (people and technology) at the right time

How do we achieve it?

Collection of data from the building information system and its use for decision-making  
Creation of a central data environment (CDE) for the project  
Integration of all project data into a central data environment (CDE)  
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WORKSHOP II  
COMMON DATA  
ENVIRONMENT (CDE)  
IN THE PUBLIC SECTOR

Prague, 25 September 2023

## WORKSHOP II COMMON DATA ENVIRONMENT (CDE) IN THE PUBLIC SECTOR **THE WORKSHOP**



### **WHY?**

Response to the needs of our members to specifically share their own knowledge, experience, concerns, and challenges that they go through when implementing information management (BIM) in their daily practice.



### **WHAT?**

Share of knowledge, experience, concerns and challenges



### **GOAL:**

To go into practical details about CDE implementation at both the project and the organizational levels with a focus on fair contract specifications and the client's CDE usage for the whole supply chain.



### **WHO?**

The workshop participants were representatives of EU policymakers and large public clients from 8 countries – Croatia, Czech Republic, Estonia, Ireland, Italy, Bulgaria, Hungary and Spain.



### **THE OUTPUT IS INTENDED FOR THE ACHIEVEMENT OF COMMON GOALS**

- a free market
- a transparent and non-discriminatory competitive environment
- efficient spending of public money
- support for digitization
- the Green Deal
- reducing the carbon footprint, etc

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**FINDINGS**

**1**

We believe that **CDE is the technological solution** to deliver in practice finding No.4 from our first workshop. **It is not one single tool** but a centrally-managed ecosystem of digital tools and processes that connects data and communication flows related to a project in a structured and standardized way.

**2**

**A CDE** and the information management principles defined within ISO 19650 **can be successfully implemented** even in projects undertaken **in the traditional manner** (i.e with no 3D modeling). Such projects can still benefit from the discipline and transparency that derives from CDE process workflows and well-organized information stores and can deliver positive outcomes in terms of time savings and quality.

**3**

**The final goal is to implement the CDE at the organizational level through pilot projects.** A pilot would allow employees and other project stakeholders explore the CDE environment and experience the advantages it can deliver through new collaboration opportunities. Organizations must create new ways of working as existing working methods may not be suitable to sustain a CDE environment. CDE implementation is a core part of the digital transformation of a public client in the asset industry.

**4**

With BIM, **there is no requirement to produce additional information over and above what would typically be generated on a project** using traditional documentation-creation methods. It simply creates a transparent environment where this information is accurately named, structured and linked in an organized fashion. The whole process uses standardised procedures and storage methods.

**5**

**CDE is not discriminatory** when using open formats and OpenAPI connections for suppliers. And there is no demand on suppliers for any fees or spending to buy their own licences or tools to collaborate through public client CDEs.

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**CONCLUSIONS**

**1**

With **BIM**, there is **no requirement to produce additional information over and above what would typically be generated on a project** using traditional documentation-creation methods. It simply creates a transparent environment where this information is accurately named, structured and linked in an organized fashion. The whole process uses standardised procedures and storage methods.

**2**

**A client-managed CDE platform allows public clients to set common structures, rules and standards** from the national level (e.g. building permits), through the organisational level and all the way up the supply chain, interconnected (LOIN-level of information need principle). That will bring significant savings and efficiency for information management (BIM) in the public sector.

**3**

For transparent and fair tendering, **BIM public projects must be included in tender documentation** and contracts must clearly describe and specify what precisely will be provided **via the public client's CDE**. The roles and responsibilities of the various parties in relation to the management and operation of the CDE need to be clearly set out in the contract, along with the processes for managing and sharing information and project communications. This also needs to factor in possible API connectivity with the supplier's own CDE solution.

**4**

**Well-implemented CDE**, clear rules and well-documented standards on the public client side, together with a Data dictionary **would facilitate the reuse of** verified project and **building information/data for future new purposes**. This would allow CDE to deliver additional value.

