



BIM implementation in the Czech Republic

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ICIS Cologne, June 2018





BIM implementation in CZ (2013 ICIS DA Hiroshima)

- **problems**

- contractual relationship and **authorship**
- lack of BIM definition in legislation and standards
- **low interest** of government and investors
- small number of experienced experts
- **motivation** is missing

- **solutions**

- impulse from private sector
- get BIM into **legislation and standards** (cooperation with CZ BIM)
- creation of **Czech BIM Guide**
- **BIM object library**





BIM implementation in CZ (2018)

- **current status**

- contractual relationship and **authorship**
 - Now in process
- lack of BIM definition in legislation and standards
 - BIM guide, BIM guide for investors, creation of standards etc.
- **low interest** of government and investors
 - Government strategy to implement BIM for big projects since 2022
 - Initiative called Construction 4.0
- small number of experienced experts
 - Several pilot projects, big contractors and investors are working with BIM
 - Positive development also in area of education at both universities and high schools
- **motivation** is missing
 - Construction market now provides motivation itself as well as prepared governmental strategy





Czech Agency for Standardisation (ČAS)

- **established in October 2017**
- **part of Czech Office for Standards, Metrology and Testing (ÚNMZ)**
 - national standardisation body
 - Cooperation with CEN and ISO
 - Technical Standardisation Committee 152 for BIM (TNK 152)
- **main task**
 - creating, publishing, issuing and distribution of standards
- **new system of financing**
 - Enables to allocate more financial resources to the system of creation of technical standards – strengthen of quality and range of both national and international documents





Concept of BIM implementation

- after several years of negotiations with government where the importance of BIM was emphasised
- **Concept of BIM implementation** in the Czech Republic was approved by government (25th September 2017)
- Ministry of Industry and Trade is responsible for application of this concept by innovation of current processes by using advantage of Information technologies
- Execution by **BIM concept department** of ČAS
- goal – using BIM for large projects since 2022





BIM concept department

- **preparation of standards, methodologies and other related documents for BIM implementation**
- **so far 6 working groups were established**
 - WG 1 – pilot projects
 - WG2 – Public procurement, project management and contracts
 - WG3 – Standards of Data and Information requirements
 - WG4 – Data and Information for cost management
 - WG5 – Education, marketing
 - WG6 – Terminology and standards





ÚRS in Working Groups for BIM

- **WG4 – Data and Information for Cost Management**

- Group of cost experts
- Common goals were set (new terminology and methodology)
- Currently there is classification research ongoing – help from ICIS welcome

- **WG6 – Terminology and Standards**

- Barbora Pospisilova as an official member of a team
- BP also nominated as an expert for ISO TC59 SC13 WG6
- Other experts actively involved in CEN TC 442
- Dictionary of Terminology – all terms occurring in legislation and standardisation
 - BIM filter active





BIM Guide for Investors

- **WG1 of CzBIM** (Czech BIM Council) - BIM Standards and Legislation published BIM Guide for Investors (May 2018)
- Barbora Pospisilova as a leader of the team for this project
- **chapters:**
 - Why is should require BIM?
 - Cooperation with BIM
 - BIM myths
 - Decision making process and BIM
 - Possible scenarios of BIM implementation
 - Examples of BIM implementation within different phases of project lifecycle
 - Software
 - Answers to the most common question which can arise in investors' mind





Useful links and contacts

www.urspraha.cz

www.pro-rozpocety.cz

www.cs-urs.cz

www.czbim.org

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THANK YOU FOR YOUR ATTENTION

