Standards for BIM in Czech republic
Why standards?

- To ensure quality, safety and efficiency
- Better communication, understanding

[Map of ISO member bodies, correspondent members, and subscriber members.]

ISO: [http://www.iso.org](http://www.iso.org)
Technical committee TC59

- **ISO cooperation:**
  - TC 184/SC4 Industrial data (IFC format)
  - TC 211 Geographic information/Geomatics
  - TC 59/SC14 Design life
  - TC 10/SC8 Construction documentation

- **Advanced cooperation:**
  - TC 251 Asset management
  - TC 267 Facilities management

- **Source for standards:**
  - buildingSMART International

- **Working group:**
  - TC 59/SC 13/WG 2 Classification of the information on the construction industry
  - TC 59/SC 13/WG 6 Framework for object-oriented information exchange
  - TC 59/SC 13/WG 7 Process management
  - TC 59/SC 13/WG 8 Building information models - Information delivery manual
  - TC 59/SC 13/WG 9 BIM guidance
  - TC 59/SC 13/WG 10 Object libraries
  - TC 59/SC 13/WG 11 Product data for building services systems model
Countries/members TC59/SC13

ISO/TC 59/SC 13 - Organization of information about construction works
Published standards ISO

- TC59 / SC13 (Organization of information about construction works)
  - ISO 22263:2008 Organization of information about construction works -- Framework for management of project information
  - ISO/TS 12911:2012 Framework for building information modelling (BIM) guidance
  - ISO 16354:2013 Guidelines for knowledge libraries and object libraries
Published standards ISO

- TC184 / SC 4 (Industrial data)
- TC59 / SC14 (Life planning)
  - ISO/DIS 15686-4 Building Construction — Service Life Planning – Part 4: Service Life Planning using IFC based Building Information Modelling
Under development ISO standards

- **TC59 / SC13**
  - ISO/NP 19650-2 Organization of information about construction works -- Information management using building information modelling -- Part 2: Delivery phase of assets
  - ISO/DIS 16757-2 Data structures for electronic product catalogues for building services -- Part 2: Geometry
  - ISO/DIS 29481-1 Building information models -- Information delivery manual -- Part 1: Methodology and format

- **TC184 / SC 4**
  - Joint Working Group JWG12 Development of building data related standards - next releases of ISO 16739 (IFC) will be published by ISO TC59/SC13
Situation in Czech republic

- ČR (ÚNMZ) is P-member of ISO/TC 59/SC 13 from February 2015 (O-member during 2011-2015)
- ÚNMZ was a member of CEN/BT/WG215 =>
- New CEN TC442 Building Information Modeling (BIM) is established
- ISO standards included in ČSN in english version

- Standards versus legislation -> real use ?
- Construction industry fragmented - administration as well (MPO, MMR, MK, MF, ...)
- Starting to discuss with administration - June 2014
- Currently a project prepared - result September 2015 ?
Use of BIM / IFC today

• Communication between designers
  – Building model
  – Source for MEP, structural engineers
  – Advantages:
    • Different applications
    • Automatic floors with connections
    • More information
    • Focus on the design
    • Clash detection, simulation

• Communication designer - construction company

• Construction planning
Use of BIM / IFC / COBie in the future?

- Cost estimation
- As-built documentation
- Facility Management
- E-procurement?
- E-permission?
What we need?

• General rules and guidance
• Agreed terminology
• Localisation of standards
• Unified classification system (building, infrastructure)
• Libraries from producers

• Defined requirements
  – Administration/government
  – Construction companies
  – Facility managers
Thank you...