

BIM and working conditions

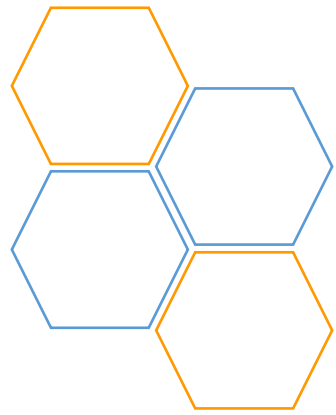
Vasil Tanev, MSc Eng. part-time lecturer, Department of Organization and Management of Construction (UACEG, BG)

SuSodCo 3th Virtual Capacity Building Event

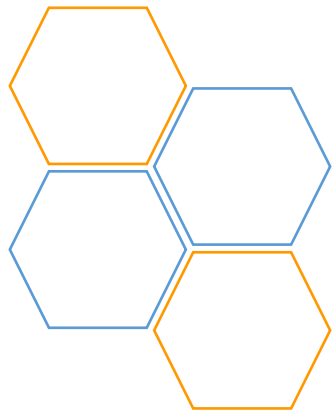
Seminar 28.06.2021

What is BIM?

- BIM – Building Information Modeling
- Difference between parametric 3D Building Information Model (BIM) and the geometric 3D CAD model
- Critical points of intersection (Clash detection)



Working conditions



- **ORDINANCE № 2 of March 22, 2004**
- **Federation of Independent Construction Unions** - Increased risk in the construction sector
- **Risks and hazards** in construction

CONSTRUCTION

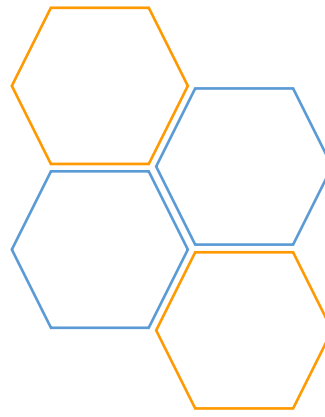
HAZARDS AND SAFETY



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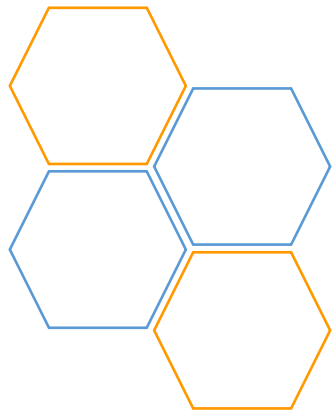
Direct / Indirect hazards

- **Hazards (threats)**
 - Direct
 - Indirect
- **Direct threats:**
 - Falling from a height
 - Becoming trapped and buried in an excavation
 - Injuries when carrying heavy objects
- **Indirect threats:**
 - inhalation of asbestos fibers;
 - contact with hazardous substances;
 - hearing loss due to high noise levels
 - electric shock;
- BIM – Building Information Modeling
 - Building
 - Information
 - Modelling

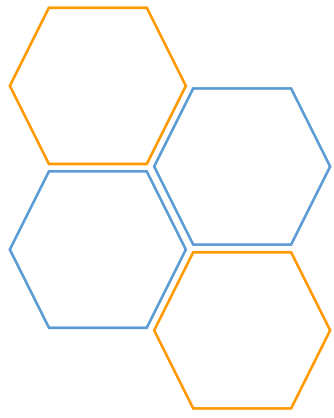


Working conditions - phases

- Planning/designing
- Construction
- Operation



During construction and operation





Chamber of Commerce and Industry of Slovenia

Chamber of Construction and Building Materials Industry of Slovenia



FEDERATION OF THE BUILDING CONTRACTORS ASSOCIATIONS OF CYPRUS

Ο.Σ.Ε.Ο.Κ

European Federation of Building and Woodworkers



ÉVOSZ



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PANHELLENIC ASSOCIATION OF ENGINEERS CONTRACTORS OF PUBLIC WORKS



КАМАРА НА СТРОИТЕЛИТЕ В БЪЛГАРИЯ
BULGARIAN CONSTRUCTION CHAMBER



Thank you
for your attention!