



Digitising Health and Safety An Overview

ISHCCO

Alfredo Soeiro - Vice-President

International Safety & Health Construction Co-ordinator's Organisation

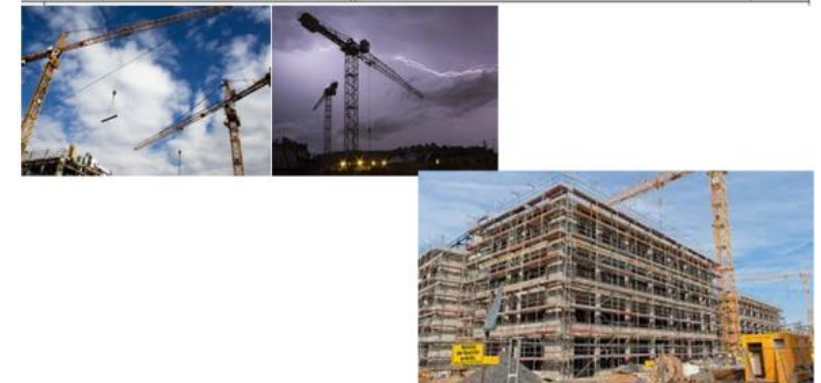
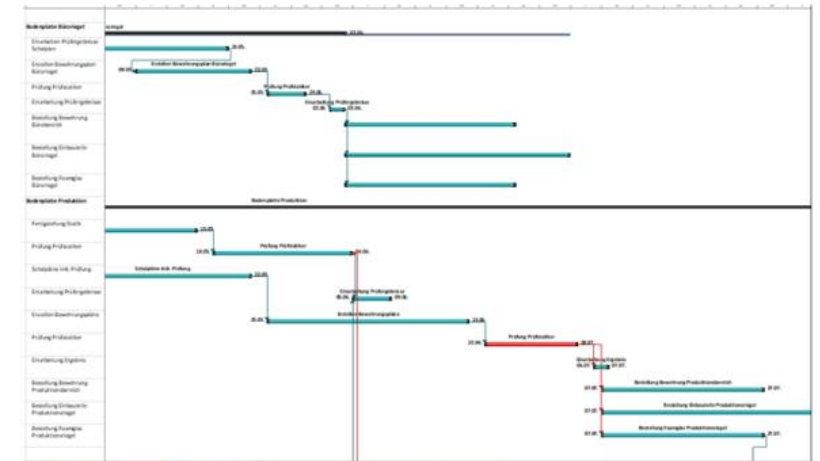
www.ishcco.org

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Construction Sites

Extraordinary workplace

- Temporary working place
- Workplaces with changing conditions
 - Progress of the construction project
 - Building, traffic routes, infrastructure facilities, plant complexes
 - New construction, renovation, deconstruction
 - Weather
 - Unstable safety environment
 - Protective measures must be created actively
- Several / many companies
 - simultaneously at the same site
 - one after the other - conditions encountered
 - Different working methods, protective measures
 - Responsibility for health and safety per company
 - Mutual hazards and risks
 - different cultures and languages
- Time and cost pressures



Interesting Publications

1. [Virtual Reality and Training - Shi, Y. et al](#)
2. [Internet of Things and Training - X. Li et al](#)
3. [Mixed reality and Wearable IoT Devices - Li C. et al](#)
4. [Robotics and Artificial Intelligence - Yu, H. et al](#)
5. [Vision Technology, IoT, Machine Learning and Big Data - Khan et al](#)
6. [Wireless Sensor Technologies - Hong, J. et al](#)
7. [Ontologies and BIM \(IFC\) - Farghaly, K. et al](#)
8. [BIM for Hazard identification - Rafindadi, A. et al](#)
9. [Automatic Warning System - Liu D. et al](#)



Limitations and Future

- Validation challenges
- Training
- Complexity
- Comparative analysis
- Simulation
- Devices and connectivity
- Integration
- Dissemination



Thank you!