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Evaluation of the Danish Safety by Design in Construction Framework (SDCF)

Schultz, Casper Siebken; Jørgensen, Kirsten

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Smart prevention for sustainable safety



8th international conference



Evaluation of the Danish Safety by Design in Construction Framework (SDCF)



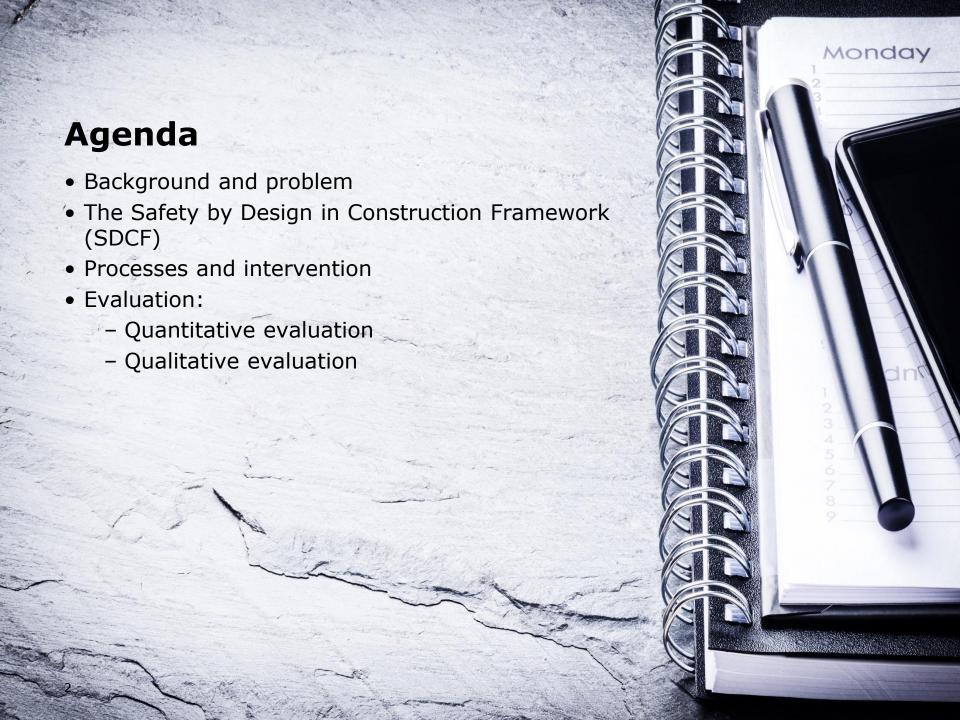


Casper Siebken Schultz, Technical University of Denmark Kirsten Jørgensen, Technical University of Denmark

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DTU Management Engineering

Institut for Systemer, Produktion og Ledelse





Safety by Design in Construction

DTU project 2012-2015

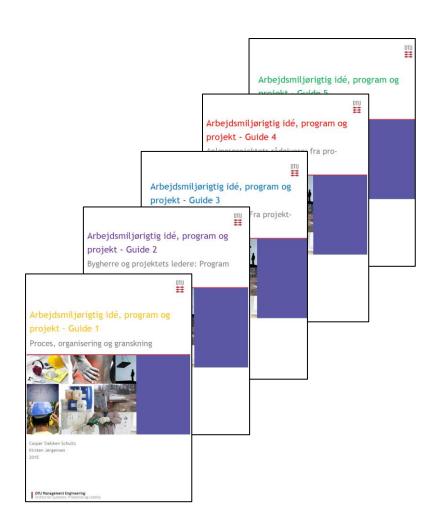
- Safety has root causes in project design
- Developing and testing a framework (SDCF)
- Integrated with existing methods and practices
- Combines an OHS approach with a focus on quality and constructability



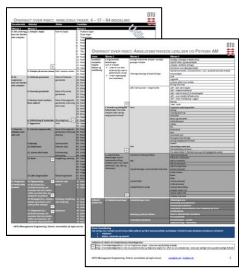
Safety by Design in Construction Framework (SDCF)

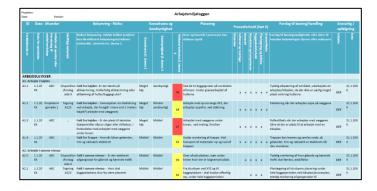


Guides and tools



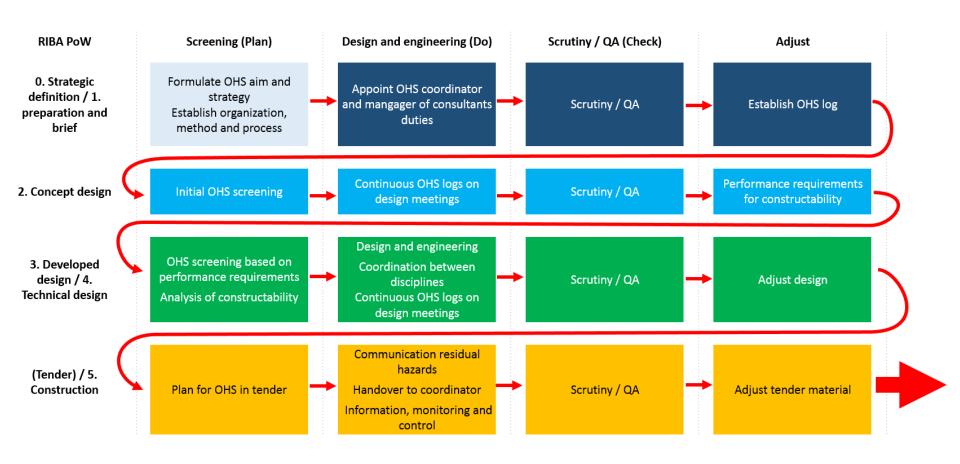
Summary of risks and the OHS Log (tool)





SDCFThe process



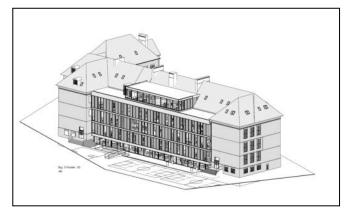




Four intervention projects



1) a public railway station



3) a public school



2) a health care center

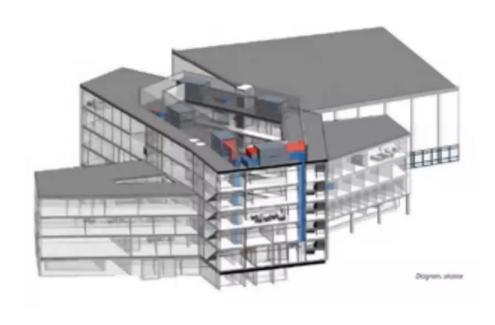


4) an environment and supply center facility



Process and results

Examples

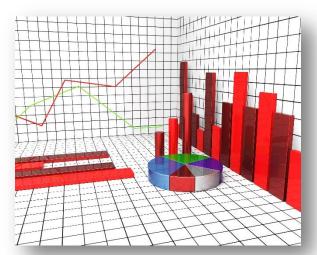




Quantitative evaluation

Questionnaires

- 50 % answers "project documentation is <u>better</u> than in other projects" (38% neutral).
- 50 % answers "OHS has been <u>more important</u> on this project compared to other similar projects" (38% neutral).
- 37 % answers "(their individual) OHS knowledge has increased".
- 50% answers "they consider the role of creating a safe working environment for the construction workers <u>more important</u> than before the intervention".
- 44% answers "safety in execution in the project is <u>very important</u> for decisions in designer and planning".

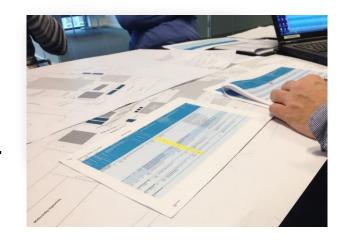




Qualitative evaluation (i)

Evaluating the intervention

- Better OHS planning and problem solving.
- Increased OHS focus and knowledge of the participants.
- OHS should be integrated continuously and early.
- The level of detail should be aligned.
- The OHS log has been an important process tool.
- The summary of risks has ensured a thorough assesment.





Summary

Evaluating the SDCF intervention

- Organisations can implement the framework successfully
- Systematic approach and documentation
- Challenges
- Establish incentives and prioritization
- Integration with existing practices
- Early involvement
- Future perspectives: Scale and BIM





Thank you!

Questions?

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