



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

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Smart prevention for sustainable safety



8th international conference



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



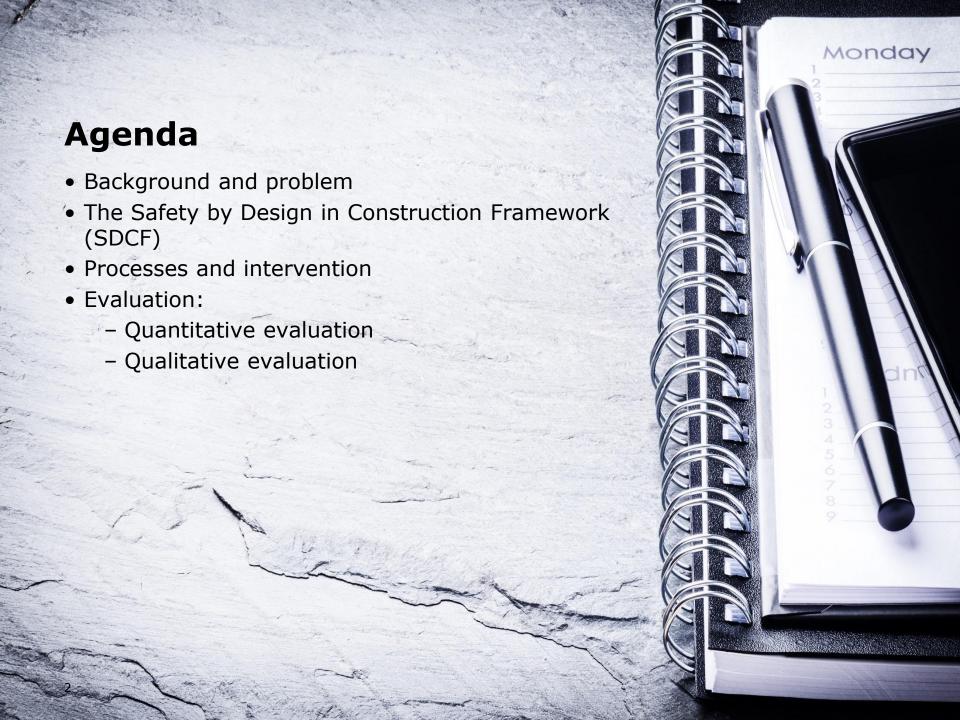


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DTU Management Engineering

Institut for Systemer, Produktion og Ledelse





Safety by Design in Construction

DTU project 2012-2015

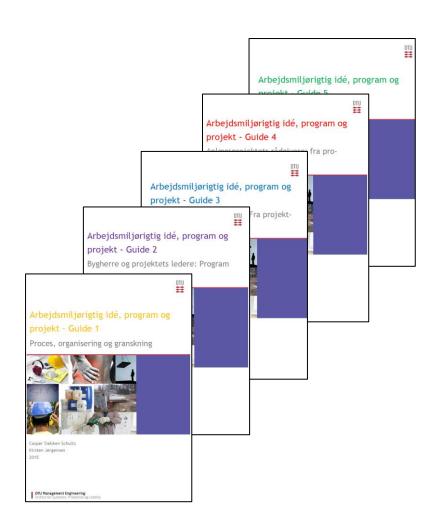
- Safety has root causes in project design
- Developing and testing a framework (SDCF)
- Integrated with existing methods and practices
- Combines an OHS approach with a focus on quality and constructability



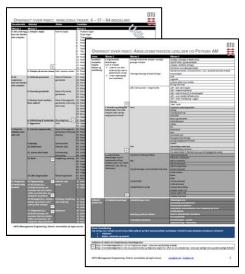
Safety by Design in Construction Framework (SDCF)

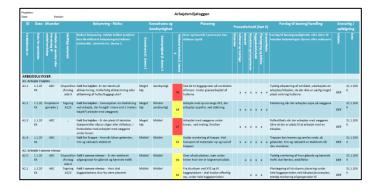


Guides and tools



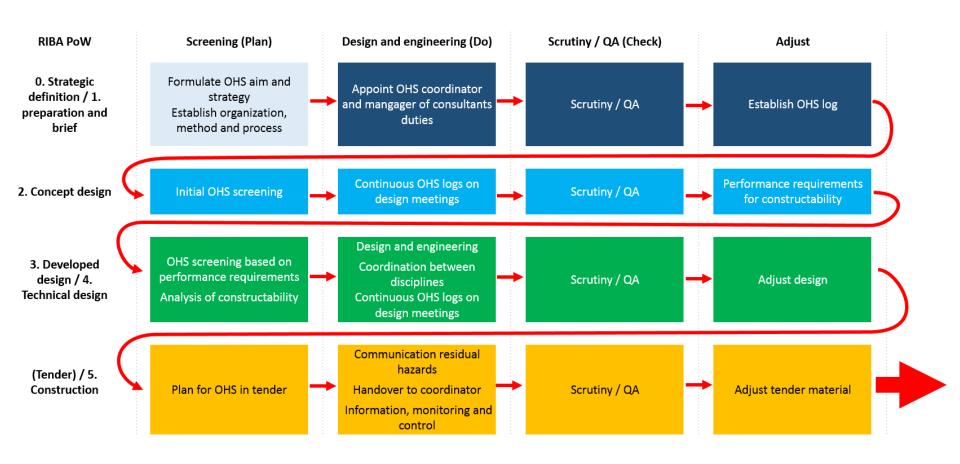
Summary of risks and the OHS Log (tool)





SDCFThe process



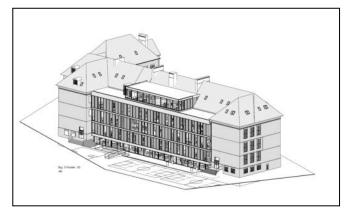




Four intervention projects



1) a public railway station



3) a public school



2) a health care center

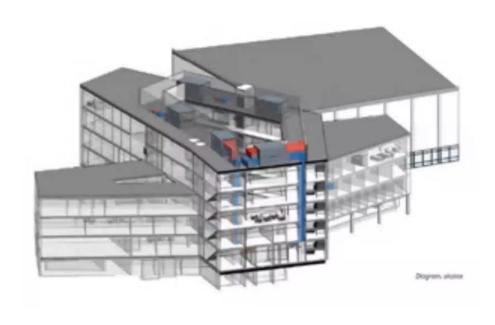


4) an environment and supply center facility



Process and results

Examples

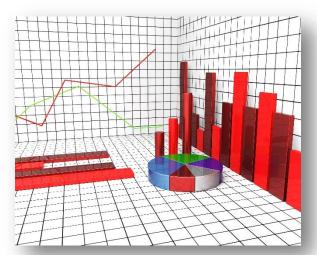




Quantitative evaluation

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".

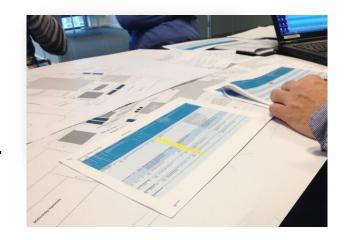




Qualitative evaluation (i)

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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