Collaboration Surfaces for Outage Control Centres (OCCs)

Lars Hurlen – Bojana Petkov

Øystein Veland – Gisle Andresen
Ringhals nuclear power plant
Regular need for fuel replacements
Outage: Massive maintenance operation once a year
Challenge: Coordinating mixed personnel while adhering to strict safety regulations
Challenge: Resolving emerging issues
Solution: The Outage Control Centre
Current state of art: Mix of digital and analogue tools
Testing out some new technology...
...while also sticking to the old
Potentially useful in this setting?
Video prototype
Lessons learned so far

👍 Live status from field
👍 Technical drawings
👍 Smooth access to associated information
👎 Plant wide Wi-fi
👎 Integration with propriety systems
Scenario Composer

Image: Nationen
Usability Testing
Some lessons learned

👍 Collaboration – share information over distances and departments
👍 Easy to change and update plans and workorders
👍 Logical and usable interface
👍 Easy to learn
👍 Less paper
👎 Difficult to gather many people around the screen – touch mode
👎 Difficult to see all aspects and texts on the screen – mouse mode
Future Lab

- 65” touch-screen
- Projected large screen
- Work station 30” screens
- Microsoft Surface tabletop
- Smart-Board
Thank You

Any questions?

Lars
lars.hurlen@hrp.no

Øystein
oystein.veland@hrp.no

Bojana
bojana.petkov@hrp.no

Gisle
gisle.andresen@hrp.no