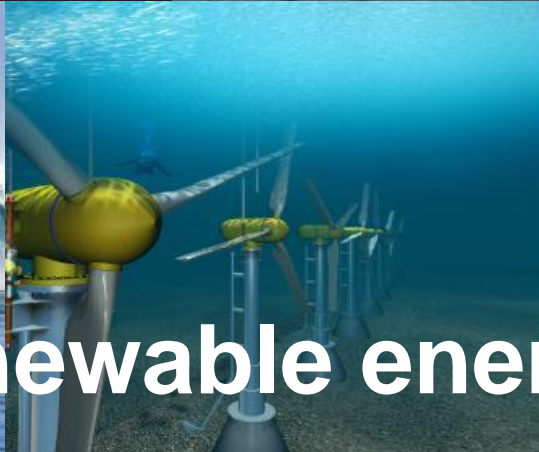


# Training and Pre-testing demanding maritime operations

Hans Petter Hildre  
Marine Technology and Operations



**fishery & aquaculture**



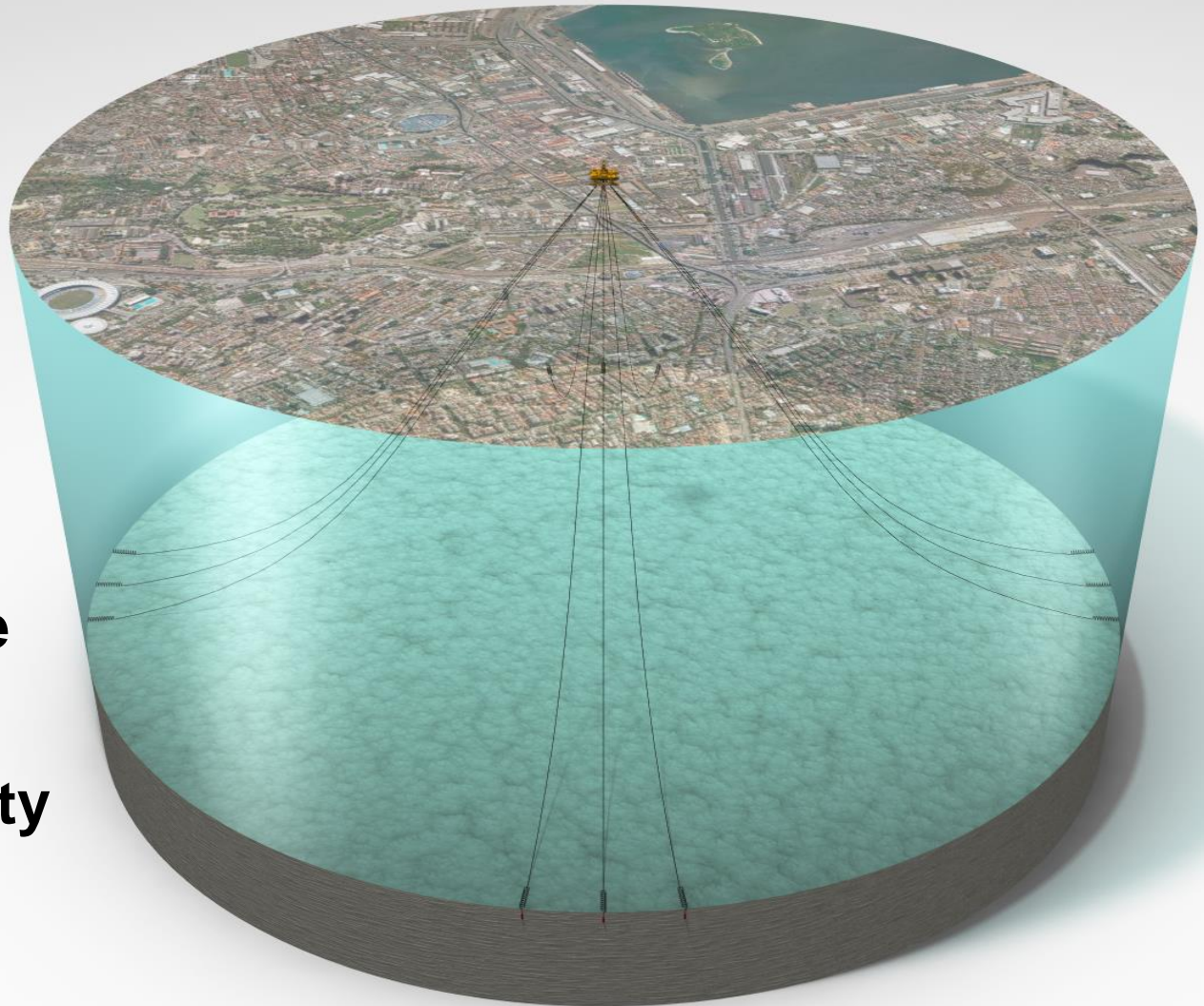
**renewable energy**



**subsea & mining & all year & ultra deep**

# Marine Operations

**The scale  
and  
complexity**

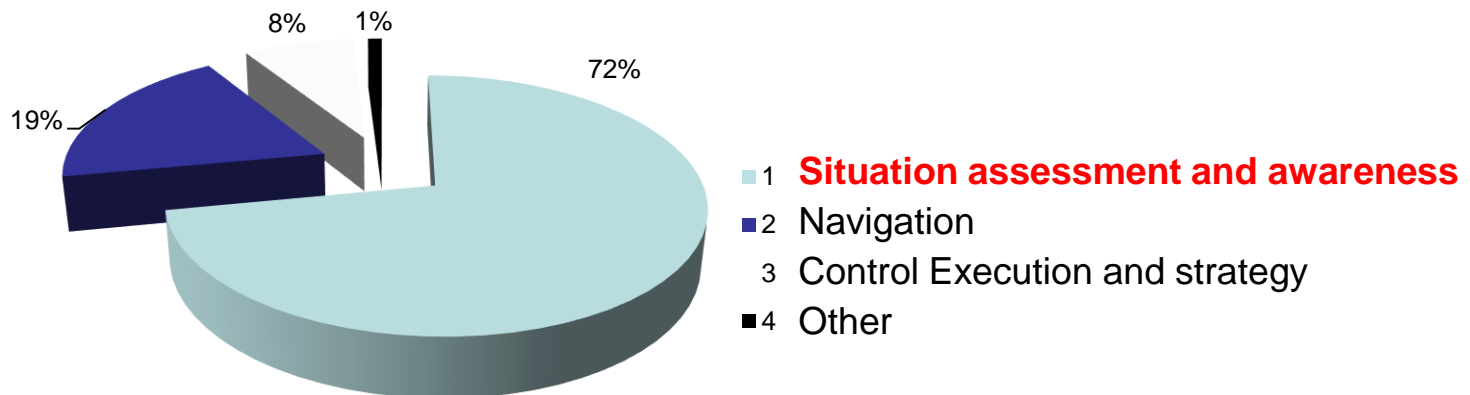


# Training and Pre-testing marine operations

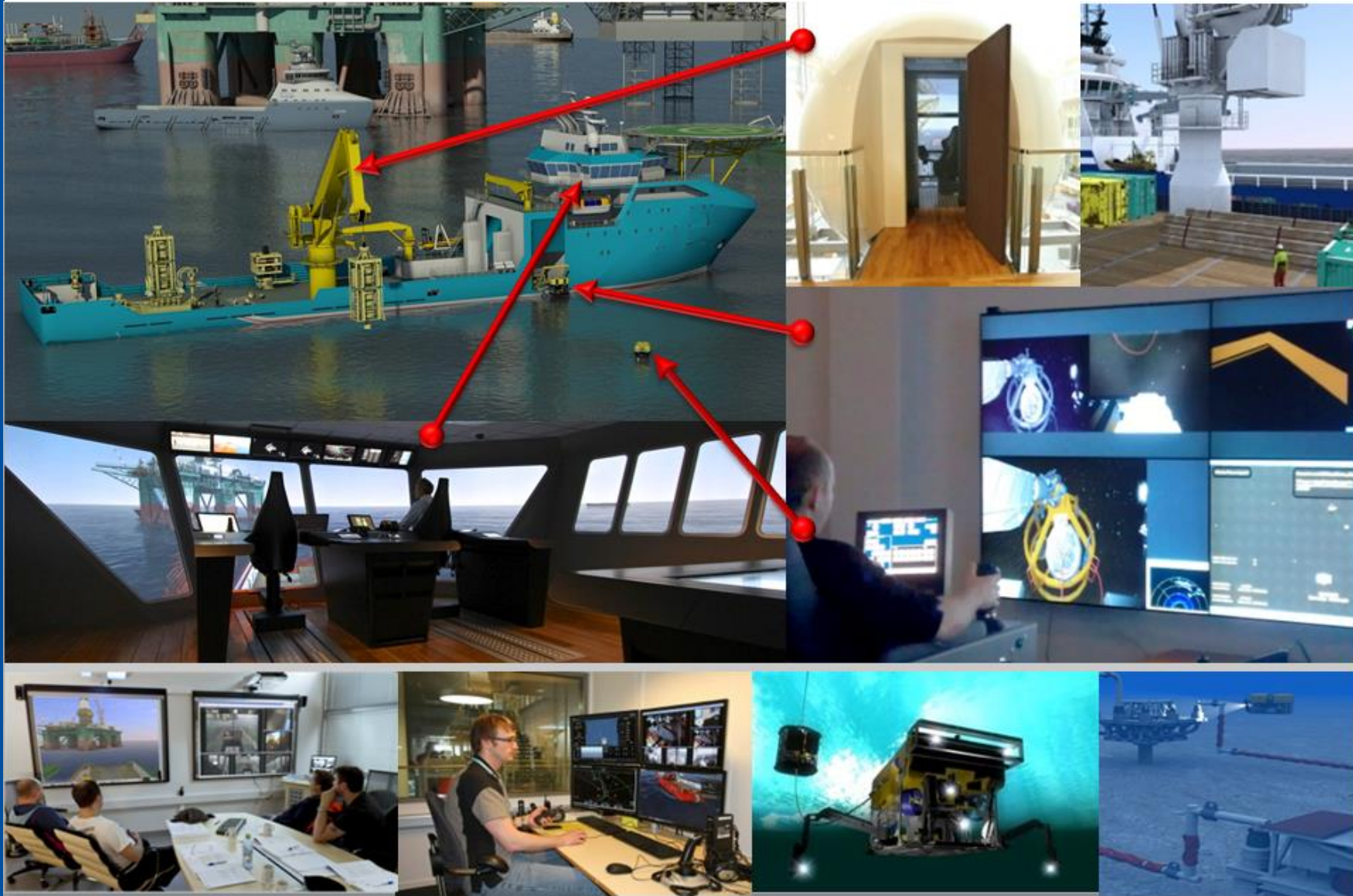
# 75 – 85 %

of incidents and accidents involve human error

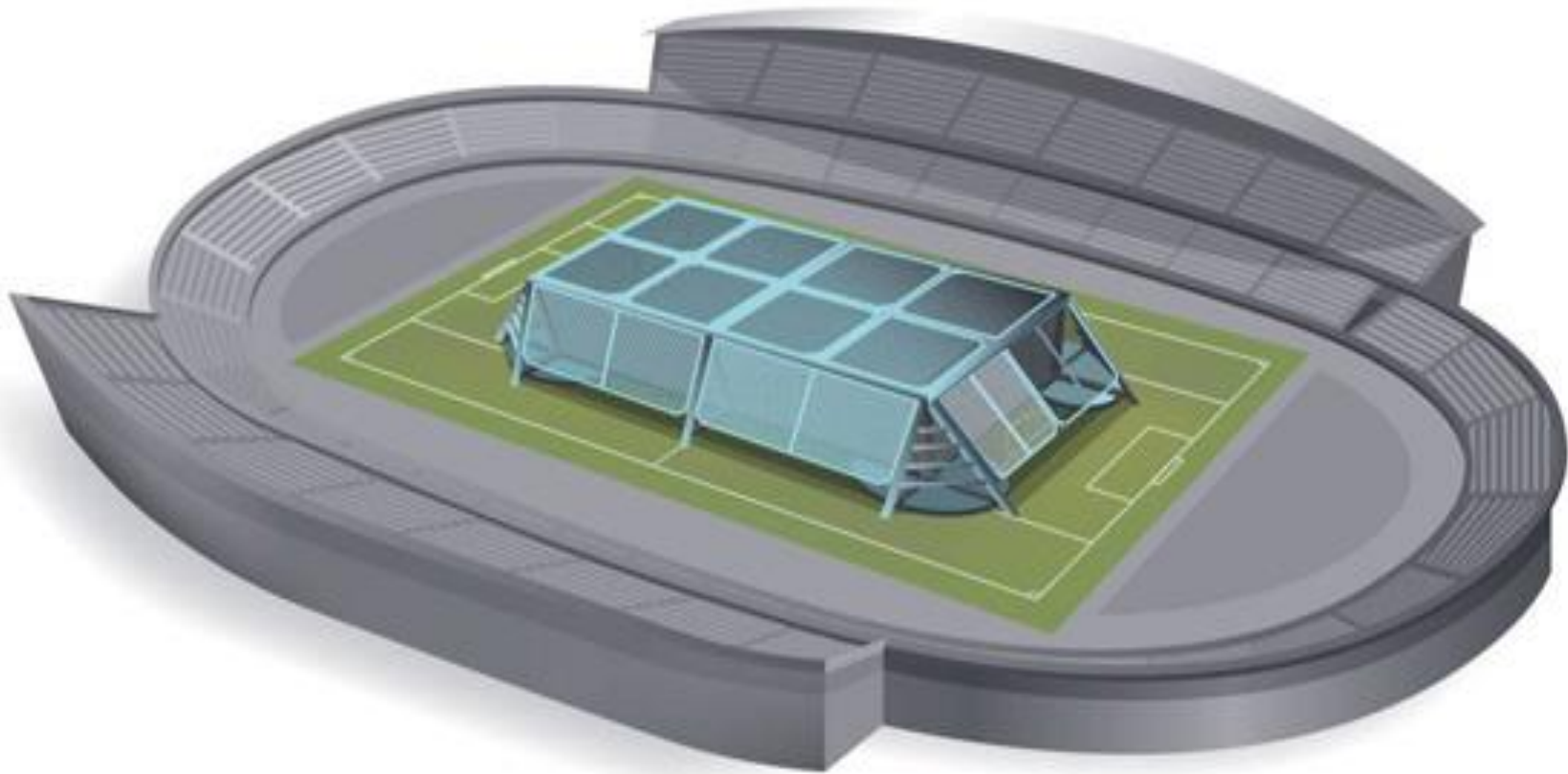
Human errors (ABS USCG data)



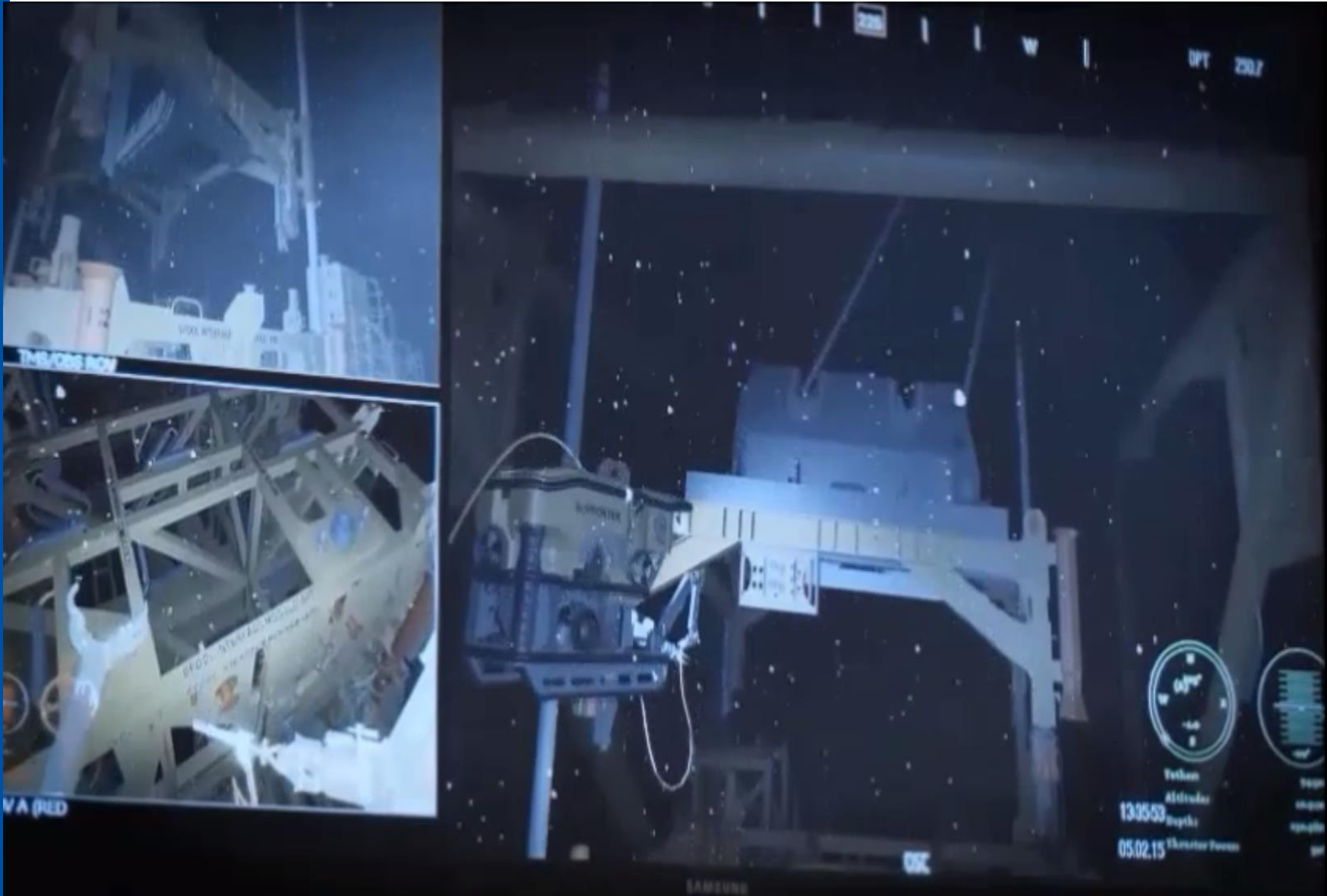
# Simulator centre for demanding marine operations



# Åsgard Subsea Compression Station (SCSt) Statoil & Technip

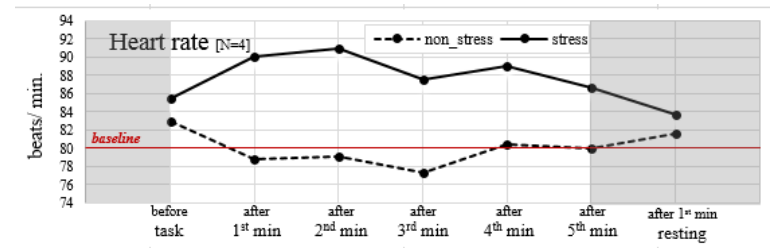


# Åsgard Subsea Compression Station installation. Training and Pretesting

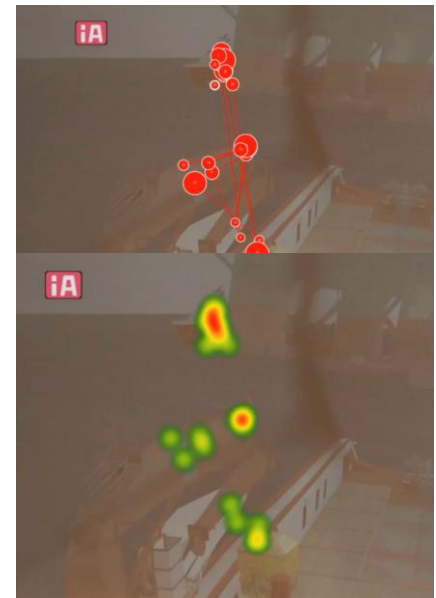


# Results:

- Performance:
  - Installation time (sea time) reduced by 50 days (40 %)



- Risk
  - Work load analysis
  - Team situation awareness analyses
  - Skill analyses
  - If -Then scenarios





**We are now instrumenting our simulators as a research lab for pre-testing demanding marine operations (including human performance)**

**Do you want to join us?**

