

NTNU – Trondheim Norwegian University of Science and Technology

Case study of major accident to demonstrate the possibility of prediction of conditions for sidents

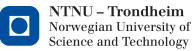
#48

Presenter: Tiantian Zhu

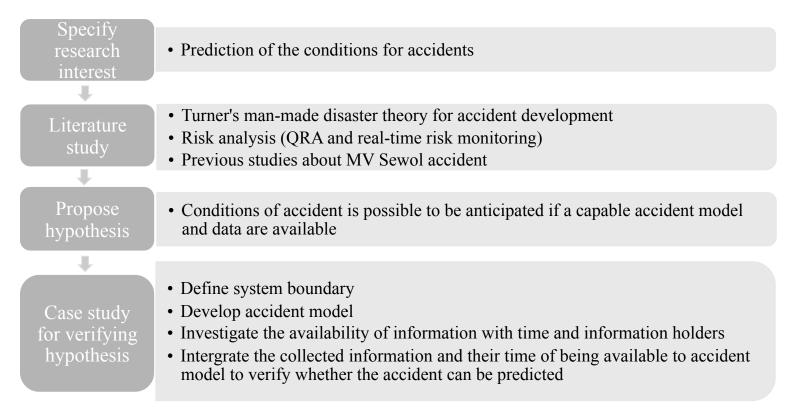
Authors: Tiantian Zhu^a, Stein Haugen^a, Yiliu Liu^b, Kim Hyungju^b

^a Department of Marine Technology, Norwegian University of Science and Technology, Trondheim, Norway

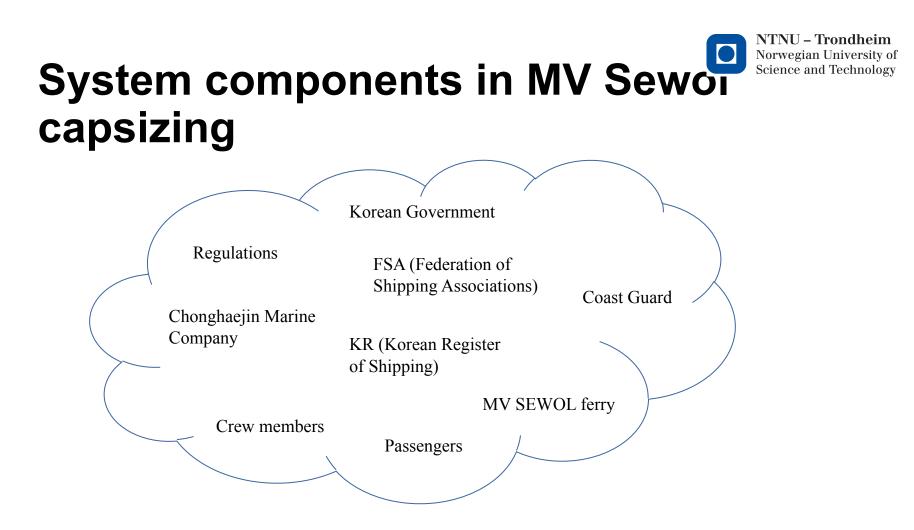
^b Department of Mechanical and Industrial Engineering, Norwegian University of Science and Technology, Trondheim, Norway



Research path



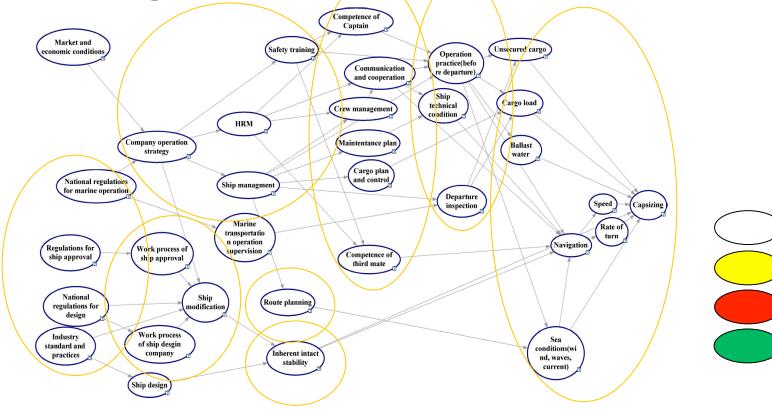


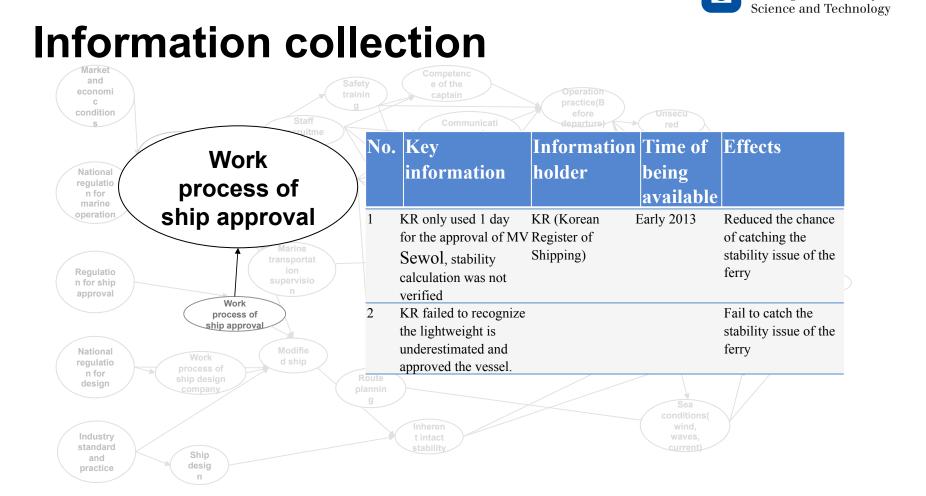




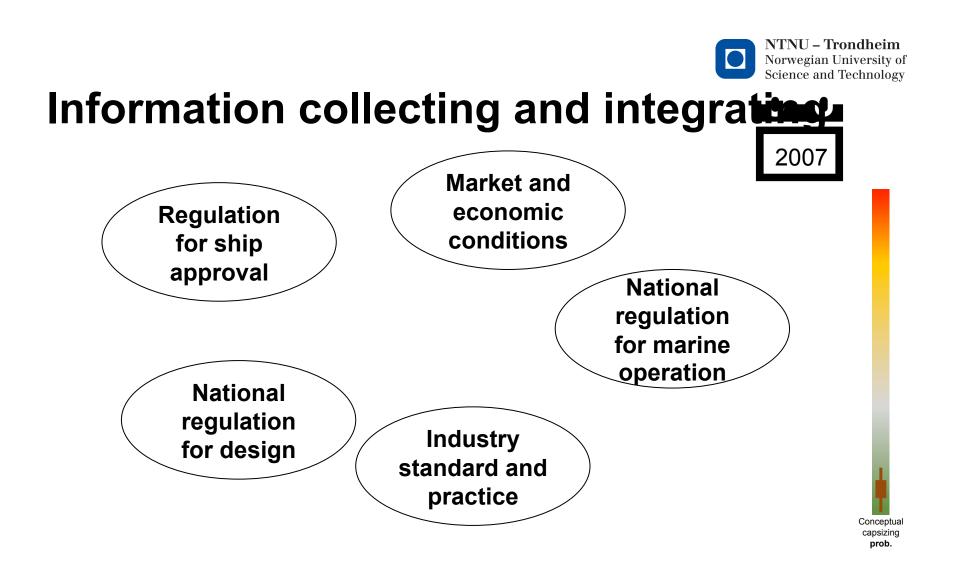
NTNU – Trondheim Norwegian University of Science and Technology

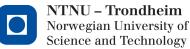
Capsizing accident model

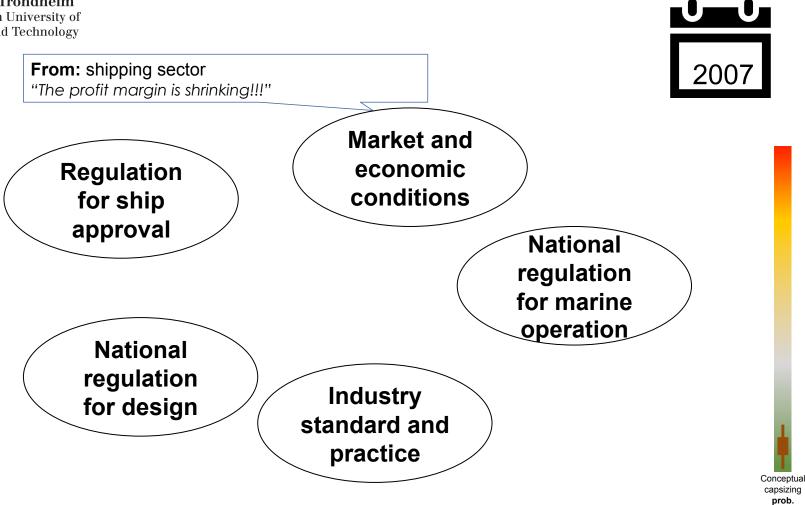


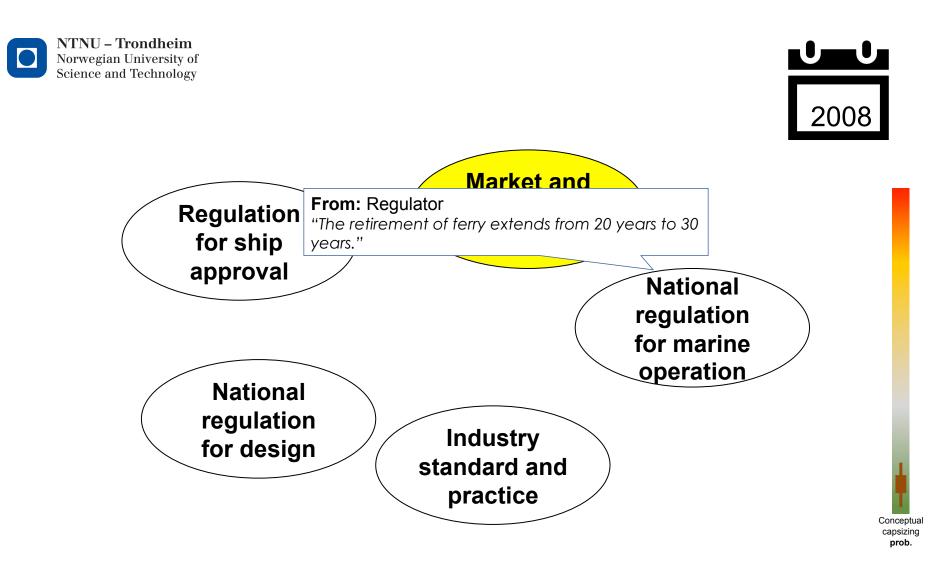


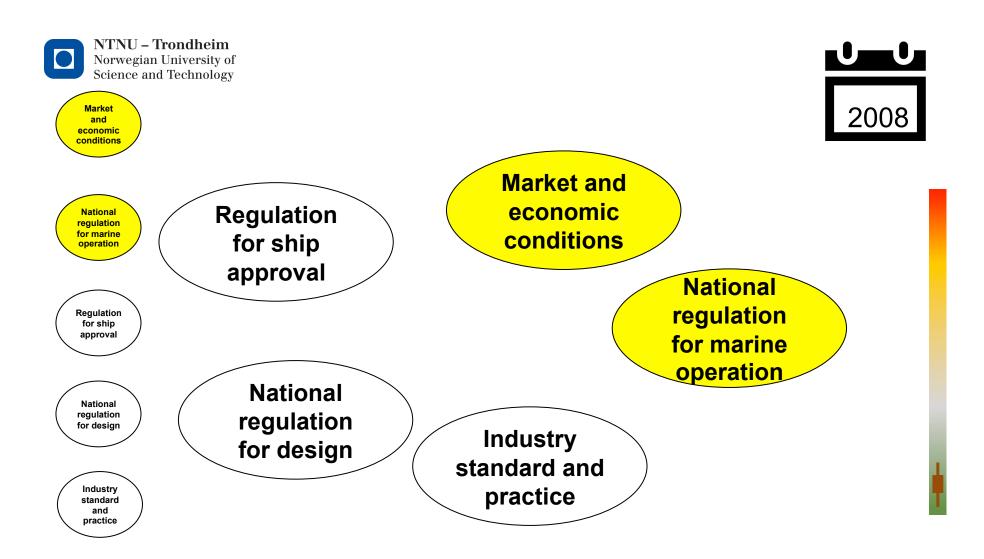
NTNU – Trondheim Norwegian University of

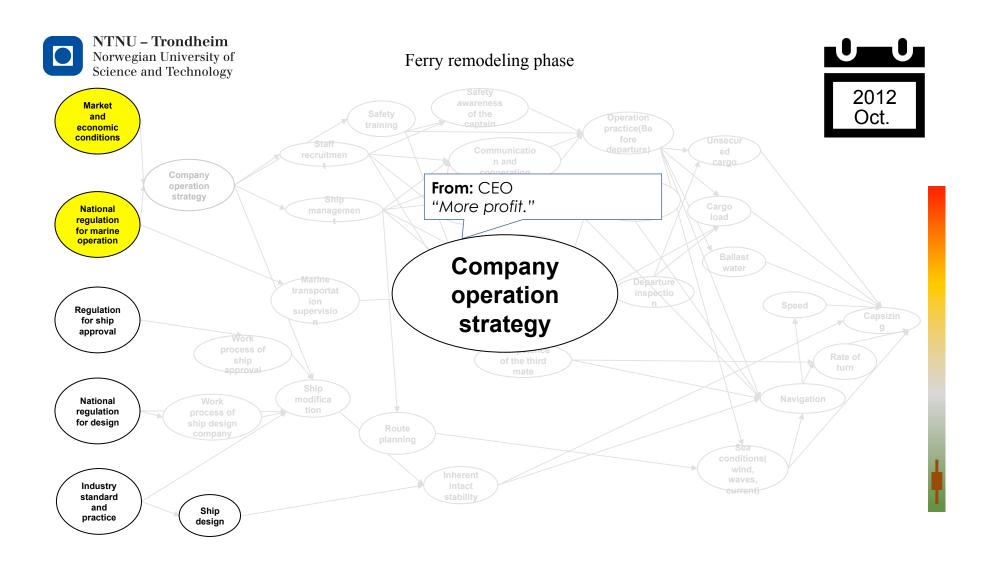


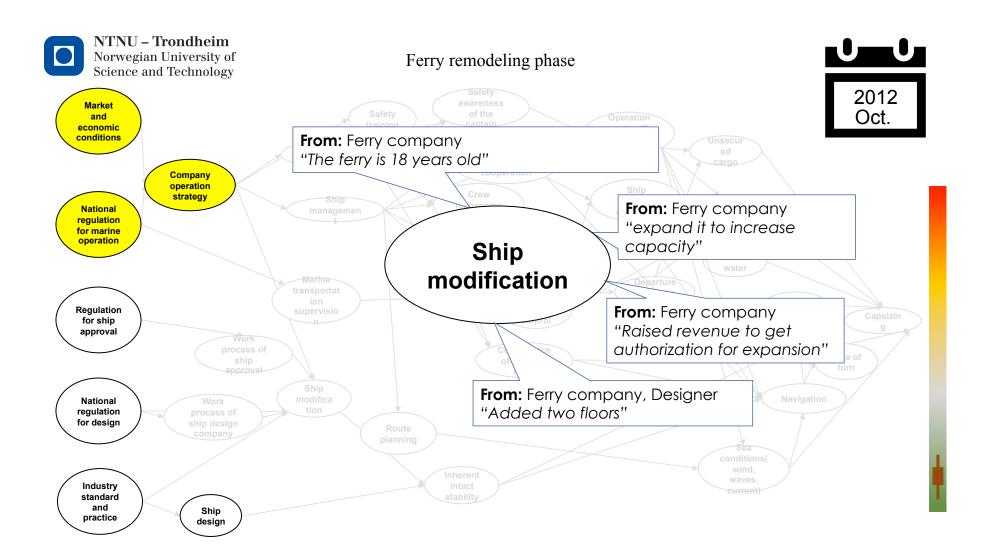


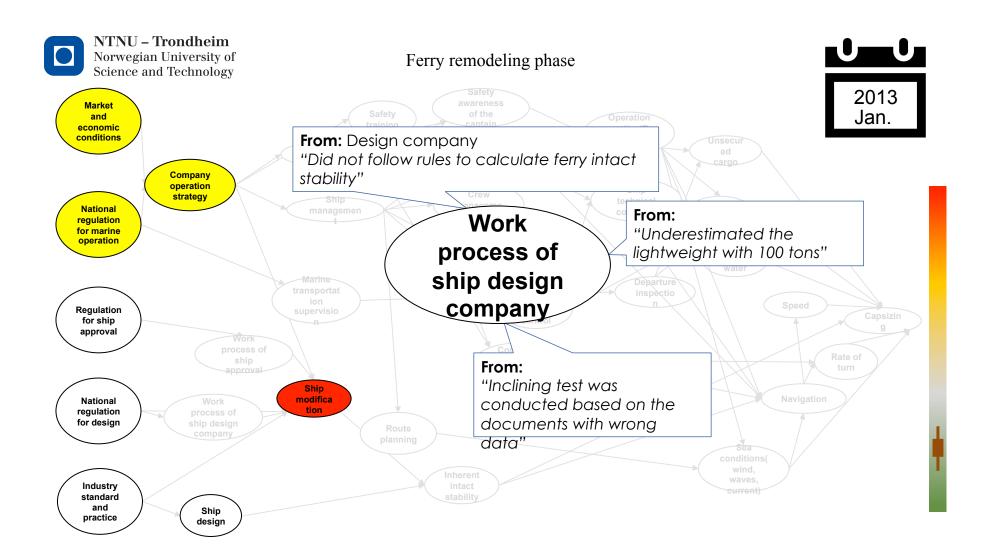


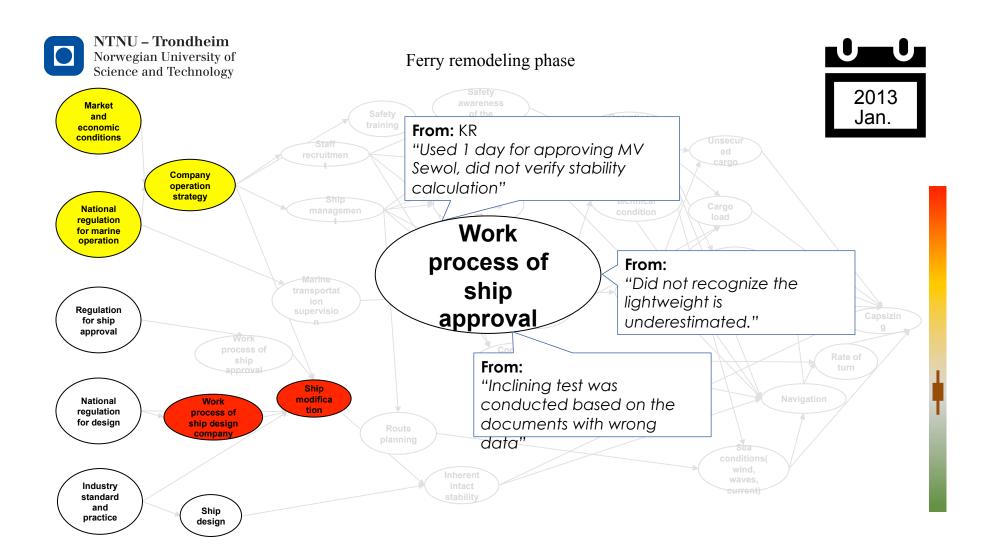


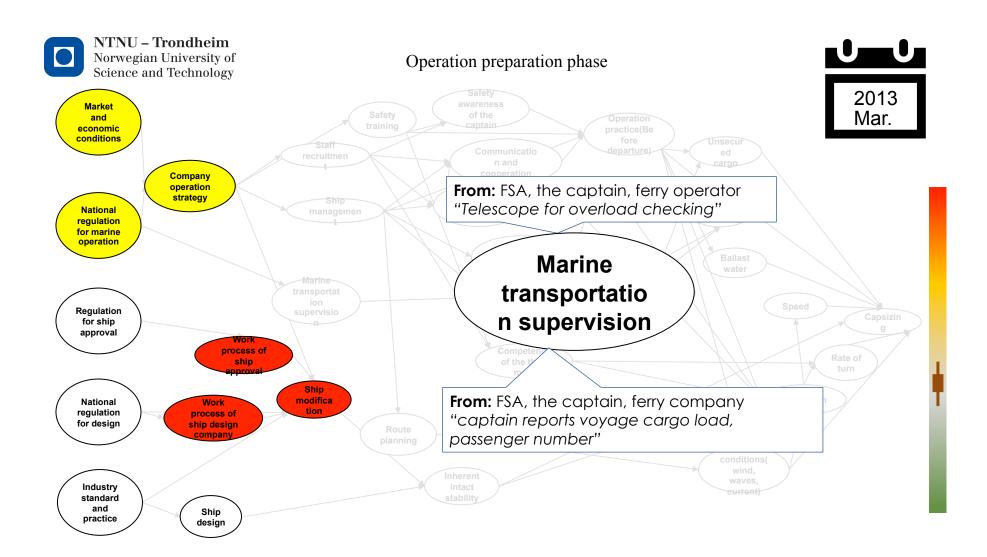


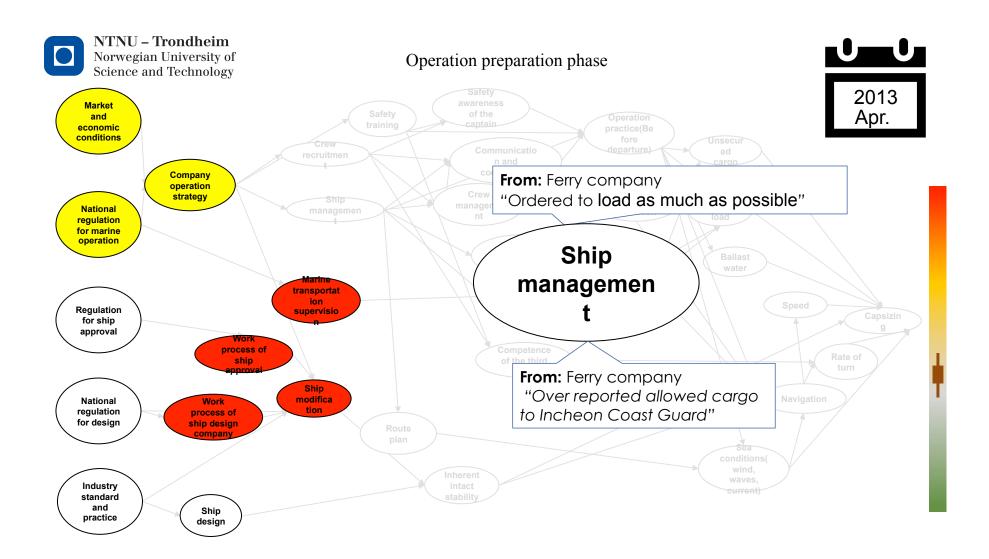


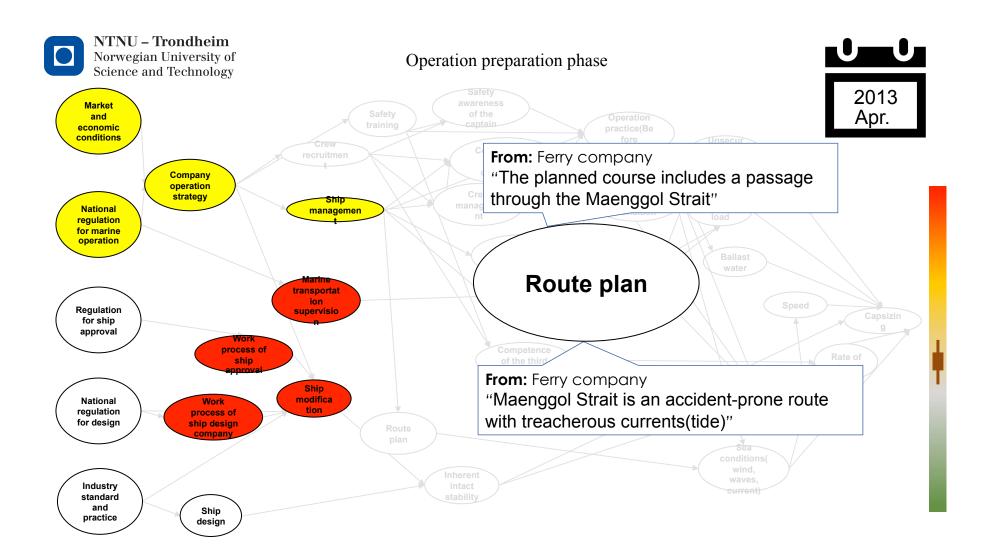


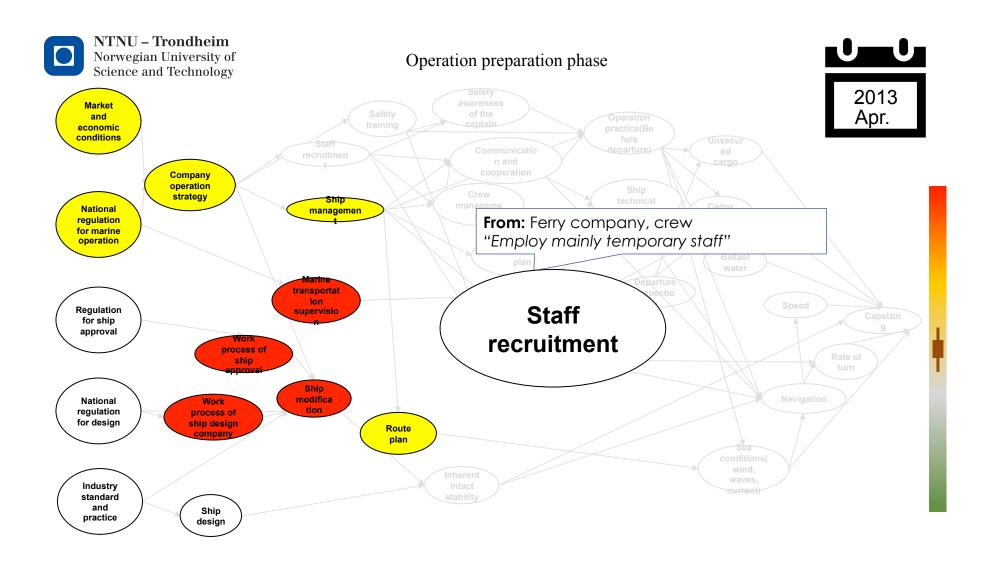


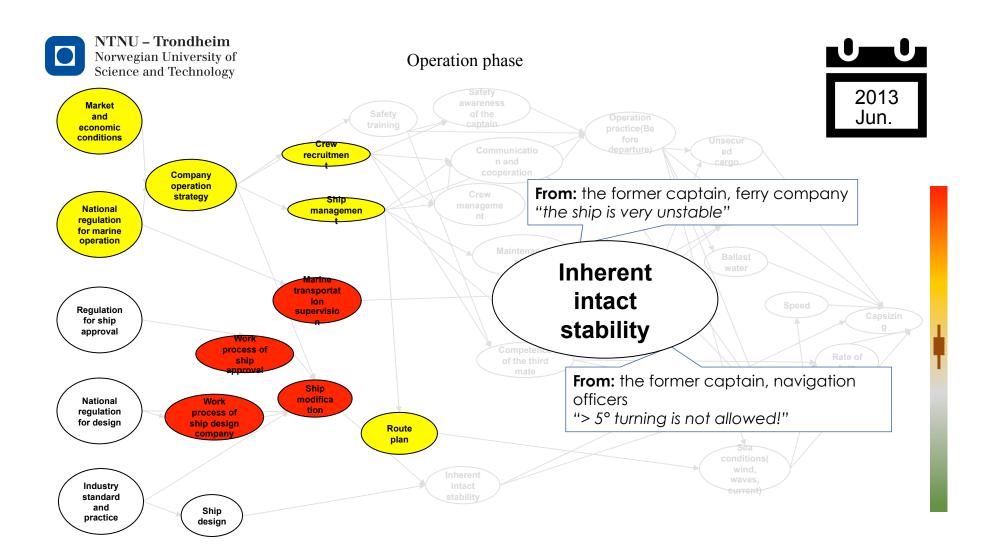


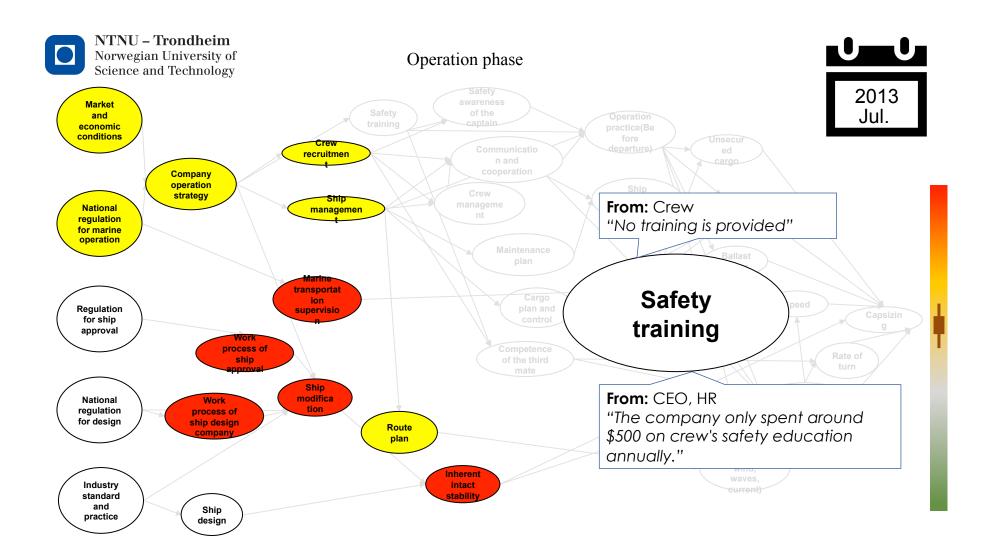


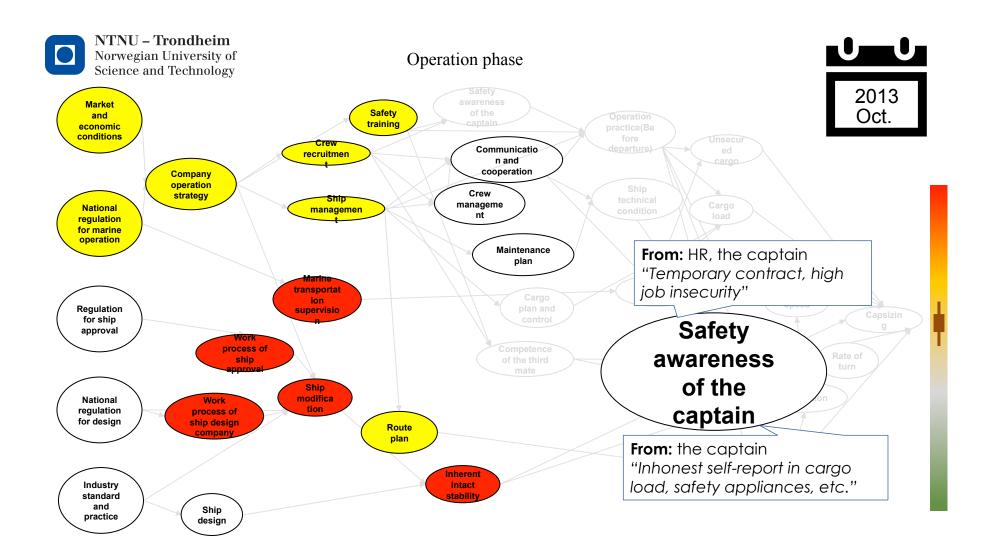


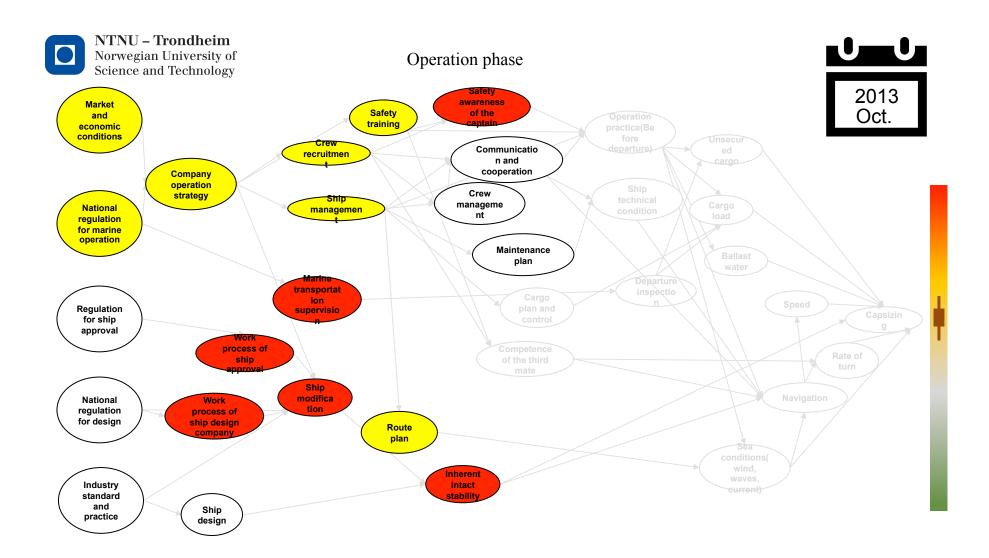


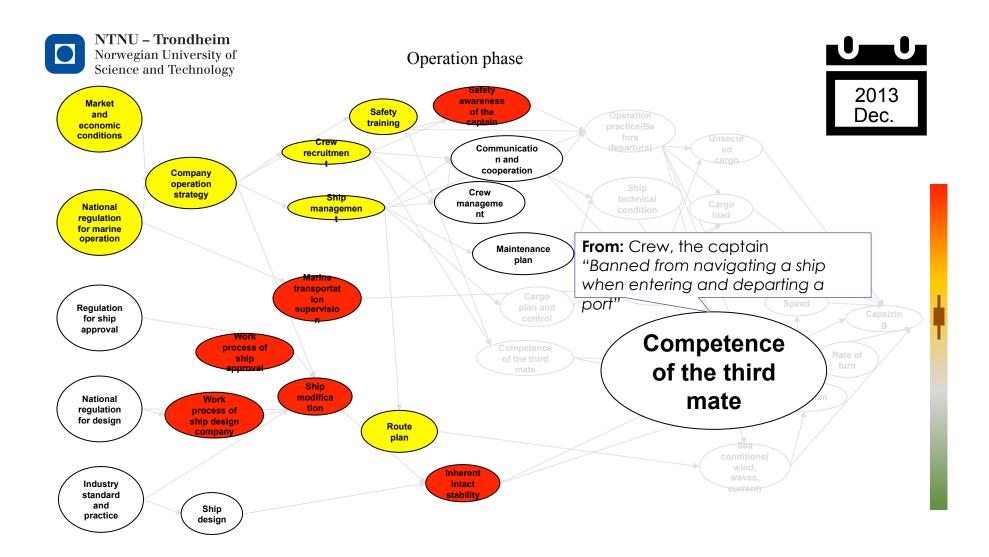


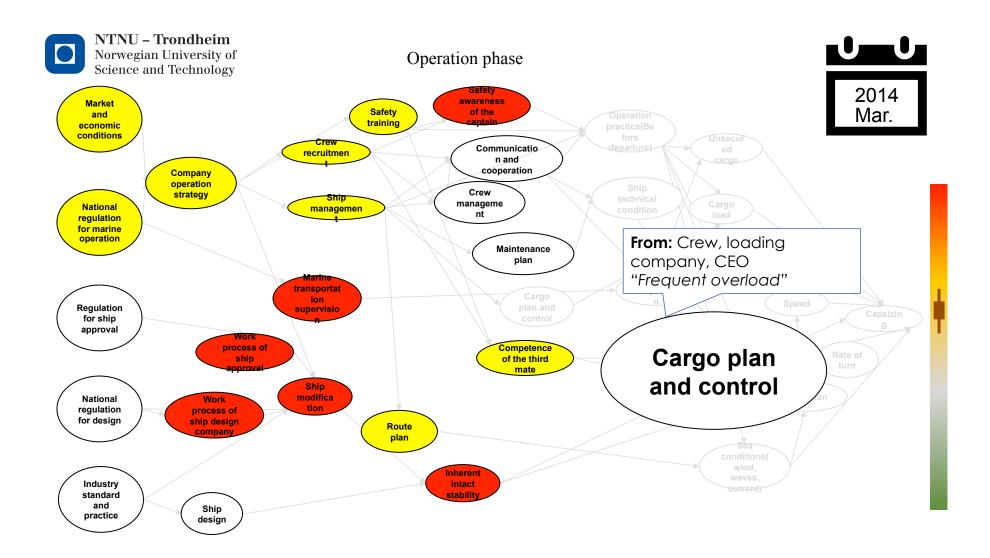


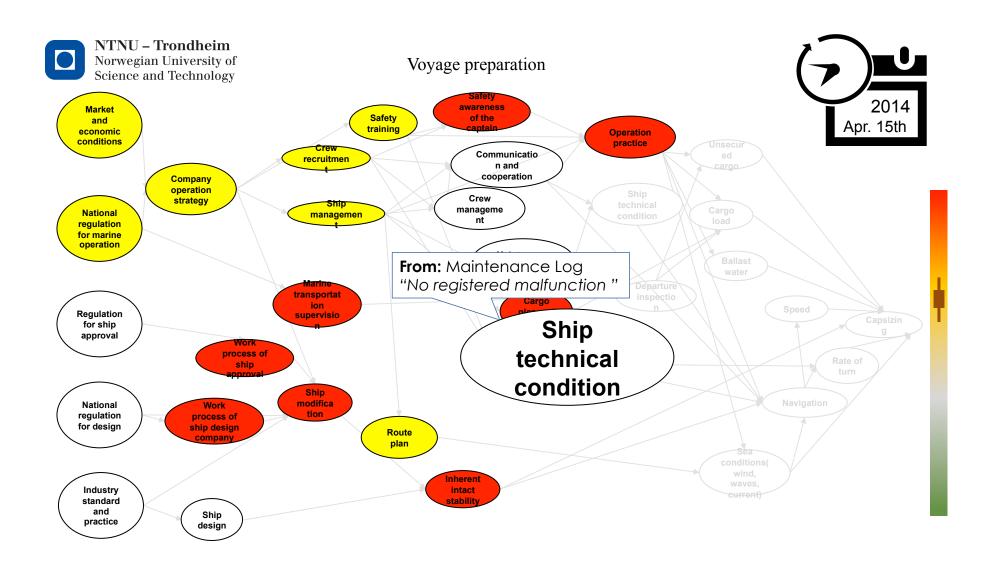


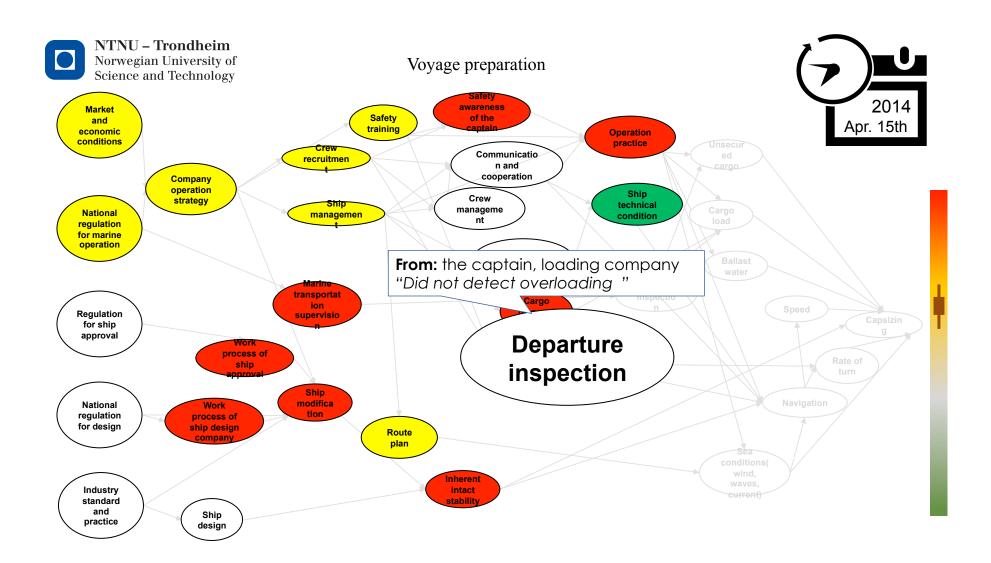


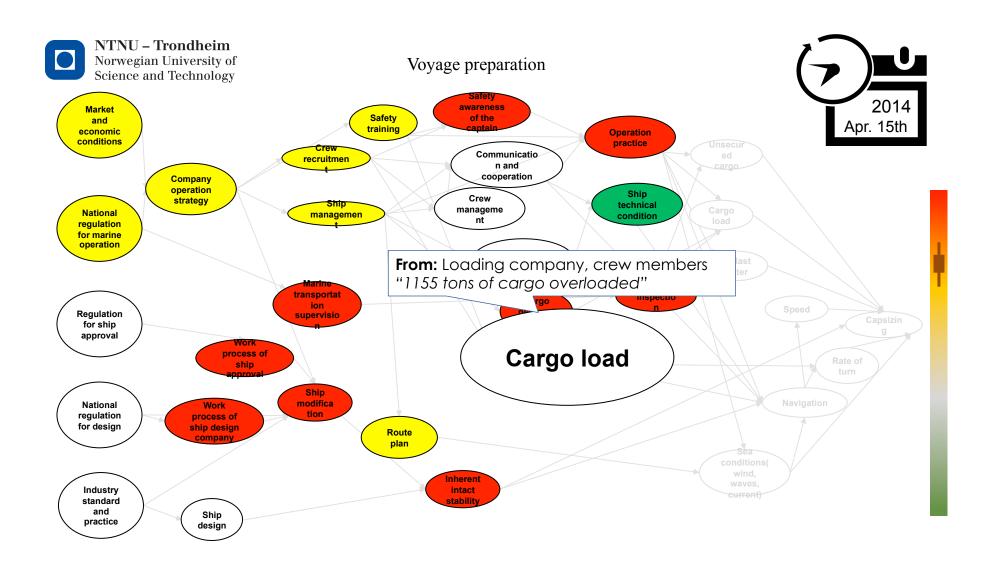


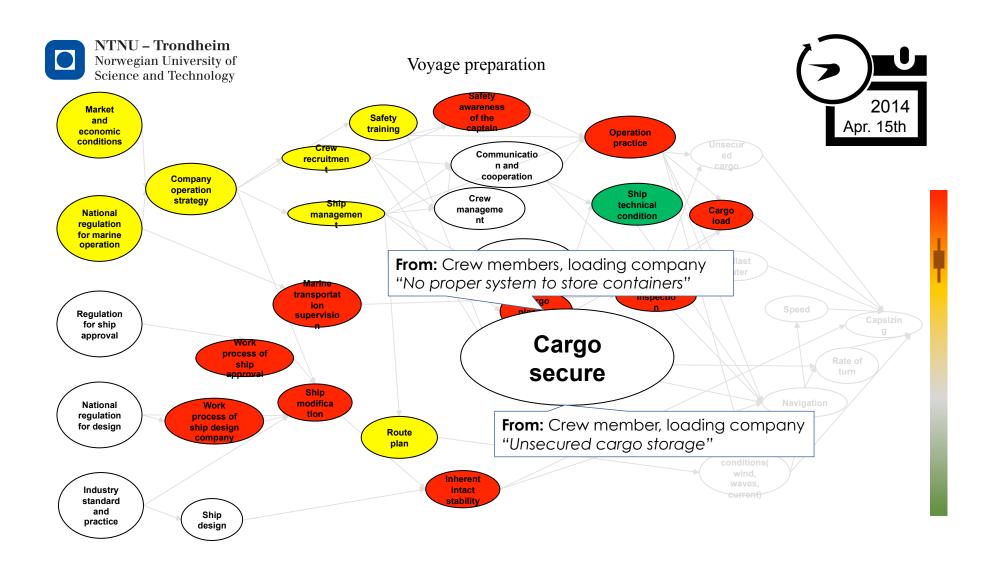


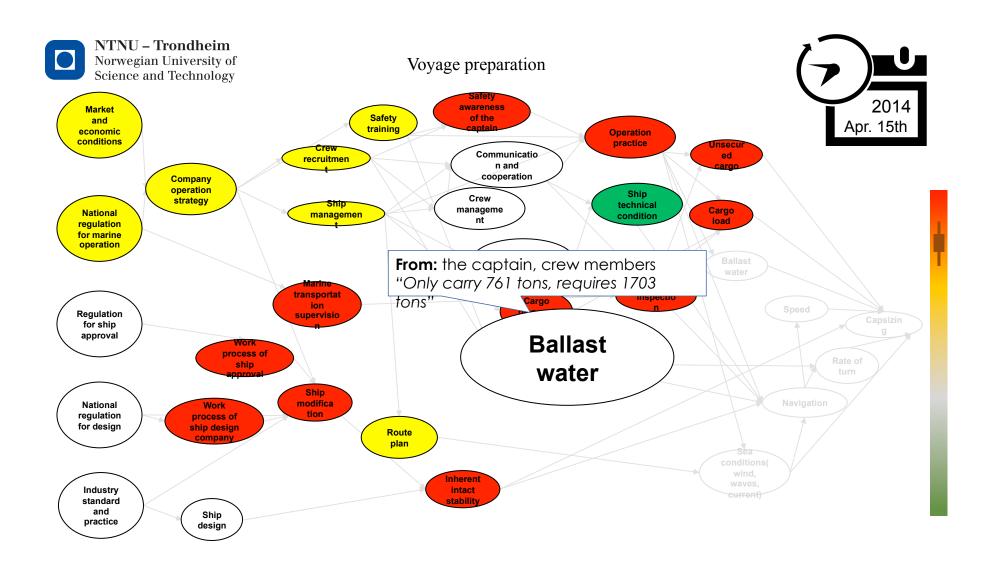


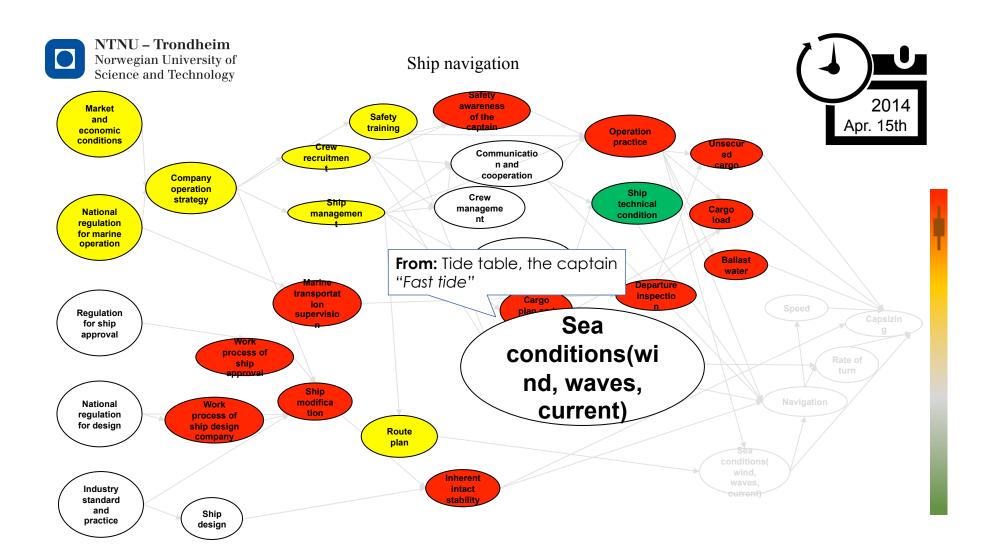


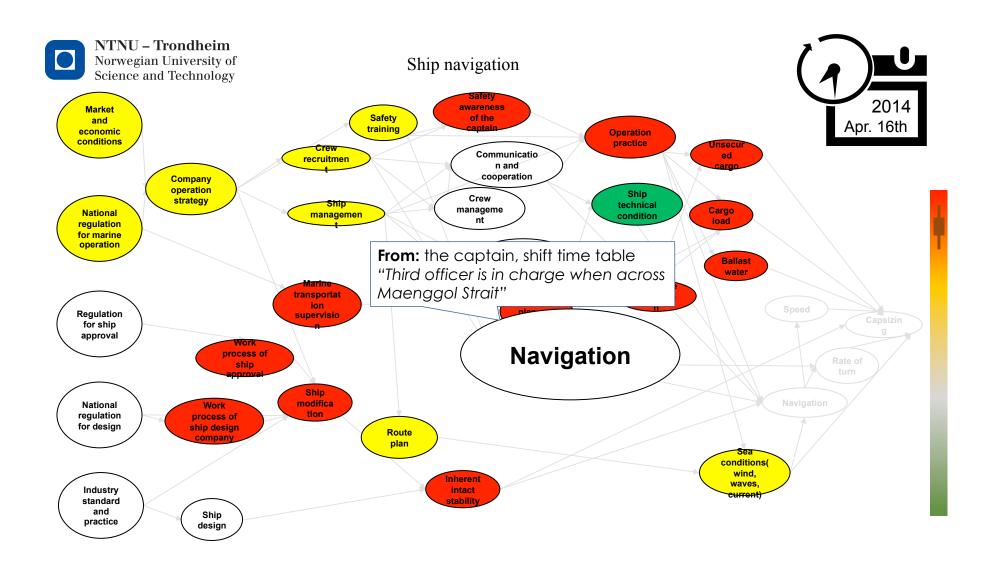


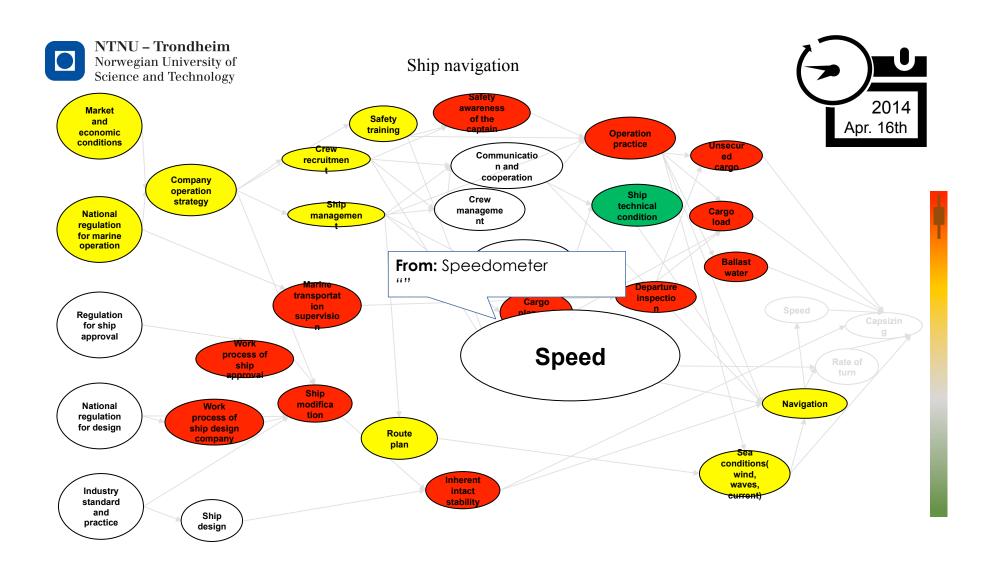


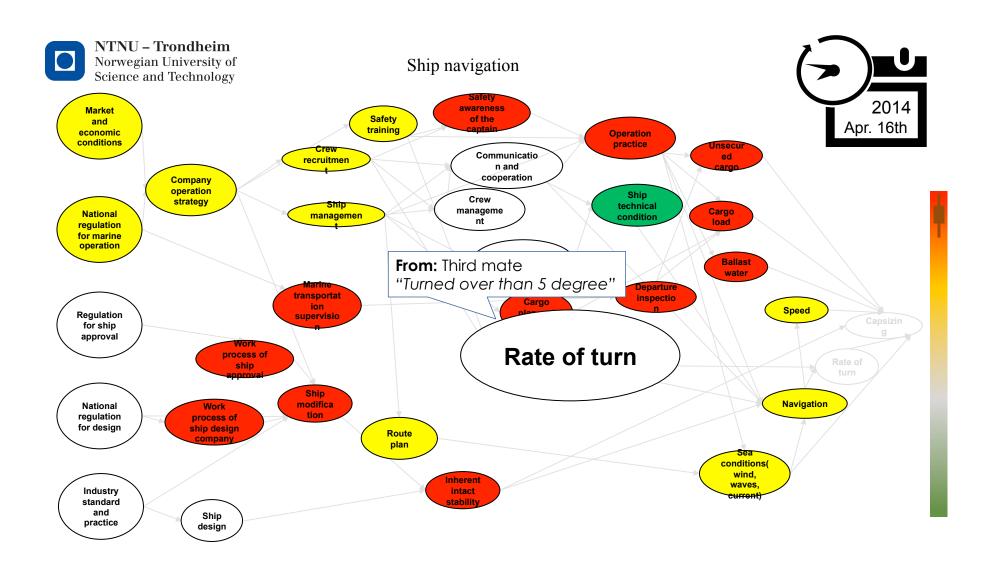


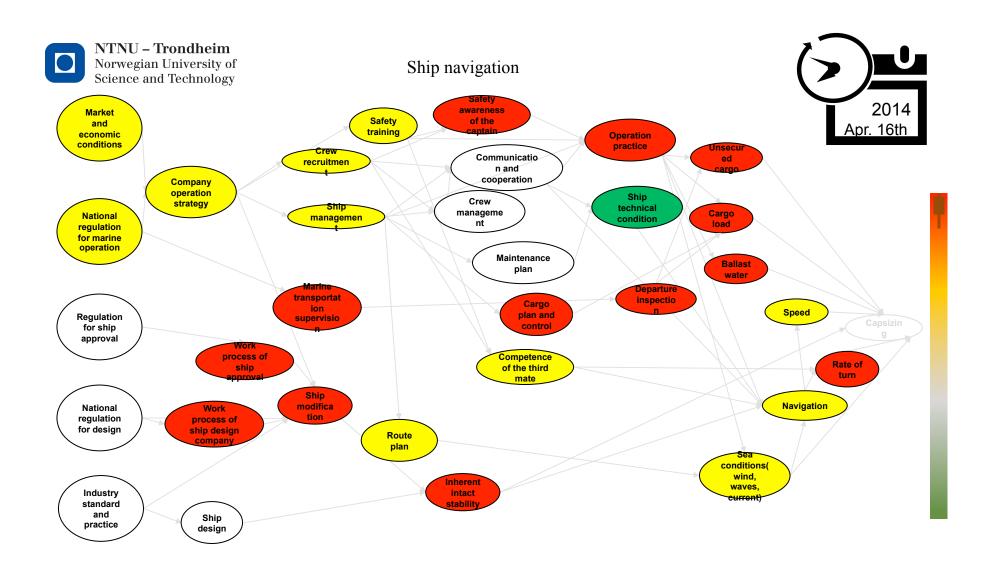


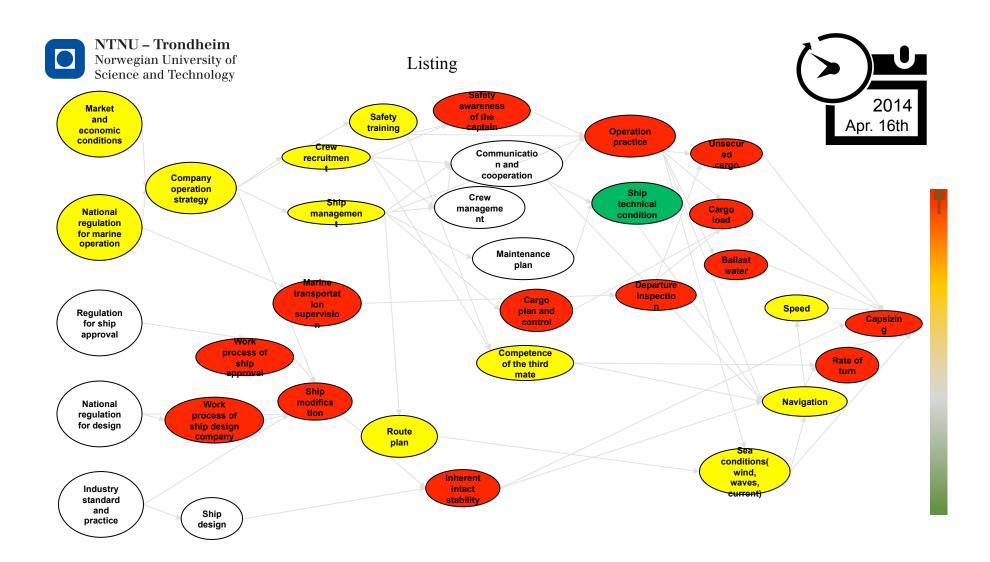


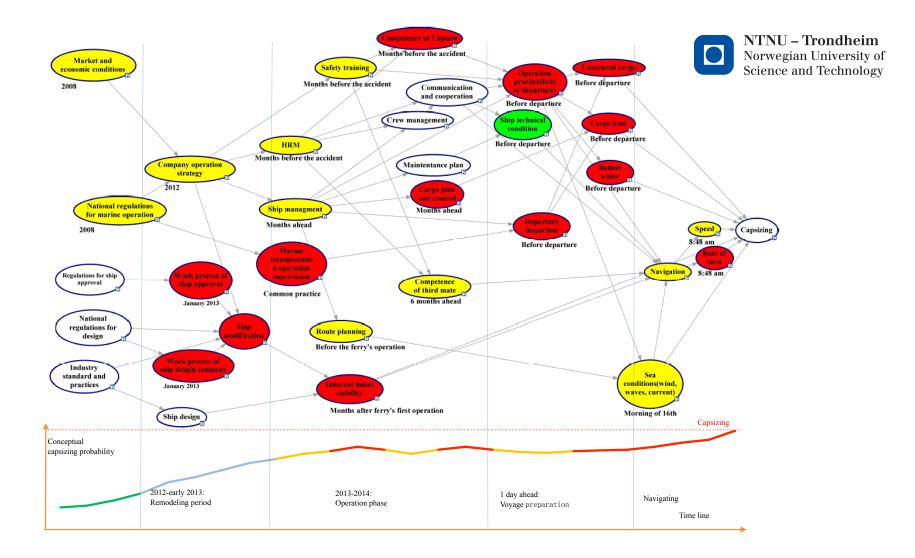


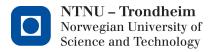












Conclusions

- 1. The capsizing is not a surprise
- 2. A well-developed capsizing accident model and information availability is very useful for accident prediction
- 3. It provides hints in where and when to collect information for accident prediction
- 4. It indicates that different strategies can be applied at different system components at varied time for accident prevention.

