

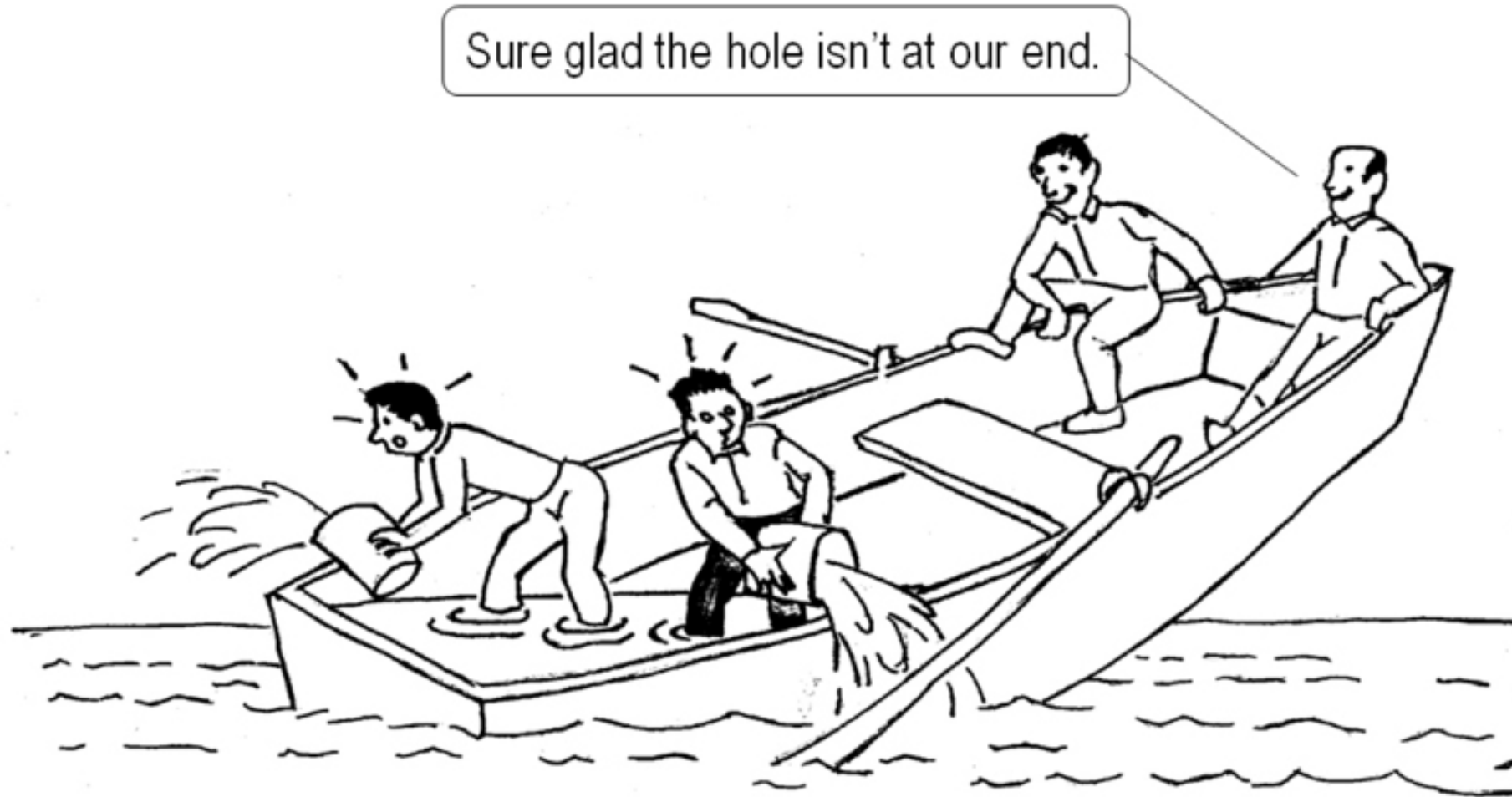
# Pipeline integrity management and the importance of a system approach

Ptil webinar – 2<sup>nd</sup> June 2020

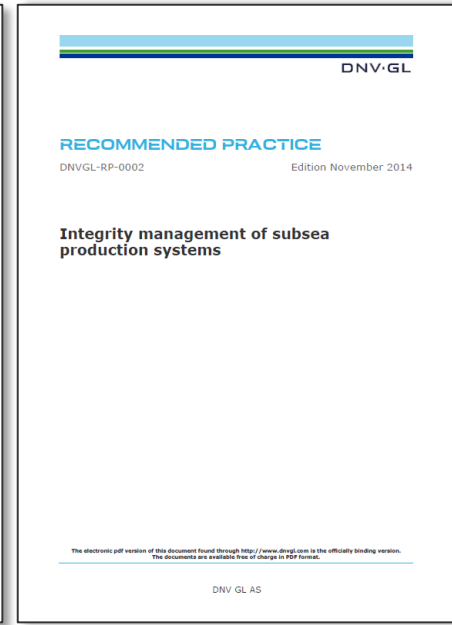
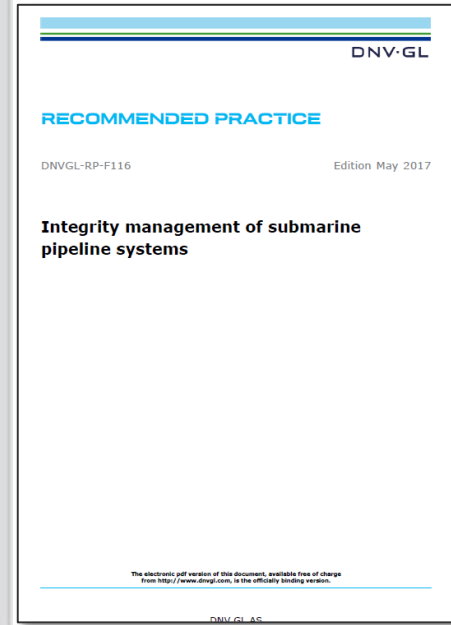
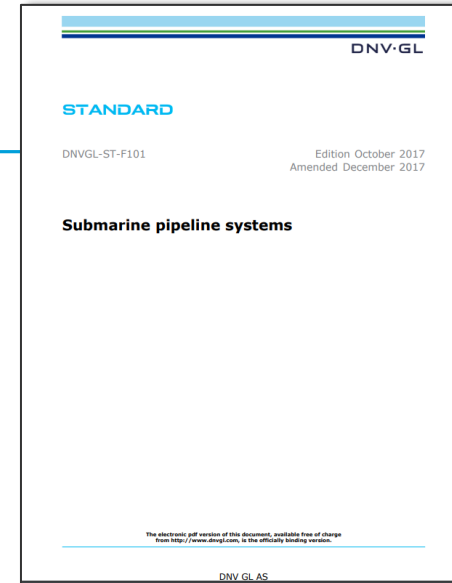
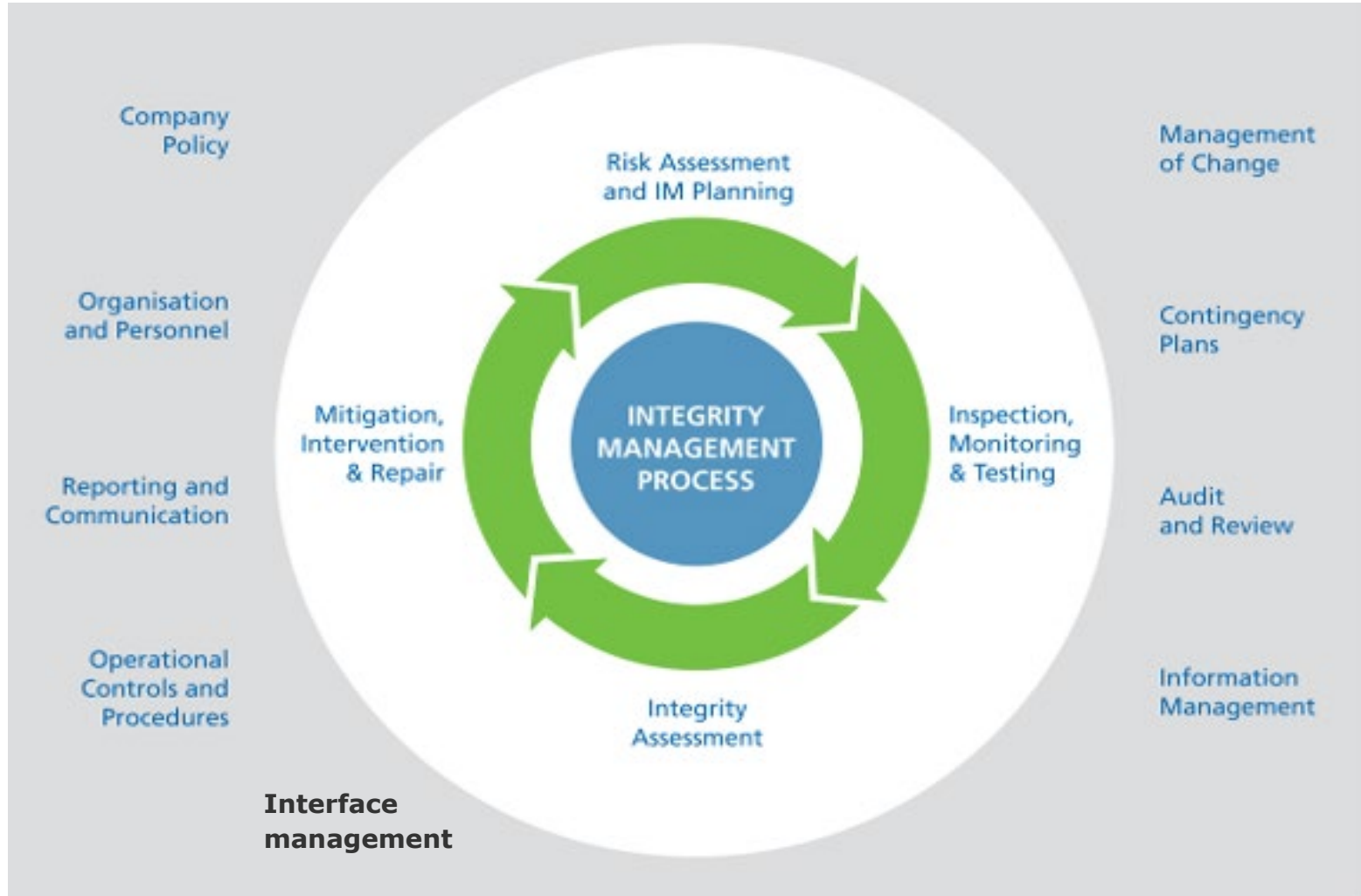
**Anne Britt Høydal, Head of Section Pipeline Operations & Flow**

02 June 2020

## Why is it important with a system approach?

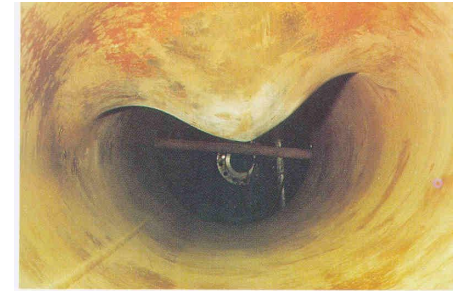


# Integrity management system



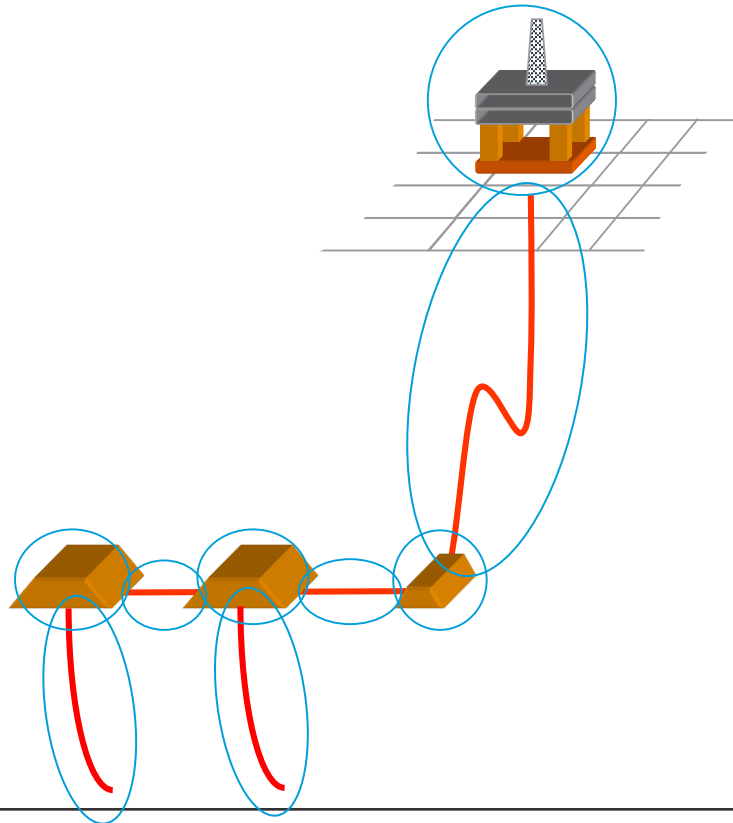
## Challenges related to integrity management

- Failures are rare, but do happen – how to reduce likelihood?
- Focus on cost efficiency – how to do this safely?
- Important factors:
  - System approach and proper handling of interfaces
  - Availability of historic data and DFI (design, fabrication, installation) documentation
  - Learning from events (good at learning from failures, not necessarily good at learning from near misses/events)

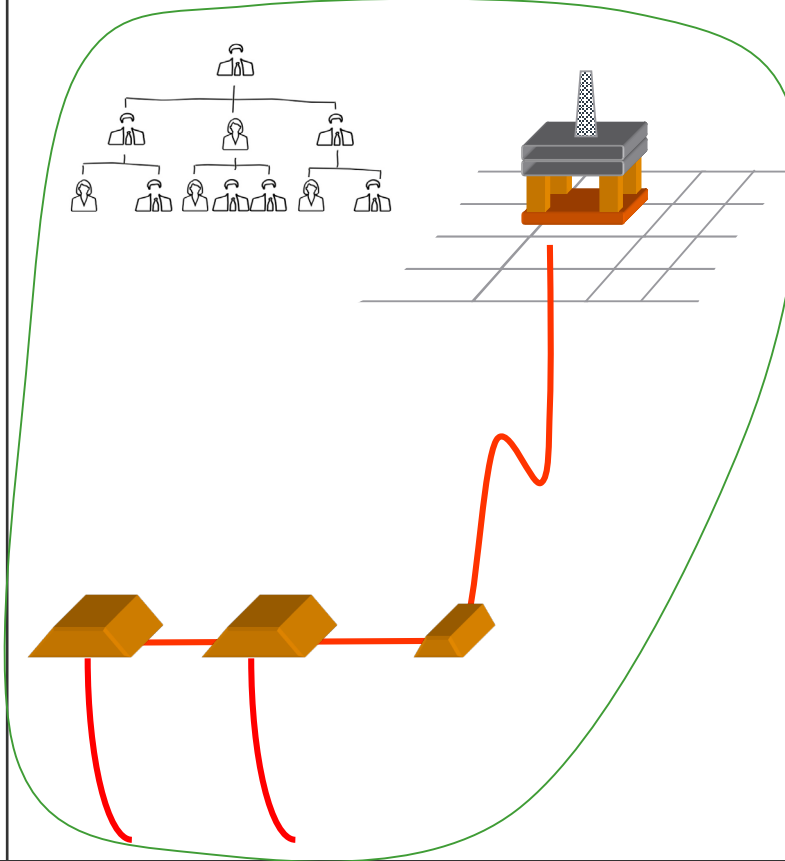


# System approach/interfaces – a challenge in all phases

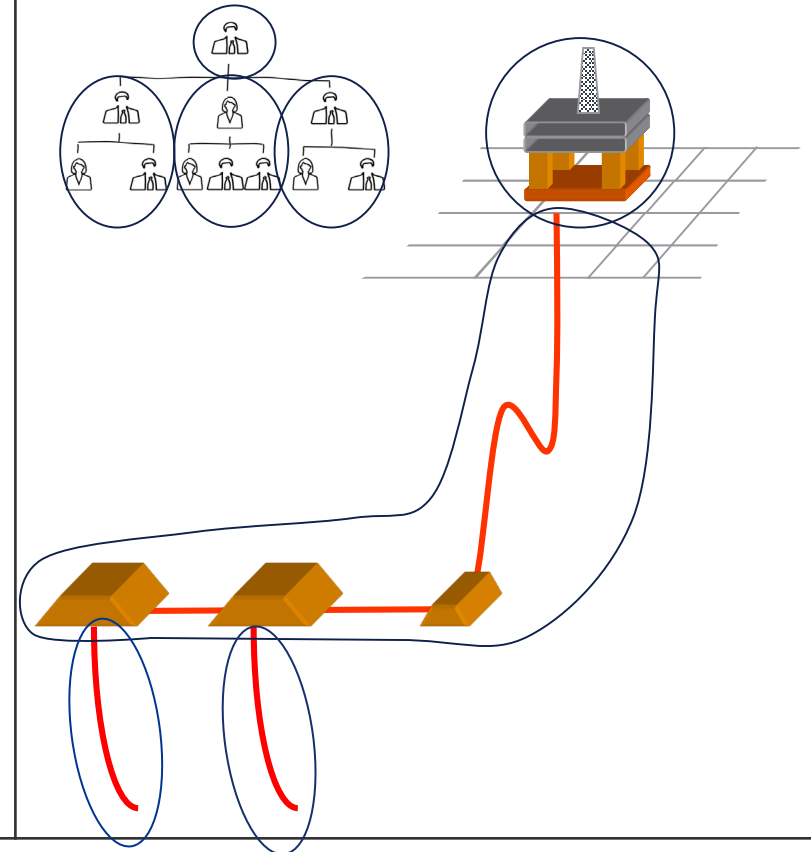
Contractors scope of work:  
Several EPCI contractors  
usually involved



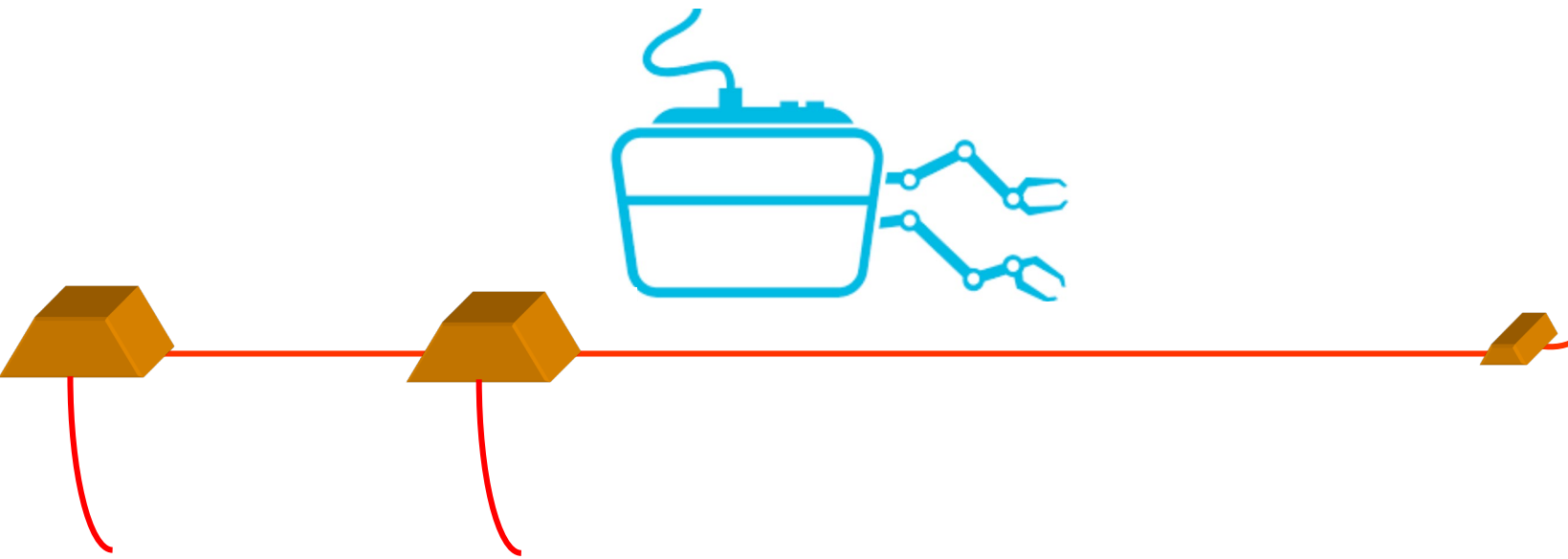
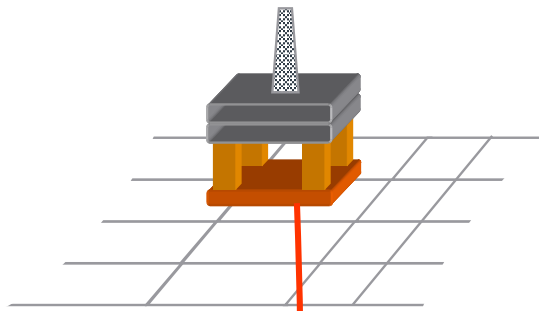
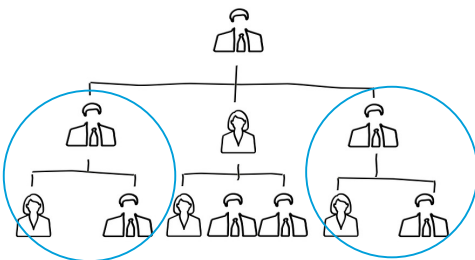
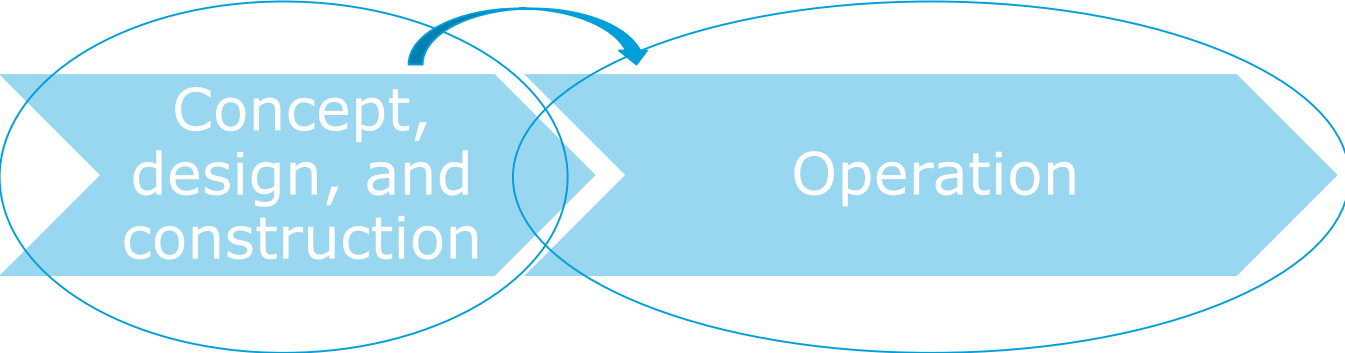
Operators responsibility:  
Responsible for the overall  
system



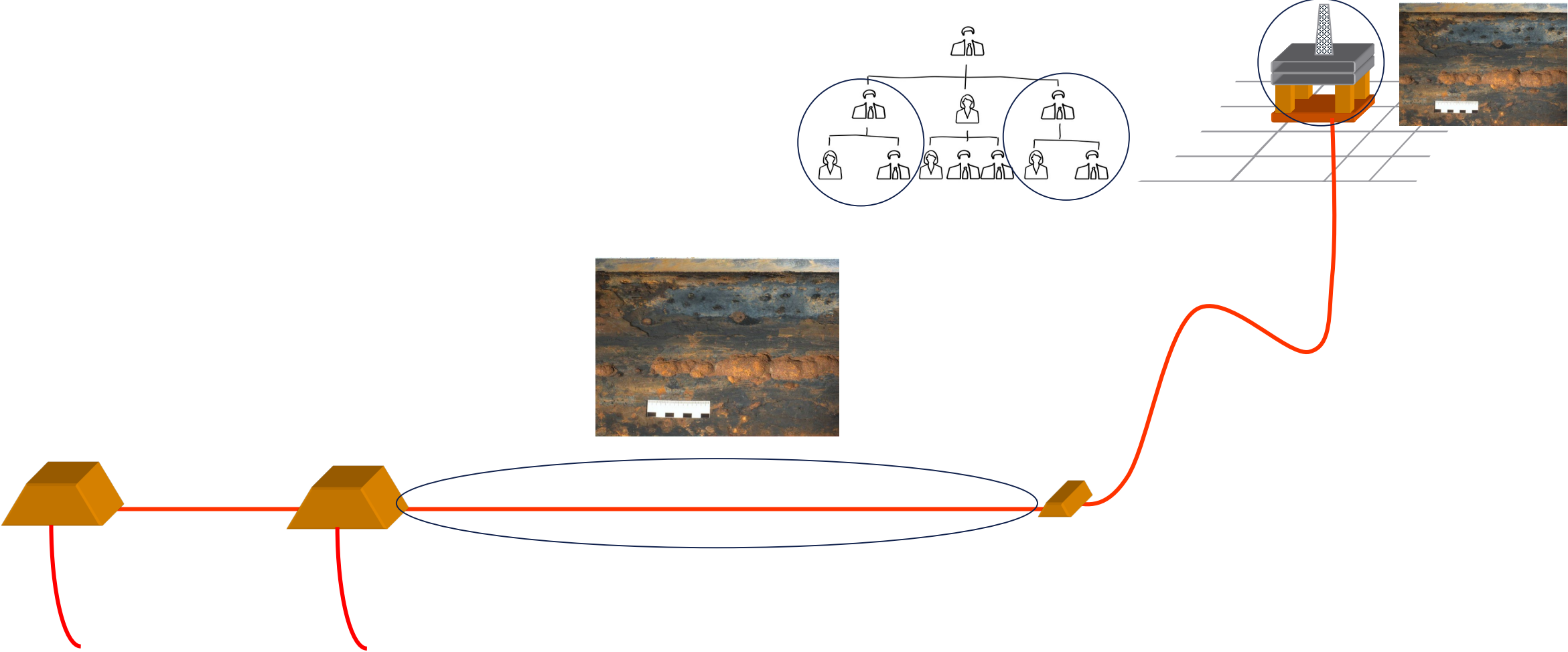
Typical operator organisation:  
Will often be different  
responsibilities



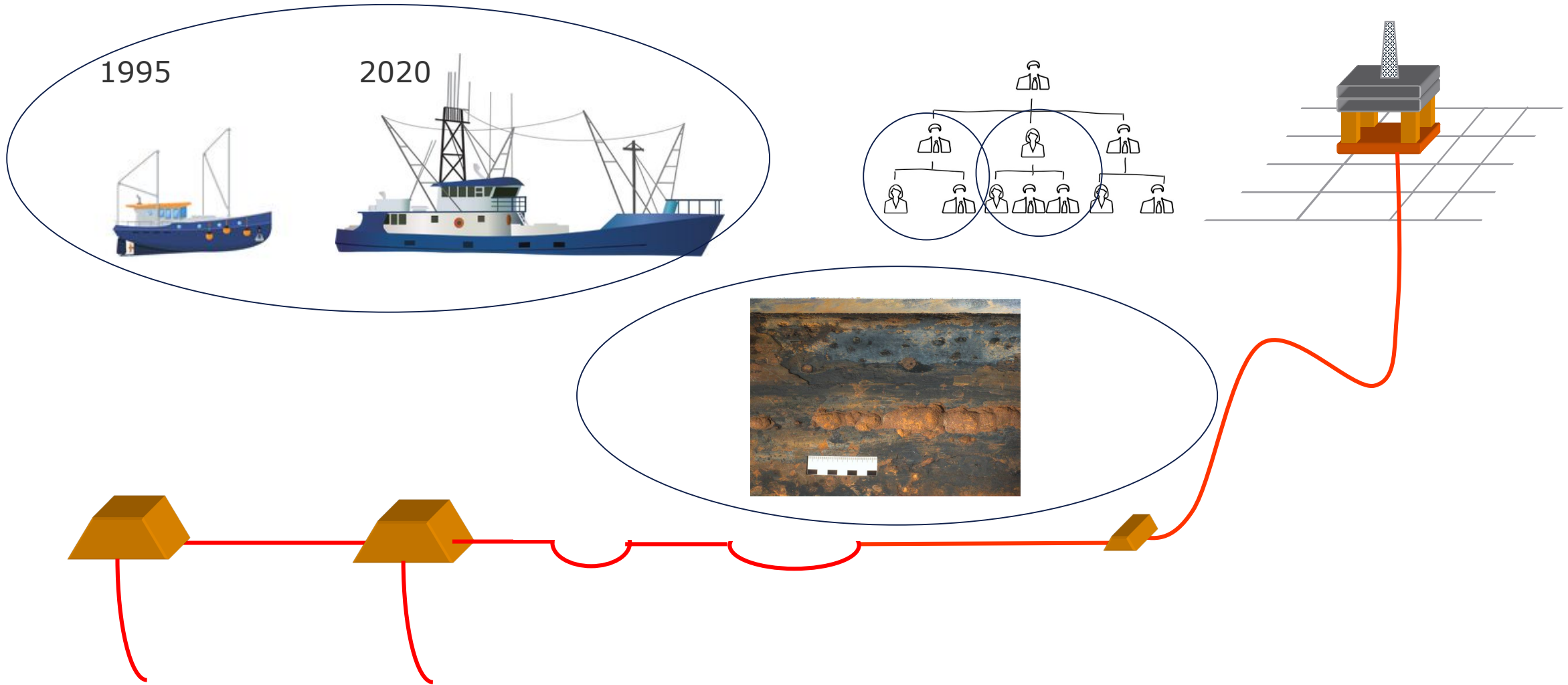
# Example 1 – Lifecycle and phases



# Example 2 – Organisation



# Example 3 – History and utilisation of data





## How to succeed with a system approach?

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- In addition to the integrity management process also remember to focus on support elements in the IMS, including interface management.
- Clear battery limits and responsibilities
- Communication in all phases and across organisation/disciplines
  - Operations involved in project phase
  - Necessary documentation transferred to Operations, key documentation easily available
  - Communication with disciplines with relevant input for your system
- Management of change
  - Own changes
  - Changes in other systems that impact your system

# Thank You! Questions?

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