

1 MASS = 1 master ?

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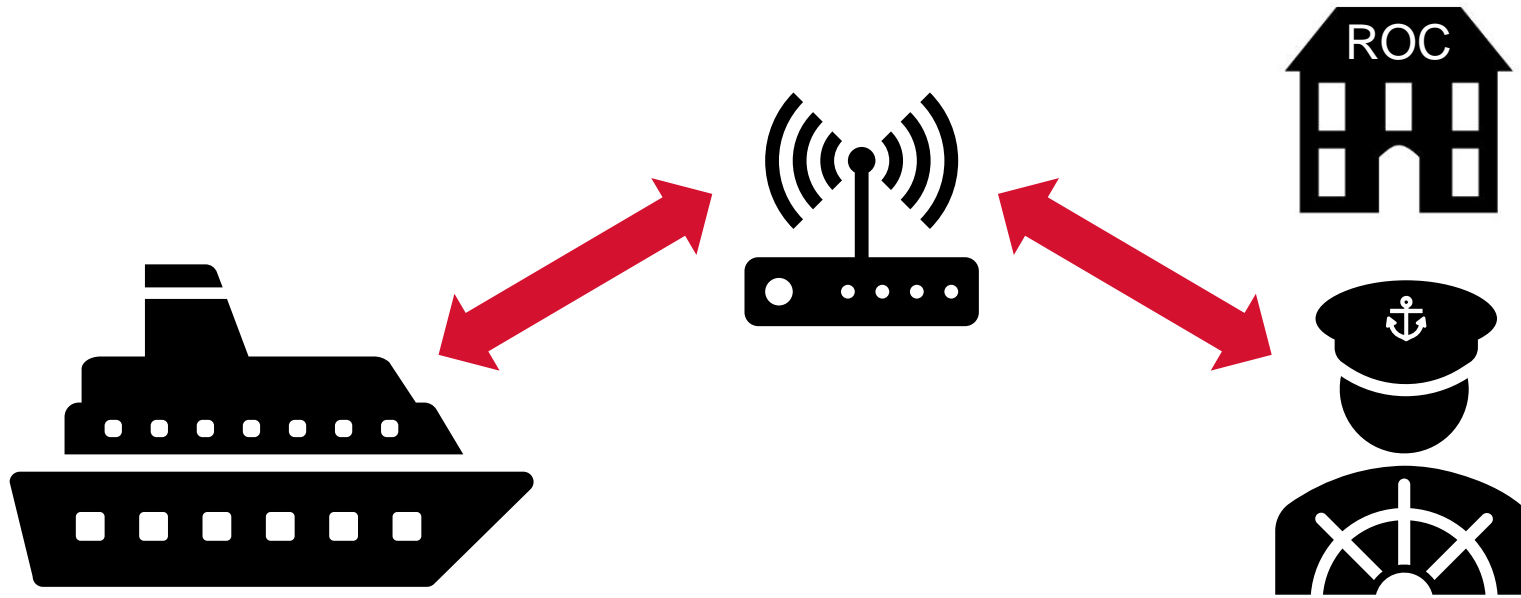
Eva Ricarda Lange  
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Trondheim, 30.10.2024

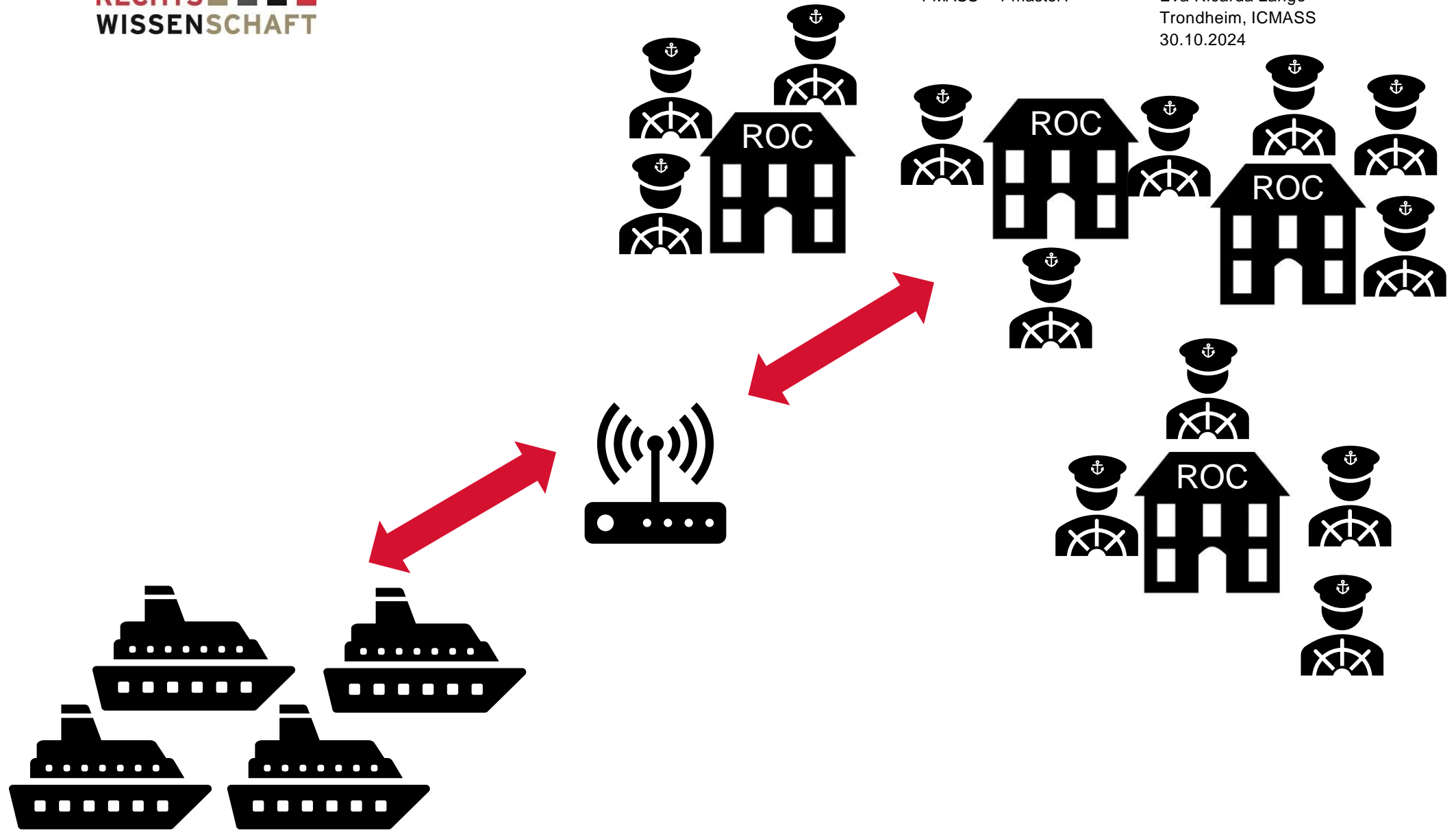
# IMO MASS

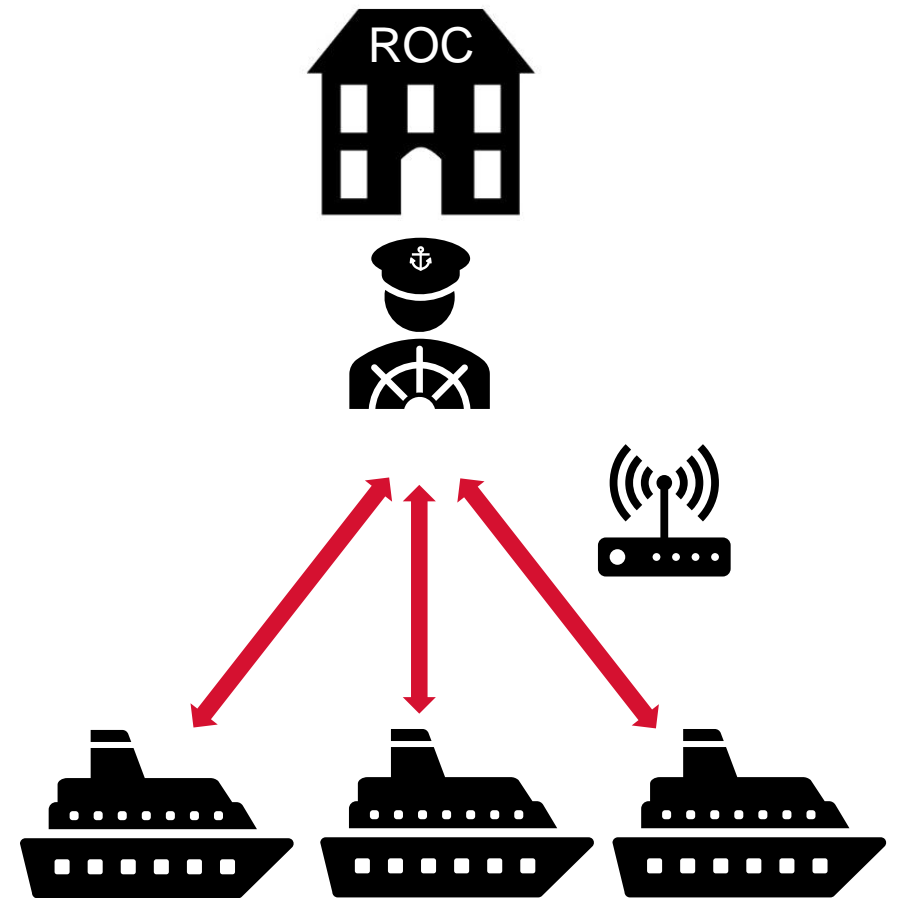
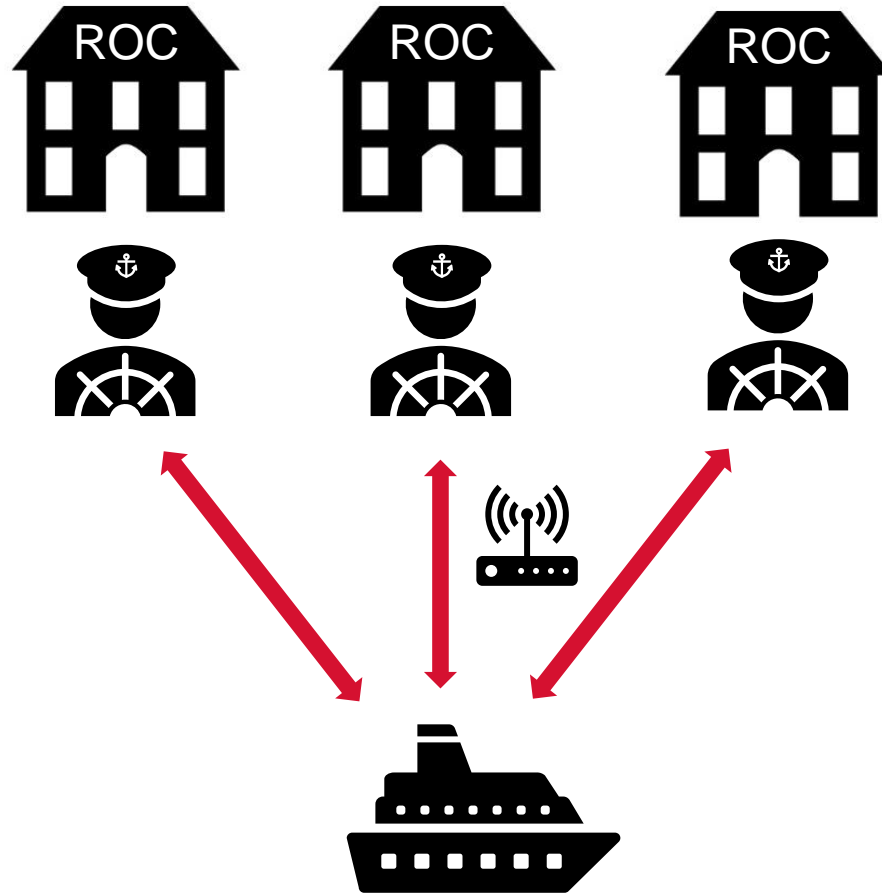


- MASS = Maritime Autonomous Surface Ship
- Degree One and Two: Seafarers are on board (for operation)
- Degree Three: Remotely controlled ship without seafarers on board
- Degree Four: Fully autonomous ship
  - Constantly supervised by remote operator

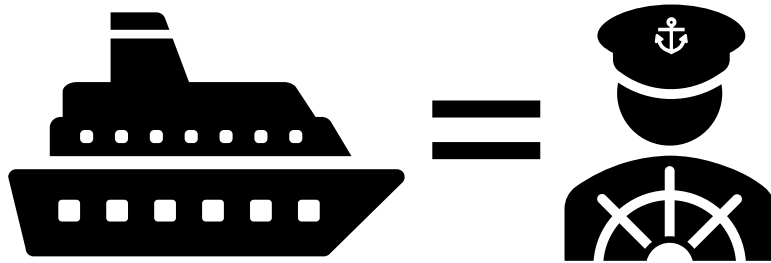
# The “normal“ MASS







# The ship and the master



“Thus the ship, every thing on it, and every person involved or interested in its operations are treated as **an entity** linked to the flag State“

*International Tribunal for the Law of the Sea, MV SAIGA II, 1999,  
mn. 106*

# Tasks of the master

## Navigation

“that each ship is in the charge of a master [...] who possess appropriate qualifications, in particular in seamanship, navigation, communications and marine engineering”, Art. 94(4)(b) UNCLOS

## Safety of crew and cargo

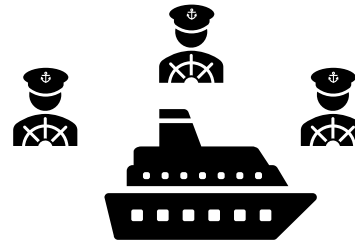
“Plan and ensure safe loading, stowage, securing, care during the voyage and unloading of **cargoes**;  
Use of leadership and **managerial skill**”,  
STCW Code, Reg. A-II/2

## Representative

- Flag state and owner, contact person
- “The master shall have the authority to conclude contracts for salvage operations on behalf of the owner”, Art. 6(2) Salvage Convention

## Rescue

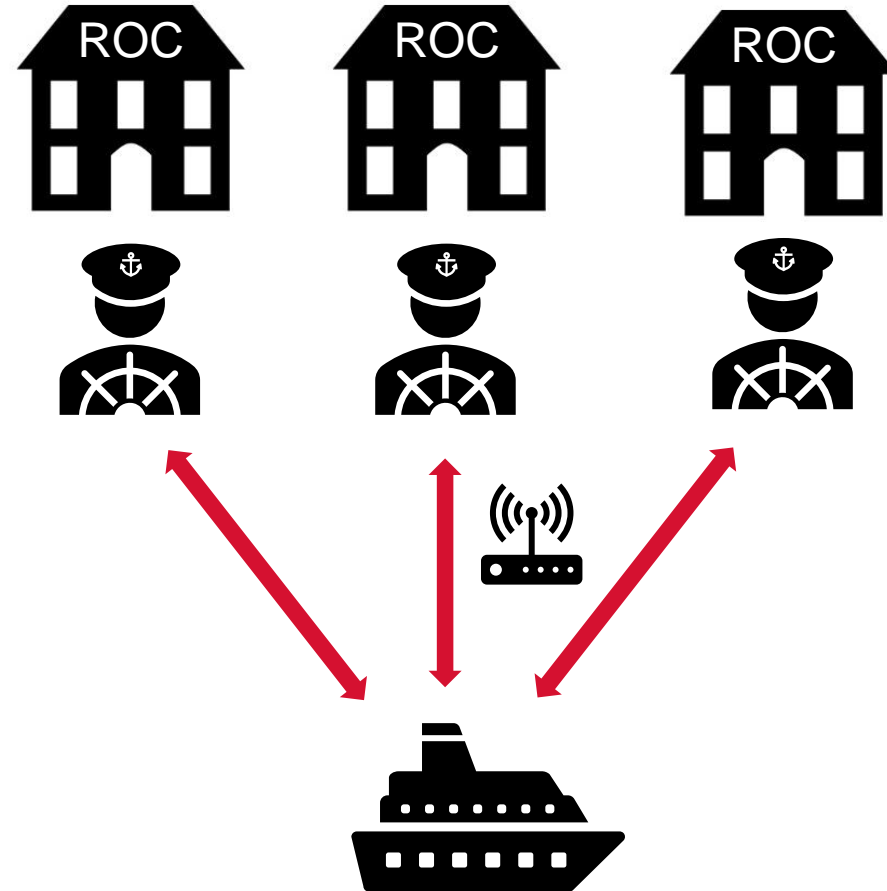
Every State shall require the master of a ship flying its flag [...] to **render assistance** to any person found at sea in danger of being lost”, Art. 98 (1)(a) UNCLOS



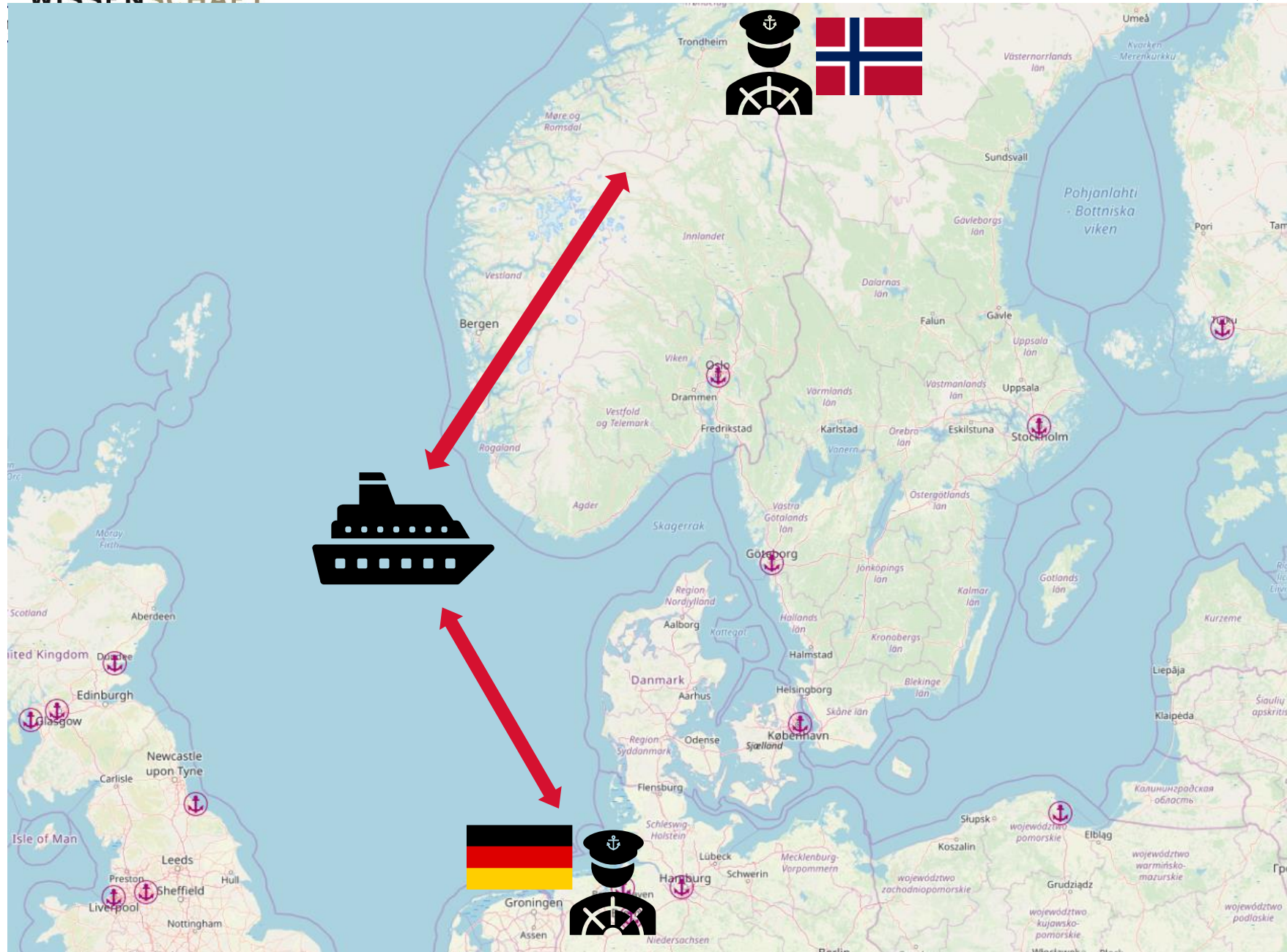
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30.10.2024

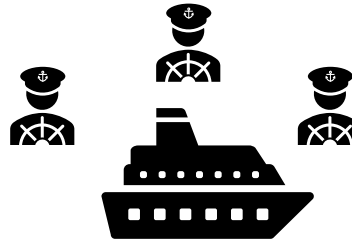
# 1 MASS, several masters







Screenshot from openseamap.org

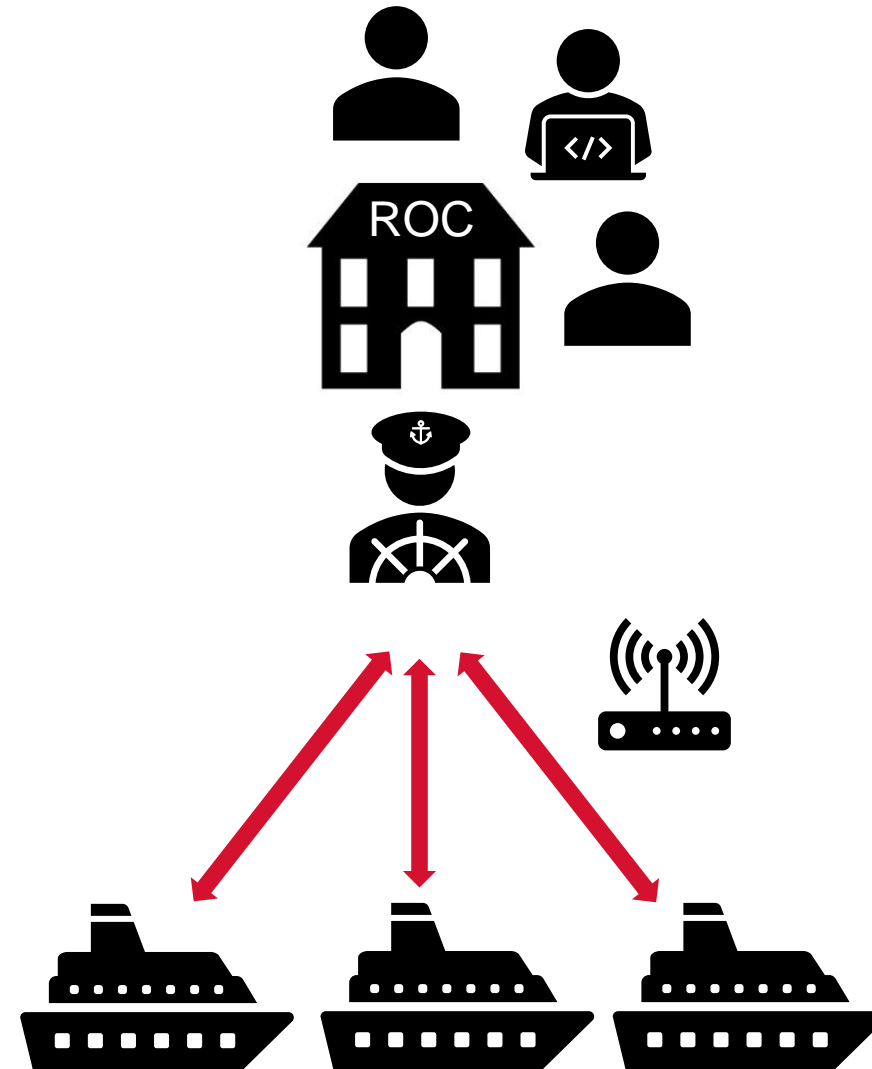


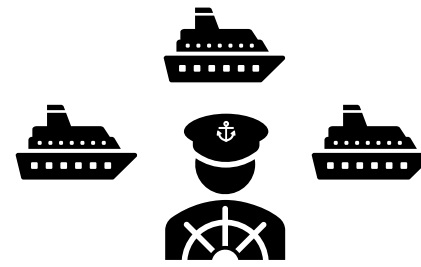
# 1 MASS, several masters

- Similar to “normal” MASS operation
- Constantly master in charge of the vessel
- All tasks can be fulfilled
  
- Local knowledge
- Specialization
- Increased safety
  
- Overhanding all information
- Registration: ROC and MASS separately, than compatibility

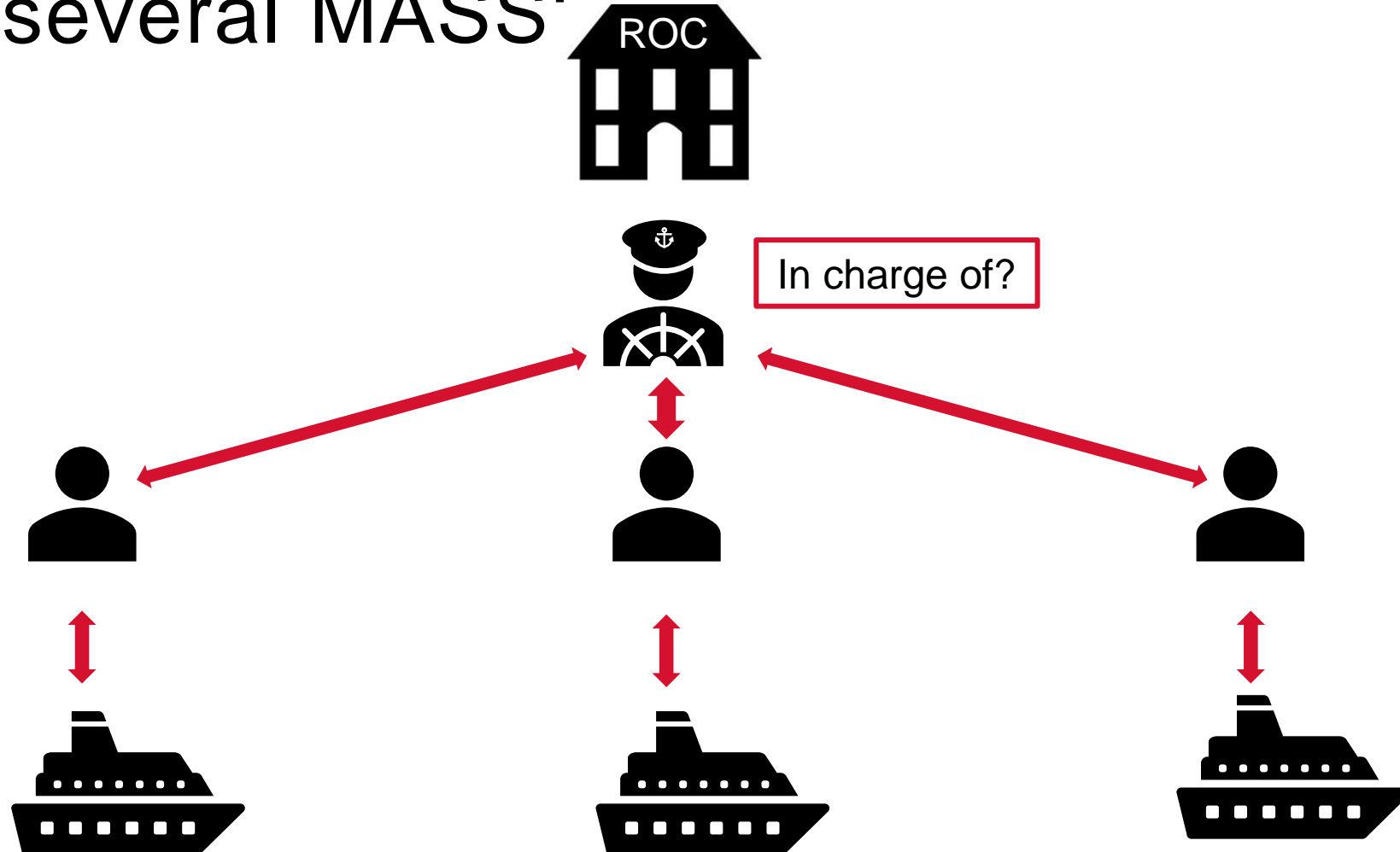


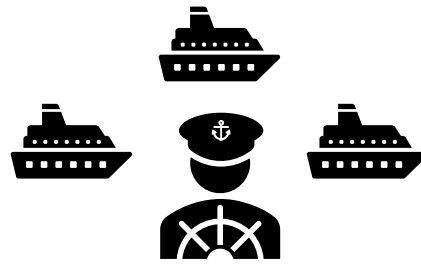
# 1 master, several MASS'





# 1 master, several MASS'





# 1 master, several MASS‘

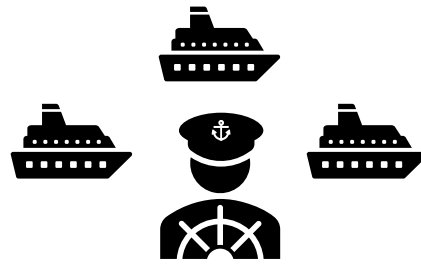
## In charge of

### Responsibility

- Legal aspect
- Consequence, status
- Not the same as liability

### Taking care of

- Active involvement necessary
- Participation
  - Being informed
  - Maintaining good condition



# 1 master, several MASS‘

## Risks

- Confusion
- Time to „get-on-track“
- Reluctance to disturb master
- Priorization

## But

- Increased efficiency



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