



Western Norway
University of
Applied Sciences

Human factors regulations in the maritime domain

Toward a comprehensive development strategy

Viet Dung Vu

Lecturer – Department of Maritime Studies

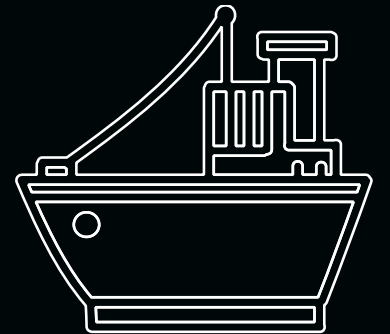
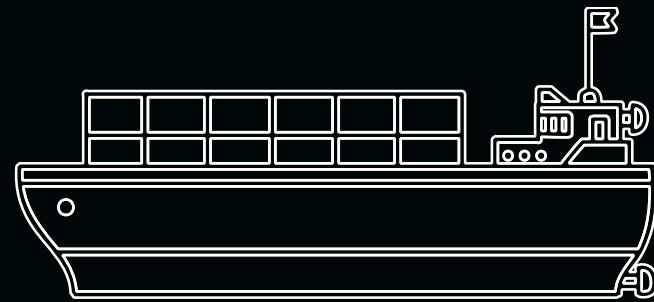
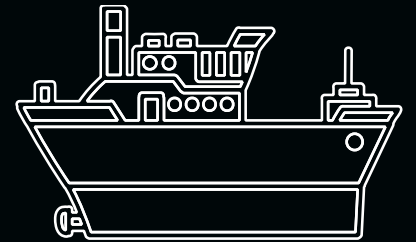
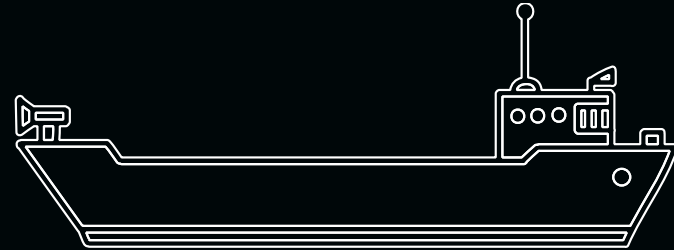
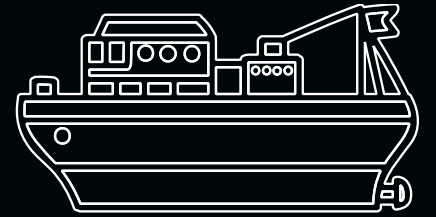
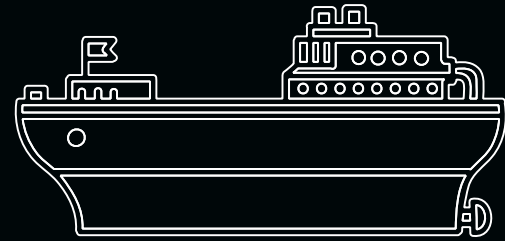
“A new regulation a day keeps innovation away”

A colleague who does not want to be named

A case study: the development of *the “S-mode” guidelines* by the **International Maritime Organisation [IMO]**

The S-mode concept

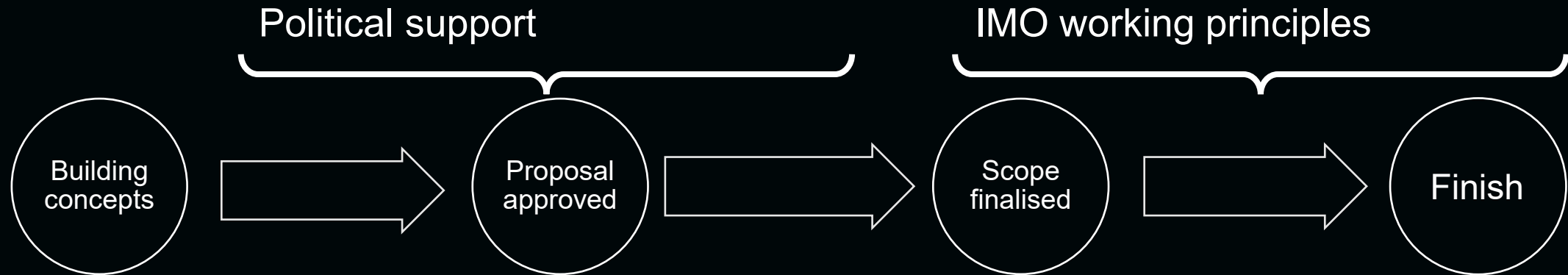
Identical equipment
interfaces



MSC.1/Circ.1609 – The “S-mode” guidelines

- › Approved in 2019
- › Standard principles for designing interfaces for navigation equipment
- › Four (4) standard interface features
- › Entry into force on January 1st, 2024

Influential factors



Weak common ground

- > End-users & Manufacturers
- > Academic researchers vs Engineers

Implications

Goal

- › Aligned with agendas of influential stakeholders

Scope

- › Incremental innovation
- › Level of standardisation

Content

- › Requirements of both end-users and implementors
- › Goal-based vs Prescriptive

Working arrangement

- › IMO high-level regulations
- › Detailed specifications by partner organisations

Future research

- › Validity in other domains
- › Academic & Engineer – the gap between sectors
- › “Prescriptive” recommendations

