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Harmonized Ship-Shore Exchange of Administrative and Operational Data

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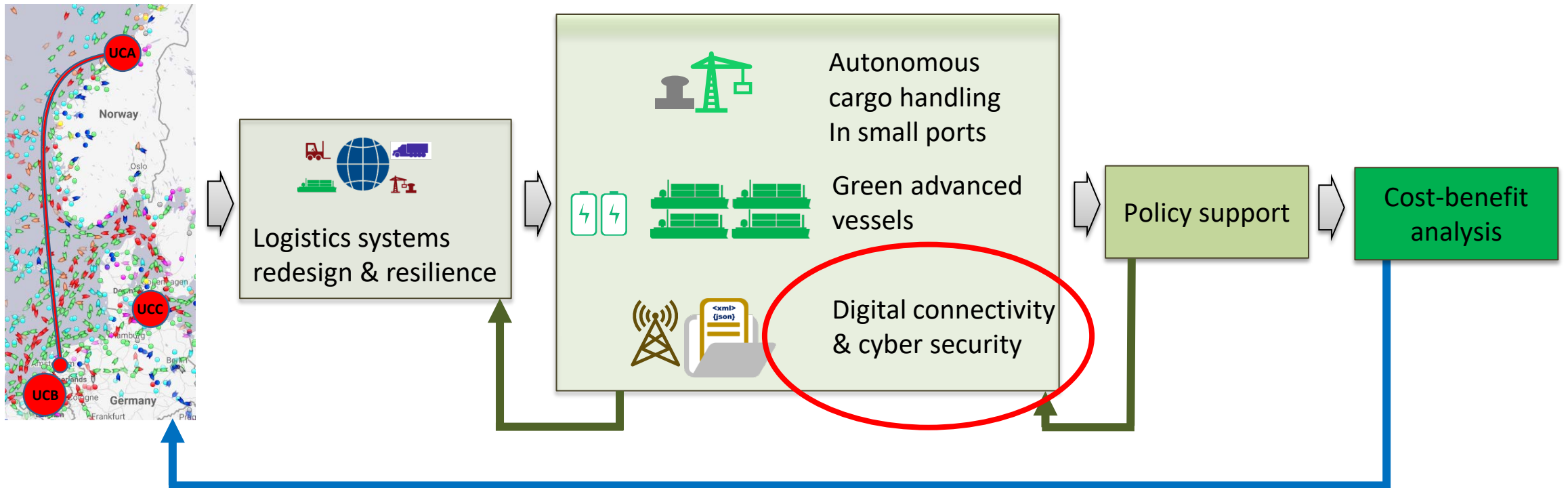
AEGIS: Advanced, Efficient and Green Intermodal Systems

<https://aegis.autonomous-ship.org/>



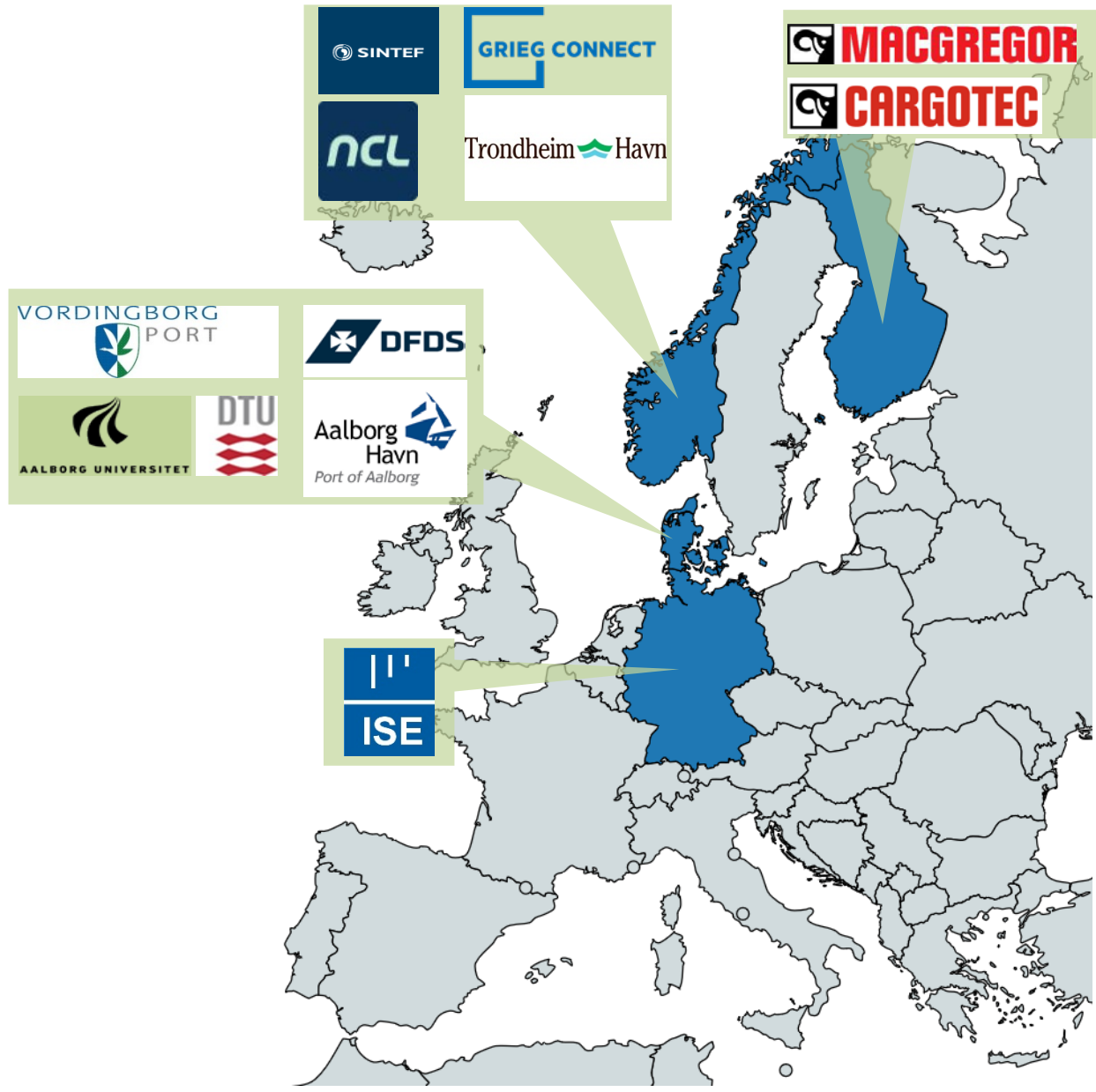
The project has received funding from the European Union's Horizon 2020 Research and innovation program under Grant Agreement N°859992.

The AEGIS project





Partners





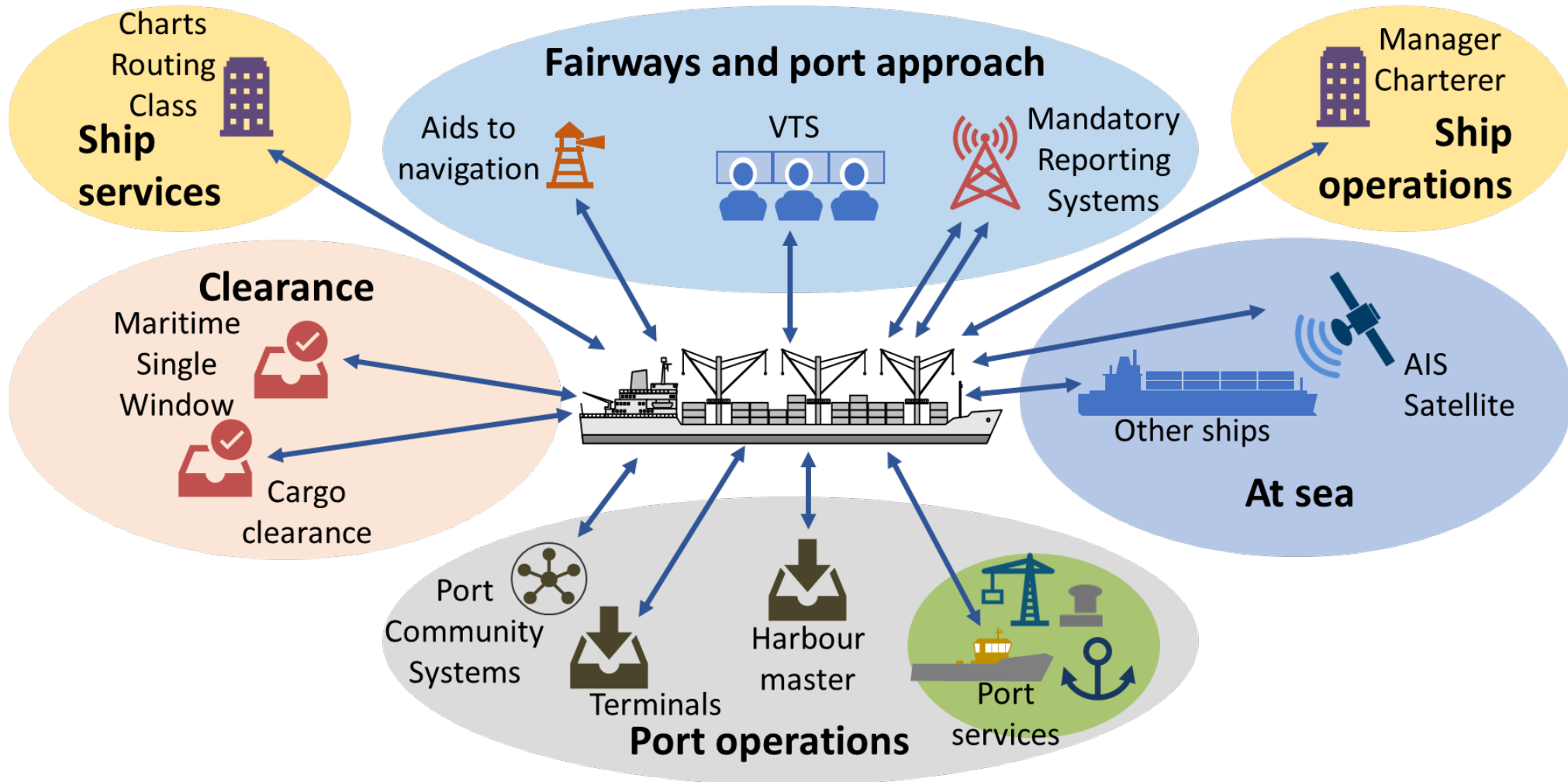
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Introduction to workshop topics



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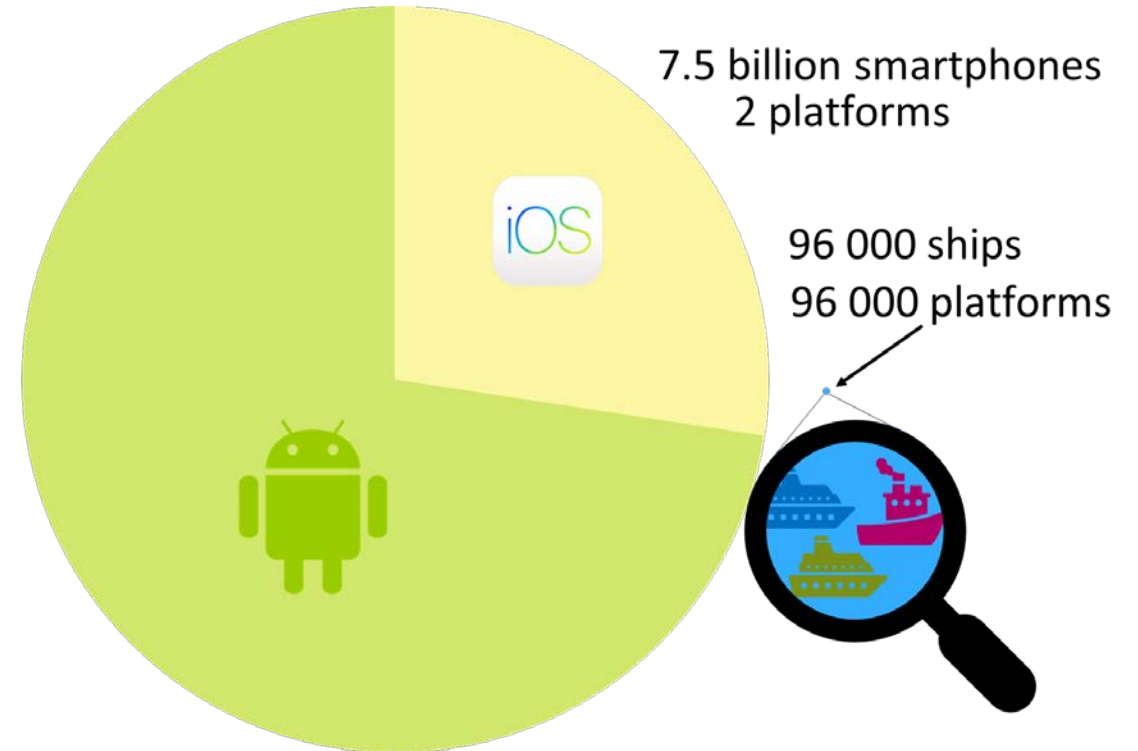
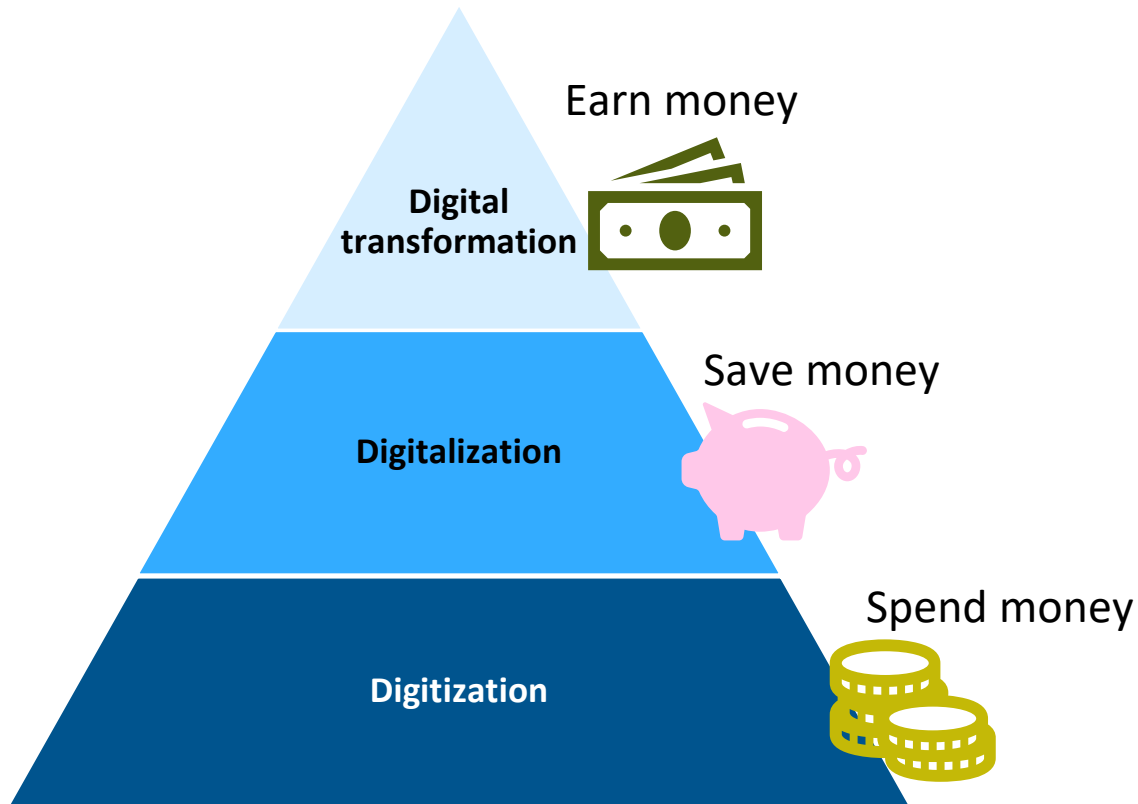
Ships need digital connectivity





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Standards reduce costs and increase innovation but shipping is a relatively small sector



We cannot rely on "natural selection", we need international cooperation!



Different standards made by many different parties



IMO FAL ship reporting



S-100 e-navigation group



Onboard and ship-shore data exchanges

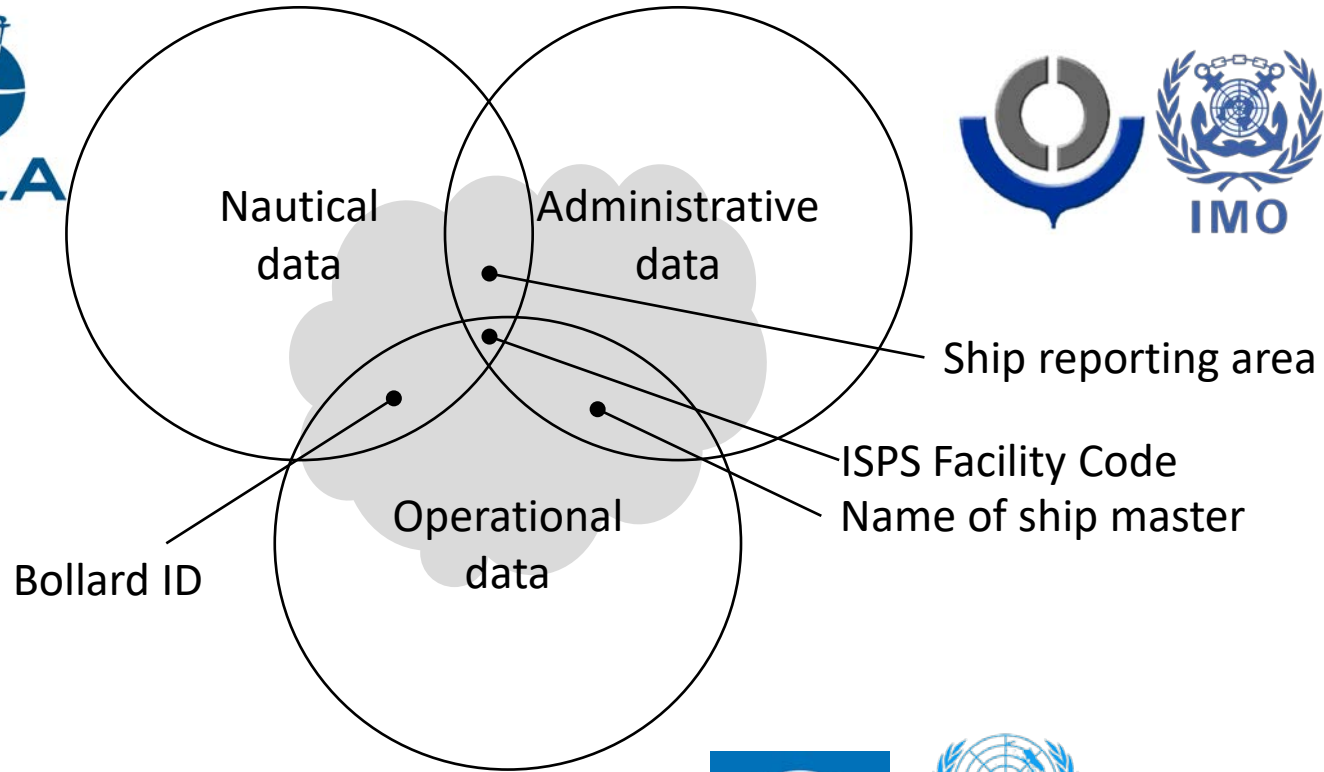


Individual data modelling
developments in most organizations



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Need coordination on selected data objects



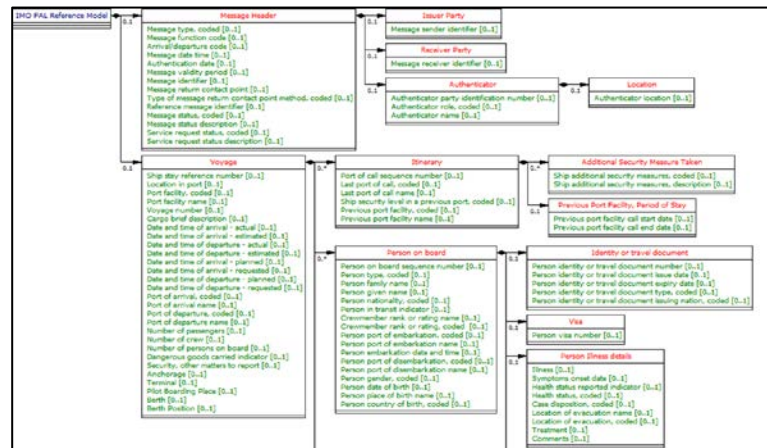


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A reference data model is under development in IMO FAL.



Controlling documents



IMO Reference Data Model



Specific standards



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Started as a partnership in 2020

PARTNERSHIP AGREEMENT

BETWEEN

THE INTERNATIONAL MARITIME ORGANIZATION,

THE WORLD CUSTOMS ORGANIZATION,

THE UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE

AND THE INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

CONCERNING THE MAINTENANCE OF THE IMO REFERENCE DATA MODEL

1 **WHEREAS** digitalization of all forms of information exchanges is an increasingly important element in modern societies, including international maritime transport, and that standards are acknowledged to be an essential facilitator for efficient and safe implementation of digitalization; and

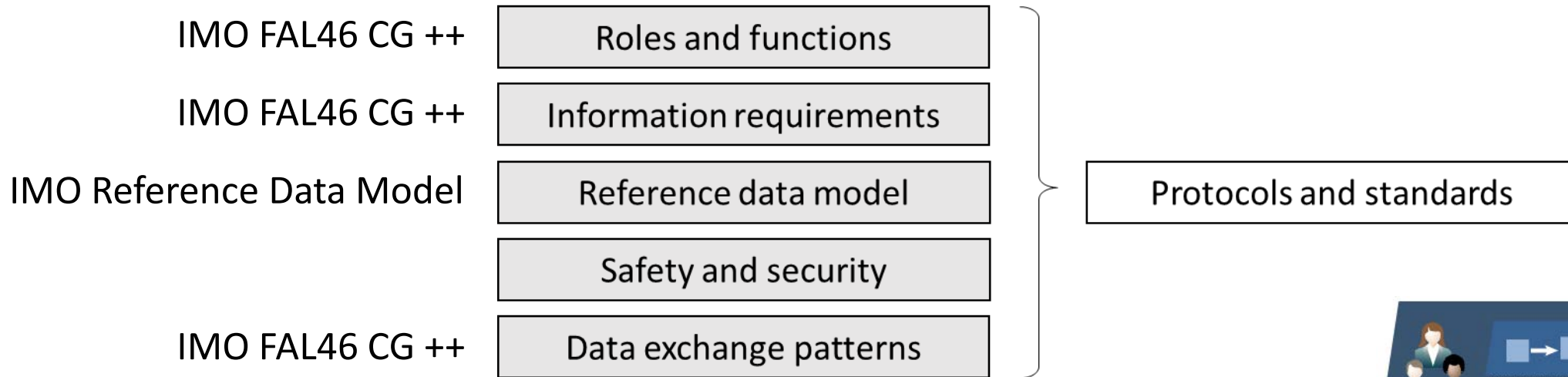
2 **WHEREAS** the World Customs Organization (WCO), the International Organization for Standardization (ISO), the United Nations Economic Commission for Europe (UNECE) and the International Maritime Organization (IMO) are collectively referred to as the Parties; and



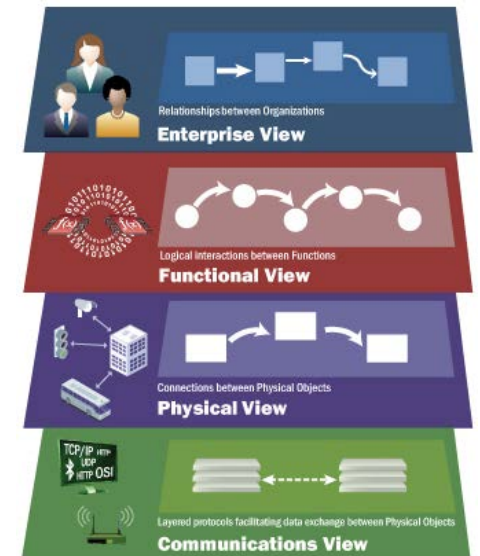


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It should be extended to a maritime ICT reference architecture



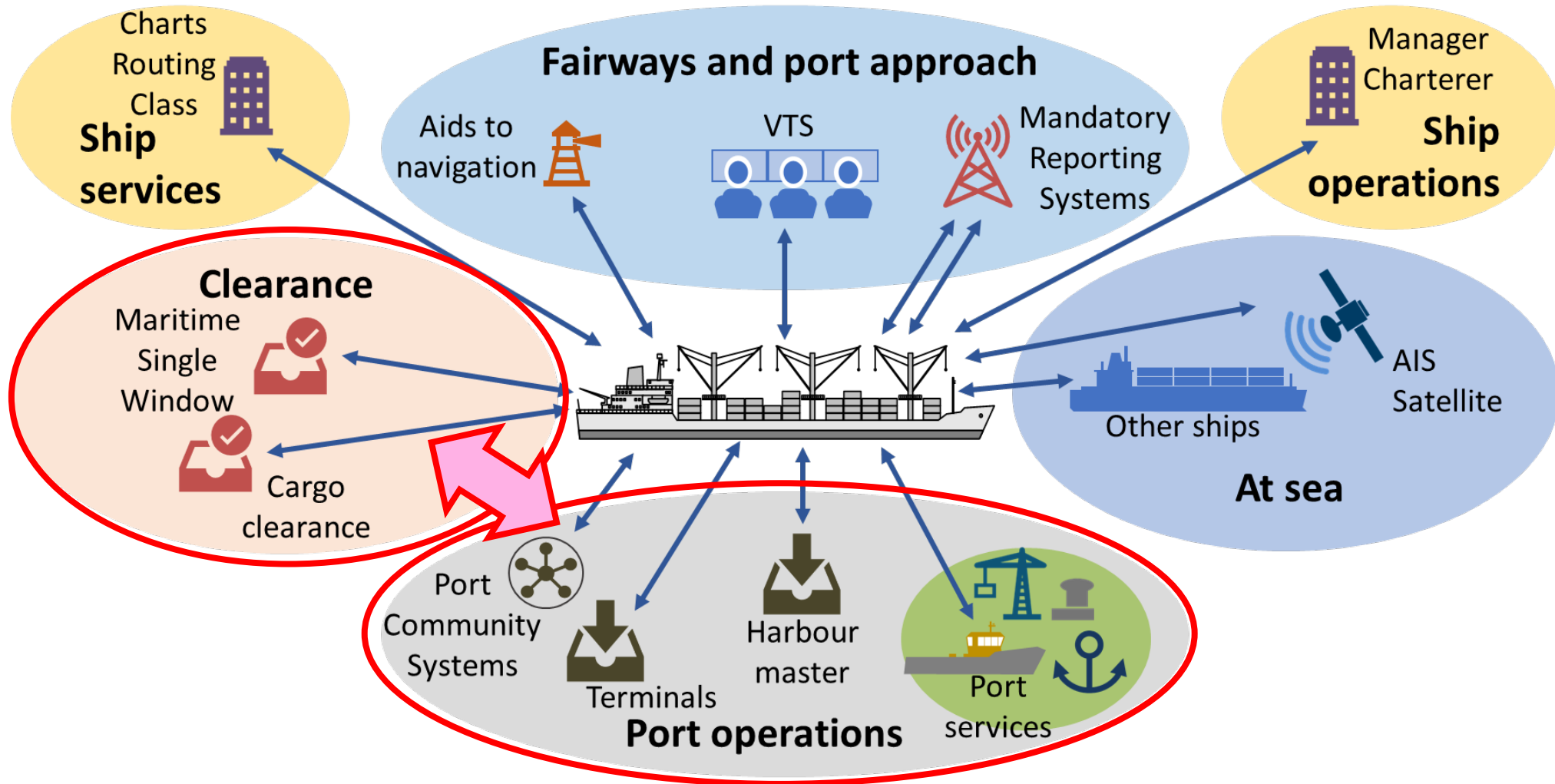
What can be used from ITS architectures?





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Examples of digital connectivity





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To conclude



- Heavy drive towards maritime digitalization
- Initiatives not coordinated
- The IMO Reference Data Model may be used to leverage cooperation
- A maritime ICT reference architecture can be used to link initiatives together
- We need international cooperation on standards development and use

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Thank you for your attention!

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