



Roadmap towards commercial autonomous shipping in 2025

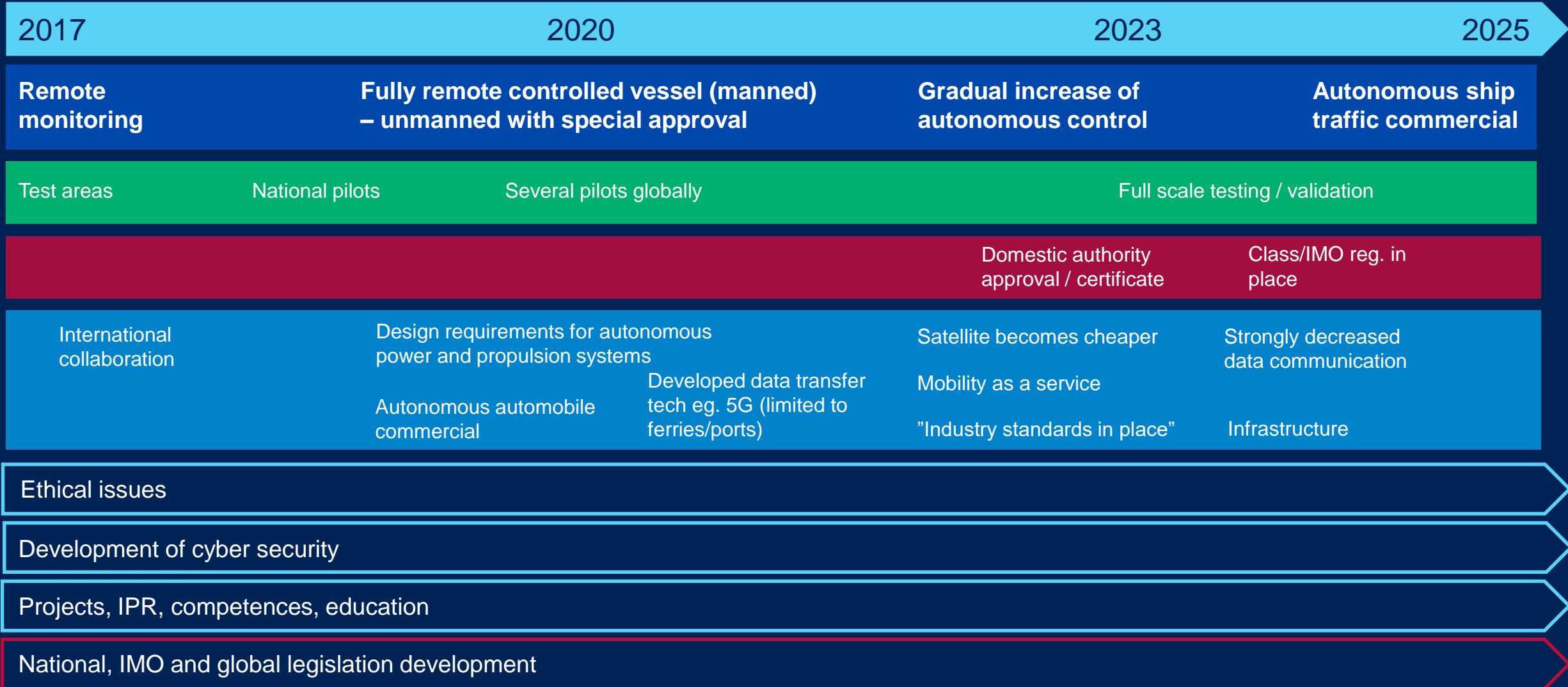
Päivi Haikkola, Ecosystem lead
DIMECC

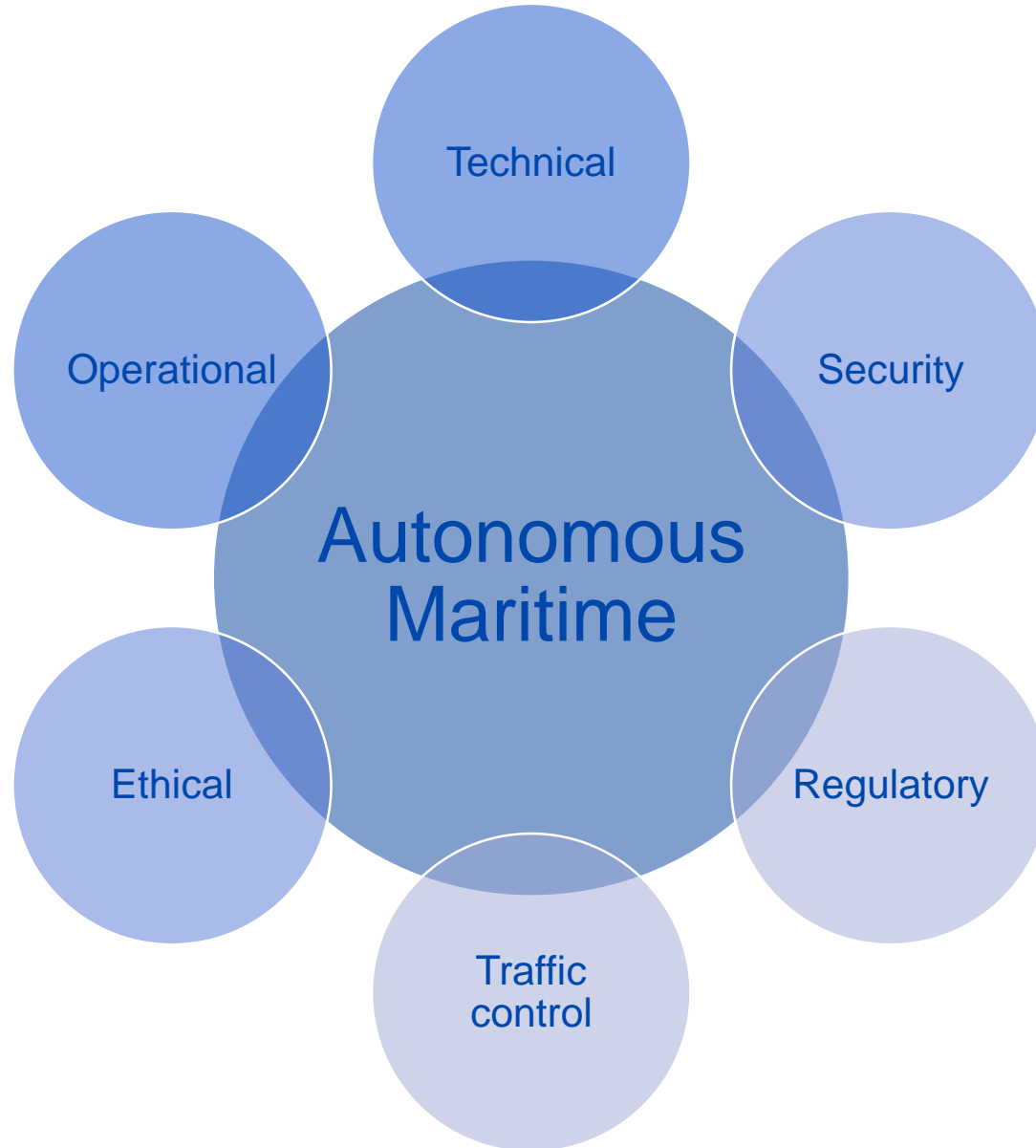
**The One Sea – Autonomous
Maritime Ecosystem
is exceptionally advanced
and a natural step towards
digitalizing marine industry.**

Ecosystem Roadmapping – Purpose

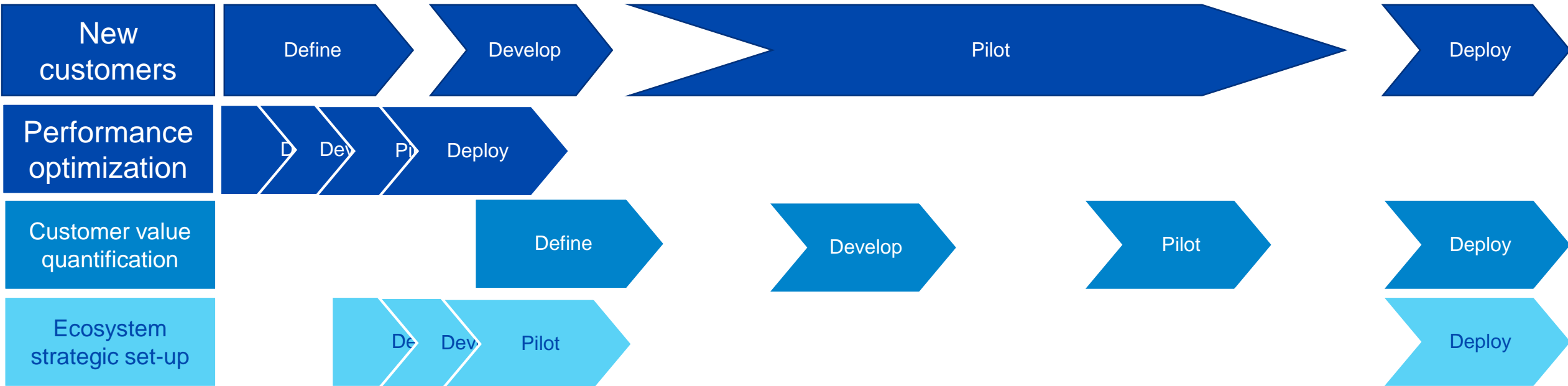
- To **plan and initiate** a portfolio of activities that make the vision to become reality
- To **involve** the best and most relevant global actors, including corporations, SMEs, startups, industry groups, researchers, standardization bodies, regulators, and public authorities
- To **communicate** efficiently, raise awareness, and make impact

Timeline for autonomous ships

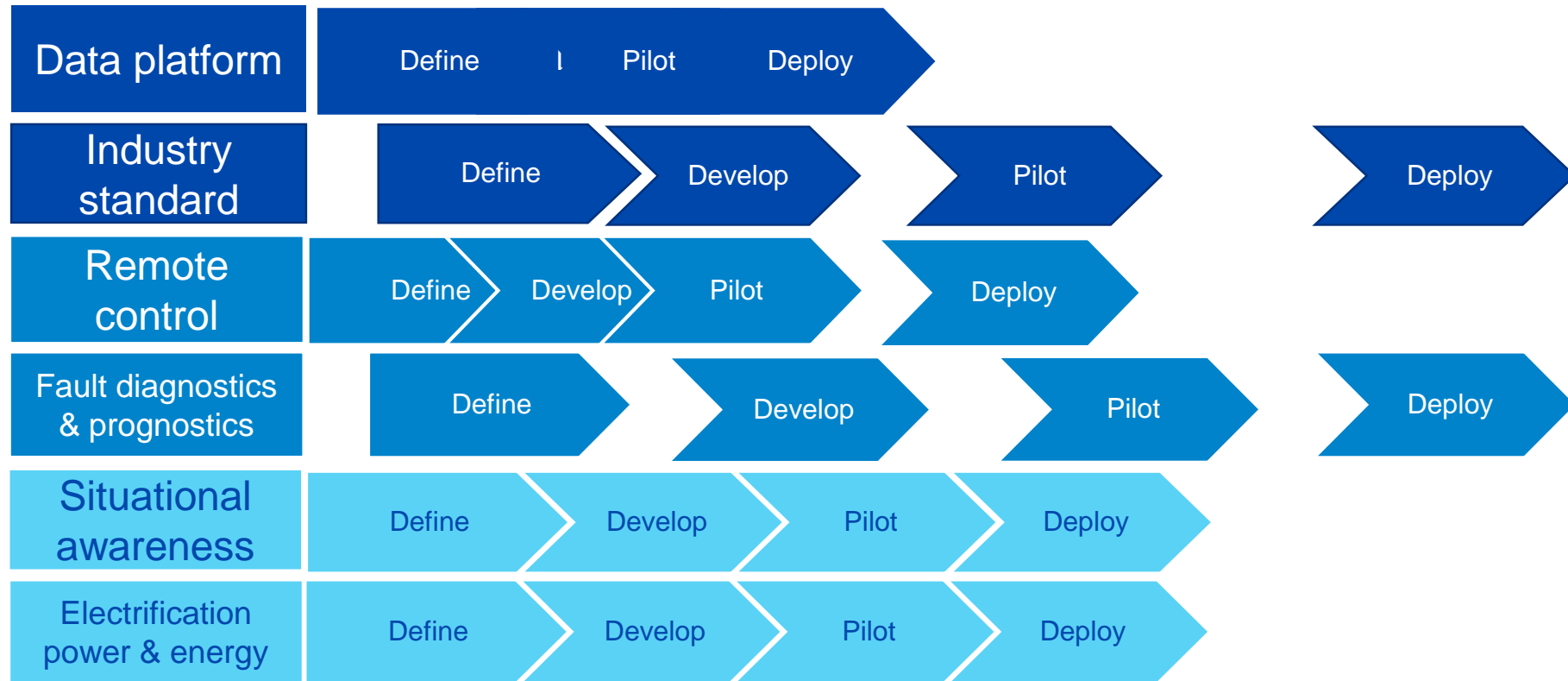
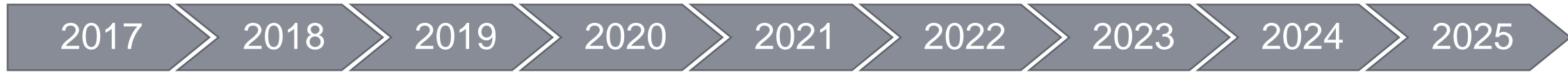




DIMECC One Sea Business case Roadmap



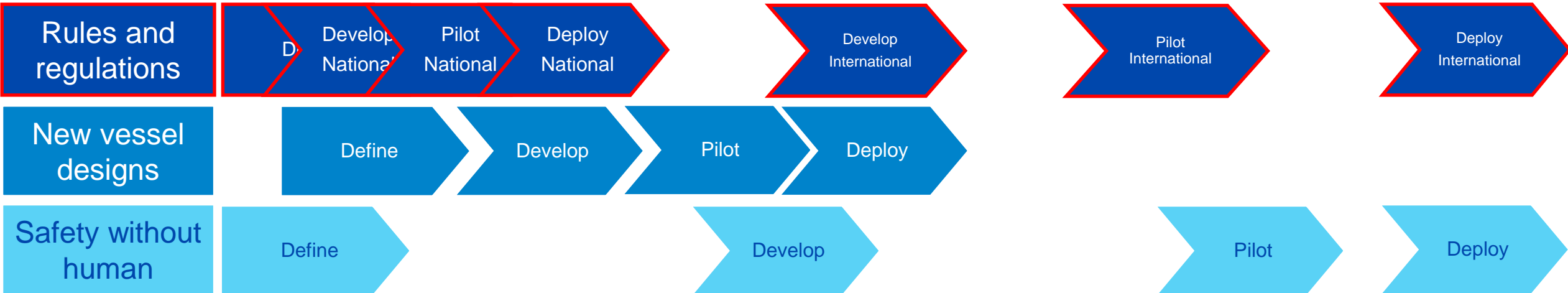
DIMECC One Sea Technical Roadmap



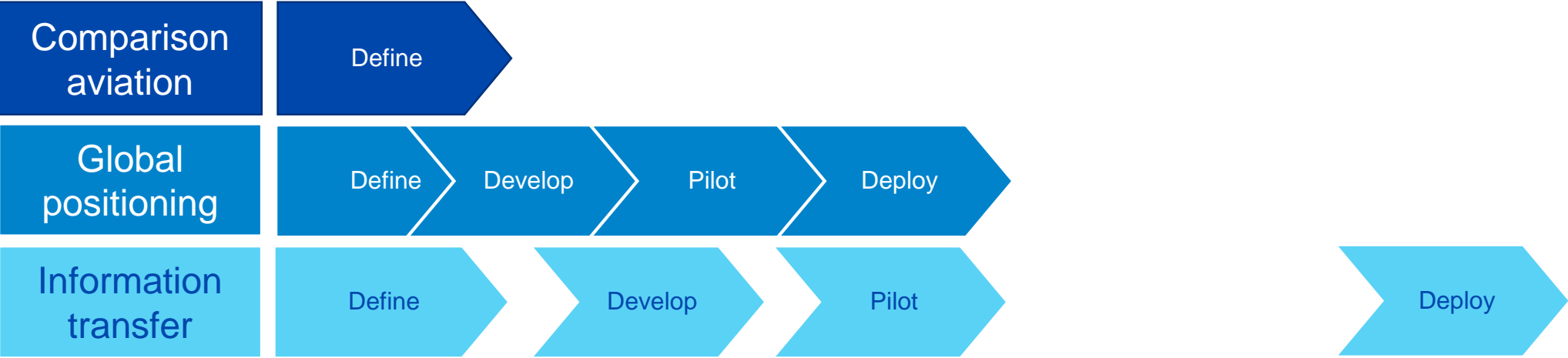
DIM-ECC One Sea Security Roadmap



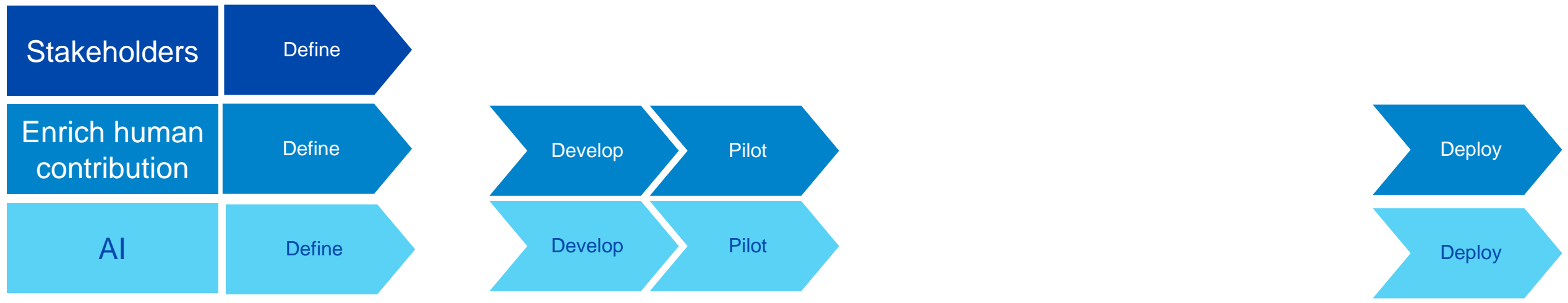
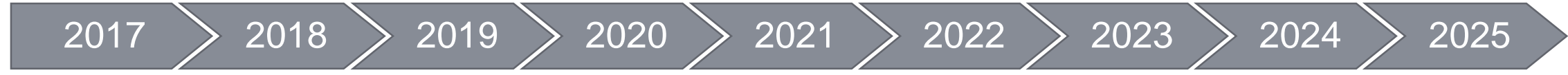
DIMECC One Sea Regulatory Roadmap



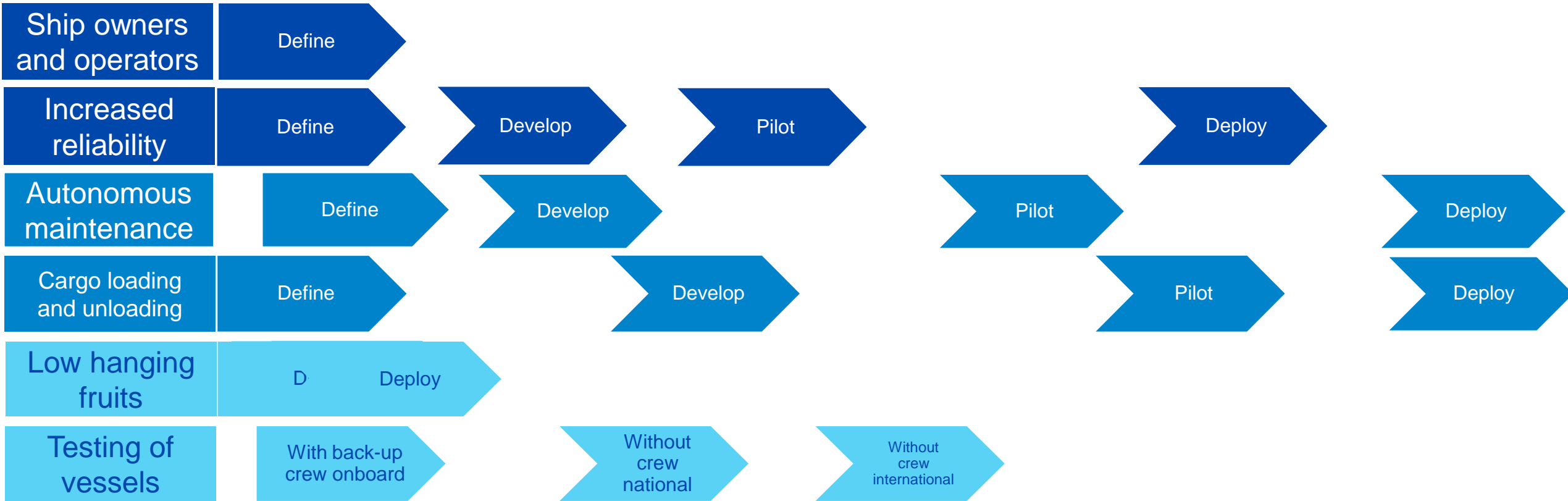
DIM-ECC One Sea Traffic control Roadmap



DIMECC One Sea Ethical Roadmap



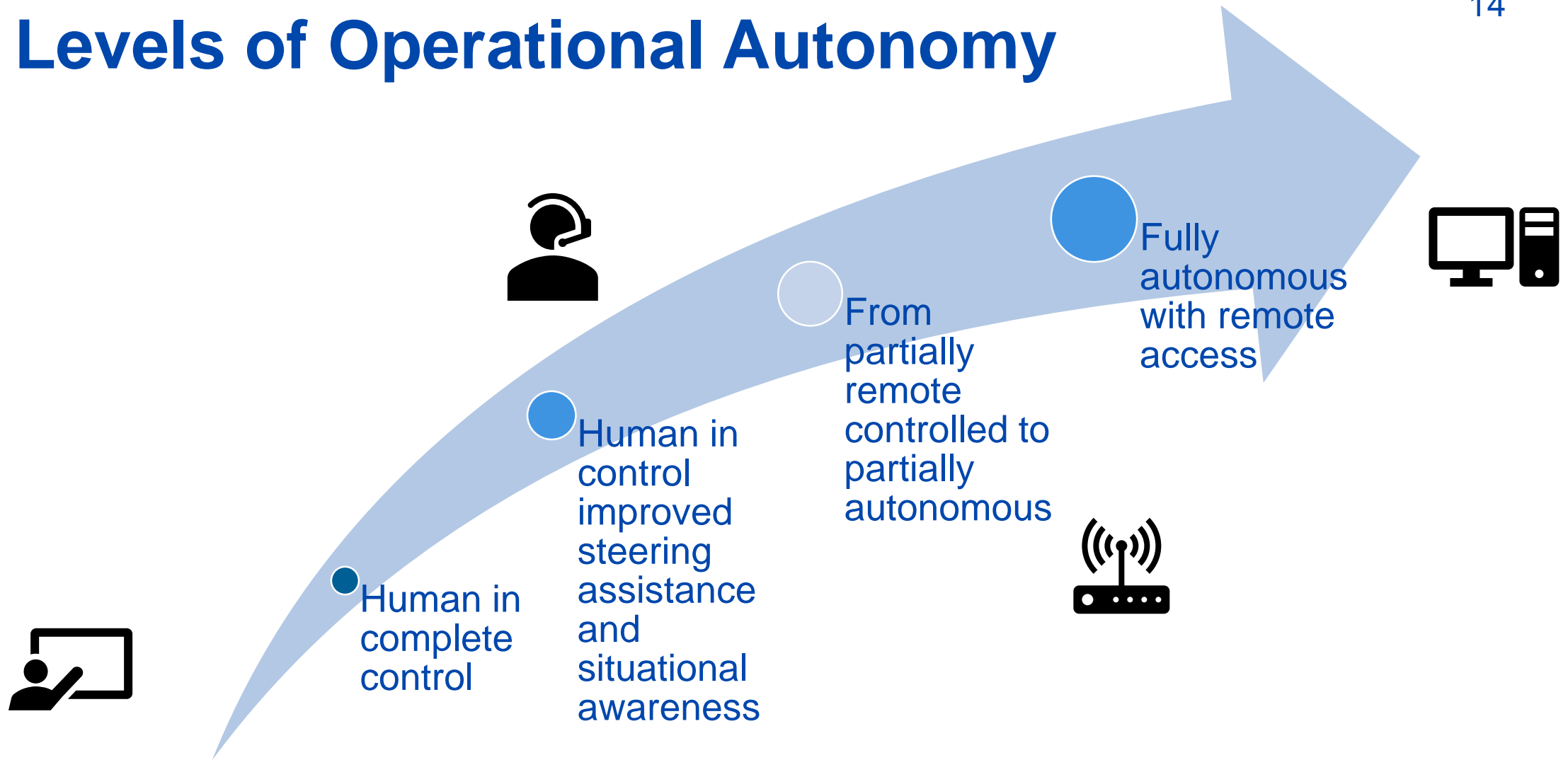
DIMECC One Sea Operational Roadmap



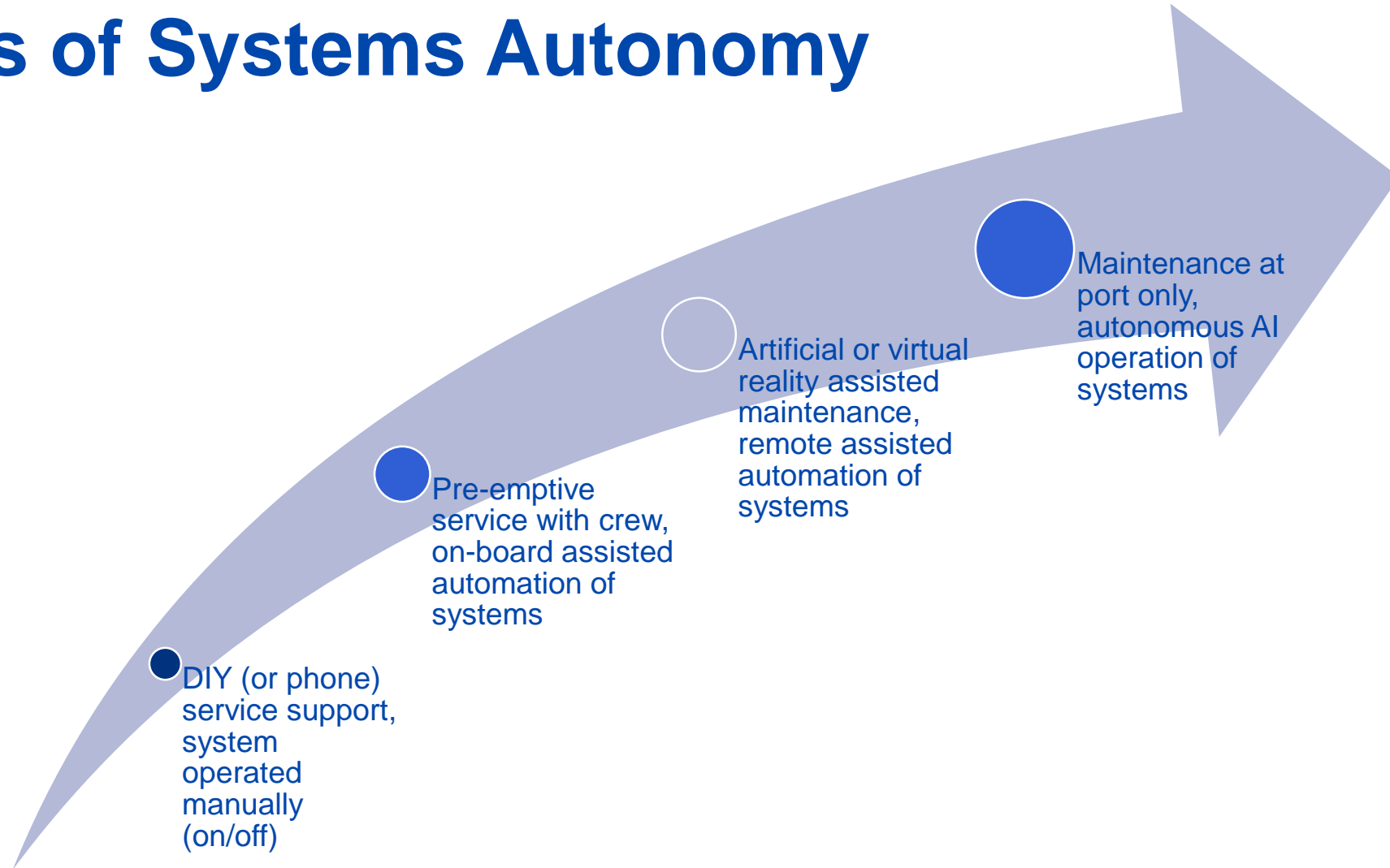
Levels of autonomy

- Two independent sides to maritime autonomy
 - Operational and systems autonomy
- Areas considered within operational autonomy
 - Role of human, steering and/or watch-keeping assistance, vessel features, back-up systems, who is responsible etc.
- Areas considered within systems autonomy
 - Service place and type, automation during operation, systems architecture, efficiency of system etc.
- The work is not yet completed, your input would be valued

Levels of Operational Autonomy



Levels of Systems Autonomy



DIMECC's co-creation ecosystem One Sea seeks global partners to join the leading research co-creation ecosystem.

Join us!

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