



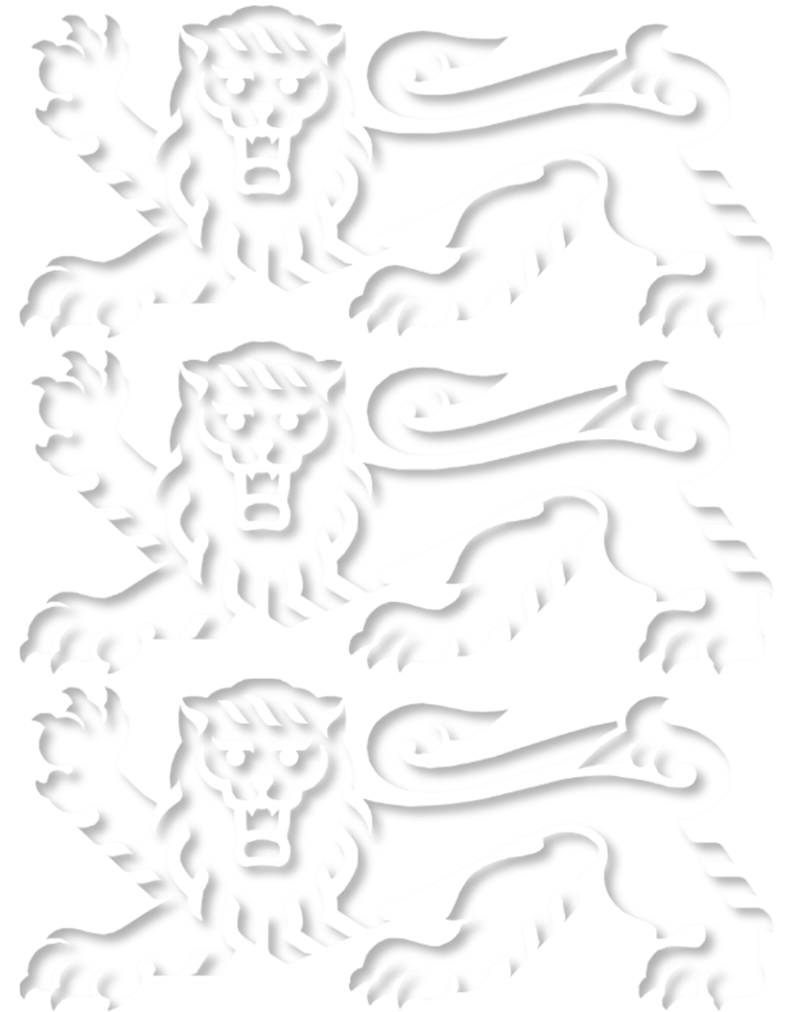
EESTI KAITSEVÄGI

ESTONIAN DEFENCE FORCES ESTONIAN NAVY

CDRE (OF-6) Ivo VÄRK, CHON EST N
Smart Sea Centre of Excellence Annual Seminar
Tallinn, 14.1.2025

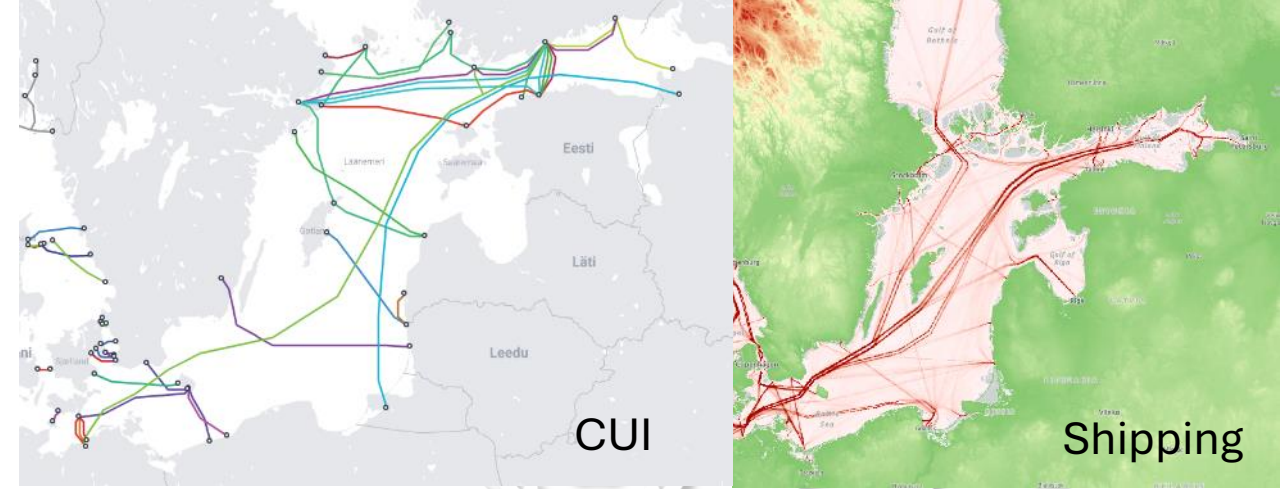
AGENDA

- Strategic Context
- Maritime Industry
- Maritime Cluster
- Academic Partnership
- Conclusions



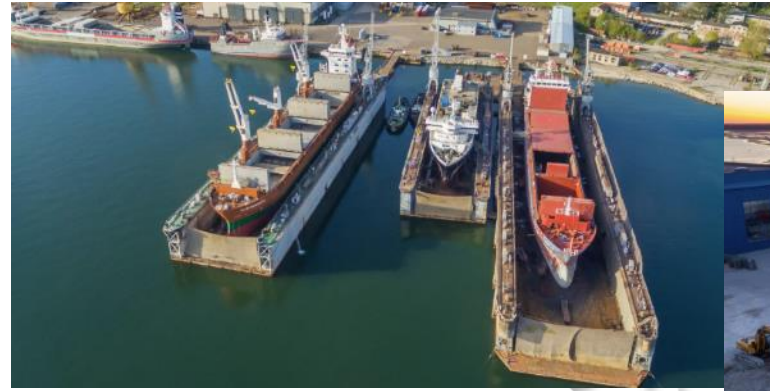
Strategic Context

- Current Naval Capabilities
- Baltic Sea Region Challenges
- Strategic Importance
- Operational Readiness Requirements



Maritime Industry

- Ship Maintenance and Repair
- Supply Chain Requirements
- Innovation and Technology



Maritime Cluster

DIANA®

- Ecosystem Development
- Joint Capability Development
- Resource Pooling



TECHNOLOGY READINESS LEVEL (TRL)

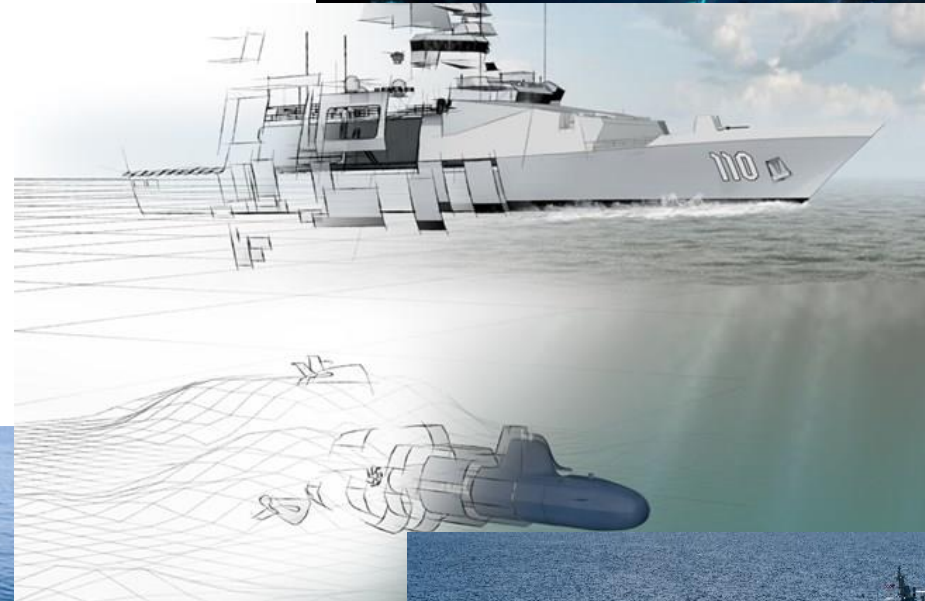
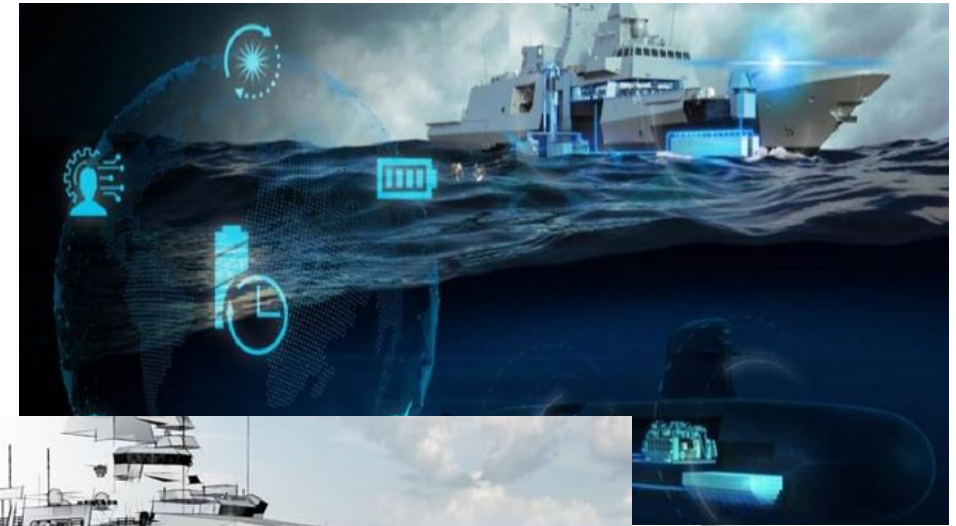
RESEARCH	9	ACTUAL SYSTEM PROVEN IN OPERATIONAL ENVIRONMENT
	8	SYSTEM COMPLETE AND QUALIFIED
	7	SYSTEM PROTOTYPE DEMONSTRATION IN OPERATIONAL ENVIRONMENT
DEVELOPMENT	6	TECHNOLOGY DEMONSTRATED IN RELEVANT ENVIRONMENT
	5	TECHNOLOGY VALIDATED IN RELEVANT ENVIRONMENT
	4	TECHNOLOGY VALIDATED IN LAB
RESEARCH	3	EXPERIMENTAL PROOF OF CONCEPT
	2	TECHNOLOGY CONCEPT FORMULATED
	1	BASIC PRINCIPLES OBSERVED

FOUR STAGES OF COMPETENCE



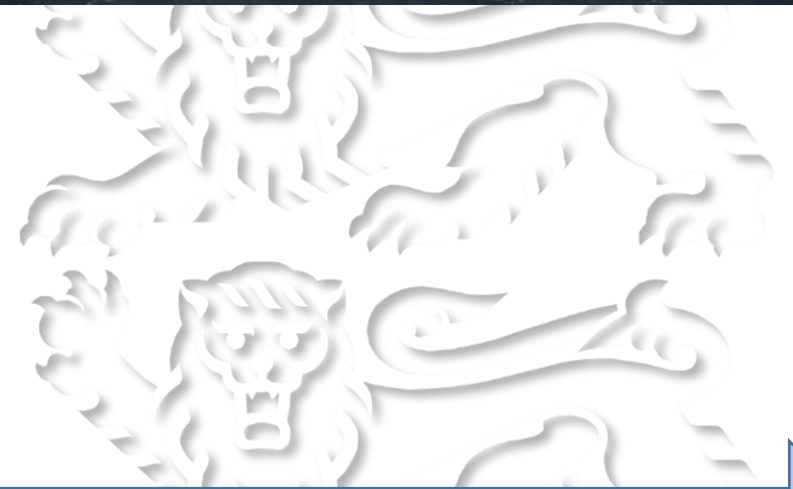
Academic Partnership

- Research and Development
- Education and Training
- Knowledge Transfer



Conclusions

- Collaboration
- Mutual benefits
- Growth opportunities
- National security
- Economic development potential



Immediate Needs (1-2 years)

Medium-term Goals (3-6 years)

Long-term Vision (6+ years)

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