



# Energy Cork Conference

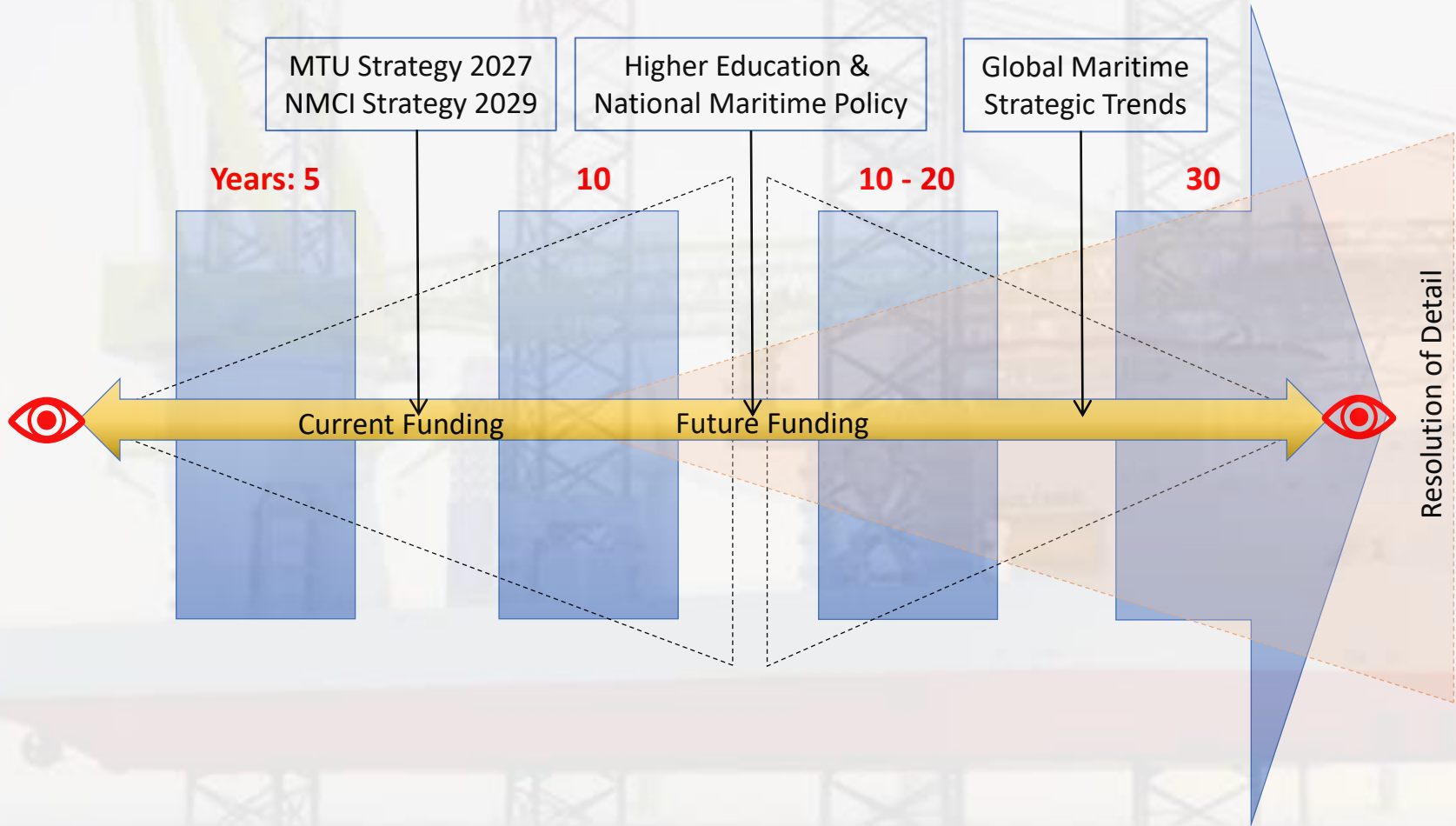
Friday 08<sup>th</sup> March 2024

National Maritime College of Ireland

Co. Cork.

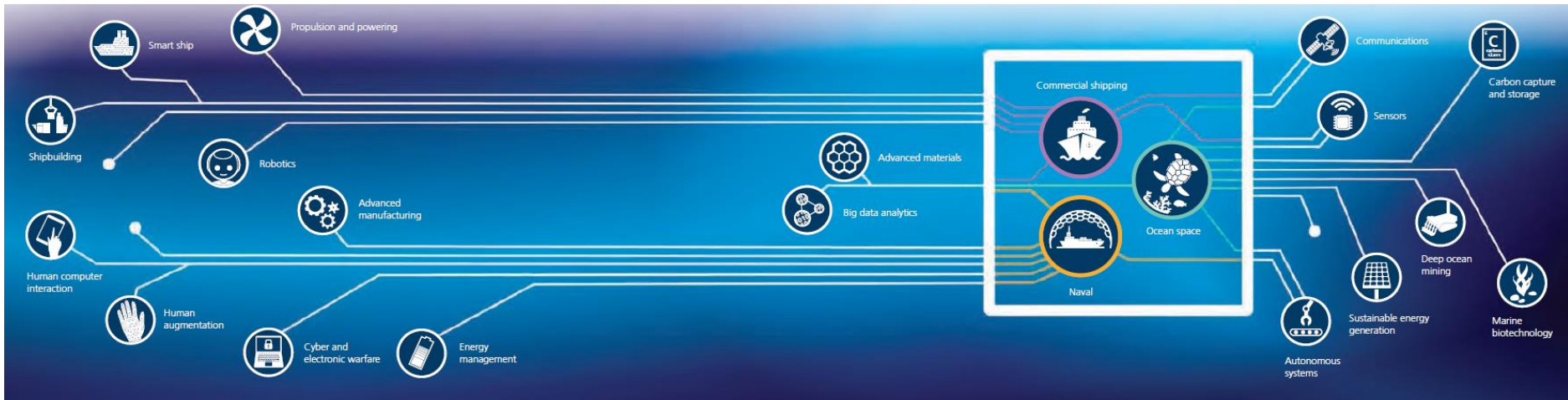
# Our Purpose





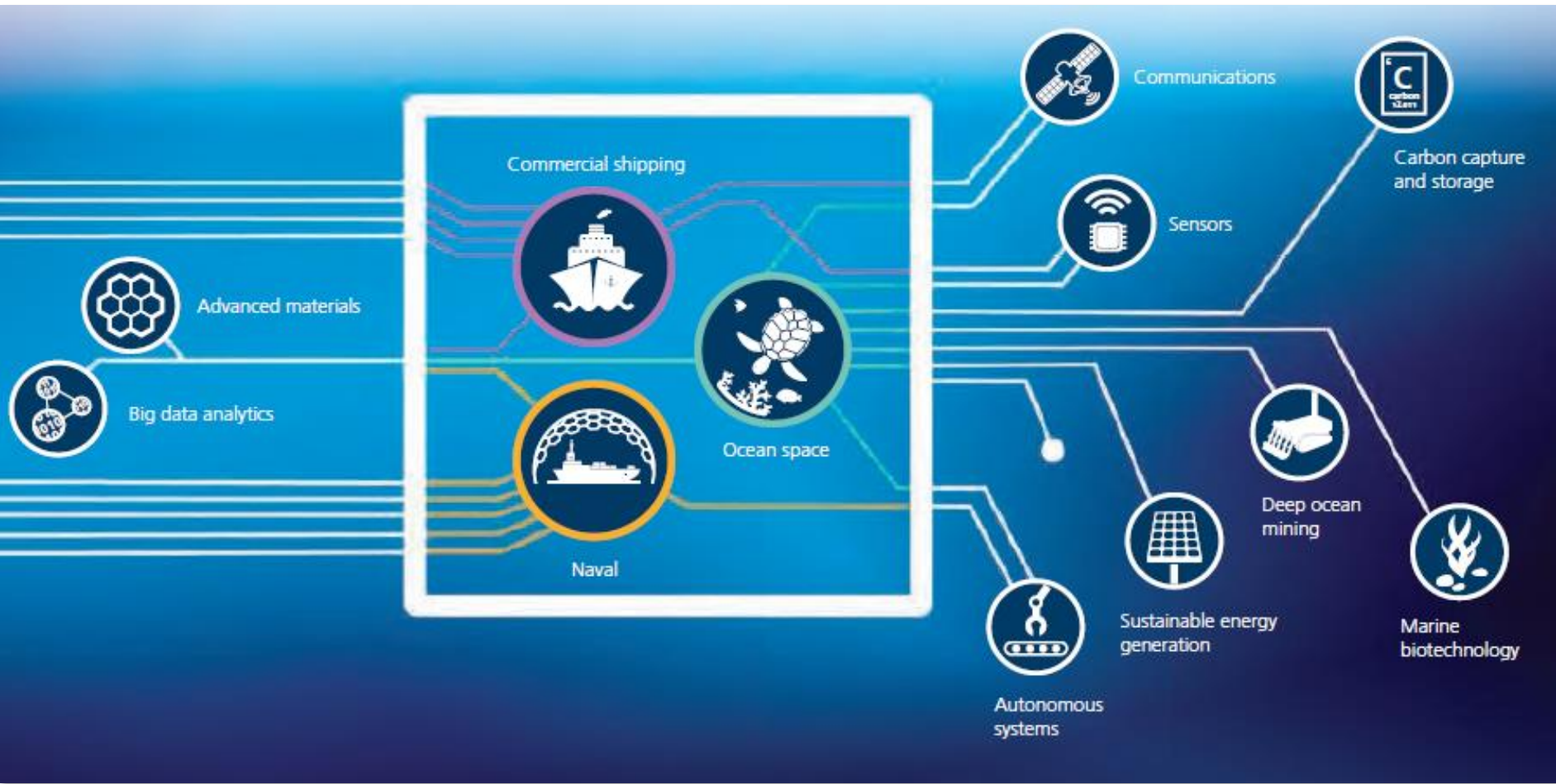
Looking backwards... from the Future...

# Relationship between technologies

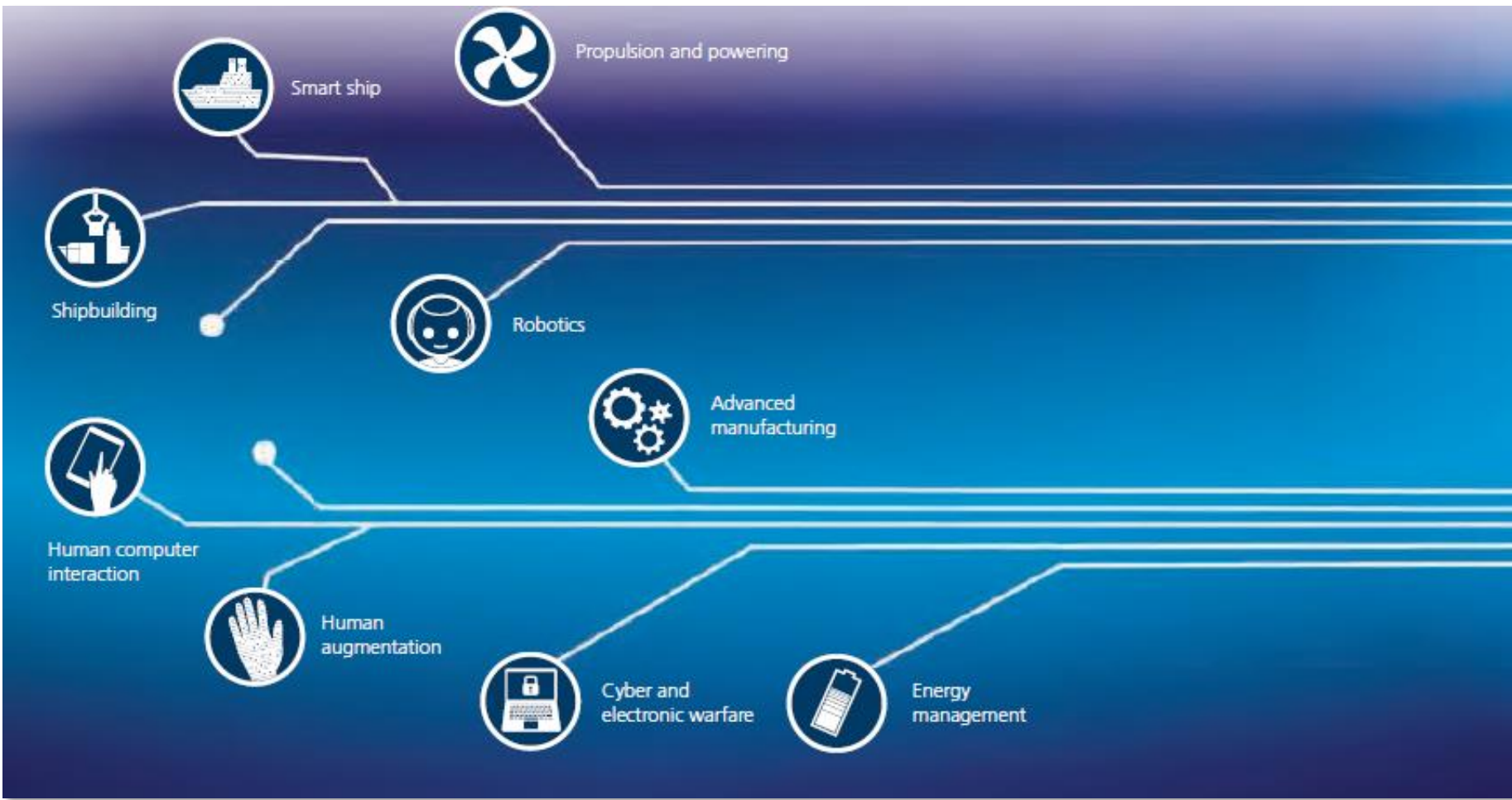




# Relationship between technologies



# Relationship between technologies



# Strategic Objectives

- Programme development
  - Mapping career/learning paths
  - High Performing Learning Culture
  - “On-boarding to Off-boarding”
- Building capacity
  - Sea blindness - National Culture
  - Internationally accredited
  - National footprint
  - Simulation – AR/VR/AI
- Create a new narrative
  - Enhance engagement
  - Sustainable development



# Programme Development

- Future Offering
  - Level 8
  - Level 9
  - Level 10
  
- National Apprenticeships
  - Dual discipline
  
- Potential Disciplines
  - ORE
  - Maritime Cyber Security (IOT)
  - Maritime Business Course
  - Robotics / Autonomous Vessels
  - Data analytics
  - Maritime Security



[CRF03] Cyber Challenge – Smart Maritime

**Synopsis**  
Smart Maritime training is in the form of a CTF. The scenario for this challenge presents a massive cyber attack targeting twelve major ports. Their operational bodies including radio communications, ship loading and unloading management, customs management, vessel traffic monitoring systems, port signalling and weather forecasting tools are impacted. The setting up of a crisis unit to restore maritime traffic leads the participants, divided into teams and by port, to work on an isolated information system composed of a set of dedicated virtual machines.

**Objectives**

- ✓ The main objective of this training is to know how to respond to the control of a system compromised by cyber criminals by taking into account the specifications related to the maritime domain.
- ✓ To know how to reinforce the computer security of port infrastructures.
- ✓ Participate in CTF type challenges

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# Example

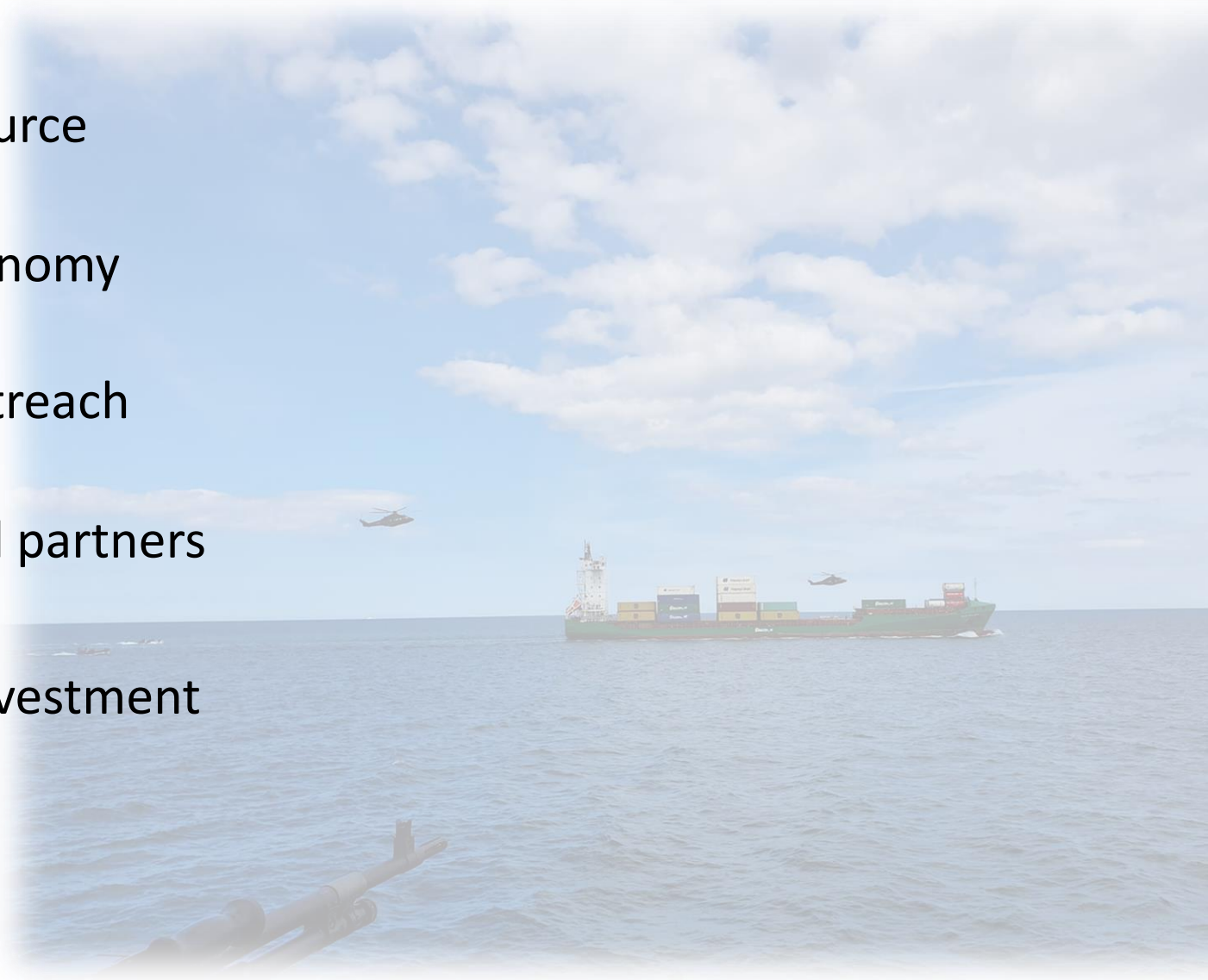
## Level 9 – Postgraduate Certificate Smart Sustainable Power Engineering

- HCI- Pillar 1 Funding – Blended delivery (7 days/semester)
- Train power engineers to design, operate, test and maintain the developing smart grid
- Theory and application of new technologies in power systems.
- Future power network challenges and innovative digital solutions.
- Practical activities using state-of-the-art power and automation and networking laboratories
- Oversubscribed >45 applicants for 20 places



# National Asset

- Shared Resource
- National Economy
- Strategic Outreach
- International partners
- Return on Investment



# Our Purpose

