More ideja ~ More ideas

INNO2MARE: Strengthening the capacity for excellence of Slovenian and Croatian innovation ecosystems to support the digital and green transitions of maritime regions

HORIZON EUROPE

UNIRI | YUFE

INNO2MARE at a glance

- **Horizon Europe**: Excellence Hubs call 2022
- **Evaluation score**: 13/15
- **Number of submitted proposals**: 102
- **Number of projects to be funded**: 10
- **Funding**: EUR 5 million
- **Duration**: 4 years
- **19 project partners**
- **3 innovation ecosystems**
- **Coordinator:** University of Ljubljana, Slovenia
- **Status:** Grant Agreement preparation in progress
- **Expected start date**: 1 January 2023

INNO2MARE: motivation

Finding new ways to stimulate innovations in EU maritime industries

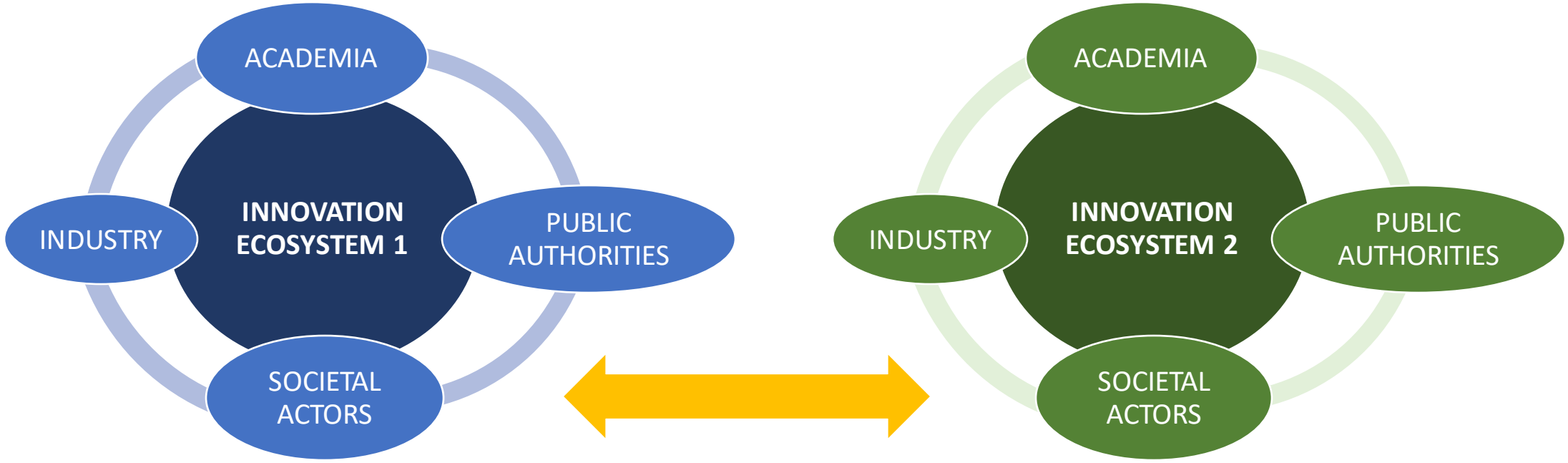
- EU maritime sector generates a €70 billion GVA and directly employs more than a million people
- fierce international competition
- challenges & opportunities related to regulation and environmental issues
- contribution to the **green and digital transition** of Europe

Strengthening the role of place-based ecosystems as EU's innovation engines

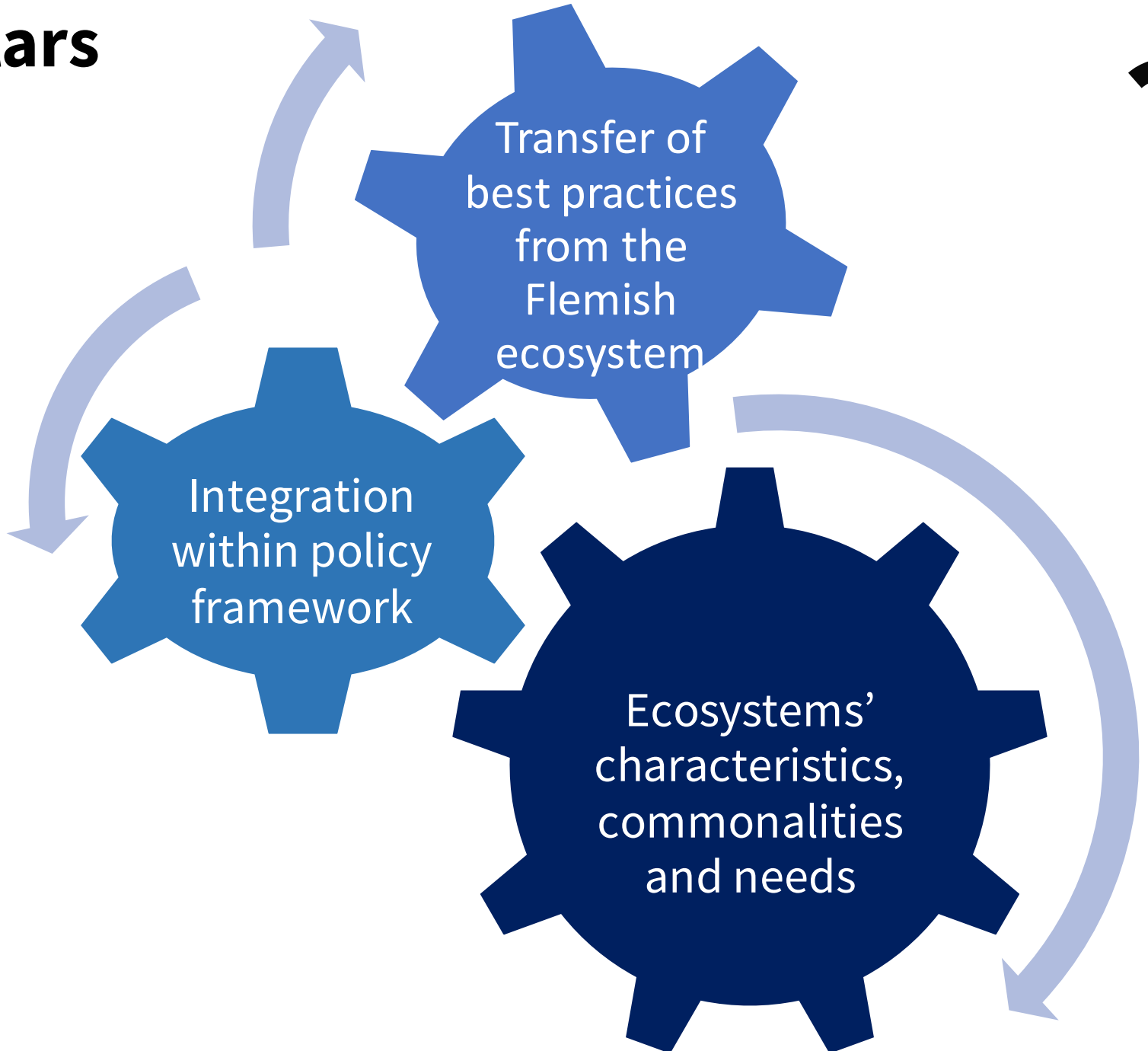
- **Western Slovenia**: a moderate innovator focused on digitalisation in manufacturing, logistics and smart cities
- **Adriatic Croatia**: an emerging innovator competitive in marine engineering
- urgent need for a strategic and coordinated approach in the governance of the two ecosystems

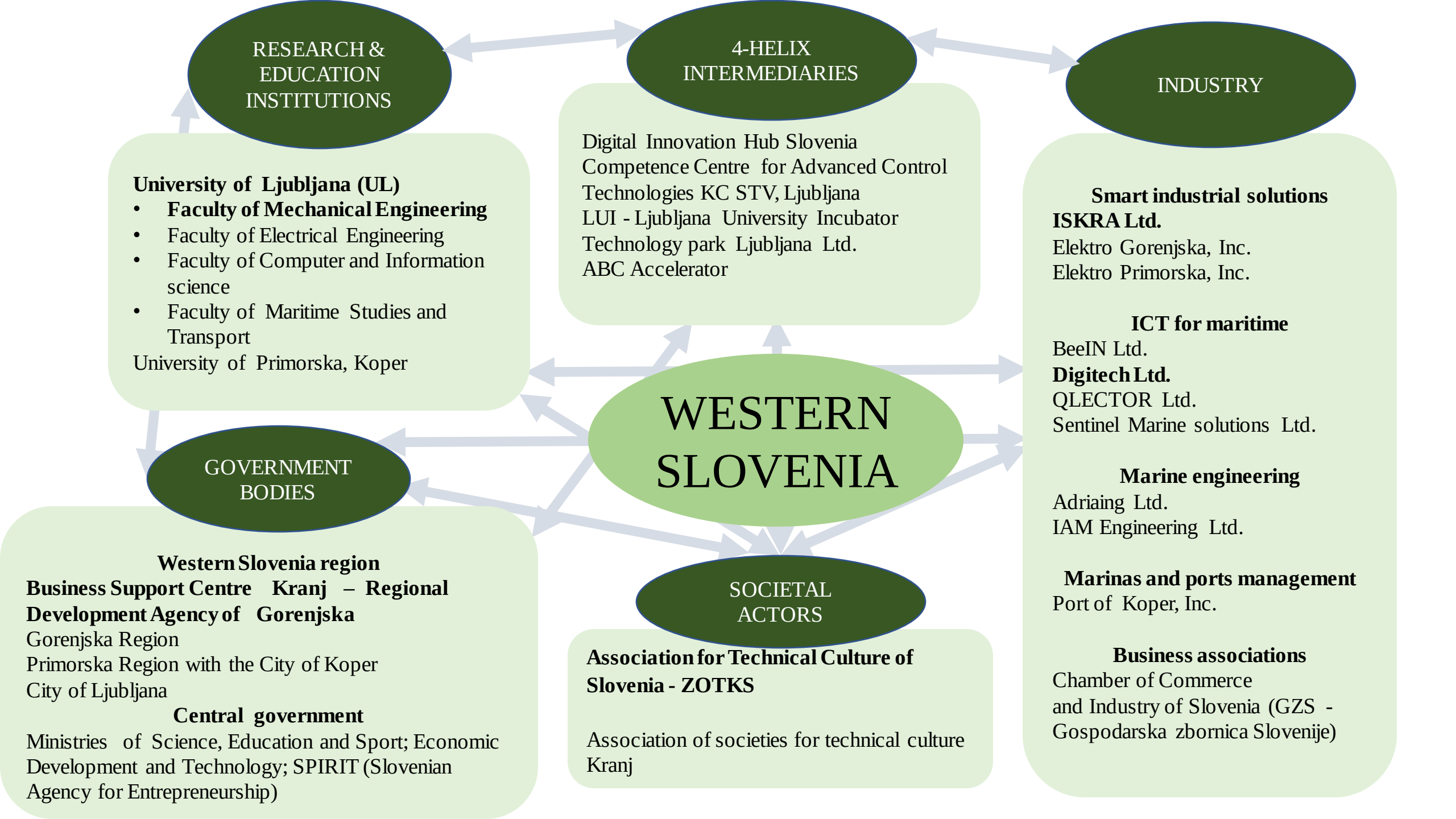
Why the Excellence Hubs call?

- **Focus**: cross-border collaboration of place-based innovation ecosystems in Widening territories on a common strategy
- **Expected impact**:
  - ✓ greater involvement of regional actors in R&I process
  - ✓ stronger linkages between academia and business



INNO2MARE pillars




RESEARCH & EDUCATION INSTITUTIONS
4-HELIX INTERMEDIARIES
INDUSTRY
University of Ljubljana (UL)
• Faculty of Mechanical Engineering
• Faculty of Electrical Engineering
• Faculty of Computer and Information science
• Faculty of Maritime Studies and Transport
University of Primorska, Koper
Digital Innovation Hub Slovenia
Competence Centre for Advanced Control Technologies KC STV, Ljubljana
LUI - Ljubljana University Incubator
Technology park Ljubljana Ltd.
ABC Accelerator
Smart industrial solutions
ISKRA Ltd.
Elektro Gorenjska, Inc.
Elektro Primorska, Inc.
ICT for maritime
BeeIN Ltd.
Digitech Ltd.
QLECTOR Ltd.
Sentinel Marine solutions Ltd.
Marine engineering
Adriaing Ltd.
IAM Engineering Ltd.
Marinas and ports management
Port of Koper, Inc.
Business associations
Chamber of Commerce and Industry of Slovenia (GZS - Gospodarska zbornica Slovenije)
WESTERN SLOVENIA
GOVERNMENT BODIES
Western Slovenia region
Business Support Centre Kranj – Regional Development Agency of Gorenjska
Gorenjska Region
Primorska Region with the City of Koper
City of Ljubljana
Central government
Ministries of Science, Education and Sport; Economic Development and Technology; SPIRIT (Slovenian Agency for Entrepreneurship)
SOCIETAL ACTORS
Association for Technical Culture of Slovenia - ZOTKS
Association of societies for technical culture Kranj

ojekti

an otok Unije

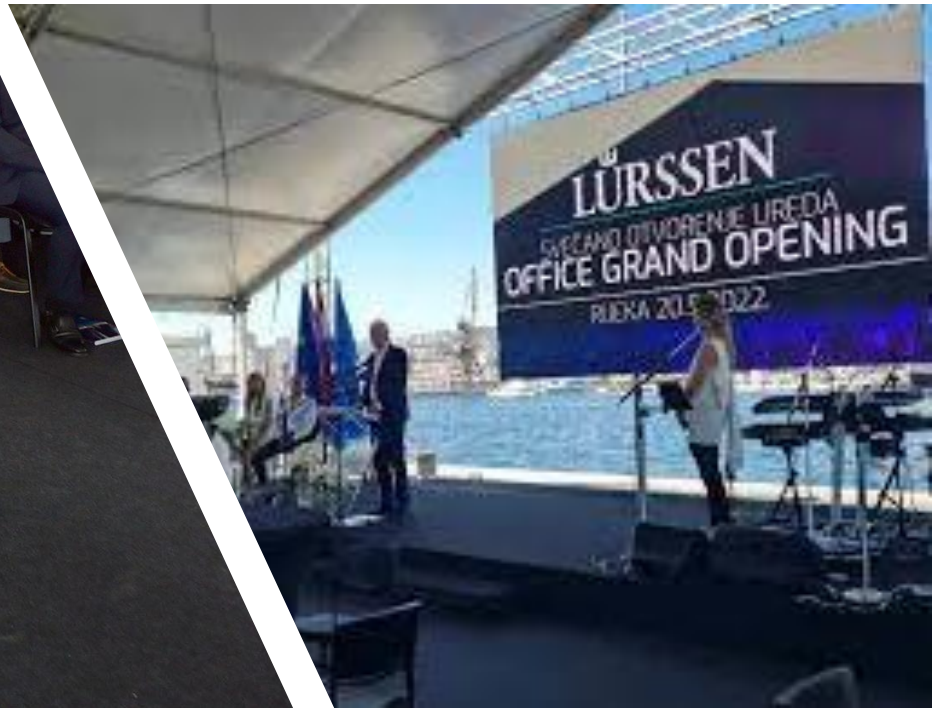
kog projekta su
i postizanje njegove
ekološke, energetske i...

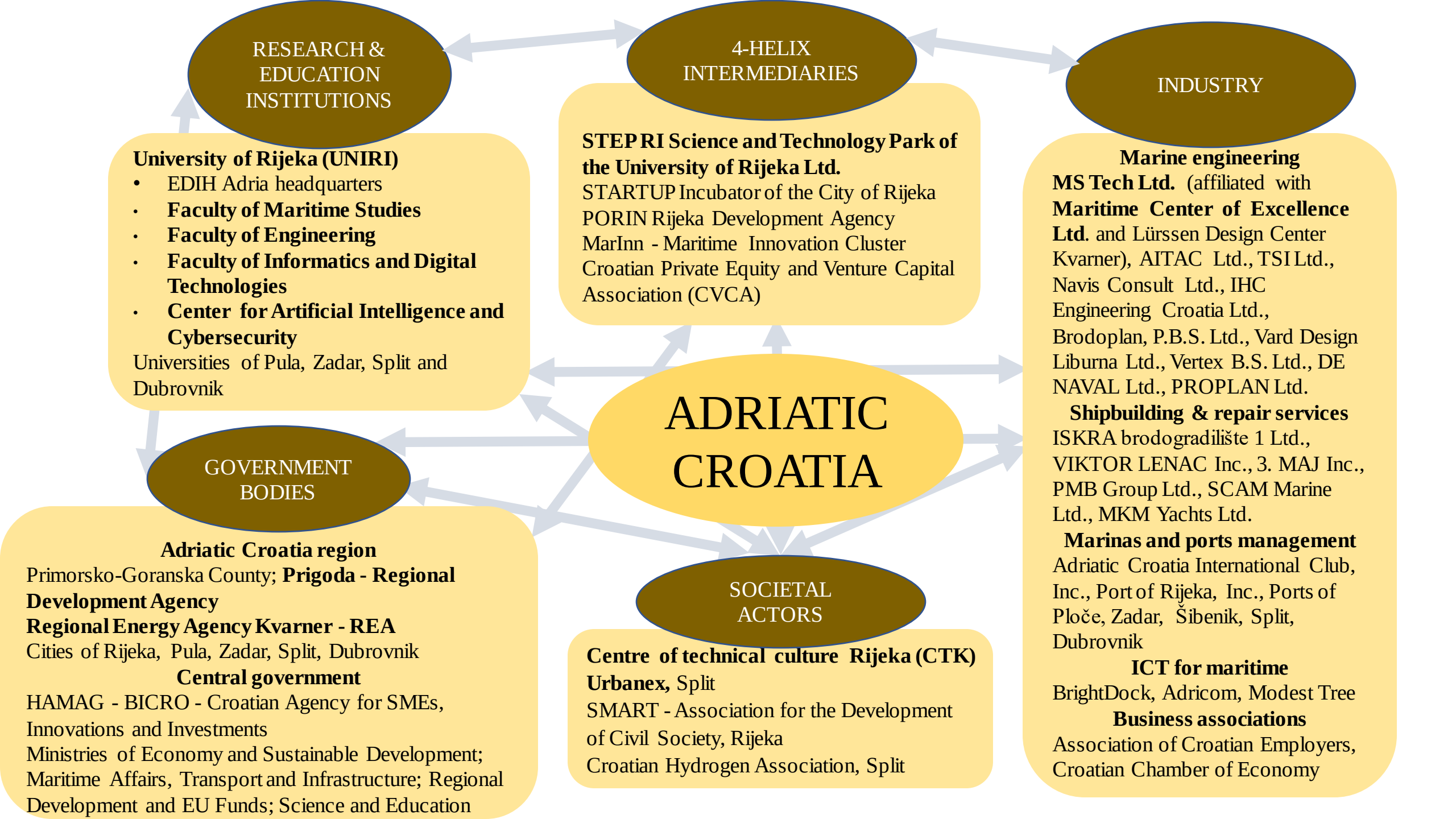
H2020 projekt INSULAE

U okviru europskog projekta INSULAE - Maksimiziranje utjecaja inovativnih energetskih pristupa na otocima EU razvijamo nova inovativna...

E

Nak
obno
goransk


LÜRSSEN
OFFICE GRAND OPENING

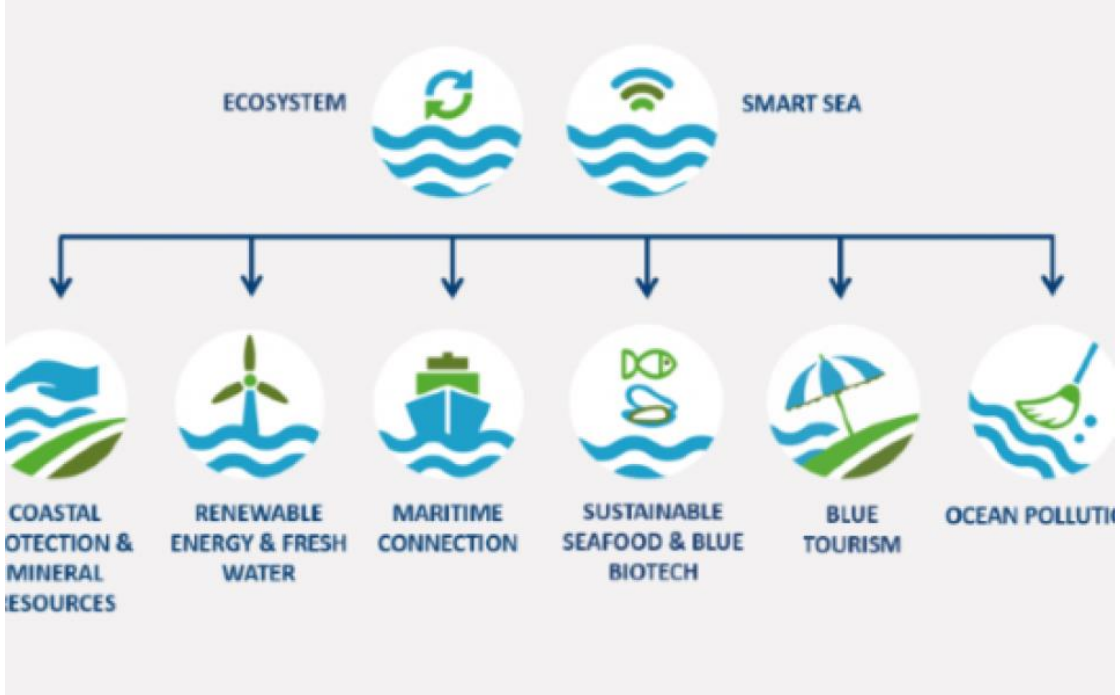

RESEARCH & EDUCATION INSTITUTIONS
4-HELIX INTERMEDIARIES
INDUSTRY
University of Rijeka (UNIRI)
• EDIH Adria headquarters
• Faculty of Maritime Studies
• Faculty of Engineering
• Faculty of Informatics and Digital Technologies
• Center for Artificial Intelligence and Cybersecurity
Universities of Pula, Zadar, Split and Dubrovnik
STEP RI Science and Technology Park of the University of Rijeka Ltd.
STARTUP Incubator of the City of Rijeka
PORIN Rijeka Development Agency
MarInn - Maritime Innovation Cluster
Croatian Private Equity and Venture Capital Association (CVCA)
Marine engineering
MS Tech Ltd. (affiliated with Maritime Center of Excellence Ltd. and Lürssen Design Center Kvarner), AITAC Ltd., TSI Ltd., Navis Consult Ltd., IHC Engineering Croatia Ltd., Brodoplan, P.B.S. Ltd., Vard Design Liburna Ltd., Vertex B.S. Ltd., DE NAVAL Ltd., PROPLAN Ltd.
Shipbuilding & repair services
ISKRA brodogradilište 1 Ltd., VIKTOR LENAC Inc., 3. MAJ Inc., PMB Group Ltd., SCAM Marine Ltd., MKM Yachts Ltd.
Marinas and ports management
Adriatic Croatia International Club, Inc., Port of Rijeka, Inc., Ports of Ploče, Zadar, Šibenik, Split, Dubrovnik
ICT for maritime
BrightDock, Adricom, Modest Tree
Business associations
Association of Croatian Employers, Croatian Chamber of Economy
ADRIATIC CROATIA
GOVERNMENT BODIES
Adriatic Croatia region
Primorsko-Goranska County; Prigoda - Regional Development Agency
Regional Energy Agency Kvarner - REA
Cities of Rijeka, Pula, Zadar, Split, Dubrovnik
Central government
HAMAG - BICRO - Croatian Agency for SMEs, Innovations and Investments
Ministries of Economy and Sustainable Development; Maritime Affairs, Transport and Infrastructure; Regional Development and EU Funds; Science and Education
SOCIETAL ACTORS
Centre of technical culture Rijeka (CTK)
Urbanex, Split
SMART - Association for the Development of Civil Society, Rijeka
Croatian Hydrogen Association, Split

MAERSK

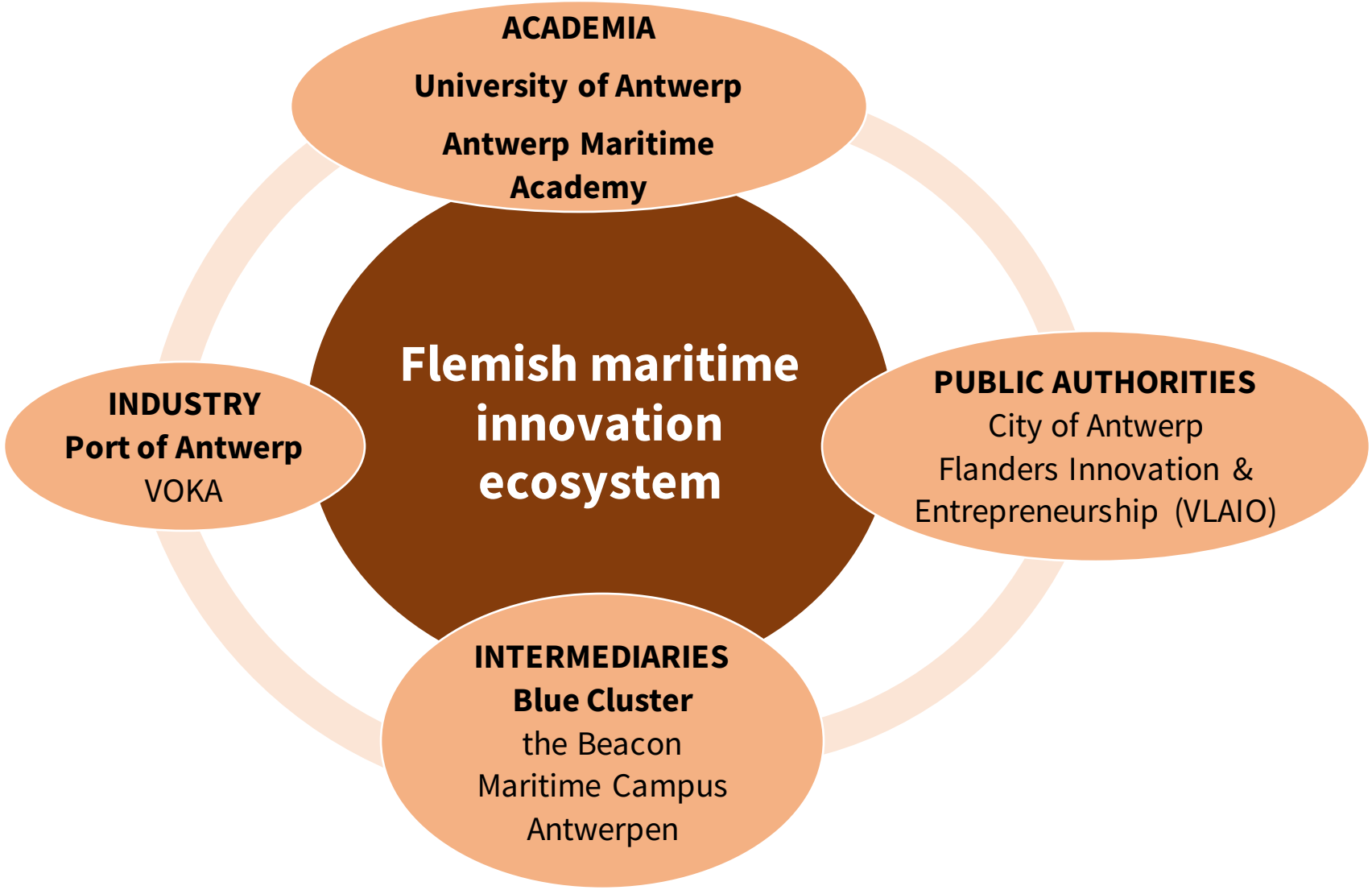
PORT OF ANTWERP

Blue Innovation Awards 2021 Winners

BLAUWE CLUSTER

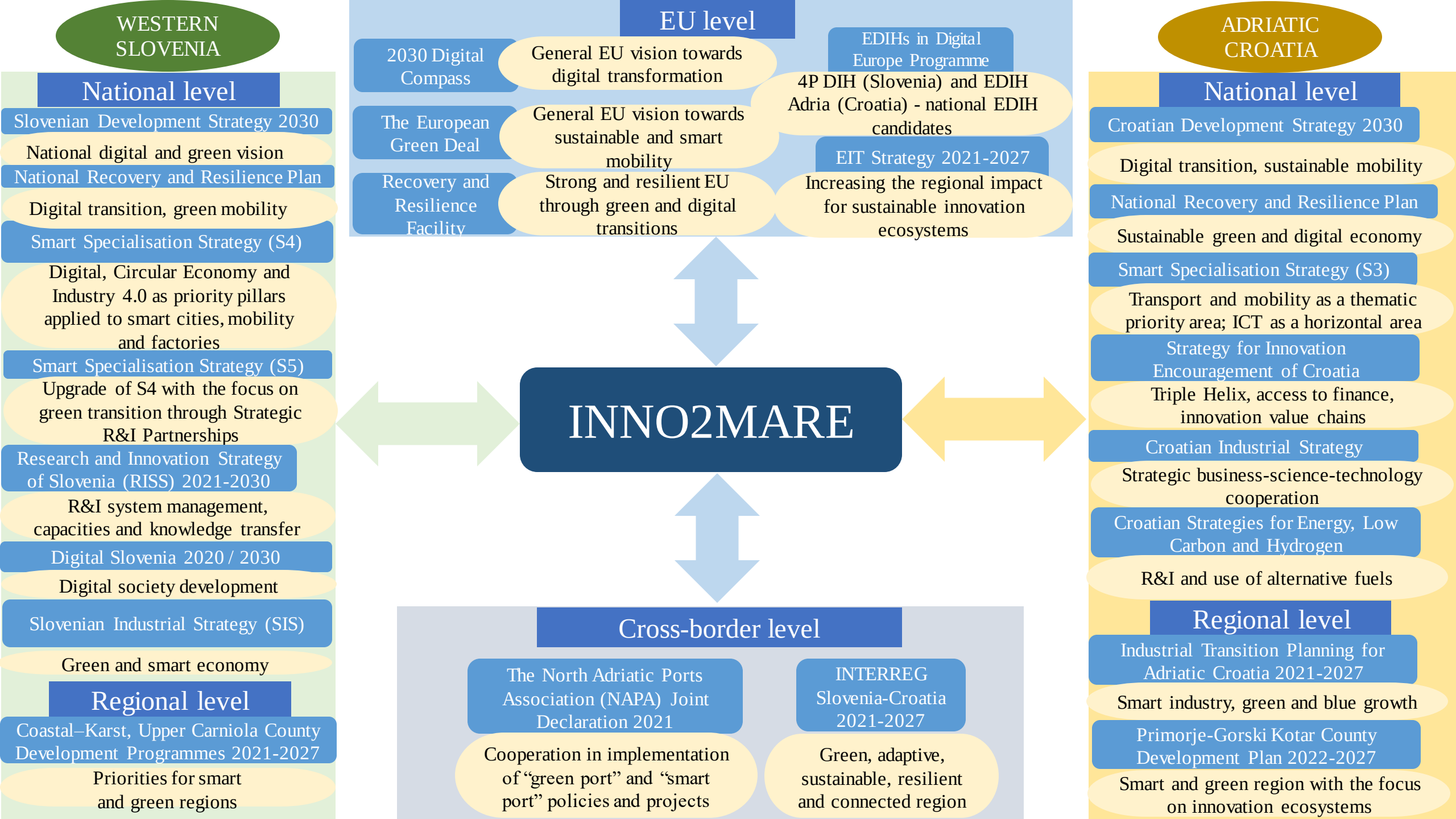


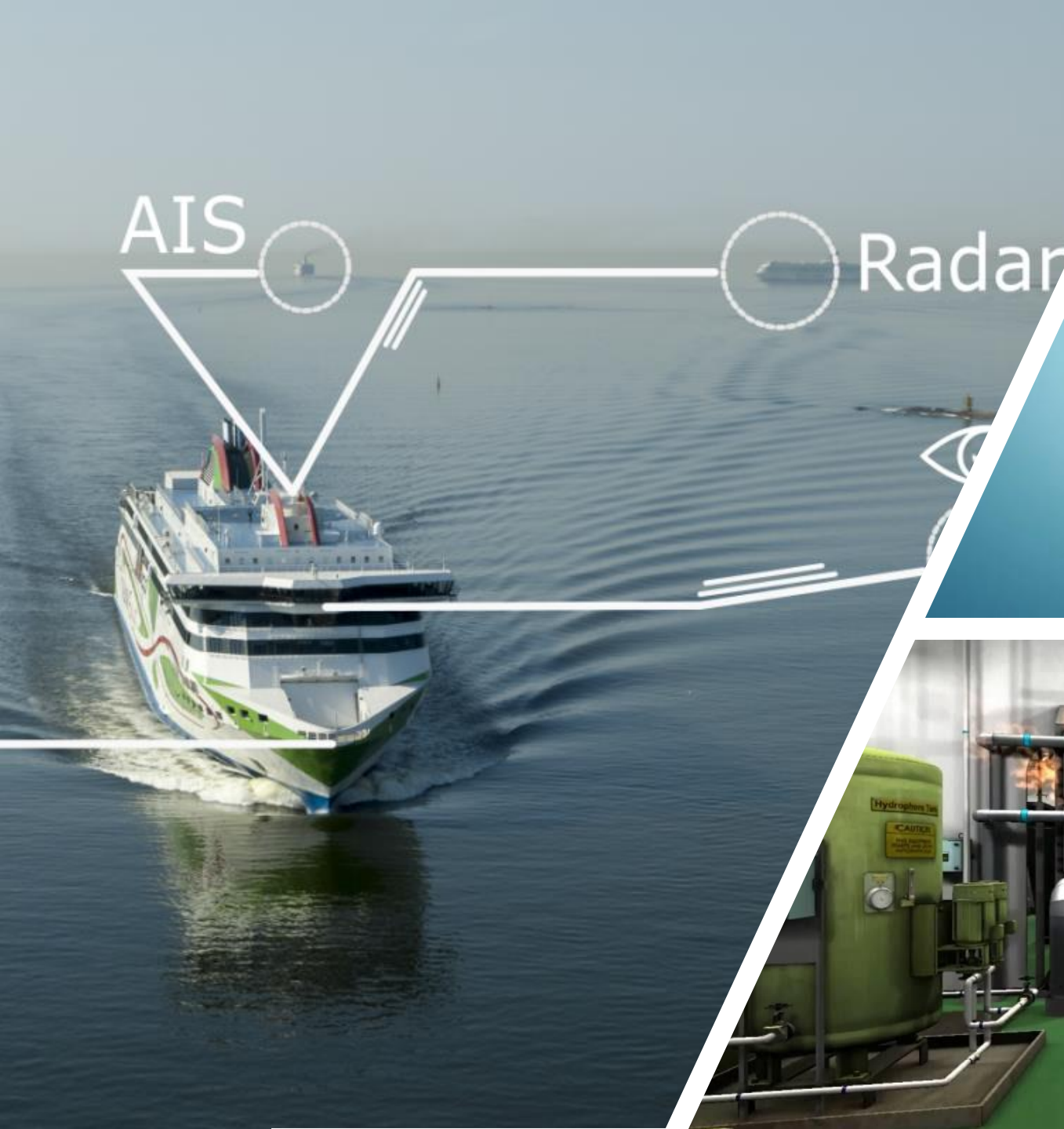
Transfer of best practices from a top innovation ecosystem



Ecosystems' characteristics, commonalities and needs

Ecosystem / Dimensions of analysis	Western Slovenia Total population (2021): 1 million	Adriatic Croatia Total population (2021): 1,3 million
Innovation Ecosystem orchestrator(s)	**No single orchestrator** is identified; University of Ljubljana (UL), ISKRA and BSC acting as important contributors	**No single orchestrator** is identified; University of Rijeka (UNIRI), Prigoda and MarInn Cluster-associated companies acting as important contributors
Quadruple Helix Model: level of implementation	Long tradition of university-industry-government collaboration, with government initiatives; engagement of **societal actors at rudimentary level**	Links between individual actors, but **modest level of knowledge transfer**; systematic ecosystem governance in early stage of development
Formal and non-formal key enabling factors and initiatives	High concentration of research and higher education institutions; Ljubljana's **start-up ecosystem** with various co-created bottom-up and public policy initiatives; Start:up Slovenia; Strategic Research and Innovation Partnerships (SRIPs); EIT partnership	Strategic and political interest of the national and regional authorities; human capital in maritime sectors **Regional innovation matchmaking platform** (https://rimap.uniri.hr/), initiated by Prigoda and co-created with UNIRI and STEP RI; **MarInn, the maritime innovation cluster** (http://marinn.co/), initiated by Lürssen Design Center Kvarner


WESTERN SLOVENIA
National level
Slovenian Development Strategy 2030
National digital and green vision
National Recovery and Resilience Plan
Digital transition, green mobility
Smart Specialisation Strategy (S4)
Digital, Circular Economy and Industry 4.0 as priority pillars applied to smart cities, mobility and factories
Smart Specialisation Strategy (S5)
Upgrade of S4 with the focus on green transition through Strategic R&I Partnerships
Research and Innovation Strategy of Slovenia (RISS) 2021-2030
R&I system management, capacities and knowledge transfer
Digital Slovenia 2020 / 2030
Digital society development
Slovenian Industrial Strategy (SIS)
Green and smart economy
Regional level
Coastal–Karst, Upper Carniola County Development Programmes 2021-2027
Priorities for smart and green regions
EU level
2030 Digital Compass
General EU vision towards digital transformation
The European Green Deal
General EU vision towards sustainable and smart mobility
Recovery and Resilience Facility
Strong and resilient EU through green and digital transitions
EDIHs in Digital Europe Programme
4P DIH (Slovenia) and EDIH Adria (Croatia) - national EDIH candidates
EIT Strategy 2021-2027
Increasing the regional impact for sustainable innovation ecosystems
INNO2MARE
Cross-border level
The North Adriatic Ports Association (NAPA) Joint Declaration 2021
Cooperation in implementation of “green port” and “smart port” policies and projects
INTERREG Slovenia-Croatia 2021-2027
Green, adaptive, sustainable, resilient and connected region
ADRIATIC CROATIA
National level
Croatian Development Strategy 2030
Digital transition, sustainable mobility
National Recovery and Resilience Plan
Sustainable green and digital economy
Smart Specialisation Strategy (S3)
Transport and mobility as a thematic priority area; ICT as a horizontal area
Strategy for Innovation Encouragement of Croatia
Triple Helix, access to finance, innovation value chains
Croatian Industrial Strategy
Strategic business-science-technology cooperation
Croatian Strategies for Energy, Low Carbon and Hydrogen
R&I and use of alternative fuels
Regional level
Industrial Transition Planning for Adriatic Croatia 2021-2027
Smart industry, green and blue growth
Primorje-Gorski Kotar County Development Plan 2022-2027
Smart and green region with the focus on innovation ecosystems


AIS
Radar

Fire in the Engine Room

INNO2MARE activities

VR model of a ship engine room for enhanced safety on vessels

AI-supported green energy management systems

Decision support system for automatic detection of obstacles in autonomous navigation

Cross-border joint R&I strategy

R&I pilot projects (TRL 3-7)

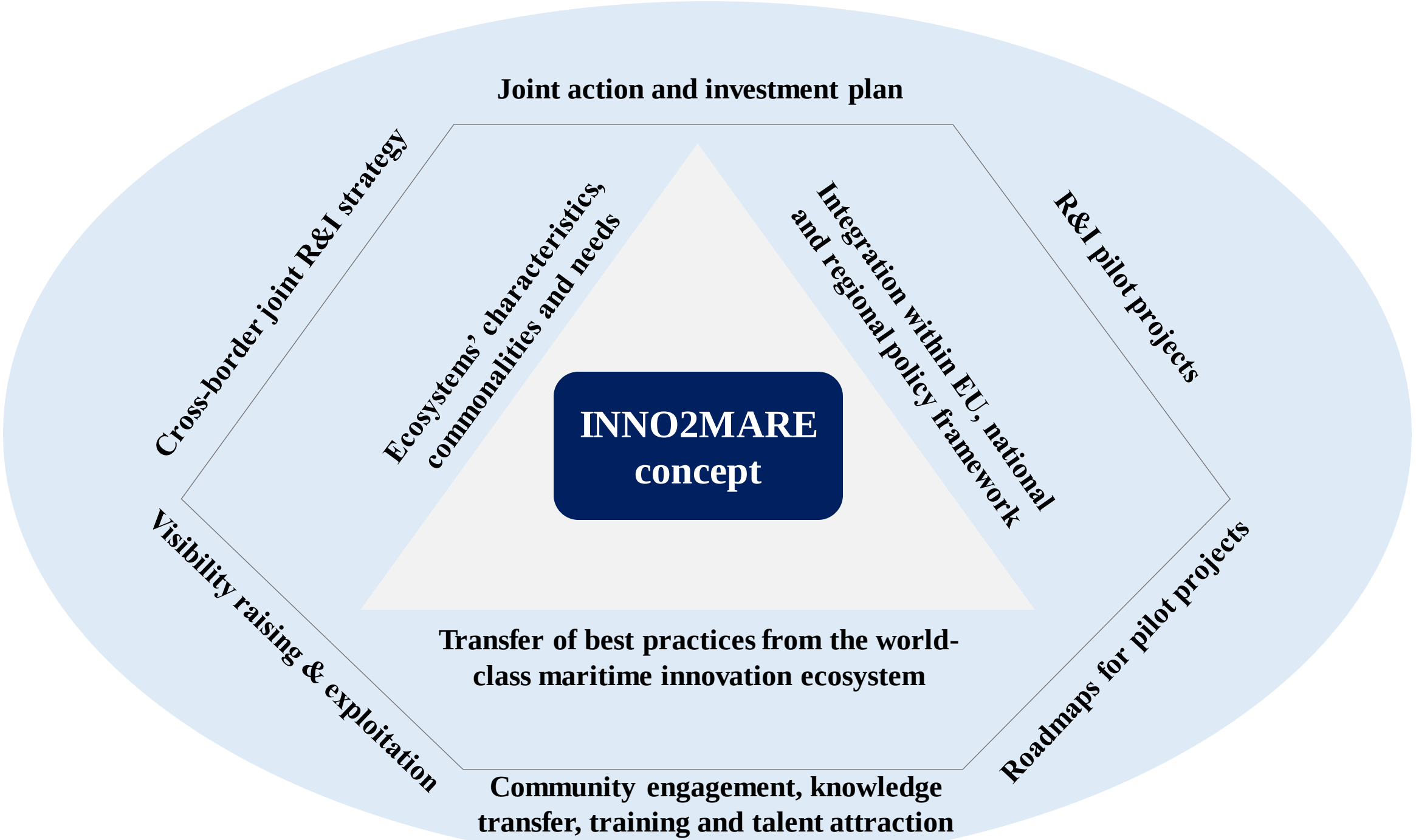
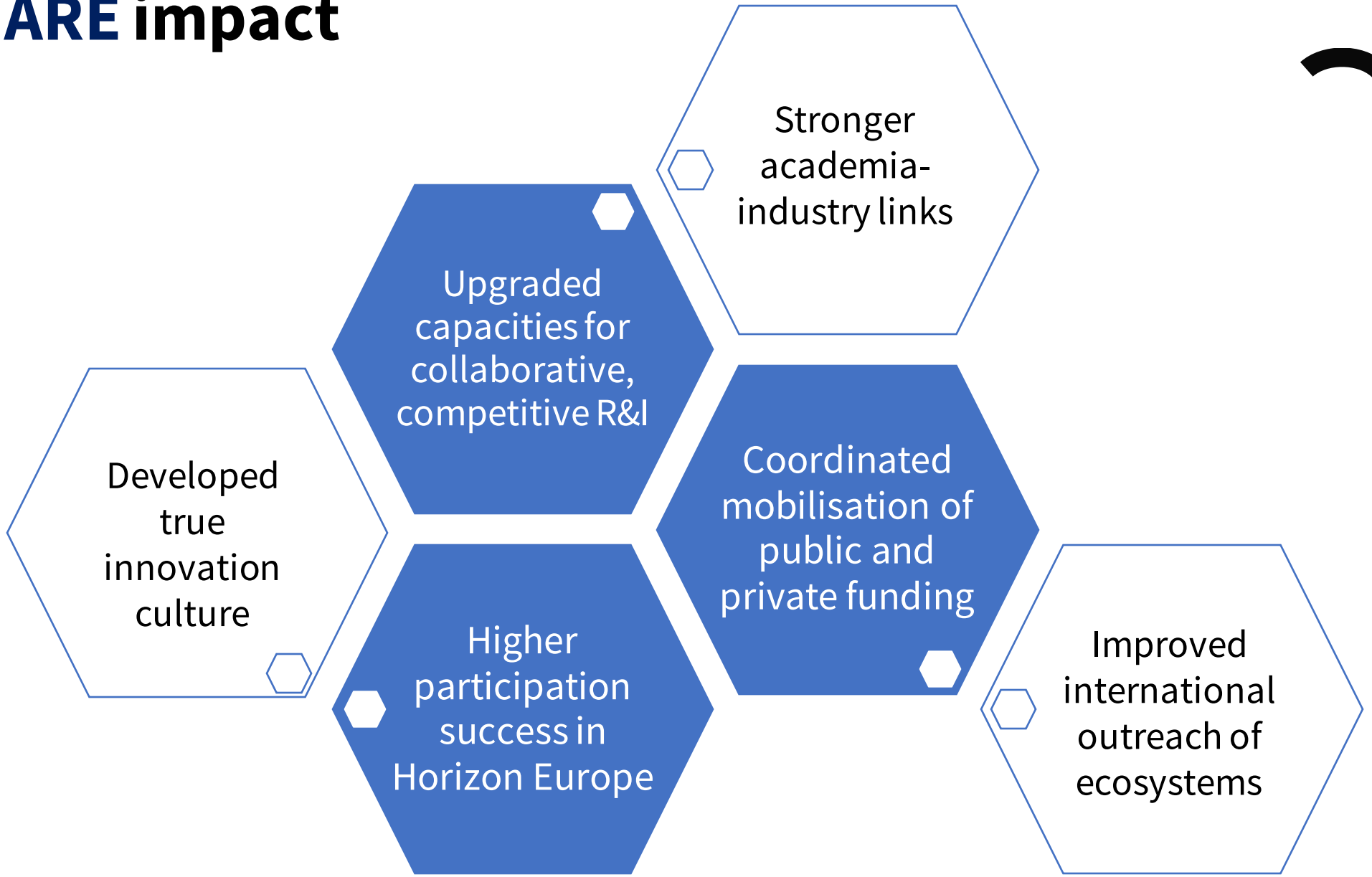
Action and investment plans

Pilots and demonstrators design and roadmaps

Accompanying measures

- Community engagement
- Knowledge transfer
- Training and talent attraction

1.000 participants


Joint action and investment plan
Cross-border joint R&I strategy
Ecosystems' characteristics, commonalities and needs
Integration within EU, national and regional policy framework
R&I pilot projects
INNO2MARE concept
Visibility raising & exploitation
Transfer of best practices from the world-class maritime innovation ecosystem
Roadmaps for pilot projects
Community engagement, knowledge transfer, training and talent attraction

INNO2MARE impact