

EUROPEAN TERRITORIAL COOPERATION FOR GREEN AND SMART PORTS

THE SUSPORT, EALING, DIGSEA AND ACCESSMILE PROJECTS

DECARBONISING AND DIGITALISING PORTS IN THE EUSAIR: TACKLING CHALLENGES AND TAKING ADVANTAGE OF OPPORTUNITIES THROUGH INSTITUTIONAL COOPERATION





PORTS ARE

-  CROSSROADS OF GOODS AND PEOPLE
-  SOURCE OF PROSPERITY FOR THEIR TERRITORIES
-  KEY TO THEIR ECONOMIC DEVELOPMENT AND JOB CREATION
-  IMPORTANT FREIGHT NODES ON TEN-T NETWORK

HOWEVER

-  PORT OPERATIONS PRODUCE CO2 EMISSIONS
-  MOST PORTS ARE NEAR CITIES
-  LACK OF COORDINATED MITIGATION MEASURES
-  FRAGMENTATION ALONG THE SUPPLY CHAIN  WEAK LAST-MILE ACCESSIBILITY OF RURAL AND PERIPHERAL AREAS TO THE MAIN TEN-T FREIGHT NODES  HIGHER TRANSPORT-RELATED AIR POLLUTION AND GREENHOUSE GAS EMISSIONS

**TO FACE THESE CHALLENGES
COOPERATION IS NECESSARY**

WHY?

**2 CHALLENGES:
DECARBONISATION
& DIGITALISATION**

01

POLLUTION AND TRAFFIC FLOWS DO NOT STOP AT BORDERS

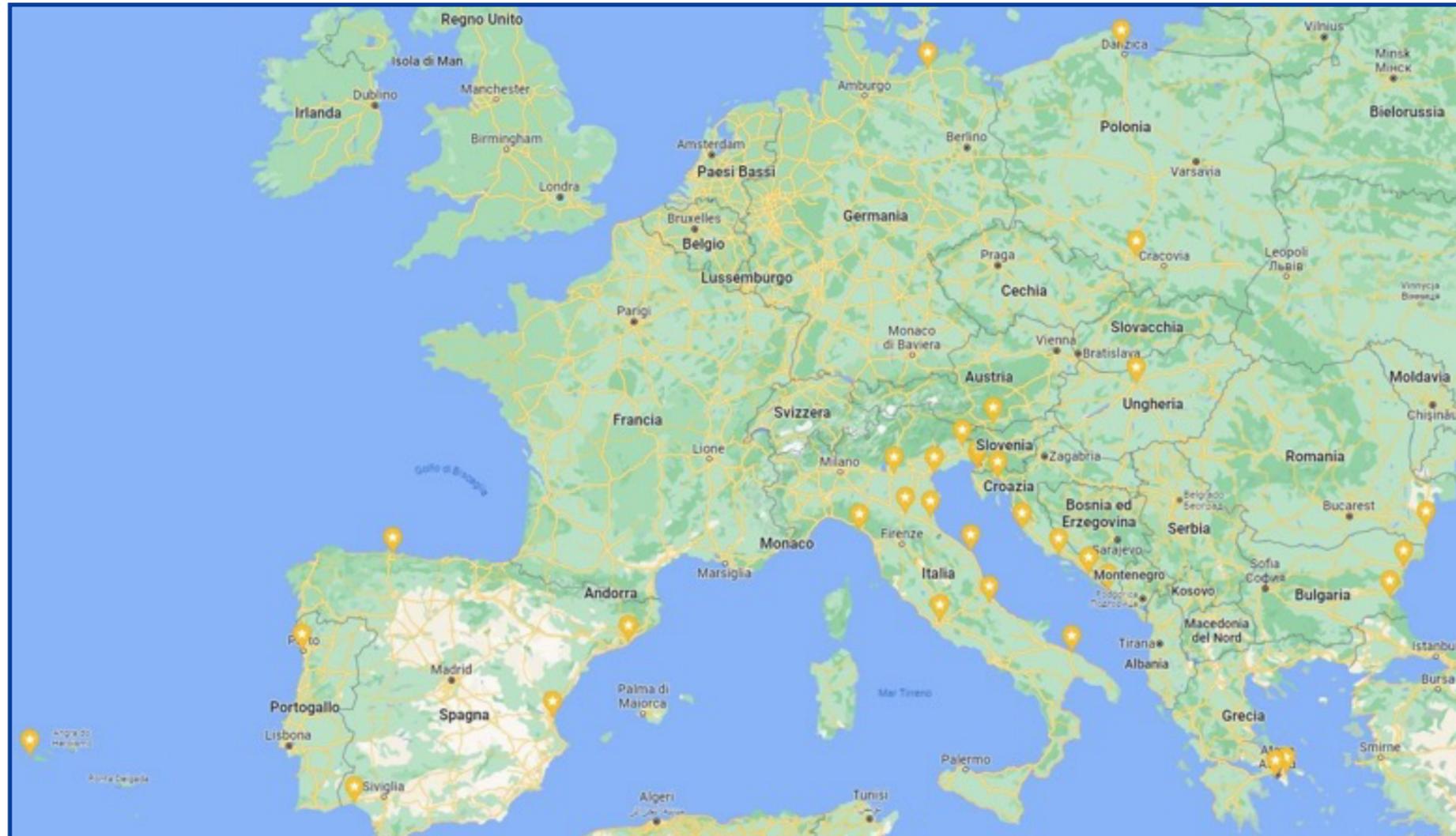
02

THE CHALLENGES CAN NOT BE ADDRESSED ONLY AT THE LOCAL LEVEL

03

THEY NEED COOPERATION AT EUROPEAN LEVEL

EUROPEAN TERRITORIAL COOPERATION IN 4 PROJECTS



- PORTS
- LOGISTIC CENTRES
- UNIVERSITIES AND RESEARCH CENTRES
- CHAMBERS OF COMMERCE
- REGIONAL ADMINISTRATION

TOGETHER FOR:

DECARBONISATION

- SUSPORT – INTERREG ITALY-CROATIA
- EALING – CEF

DIGITALISATION

- DIGSEA – INTERREG ITALY-CROATIA
- ACCESSMILE – INTERREG CENTRAL EUROPE

DECARBONISATION

2 IMPORTANT STEPS FOR JOINT PLANNING OF PORT ENVIRONMENTAL SUSTAINABILITY AND ENERGY EFFICIENCY:



**JOINT ANALYSES
OF CO2 EMISSIONS**

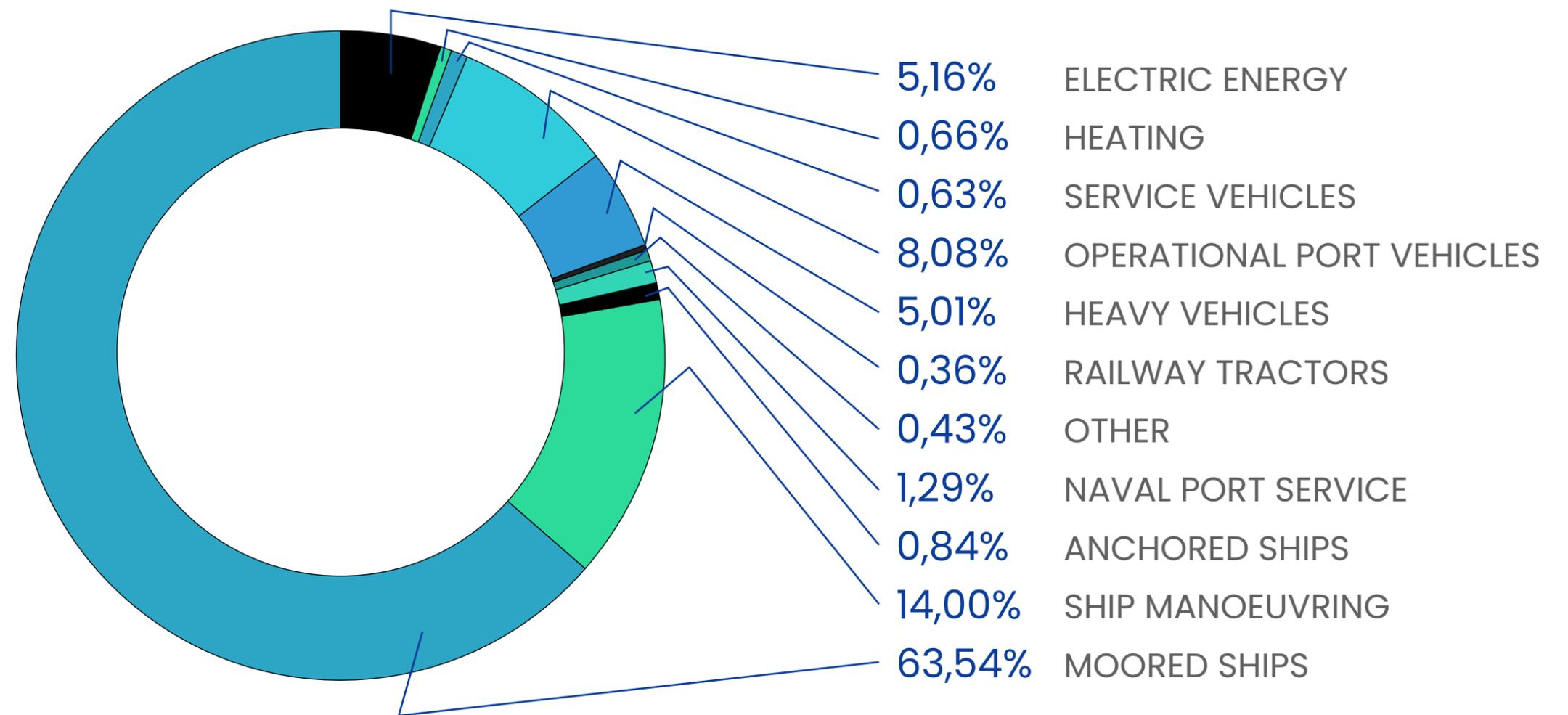


**JOINT CROSS-BORDER
ACTION PLAN WITH JOINT
IMPLEMENTATION OF PILOT ACTIONS**

DECARBONISATION

1) RESULTS OF JOINT ANALYSES OF CO2 EMISSIONS

CO2EQ EMISSIONS IN PORTS OF ITALY, SLOVENIA AND CROATIA (2019)



DECARBONISATION

2) JOINT CROSS-BORDER ACTION PLAN WITH JOINT IMPLEMENTATION OF PILOT ACTIONS



SUSTAINABLE PORTS – EUSAIR LABELLED

– PP DEVELOPED TOGETHER WITH A CROSS-BORDER STRATEGY SEVERAL PILOT ACTIONS TO REDUCE CO2 EMISSIONS IN PORTS



EUROPEAN FLAGSHIP ACTION FOR COLD IRONING IN PORTS

– IS A STUDY PROPOSING A COMMON EU HARMONISED AND INTEROPERABLE FRAMEWORK FOR THE TRANSITION TO ELECTRIFICATION OF EU MARITIME PORTS (OPS INFRASTRUCTURES AND EQUIPMENT IMPLEMENTATION)

SUSPORT – SUSTAINABLE PORTS

**LED
LIGHT
BULBS**

SUSPORT – SUSTAINABLE PORTS

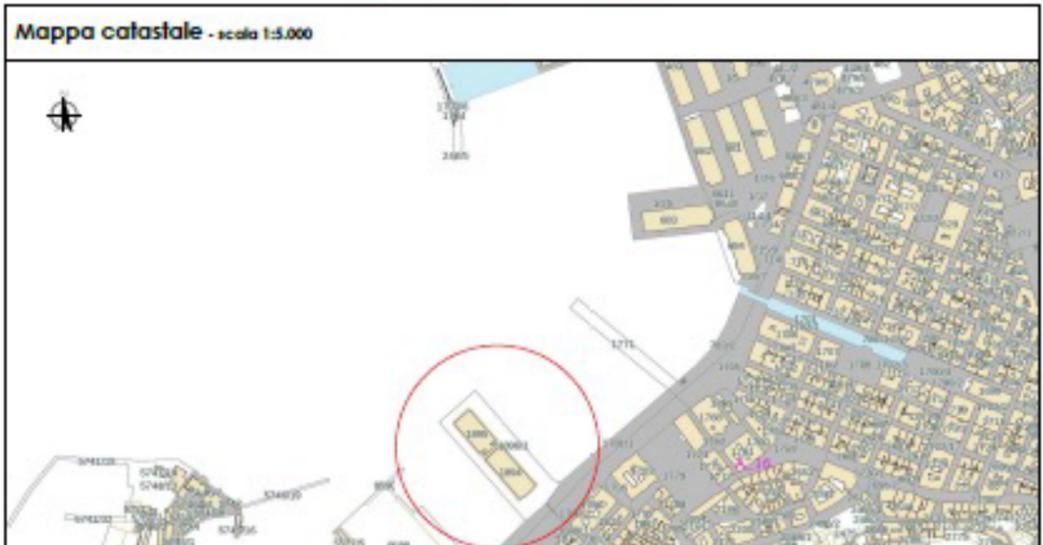
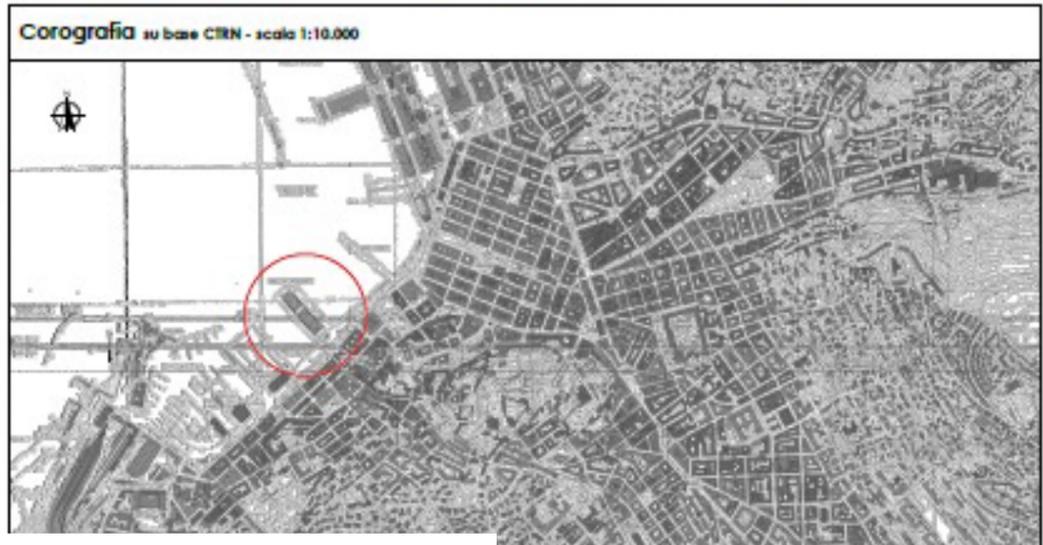
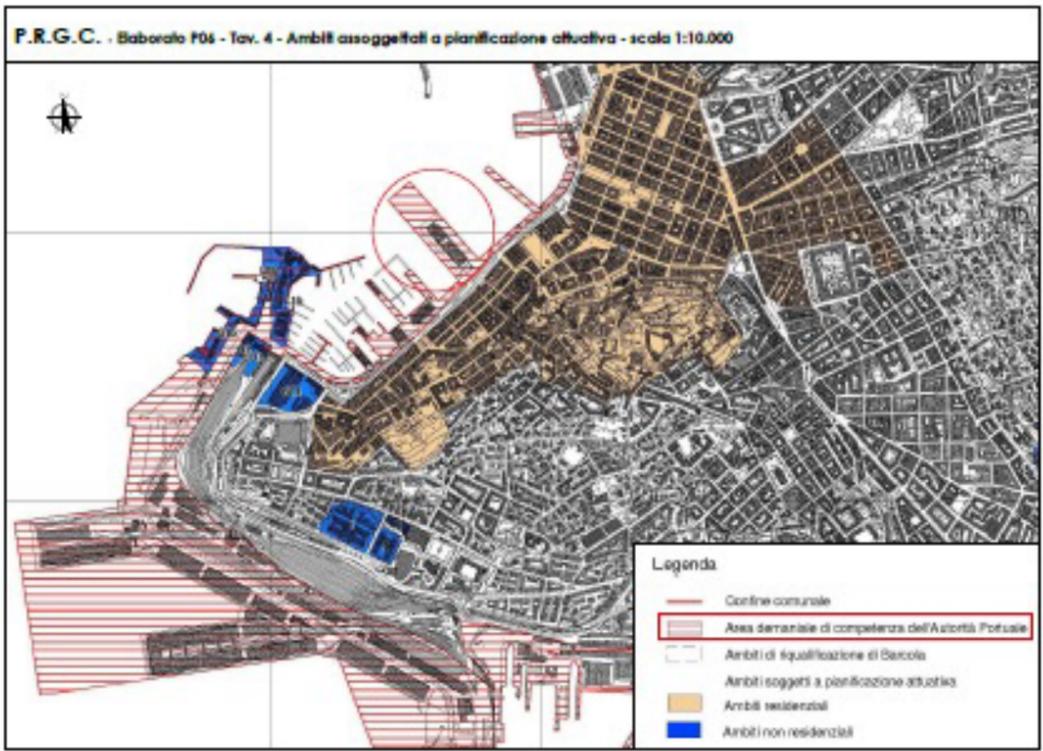
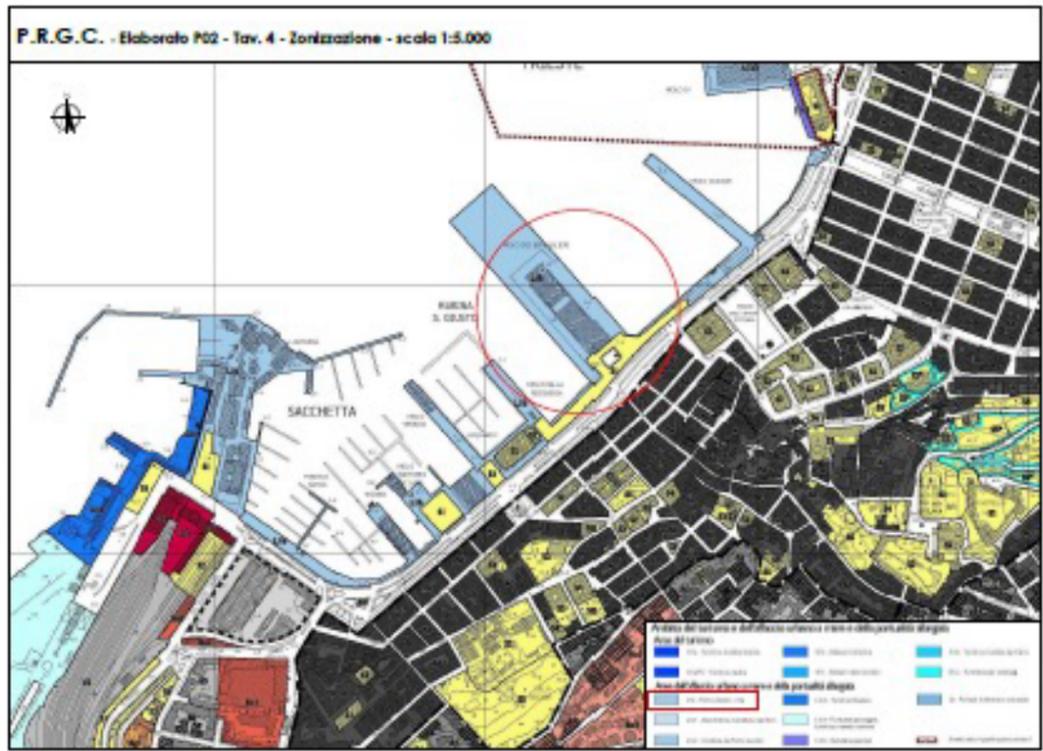
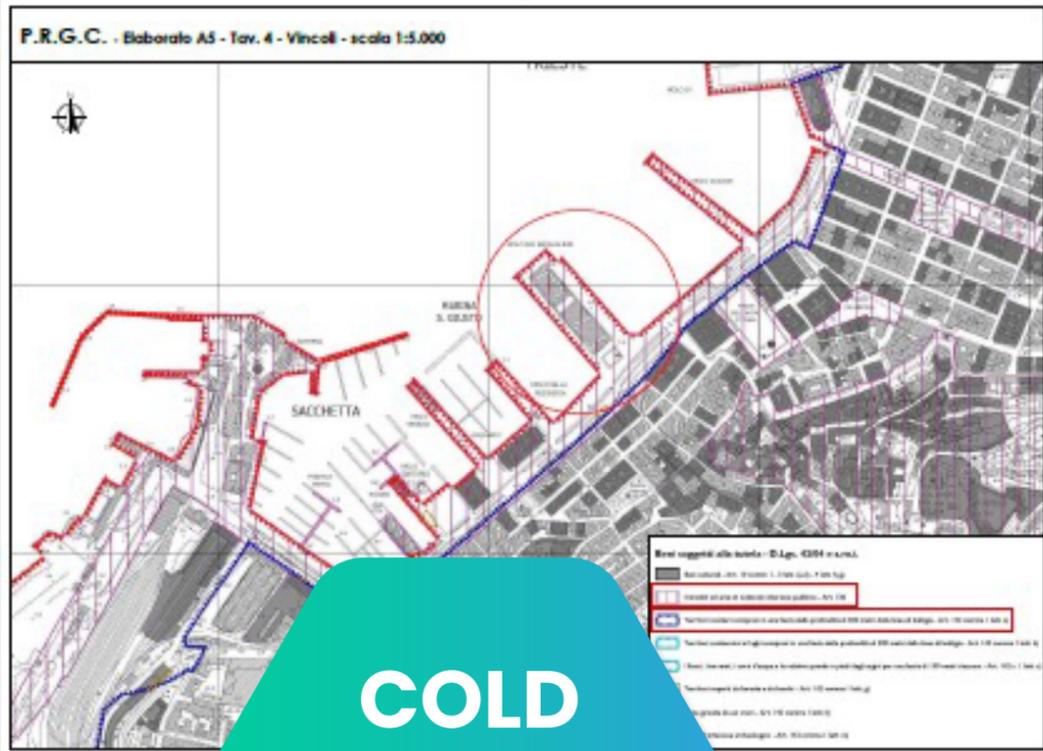
**PHOTO
VOLTAIC
SYSTEM**

SUSPORT – SUSTAINABLE PORTS



**E-
MOBILITY**

SUSPORT - SUSTAINABLE PORTS



COLD IRONING STUDIES

MAIN CROSS-BORDER RESULT



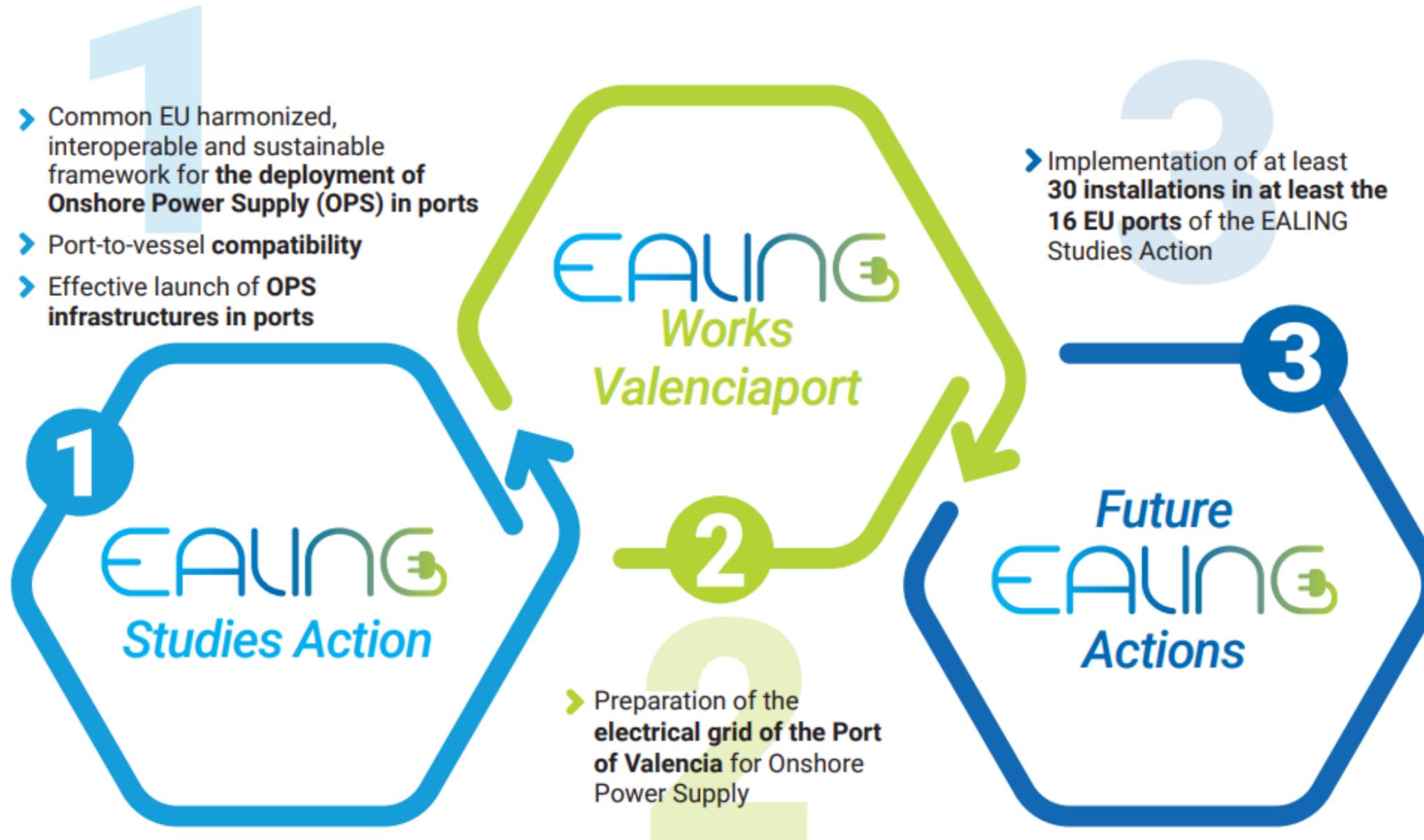
expected CO₂ reduction



-17,924 TONS/YEAR

DECARBONISATION

EALING



DECARBONISATION

EALING

- ▶ EUROPEAN GREEN DEAL ▶ transition to zero GHGs emissions ▶ transport represents 25% of the emission in the European Union
- ▶ THE ELECTRIFICATION OF THE MARITIME TRANSPORT is a key challenge for more competitive and sustainable TEN-T Maritime Network in the future
- ▶ ANALYSES OF CO2 EMISSIONS HAVE SHOWN THAT IN PORTS, THE COMPONENT THAT POLLUTES THE MOST IS SHIPS AT MOORING



- ▶ ON-SHORE POWER SUPPLY (OPS)
- ▶ Is considered as an attractive solution to reduce local pollution generated by vessels at berth in the EU ports
- ▶ The activities carried out in each of the consortium's ports are aimed at performing all the studies that are necessary to accelerate the implementation of OPS in their ports
- ▶ OPS studies for the port of Monfalcone, Pier no. 5 and Logistic Platform

DIGITALISATION

WHY IS DIGITALISATION IMPORTANT ALSO FOR DECARBONISATION?

- FACILITATES COOPERATION BETWEEN SUPPLY CHAIN ACTORS
- ENABLES BETTER VISIBILITY AND REAL-TIME MANAGEMENT OF CARGO FLOWS
- LEADS TO THE REDUCTION OF ADMINISTRATIVE BURDEN
- ALLOWS FOR A BETTER USE OF INFRASTRUCTURES AND RESOURCES

ALL OF THIS MAKES TRANSPORT AND LOGISTICS OPERATIONS MORE EFFICIENT, NOT LEAST BY ALLOWING EASIER INTEGRATION OF THE DIFFERENT TRANSPORT MODES

PORTS = SEA + RAIL + ROAD = MULTIMODAL TRANSPORT

DIGITALISATION CONTRIBUTES TO OPTIMISE TRANSPORT FLOWS AND SMART LOGISTICS SOLUTIONS + HELPS MEETING ENVIRONMENTAL SUSTAINABILITY TARGETS

DIGITALISATION



DIGSEA

**DIGITALISATION OF MULTIMODAL TRANSPORT
IN THE ADRIATIC SEA – EUSAIR LABELLED**

ICT EXPERIENCES AND EXPERTISE OF 4 PROJECTS
TRANSFERRED TO STAKEHOLDERS AND POLICY MAKERS
AT EU AND TRANSNATIONAL RAISE THE AWARENESS
OF THE USE OF ICT AS A POWERFUL AND EFFICIENT TOOL
FOR GREEN AND SMART PORTS/SUPPLY CHAIN



ACCESSMILE

**IMPROVING ACCESSIBILITY OF LAST MILE
CONNECTIONS OF RURAL AND PERIPHERAL
REGIONS TO MAIN TEN-T NODES IN CENTRAL
EUROPE THROUGH ICT**

COOPERATING AMONG PARTNERS FOR A
BETTER CONNECTED CENTRAL EUROPE

DIGITALISATION

DIGSEA

CLUSTERS ICT TECHNICAL KNOWLEDGE OF PREVIOUS PROJECTS APPLIED TO MARITIME AND MULTIMODAL TRANSPORT

01

TRANSPGOOD – INNOVATIVE ICT TOOLS THAT ASSISTS USERS IN FINDING THE BEST SOLUTION OF TRANSPORT SERVICES

02

DIGLOGS – ICT TOOLS FOR MOST ADVANCED DIGITALISED LOGISTIC PROCESSES FOR MULTIMODAL FREIGHT TRANSPORT AND PASSENGERS' SERVICES

03

PROMARES – ICT TO MAKE HINTERLAND TRANSPORT MORE EFFICIENT AND CONNECTED WITH PORTS

04

INTESA – ICT TO MAKE PORT AND MARITIME TRANSPORT SYSTEM MORE EFFICIENT AND SAFE.

THE COLLECTED KNOWLEDGE CONSOLIDATED IN A SINGLE SEA PORT HINTERLAND LOGISTICS APPROACH
TO IMPROVE THE EFFICIENCY AND INCREASE THE ENVIRONMENTAL PERFORMANCE OF PORTS AND THE WHOLE SUPPLY CHAIN

DIGITALISATION

ACCESSMILE

ACCESSMILE ► LAST MILE BY ROAD

- STARTED IN APRIL 2023
- TO SOLVE THE WEAK LAST-MILE ACCESSIBILITY OF RURAL AND PERIPHERAL AREAS TO THE MAIN TEN-T FREIGHT NODES.
- THIS CHALLENGE INVOLVES TRANSPORT OPERATORS FROM ITALY, SLOVENIA, CROATIA, AUSTRIA, HUNGARY, GERMANY AND POLAND ► AFFECTED BY

01 MULTIMODAL TRANSPORT INEFFICIENCY

02 WEAKER ECONOMIC GROWTH

03 HIGHER TRANSPORT-RELATED AIR POLLUTION AND GREENHOUSE GAS

DIGITALISATION

ACCESSMILE

ACCESSMILE ► LAST MILE BY ROAD

OPERATIONAL TOPICS CAN NOT BE DEALT AT LOCAL LEVEL, GIVEN THE GLOBAL NATURE OF TRANSPORT FLOWS



THIS IS WHY COOPERATION AMONG TRANSPORT OPERATORS IS ESSENTIAL



CO-DEVELOPMENT OF AN ACTION PLAN FOR IMPROVING THE LAST MILE ACCESSIBILITY OF RURAL/PERIPHERAL AREAS TO TEN-TS **THROUGH ICT:**



TRANSPORT FLOW
MANAGEMENT AND
VEHICLE BOOKING
SYSTEMS



GATES AND
ENTRY/EXIT TOOLS
AND PROCEDURES



CARGO BUNDLING
AND TRACKING

FINDINGS

Territorial cooperation plays a pivotal role in

- increasing competences
- mutual learning
- joint medium and long-term planning



**ENHANCING DECARBONISATION AND DIGITALISATION OF PORTS
THROUGH COOPERATION AMONG LOGISTIC NODES AND
TERRITORIES IS THE KEY TO HAVING INCREASINGLY GREEN AND SMART PORTS**

**Thank you for your
kind attention!**

**PORT NETWORK AUTHORITY OF
EASTERN ADRIATIC SEA**
PORTS OF TRIESTE AND MONFALCONE

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