

PRESPORT

STRATEGY & ACTION PLAN

PRESPORT: PIONEERING A GREEN AND SMART ADRIATIC MARITIME CORRIDOR

The PRESPORT initiative represents a **landmark collaboration between Italian and Croatian ports**, driven by the need to address shared environmental and operational complexities in the Adriatic basin.

By aligning with the European Green Deal and the Digital Decade, the project outlines a unified pathway to transform these critical nodes into climate-neutral, resilient, and digitally advanced maritime hubs by 2035.

CORE STRATEGIES AND ACTIONS

1. STRATEGIC PILLAR

DECARBONIZATION AND ENERGY TRANSITION

TO DRASTICALLY REDUCE GREENHOUSE GAS EMISSIONS, CUT OPERATIONAL NOISE, AND ENHANCE URBAN AIR QUALITY, PRESPORT SETS AN AMBITIOUS ENVIRONMENTAL ROADMAP.



ELECTRIFICATION & ON-SHORE POWER SUPPLY (OPS)

EXTENSIVE ROLLOUT OF OPS FACILITIES TO PROVIDE CLEAN POWER TO VESSELS AT BERTH, WHICH IS CRUCIAL FOR MEETING EUROPEAN ALTERNATIVE FUEL REQUIREMENTS.

CLEAN ENERGY & EFFICIENCY

LARGE-SCALE INTEGRATION OF PHOTOVOLTAIC (PV) SOLAR SYSTEMS TO SUPPLY INTERNAL ENERGY, ALONGSIDE COMPREHENSIVE UPGRADES TO ENERGY-EFFICIENT LED PUBLIC LIGHTING.

SUSTAINABLE FLEETS

A GRADUAL TRANSITION OF PORT VEHICLE FLEETS AND GROUND SUPPORT MACHINERY FROM FOSSIL FUELS TO ELECTRIC AND HYBRID ALTERNATIVES.

2. STRATEGIC PILLAR

DIGITALIZATION AND INNOVATION

DIGITALIZATION IS RECOGNIZED AS THE ESSENTIAL STRUCTURAL BACKBONE NEEDED TO MANAGE MODERN PORT COMPLEXITIES, ENSURE SAFETY, AND IMPROVE EFFICIENCY. THE STRATEGY FOCUSES ON:

SYSTEM INTEROPERABILITY

UPGRADING AND INTERCONNECTING PORT COMMUNITY SYSTEMS (PCS) TO STREAMLINE ADMINISTRATIVE WORKFLOWS AND ENABLE REAL-TIME DATA EXCHANGE ACROSS STAKEHOLDERS.

ADVANCED DATA & DIGITAL TWINS

EVOLVING FROM BASIC DATA COLLECTION TO PREDICTIVE MANAGEMENT. THIS INVOLVES IMPLEMENTING AI-DRIVEN TOOLS AND DIGITAL TWINS-VIRTUAL MODELS OF PORT ASSETS-TO OPTIMIZE INFRASTRUCTURE USE AND SUPPORT RISK ASSESSMENT.

CYBERSECURITY & RESILIENCE

BUILDING ROBUST SECURITY FRAMEWORKS AND INCIDENT RESPONSE PROTOCOLS TO COMPLY WITH THE NIS2 DIRECTIVE, SAFEGUARDING CRITICAL DIGITAL AND PHYSICAL SYSTEMS.

THE POWER OF CROSS-BORDER COOPERATION

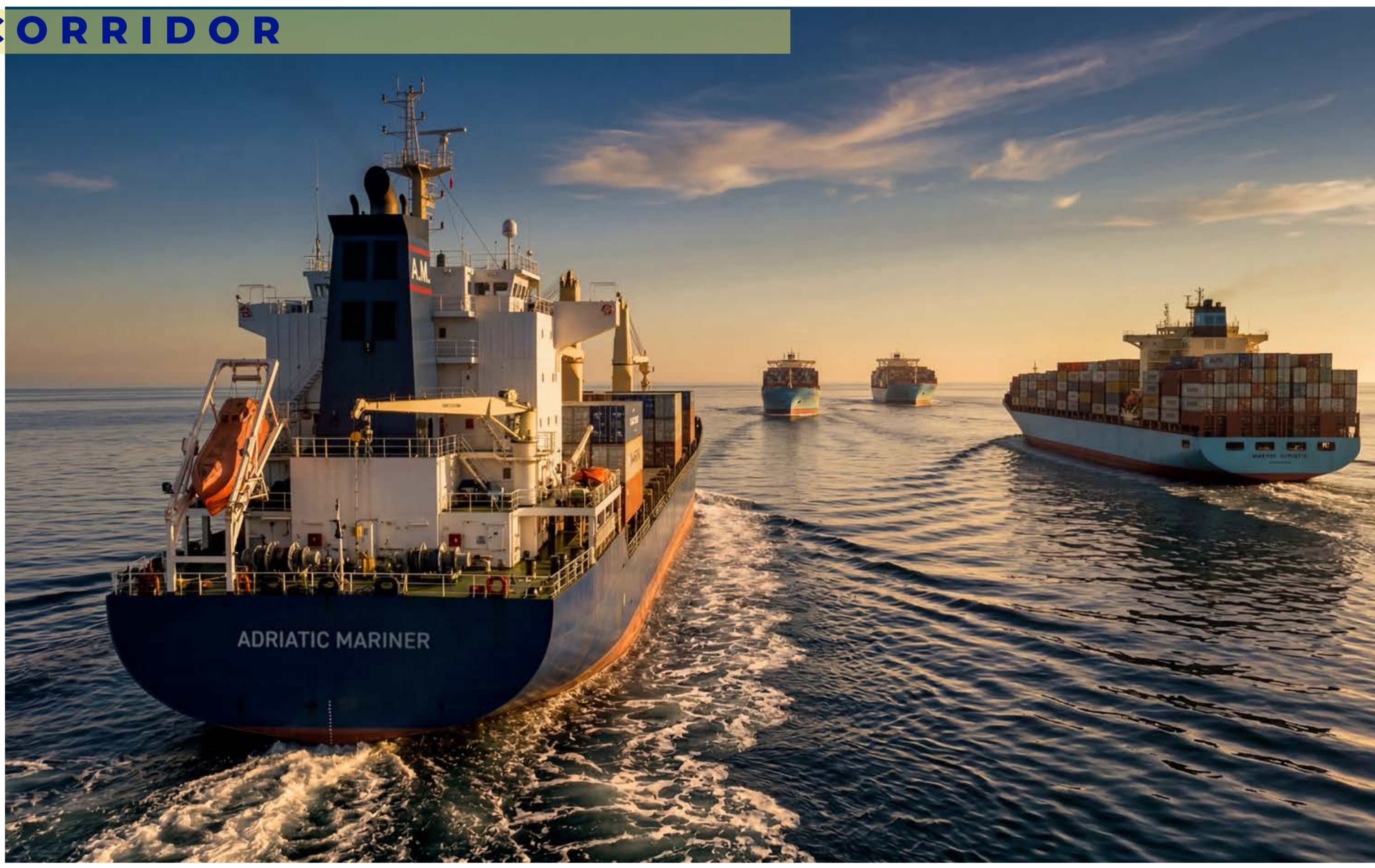
ADRIATIC SEA, MARITIME CORRIDOR

THE ADRIATIC SEA IS A DEEPLY INTERCONNECTED MARITIME CORRIDOR WHERE ISOLATED, LOCAL INTERVENTIONS ARE NO LONGER SUFFICIENT.

PRESPORT REPLACES FRAGMENTED DIGITAL ARCHITECTURES AND DISPARATE ENVIRONMENTAL EFFORTS WITH A **HARMONIZED CROSS-BORDER APPROACH**.

BY STANDARDIZING TECHNICAL METHODOLOGIES, SHARING OPERATIONAL DATA, AND ALIGNING PLANNING PROCEDURES, **ITALY AND CROATIA** ARE CREATING A SEAMLESS, INTEROPERABLE ECOSYSTEM.

THIS COLLABORATION PREVENTS BOTTLENECKS, REDUCES PROCUREMENT COSTS, AND FACILITATES THE EXCHANGE OF BEST PRACTICES ACROSS THE MACRO-REGION.



NAVIGATING KEY CHALLENGES

The path to green and smart ports requires overcoming several significant hurdles

INFRASTRUCTURAL AND FINANCIAL

MASSIVE INVESTMENTS ARE REQUIRED FOR VITAL ELECTRICAL GRID UPGRADES TO SUPPORT OPS AND CLEAN TECH, OFTEN EXCEEDING THE INDEPENDENT FINANCIAL CAPACITIES OF INDIVIDUAL PORTS.

UNEVEN MATURITY

THERE ARE NOTABLE DISPARITIES IN DIGITAL READINESS, INFRASTRUCTURE, AND FINANCIAL RESOURCES BETWEEN LARGE PORTS AND SMALLER NODES.

TECHNICAL AND HUMAN BARRIERS

PORTS FACE FRAGMENTED LEGACY IT ARCHITECTURES, RAPID TECHNOLOGICAL OBSOLESCEENCE, AND A PRESSING NEED FOR SPECIALIZED CAPACITY BUILDING TO OVERCOME WIDESPREAD DIGITAL SKILLS SHORTAGES.

EXPECTED IMPACTS

REGIONAL BENEFITS

DESPITE THESE CHALLENGES, THE JOINT IMPLEMENTATION OF PRESPORT PROMISES **PROFOUND REGIONAL BENEFITS**.

ENVIRONMENTALLY, THE REGION WILL SEE **MEASURABLE REDUCTIONS IN CO₂ AND NOX EMISSIONS**, ALONGSIDE CLIMATE-PROOFED INFRASTRUCTURE BUILT TO WITHSTAND EXTREME WEATHER EVENTS.

OPERATIONALLY, THE TRANSITION GUARANTEES **HIGHLY OPTIMIZED, SECURE, AND DATA-DRIVEN LOGISTICS**.

ULTIMATELY, PRESPORT SECURES A **MORE COMPETITIVE, RESILIENT, AND COLLABORATIVE FUTURE FOR THE ENTIRE ADRIATIC MARITIME NETWORK**.

