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Ministero delle infrastrutture
e della mobilità sostenibili



Italian Recovery and Resilience Facility Plan

November 30, 2021

Carlo Prischich

Special Technical Unit

Ministry of Sustainable Infrastructures and Mobility - MIMS

MIMS IS CENTRAL TO NRRP IMPLEMENTATION

With over **62 billion** MIMS plays a crucial role

Funding source	Total resources
Next Generation EU	40,701
React EU	0,313
Supplementary Fund	10,615
Budget Variance	10,350
Overall Total	61,979

Some projects will be carried out in collaboration with other Ministries: Ministry of Digital Innovation, Ministry for Economic Development, Ministry of Ecological Transition, Ministry of Culture, Department for the South and Social Cohesion.

AN INTEGRATED VISION

The projects under the responsibility of the Ministry of Sustainable Infrastructures and Mobility (MIMS) in the National Recovery and Resilience Plan (NRRP) are in line with:

The 2030 Agenda for Sustainable Development



The European Green Deal



The aims of the "Next Generation EU"



National strategic planning and sector planning

Other national and European resources



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MIMS IS CENTRAL TO NRRP IMPLEMENTATION

MIMS carries out projects and reforms on **6 strategic** objectives

1. sustainable development (NRRP missions)
2. ecological and digital transition
3. improve people's quality of life and reduce inequalities
4. accelerate the construction of infrastructure and increase the competitiveness of companies
5. generate an increase in income and employment
6. reduce the North-South gaps



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PROJECTS AND REFORMS

which account for **4 of the 6 NPRR missions**

Missions	Total resources (<i>Billion</i>)
Digitalization and innovation	0,493
Green revolution and ecological transition	15,814
Infrastructure for sustainable mobility	41,809
Inclusion and cohesion	3,863
Overall total	61,979

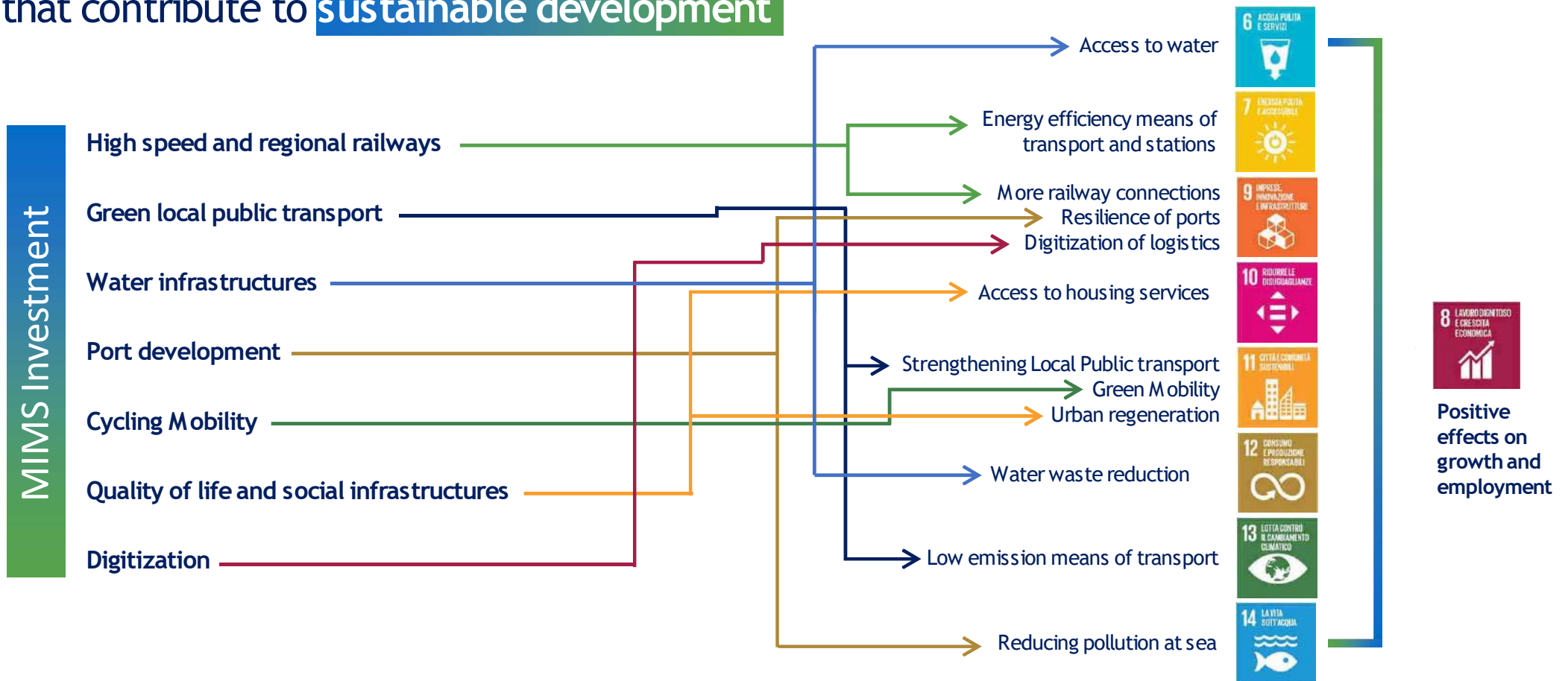


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ALL PROJECTS AND REFORMS

that contribute to **sustainable development**



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PROJECTS AND REFORMS

that are essential for the **ecological and digital transition**

Iron option for modal shift: an estimated saving of 2.3 million tons of CO2 emissions per year

- High-speed development and regional lines (700 km)
- Rapid Mass Transport (RMT) in urban areas (216 km of new tramlines, metros, trolleybuses)
- Purchase of new trains

Renewal of electric and hydrogen bus fleet

- 3,200 electric/hydrogen buses in urban areas
- 2,000 methane buses for suburban transport

Hydrogen testing for un-electrified railways

- 50 hydrogen trains in the South and Val Camonica

Smooth mobility

- 1,800 km of tourist and urban cycle routes



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PROJECTS AND REFORMS

that improve **people's quality of life** and **reduce inequalities**

- Development of urban mobility
- Better connections for remote areas and Economic and industrial development of South

that accelerate the **construction of infrastructure** and increase **the competitiveness of companies**

- Speeding up and simplification of infrastructure investments
- Reduce costs and more competition
- Digitisation of logistics
- Ecological transition of the naval fleet



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EXTENSION OF HIGH-SPEED RAIL AND UPGRADING OF REGIONAL NETWORKS

(slide 1 / 2)

Development of high-speed and high-capacity lines **25 billion**

- Salerno - Reggio Calabria
11,2 billion
- Palermo - Catania - Messina
1,4 billion
- Roma - Pescara
0,6 billion
- Brescia - Vicenza - Padova
4,6 billion
- Napoli - Bari
1,4 billion
- Orte - Falconara
0,5 billion
- Liguria - Alpi
4,0 billion
- Verona - Brennero
0,9 billion
- Taranto - Battipaglia
0,4 billion



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EXTENSION OF HIGH-SPEED RAIL AND UPGRADING OF REGIONAL NETWORKS

(slide 2 / 2)

Upgrading of rail hubs serving urban areas and other routes **3 billion**

Station plan in the South **0,7 billion** for redevelopment and improvement of accessibility

Strengthening regional networks and electrification **5.45 billion**



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RENEWAL OF TRAINS, BUSES AND SHIPS TO REDUCE EMISSIONS

“Green” Local public transport and rapid mass transport **8.4 billion**

- **Renewal of the bus fleet** (including Full Electric in Milan, Rome and Naples)
3.0 billion
- **Rapid Mass Transport (RMT Development)**
3.6 billion
- **Renewal of Local Public Transport (LPT) trains**
0.6 billion
- **Renewal of intercity trains in the South**
0.2 billion
- **Renewal of locomotives, rolling stock and freight infrastructure**
0.2 billion
- **Renewal of LPT vessels in the Strait of Messina**
0.1 billion
- **Renewal of the fleet with low environmental impact ships**
0.7 billion



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INVESTMENT IN PORT DEVELOPMENT, LOGISTICS AND MARITIME TRANSPORT

- **Construction of the new port of Genoa breakwater**
0.5 billion
- **Modernization and development projects in the Port of Trieste**
0.38 billion
- **Electrification of docks at Ten-T ports (Cold Ironing National Plan)**
0.7 billion
- **Energy efficiency and waste management in ports (Green ports)**
0.3 billion
- **Increase in port capacity in the ports of Venice, La Spezia, Naples and Cagliari**
0.18 billion
- **Infrastructure for the ZES**
0.6 billion



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INVESTMENT IN PORT DEVELOPMENT, LOGISTICS AND MARITIME TRANSPORT

- **Last/penultimate railway and road mile in the ports of: Venice, Ancona, Civitavecchia, Naples, Salerno**
 - 0.07 billion
- **Energy and environmental efficiency in the ports of the Strait of Messina**
 - 0.05 billion
- **Restoration and renewal of infrastructure in the ports of: Venice, Naples, Marina di Carrara, Salerno, Manfredonia, Palermo and Catania**
 - 0.3 billion
- **Increase in maritime accessibility in the ports of: Vado Ligure, Ravenna, Civitavecchia, Naples, Salerno, Taranto, Brindisi and Trapani**
 - 0.6 billion
- **Sustainable mobility for small islands**
 - 0.04 billion



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DIGITIZATION INTERVENTIONS FOR BETTER LOGISTICS AND ROAD SAFETY

- **Digitization of Italy's logistics systems**
0.25 billion
- **Digitization of local public transport (Mobility as a service)**
0.04 billion
- **Development of the railway system and the European railway system ERTMS for speed increase, infrastructure capacity and security**
2.97 billion
- **Digital innovation of air traffic control systems**
0.11 billion
- **Technological monitoring of bridges, viaducts and road and motorway and road tunnels**
0.45 billion
- **Safety and technological monitoring interventions for A24 and A25**
1.0 billion



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INNOVATION for ECOLOGICAL TRANSITION

- **Electrical recharges**
0.7 billion
- **Hydrogen rail transport experimentation in Val Camonica, Salento and other networks**
0.3 billion
- ***Brenner Green Corridor***
0.1 billion
- ***Strengthening the green transport industry, its supply chains and smart mobility***
0.3 billion



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DEVELOPMENT OF PROVINCIAL ROADS FOR INLAND AREAS AND CYCLE PATHS FOR SMOOTH MOBILITY

- Provincial roads to connect inland areas with major transport routes
0.3 billion
- Urban cycle routes
0.2 billion
- Tourist cycle routes
0.4 billion
 - *VenTo Route cycle (Venezia-Torino)*
 - *Sole Route Cycle*
 - *Garda Route Cycle*
 - *TriLiVe Route Cycle Trieste-Lignano-Venezia*
 - *Adriatica Route Cycle*
 - *Tirrenica Route Cycle*
 - *GRAB Route Cycle (Bike Rome Ring Road)*
 - *Apulian Aqueduct Route Cycle*
 - *Magna Grecia Route Cycle*



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SYSTEM REFORMS: SIMPLIFICATION, COMPETITION AND EFFICIENCY

- **Railways:** accelerating the procedures to finalize the Program Contract between MIMS and the National Railways Network (RFI) and the authorization procedures
- **Ports:** improving the port planning, rules of State Property concessions
- **Logistics:** single window for import/export controls, interoperability of platforms for passengers and goods and electronic vehicle document
- **Local Public Transport:** accelerating the approval procedures for Local Public Transport (LPT) and Rapid Mass Transport (RMT)
- **Road Safety:** implementing the guide lines for bridges security and transfer of the property of bridges, viaducts and tunnels from the Local Authorities to the State
- **Water Resources:** strengthening of the governance for the water supply infrastructures



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Thanks for your attention!

For any further information or request please contact me:
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ASSAEROPORTI
Associazione Italiana Gestori Aeroporti

Insight of airports measures to increase sustainability

Cross-Border Forum – High Level Conference – Carlo Borgomeo, President of Assaeroporti

30 November 2021

Airport industry engagement

The airport industry has been engaged for years in initiatives focused on sustainability and reduction of greenhouse gas emissions, trying to reconcile infrastructure development with the environmental and social protection needs of the surrounding area (and not only)

Investments carried out so far have concerned the **use or production of energy from renewable sources**, the **implementation of energy efficiency measures**, the implementation of **procedures for more efficient operations**, and so on. In addition, in the recent months the airport operators are focused on the **development of sustainable aviation fuels**, and the **use of hydrogen in the aeronautical sector**

Huge investments had been planned to accelerate the “green transition” of the airport sector, but the crisis resulting from the Covid-19 risks to compromise the ability of airport operators to realize all the planned projects

Impact of Covid-19 on the Italian airport sector

Since March 2020

- ▶ **Lost 160 million passengers in first 12 months of the pandemic (vs. 193 million in 2019)**
- ▶ **Lost more than 3 billion € of revenues**
- ▶ **Strong liquidity absorption and significant growth in financial debt**

Traffic forecast

Full 2021

80 million passengers (-60% of pre-pandemic levels)

2024-2025

Full recovery of 2019 passengers traffic level

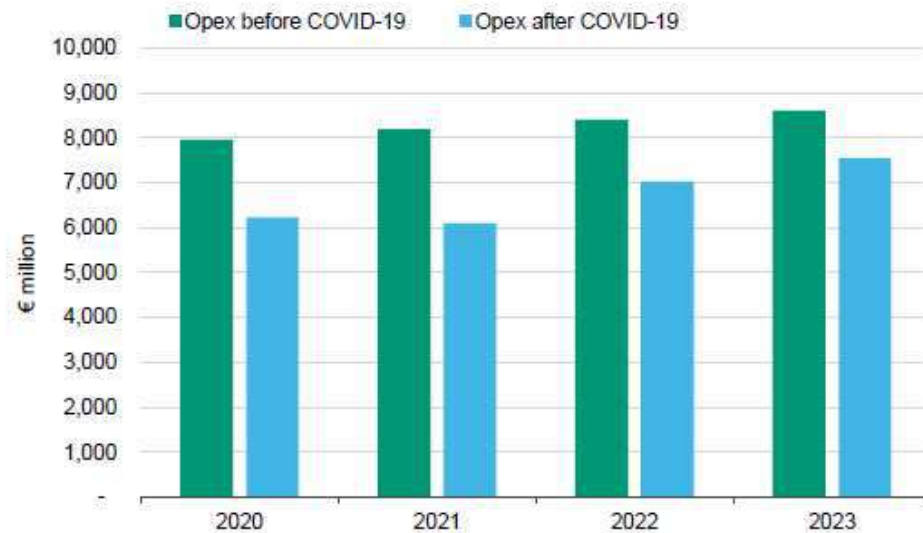
Airport investment crunch

- Additional cost cutting is not an option
- Revenue generation constraints
- No EU Recovery Fund financing
- State aid limitations

Opex and capex overview

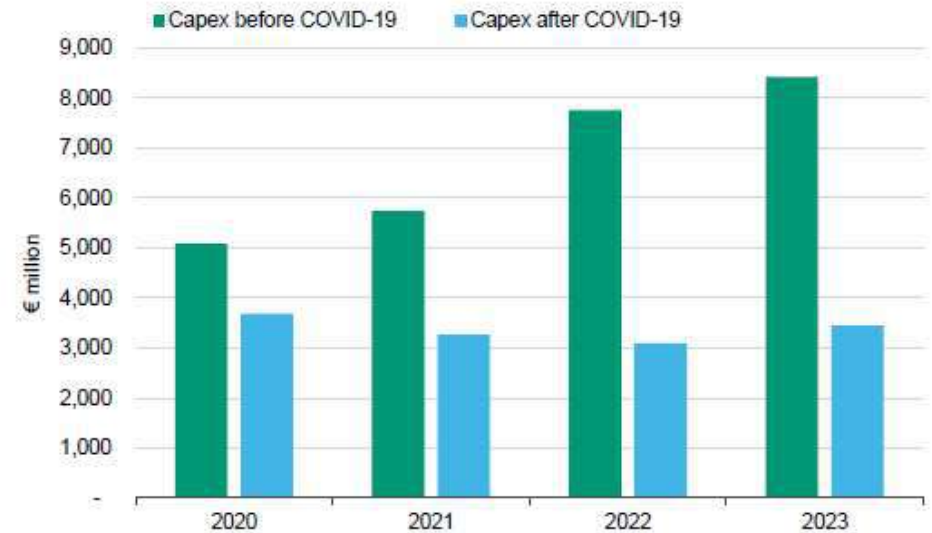
Opex savings will reduce over time ...

Aggregate operating expenditure for rated European airports



... while capex requirements will remain moderate

Aggregate investments for rated European airports



Source: Moody's

Contribution of the aviation sector to global emissions

The air transport is not the main cause of air pollution produced today in terms of CO₂ emissions

915 million tonnes

Worldwide, flights produced 915 million tonnes of CO₂ in 2019. Globally, humans produced over 43 billion tonnes of CO₂.

4.5 billion

In 2019, 4.5 billion passengers were carried by the world's airlines.

2%

The global aviation industry produces around **2%** of all human-induced carbon dioxide (CO₂) emissions.

12%

Aviation is responsible for **12%** of CO₂ emissions from all transports sources, compared to 74% from road transport.

Key messages

Assaeroporti believes that the European green new deal is not just an environmental policy, but a development strategy. Attention to sustainability is not a trend, but a strategic option

Institutions must address a necessary phase of transition helping the sector to accelerate its green evolution. To do this, it is necessary to financially support the investment plans of the airport operators that are no longer able to self-finance the projects and to recover the costs through the airport charges

The European legislation on state aid will also have to be revised to take into account the specificities of the air transport sector in order to overcome the current constraints which tend to exclude airports from public support measures

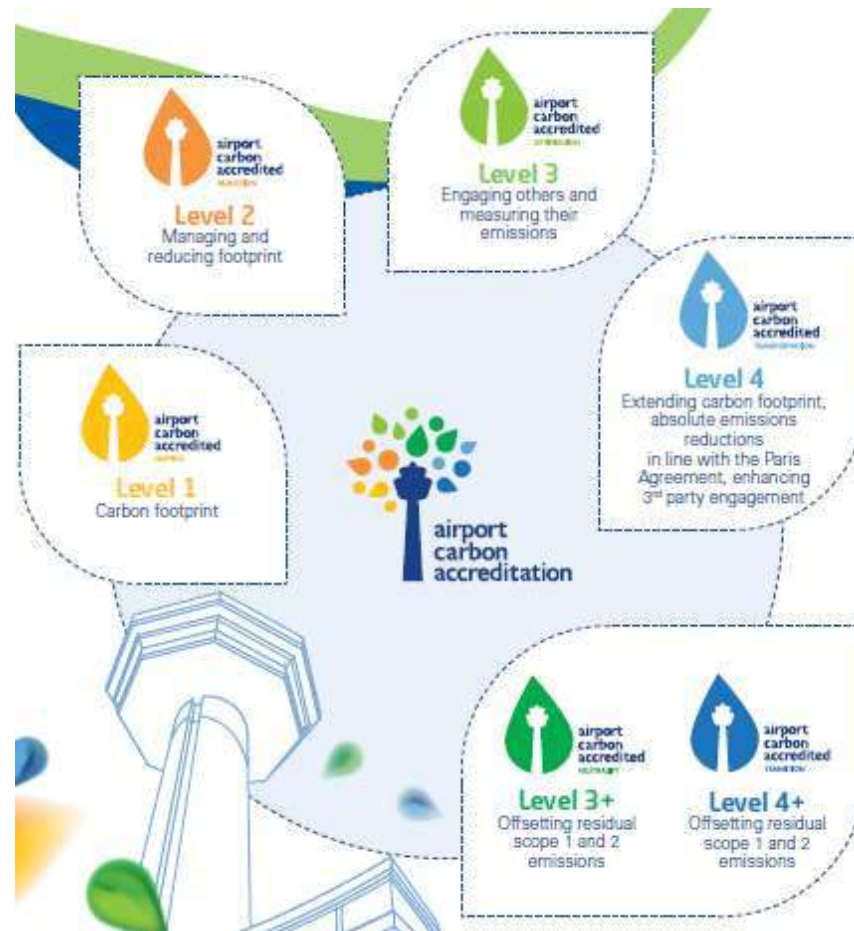
~~Greenwashing~~

Financial support to
accelerate the green
transition

Adoption of concrete
sustainable development
measures

Global and European initiatives involving airports

Airport Carbon Accreditation (ACA) for carbon management at airports since 2009



- 182 accredited airports in Europe
- 14 accredited airports in Italy which represent the 15% of carbon neutral airports of our continent



ICAO



Global and European initiatives involving airports



NET ZERO 2050 July 2019

- **242 airports in Europe** committed to achieve zero emissions by 2050 of which **10 Italian airports**
- So far **91 airports** have already declared to anticipate the goal to 2030 of which **4 Italian airports**

Main aspects related to sustainability for the airport sector



Thank you



ASSAEROPORTI

Associazione Italiana Gestori Aeroporti

www.assaeroporti.com

ADRIGREEN CROSS-BORDER FORUM

Central Adriatic Ports Authority actions towards
sustainability

*Guido Vettorel, Head of Unit, Development, promotion, statistics,
communication and EU projects*

The Central Adriatic Ports Authority



6 ports

11,8 millions tons of goods (2019)

1,2 million passengers (value 2019)

9.016 workers

2 regions

3 main cities

2 Maritime Directions

2 Interregional Custom Directions

215 km, the length of the coastline

The International Port of Ancona

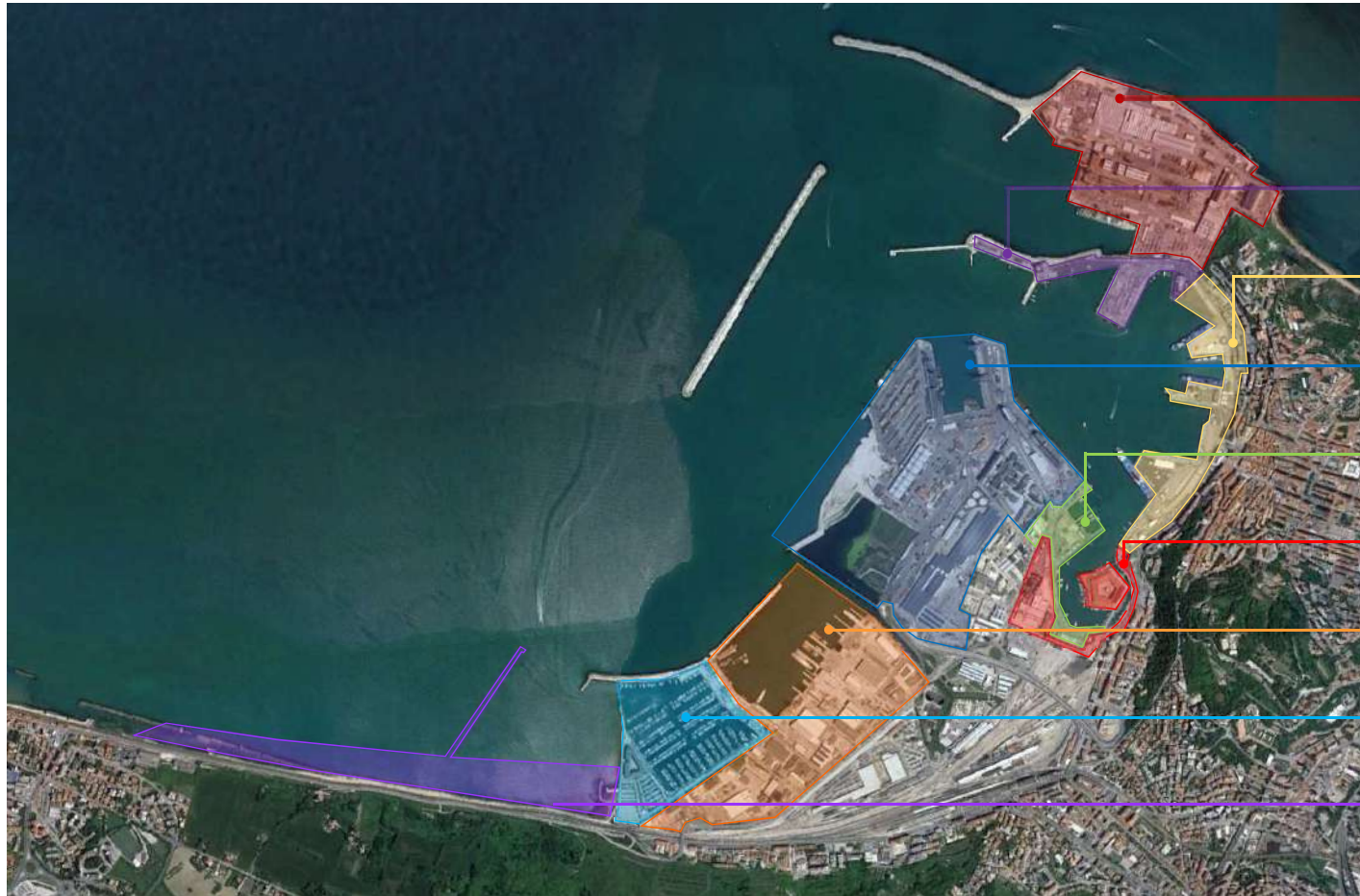
6.528 people employed in port

1.910 ships calling the port of Ancona in 2019

1.190. 000 passengers in 2019

10.800.000 tons: port throughput 2019

The International port of Ancona



FINCANTIERI SHIPYARD

OLD PORT AREA

RO-PAX FERRY TERMINAL

CARGO AND LOGISTICS FACILITIES

FISHING

PORT AND CITY AREA

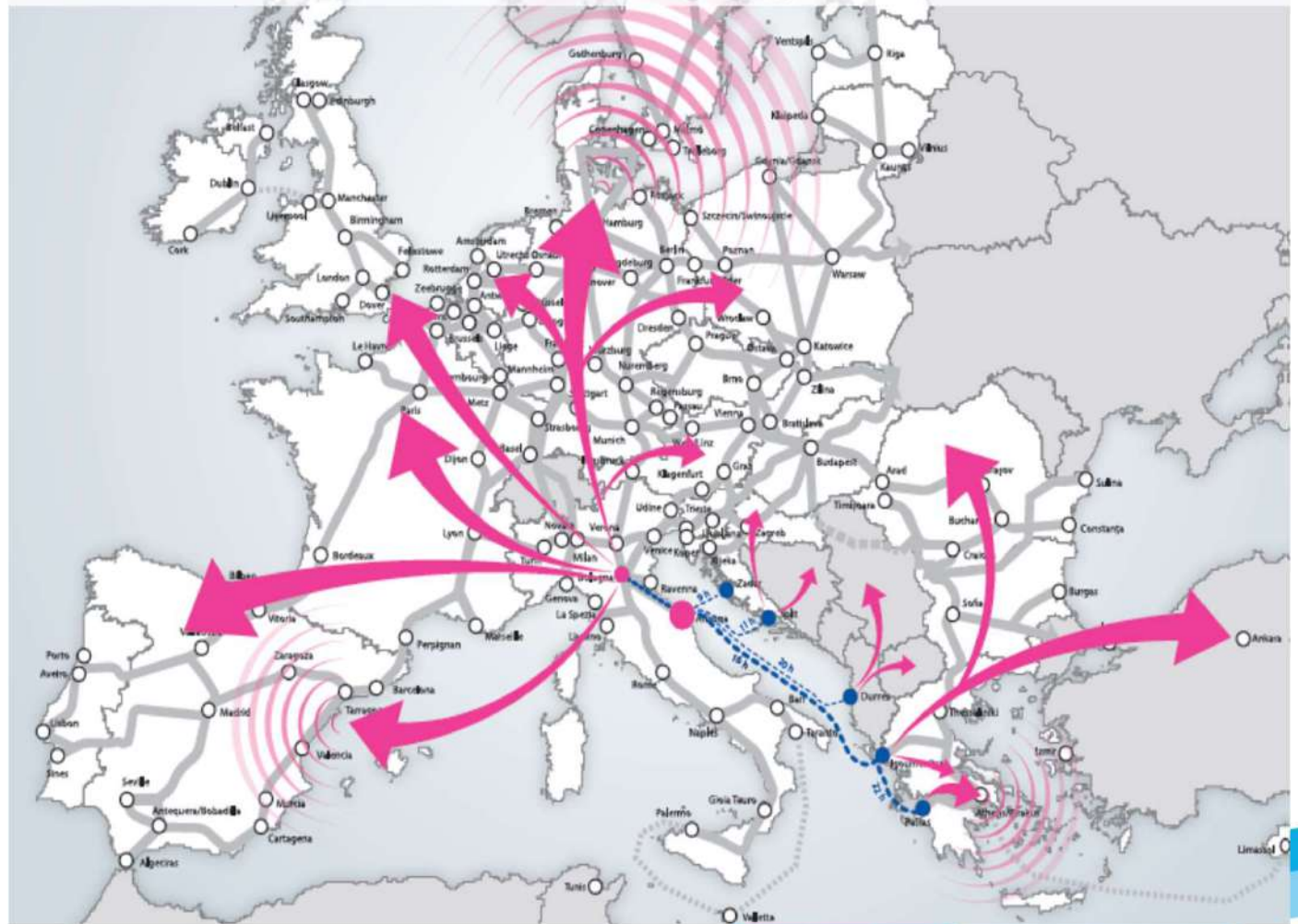
SHIPYARDS

MARINA

NEW WATERFRONT

The port of Ancona: gateway to the East

Origin and destination of the main freight flows of the RO/PAX traffic in the port of Ancona



European seaport

International ferry
traffic for freight
and passengers

WORKING TO A SUSTAINABLE DEVELOPMENT STRATEGY

Endogenous aspects



Projects and actions developed locally

Blue Agreement

P.I.A.

Environmental regulation

Handling of goods and management of vehicle flows

Development actions

Exogenous aspects



International and national rules:

Energy policy

Taxation

Model of economic development

Emission rules

Sustainability. Getting awareness and measure the issue

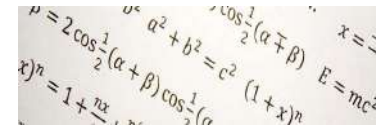


ANCONA respira
Progetto Inquinamento Atmosferico



EMISSIONS (POLLUTION & POLLEN)

- Port focus
- Inventory of emissions of the whole town
- Modelling to anticipate concentrations and support decisions



GREEN INVENTORY

- Plants and green areas of the town



HEALTH

- Current situation
- WHO Targets to be reached
- Assessment of the impact on health of the collected data

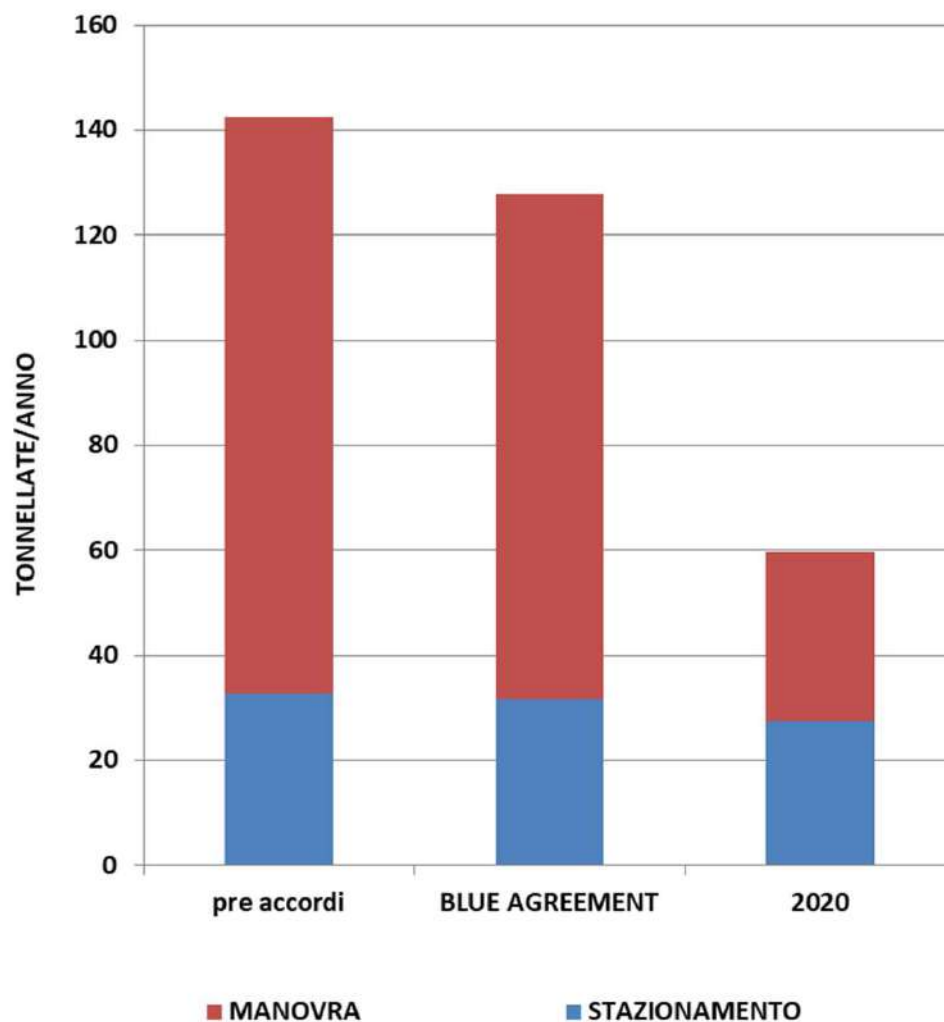


NEWBRAIN

COMMON RULES ARE THE KEY TO REDUCE EMISSIONS....

FERRIES SO2 EMISSIONS:

- Pre IMO2020 rules
- Ancona Blue Agreement impact
- Emissions after new rules



... WHILE PROCESS INNOVATION CAN SUPPORT THE TRANSITION



TinS: THE PORT VIRTUAL EXTENSION



The virtual tunnel links Scalo Marotti with the ferry terminal Customs Gate, using AI technology as an innovative solution for the secure transfer of the cargo.

The TinS global project aims at establishing an innovative procedure for customs controls OUTSIDE the port area for vehicles related to ferry traffic. The procedure aims at being opened for all kinds of customs formalities to be performed in port without prior registration of the forwarder, to ensure the flexibility requested by operators and shipping lines.

To that extent the Central Adriatic Ports Authority selected an AI system (A3IU) to:

- 1) control the “virtual tunnel” between the ferry terminals and the Scalo Marotti customs parking;
- 2) Ensure the e-dialogue with the Customs Agency AIDA system and its innovative applications, to give real time information about the ferry (containers) cargo flows in port areas.



EALING Project, CEF Programme



European flagship Action for cold ironING in ports



Contributing to the further development of a common EU harmonised and interoperable framework for deployment of OPS infrastructure and equipment in the ports with close cooperation between all the stakeholders of the maritime sector;

Leading all the necessary technical, environmental, socio economic and financial studies in order to accelerate the preparation and launch of the works phase on OPS infrastructure;

Implementing OPS infrastructure and equipment in at least 16 EU ports belonging to different EU sea basins.

WHY OPS STUDY FOR QUAY 17



Very close to the historical centre of the city of Ancona;

Dedicated to the mooring of Offshore Supply Vessels, small ferries and passenger ships

(engines on also during night hours, thus impacting both on air and noise pollution of the residential areas and touristic/accommodation facilities located just behind)

Quay 17

COOPERATE FOR TRANSITION

THE NEW EU STRATEGY AND THE IMPACT ON THE NATIONAL PROGRAMME



Communication COM(2019)640 on the European Green Deal, making the EU the first climate neutral continent by 2050, resulting in a cleaner environment, more affordable energy, smarter transport, new jobs and an overall better quality of life.



- **Cold ironing in the 5 Central Adriatic ports** (funding secured);
- **Infrastructure development;**
- **14 projects proposed under the green ports call of the Italian Ministry of Environment,** mainly on energy transition

THANK YOU FOR YOUR KIND ATTENTION!

Central Adriatic Ports Authority

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