

PORT OF BARCELONA FOURTH STRATEGIC PLAN

Port vision 2040

MISSION

TO GENERATE PROSPERITY IN OUR COMMUNITY, INCREASING THE COMPETITIVENESS OF OUR CUSTOMERS BY PROVIDING EFFICIENT AND SUSTAINABLE LOGISTICS AND TRANSPORT SERVICES

VISION

SMART LOGISTICS HUB

The SMARTest logistics hub in the MED

S	M	A	R	T
Sustainable	Multimodal	Agile	Resilient	Transparent

THE GENERAL STRATEGIC OBJECTIVE FOR 2025 CAN BE SUMMARISED IN THE FIGURES 70/50/40

Economic sustainability	Environmental sustainability	Social sustainability
€70 billion in foreign trade value	50% electrified container and ro-ro wharves	40,000 people working at the Port
Foreign trade and cabotage (excluding transshipment) that is transported through the Port	Provisional network and consolidated OPS pilot connections or with electrification projects underway	Employees who work at the Port physically, on a daily or regular basis



STRATEGIC AND OPERATIONAL OBJECTIVES

Economic Sustainability

SSOE1 Diversify the Port business

SSOE1.1 Develop advanced logistics in Port territory

SSOE1.2 Electrify the Port and generate renewable energy in Port territory

SSOE1.3 New knowledge, innovation and leisure services in the Port Vell

SSOE1.4 Promote the implementation of new automotive activities

SSOE1.5 Develop the Port as a maritime, European and peninsular railway hub

SSOE2 Differentiate the offer of services

SSOE2.1 Automate processes and intensive use of artificial intelligence

SSOE2.2 Enhance the transparency of processes, data and services for customers and society

SSOE2.3 Provide roads and water sheet with 5G wireless communications

SSOE2.4 Organise accesses and mobility

SSOE2.5 APB Telecommunications Plan

SSOE2.6 Make progress in organising and running rail activity

SSOE2.7 Create a public-private entity to promote intermodal solutions

SSOE2.8 Foster autonomous goods transport

SSOE2.9 Improve the competitiveness of Port / technical-nautical services

SSOE3 Attract logistics activity

SSOE3.1 Define competitive and differential logistics offers

SSOE3.2 Promote Barcelona internationally as a multi-country platform for emerging sectors

SSOE3.3 Activate logistics land

SSOE3.4 Orient logistics land bordering on the Port towards maritime traffic

SSOE4 Develop the necessary infrastructures

SSOE4.1 New Morrot - City Port

SSOE4.2 Enlarge and modernise the Adossat wharf

SSOE4.3 Improve access to the Adossat wharf

SSOE4.4 Refurbish the Energy wharf

SSOE4.5 Expand Prat Nord wharf

SSOE4.6 Concentrate container traffic in the enlargement area. Build Catalunya wharf

SSOE4.7 Modernise the facilities on Contradic wharf

SSOE4.8 Dredge the seabed of new Port infrastructures

Environmental Sustainability

SSOEN1 Develop a new energy model

SSOEN1.1 Port Energy Transition Master Plan

SSOEN1.2 Create an entity to manage the energy network

SSOEN1.3 Generate renewable energy on Port land

SSOEN2 Decarbonise maritime-port activity

SSOEN2.1 Electrify wharves (OPS)

SSOEN2.2 Promote the use of more sustainable fuels

SSOEN2.3 Foster use of electrical vehicles and equipment

SSOEN2.4 Promote efficiency and energy savings of APB buildings and Port concessions

SSOEN2.5 Foster the circular economy in the Port area

SSOEN3 Reduce pollution

SSOEN3.1 Increase calls of LNG-powered ships

SSOEN3.2 Provide incentives for calls by the most sustainable vessels

SSOEN3.3 Foster the sustainable mobility of all Port companies

SSOEN3.4 Improve the quality of Port waters

SSOEN4 Increase intermodality

SSOEN4.1 Complete digitalisation of rail mobility of containerised freight

SSOEN4.2 Launch of a regular nearby intermodal rail shuttle

SSOEN4.3 Develop regular rail services for agri-food dry bulks

SSOEN4.4 Build the East terminal, (replace Morrot) and the rail motorway terminal

SSOEN4.5 Start construction works on new road and rail accesses to south area

SSOEN4.6 Works to operate trains up to 750 metres long in Barcelona-Zaragoza corridor

SSOEN4.7 Equip the main inland terminals with new facilities and services

SSOEN4.8 Foster motorways of the sea

Social Sustainability

SSOS1 Foster training, employment, entrepreneurship and talent attraction

SSOS1.1 Create jobs in the Port sector by promoting the Blue Economy

SSOS1.2 Promote the development of quality sectoral training

SSOS1.3 Promote R&D+i in logistics-Port activity, generating an innovative ecosystem

SSOS1.4 Attract talent and generate knowledge

SSOS1.5 Foster international cooperation and public-private partnerships

SSOS2 Promote equal opportunities

SSOS2.1 Actively promote gender equality within the Port

SSOS2.2 Socio-occupational integration of people with disabilities and at risk of social exclusion

SSOS2.3 Provide truthful and transparent information

SSOS3 Integrate the Port into the urban and metropolitan environment

SSOS3.1 Adapt spaces of the Port Vell to the urban fabric and rethink the governance model

SSOS3.2 Improve Port permeability and mobility with the metropolitan environment

SSOS3.3 Promote Port culture and Port identity and foster knowledge of the Port among the populace

SSOS4 Ensure the health, safety and security of people and facilities

SSOS4.1 Improve industrial safety

SSOS4.2 Improve Port security

SSOS4.3 Enhance cybersecurity

SSOS4.4 Promote the health, well-being and safety of the Port's workforce

MAPS OF THE EVOLUTION OF USES OF THE PORT OF BARCELONA

2025





Energy transition

-  Renewable energy production
-  Short Sea Shipping
-  Rail terminal
-  Electrical substation
-  Onshore Power Supply
-  The Port is energy self-sufficient

Logistics and industry

-  Additive manufacturing (3D printing)
-  Port Centric Logistics
-  Urban Goods Distribution
-  Electric mobility
-  New activities




New modes of transport

-  Rail motorway terminal
-  Drones
-  Autonomous trucks in the Port
-  Autonomous vessels in the Port





2030

Infrastructure works

-  Ongoing infrastructure works
-  Completed infrastructure works
-  Consolidated actions

Knowledge and innovation

-  Knowledge & training hub
-  Blue Economy technology district

Port Vell 2021 – 2025

- 1 Fishermen's wharf
- 2 Sheds on Oriental wharf
- 3 Urban development of the new Rambla Marina Vela
- 4 Balcony on passeig de Colón



2040

Digitalisation

-  Operations with Digital Twin
-  Communications network 5G

- 5 Refurbishing the Espanya wharf
- 6 Port Center
- 7 Nautical bus
- 8 Innovation, knowledge and training node
- 9 National basin



Approximate location of the various actions

TIMELINE 2021—2025: REFERENCE PROJECTS

- Roll out the APB Telecommunications Plan
- Approve the Energy Transition Master Plan
- Maintain WPCAP (World Ports Climate Action Program) leadership
- Daily service for ro-ro transport with Morocco
- Increase the presence of women in the governing bodies of Port associations
- Complete the Port Center and interpretation centre
- Launch of the new Technical Security Office (OTS)
- Bring employment in Port Vell back up to pre-COVID levels
- Princep d'Espanya automotive concession (intermodal, electric, international and shared mobility)
- Perform works at 10 Barcelona-Zaragoza sidings to accommodate 750 m trains
- Increase continental railway traffic to generate synergies with railway-port traffic
- Create the Port's Energy entity
- Design of the project to double lanes on Adossat bridge
- Regular rail service running several times a day for agri-food bulks with Aragon / Catalonia
- TMZ terminal enlargement completed
- Nautical bus service to new mouth and the maritime ferry between Espanya and Fishermen's wharves.
- First prototype of Twin-Port available
- Build the wharf for a future ro-pax terminal on Adossat
- Design the Prat basin (wharf 38) and complete automation of container operations. Plan Catalunya wharf
- Close the Port of Barcelona's ring of public hydrants with underwater connection and appropriate flows
- Enlarge the wharf of alignment 36A to the north
- Refurbish Espanya wharf taking advantage of the cinema demolition
- Increase staff of the Cares Foundation working in the Port by 50%
- Rail shuttle with Port 2 (Vallès, Penedès)
- Start construction works on rail accesses
- New basin 35 for Port / technical-nautical services
- Generate more than 30 ha of green areas to connect the Baix Llobregat agricultural park with Montjuïc

2021

2025

- Set up the entity Barcelona Intermodal Solutions for short-range and international intermodal services
- Value propositions developed for five emerging sectors
- Approve an efficiency and energy-saving protocol for concessions
- Development Plan of the Port Centric Logistics of Barcelona
- Rebates and discounts by the APB to reward Port calls by non-fossil fuel powered ships
- Create the integrated logistics-port training centre as part of the knowledge, innovation and training hub at the Port of Barcelona
- Create a permanent structure dedicated exclusively to attracting logistics and distribution projects led by the Port of Barcelona
- Consolidate regular calls of container and ro-ro ships connected to the grid
- New facilities and Control Centre for the Port Police
- Promote the environmental vehicle quality assurance label in all companies in the Logistics-Port Community
- Implement the ROM 5.1 tool on coastal water quality
- Permanent presence of an LNG supply barge in the Port
- Consolidate the holding of the Smart Ports congress in Barcelona
- 5G network at the Port
- OCR in operation at a Port container terminal and an inland intermodal terminal
- Draft New Morrot project
- Construction projects for the East and Rail motorway terminals
- Transform logistics assets bordering the Port into spaces designed for maritime traffic
- Creating a new logistics park at the airport covering more than 100 ha
- New technological platform for Portic
- Implement the Centralised Traffic Control (CTC)
- Open a Knowledge & training hub (own building) - new RGD+i centre in logistics, the Blue Economy and sailing
- Completed construction of the Cerdà-Port electrical substation
- Installations on Contradic wharf for loading trains with agri-food bulks
- Create the renewable energy island for self-consumption on Fishermen's wharf
- Perform a pilot test for the supply of a clean (0 carbon) fuel
- First pilot test with a fully autonomous truck
- Create a Port Operating System (data platform and OpenAPIs)
- AI-based prototype for the management and provision of mobility services for people and passengers
- Dredging work at South entrance mouth and East seawall
- New berths for liquid bulk carriers at the Energy wharf
- Set up new areas for attention to and reception of crews
- Conceptualisation of the project to use the cold from the gasifier for conservation and freezing in warehouses

Port of Barcelona
Fourth Strategic Plan
2021 – 2025

Port vision 2040

For more information:

