

Port Marina Palamós



An aerial photograph of a coastal town and harbor. The town is built on a hillside overlooking the sea, with many buildings and greenery. The harbor is filled with numerous sailboats and yachts. In the background, there are mountains under a blue sky with some clouds.

Goals

Port responsible and committed to the environment

Safe, efficient and functional port adapted to the effects of climate change

Intelligent and innovative port. Diverse and competitive service offer

Port committed to the development of nautical sports

Port open to all, integrated and synergic throughout the municipality

The background image shows a harbor scene with several sailboats docked at a pier. In the foreground, there is a wide, paved walkway made of light-colored tiles. To the left of the walkway, there are some low-lying plants and a concrete curb. The sky is overcast with light clouds. The text is overlaid on a dark blue semi-transparent background.

RESPONSIBLE AND ENVIRONMENTALLY COMMITTED PORT

1. Reduction, control and mitigation of CO2 emissions
2. Responsible use of natural resources
3. Integral waste management and indoor water quality
4. Training and awareness raising
5. Regeneration of marine life

1. Reduction, control and mitigation of CO2 emissions:

- Generation of renewable energies with the objective of achieving the Port's energy sustainability
- Promotion of the use of electric or hybrid propulsion vessels: adaptation of moorings, specific tariff policy, etc.
- Periodic inventory of direct and indirect CO2 emissions from Port activities and subsequent dissemination
- Offsetting emissions: Creation of landscaped areas. Planting of high CO2 absorption capacity mesh panels in the recertification areas
- Promotion of sustainable mobility: Installation of charging towers for electric or hybrid vehicles in the parking lot. 100% sustainable mobility for port staff (electric bicycles and skateboards). Rental base for electric bicycles

2. Responsible use of natural resources:

- New economic model and supply services: Control, information and payment by consumption for the promotion of the rational use of resources
- Supply networks monitored both for the reduction of transport and channeling losses and to implement preventive maintenance
- Parallel rainwater network: recovered for irrigation and other uses
- Night lighting systems: 100% led and other efficiency measures: light flow diffusers, presence detectors, timers, ignition with astronomical clocks, etc.

3. Comprehensive waste management and internal water quality:

- **Creation of a central waste park** that guarantees its minimization and classification
- **Door-to-door collection of waste** generated by restaurant premises and in the maintenance of chartered boats
- **Installation of two new bilge water and black water** suction equipment for free public use
- **Monitoring** with climate, bathymetric and inland water quality data sensors
- **Program** for monitoring the quality of the seabed of the internal waters of the Port. Scheduling of periodic fund cleanings

4. Training and awareness:

- **Continuous staff training**, new additions to complement the knowledge needed for future management
- **Dissemination of the environmental management system** to third party professionals in the technical area, boats and restaurant premises. Edition of manuals of specific good practices
- **Natural resource consumption awareness campaigns** for all users of the Port. Use of new media (web, XXSS) for real-time dissemination
- **Promotion of responsible navigation**: Collaboration with entities dedicated to the preservation of the marine environment. Installation of free anchoring buoys

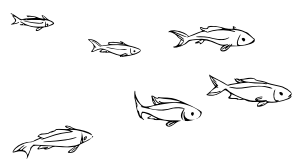
5. Regeneration of marine life

From 2021, we began to collaborate with the Start-Up Ocean Ecostructures, a company specialized in the development of technological solutions for the regeneration of marine life, helping to compensate and neutralize the impact of human activities on ocean

The company has developed a multi-technology solution called the Life Boosting Unit (LBU) which consists of a state-of-the-art biomimetic microarray specifically designed to be installed in marine structures. The objective is to monitor the colonization and subsequent ecological succession to the regeneration structures. the regeneration of marine life, helping to offset and neutralize the impact of human activities on the ocean

ANNUAL MONITORING REPORT 2023 2023

Throughout the year 2023, 135% more species are observed in the LBU than in the control walls (176 species compared to 75).



Regarding the animal and plant communities formed in the LBU, we find a great variety of groups and species that help to achieve a naturalized ecosystem, since most of the ecological functions are fulfilled.

70% of the species found in LBU structures are native to the Mediterranean.

The monthly average of CO₂ captured by all LBUs during the year 2023 is 25.07 kg per month.

CO₂



Cratena peregrina



Thuridilla hopei



Serranus cabrilla



Tripterygion delaisi





SAFE PORT AND ADAPTED TO THE EFFECTS OF CLIMATE CHANGE, EFFICIENT AND FUNCTIONAL

1. Improvement of security, protection and agitation
2. Functionality and optimization of the water mirror



1. Improvement of security, protection and agitation:

All the action proposals are framed within the area of assignment of the concessioned waters. The actions are those recommended by the agitation and overtaking study

1. Improvement of security, protection and agitation

Construction along the dyke of the outer berm at elevation 0 to mitigate the overtopping of waves

Creation of internal docks with turbulence dissipating elements

Extension of the shelter dyke and reinforcement of the breakwater, strengthening protection and reducing internal agitation in episodes of south, southwest winds

Other actions recommended in the update of overpass and agitation studies according to climate data from past storms

2. Functionality and optimization of the water mirror

Relocation of the gas station to a new inner dock

Installation of digitized turrets: improved management and reduced consumption

Creation of a charter/boatsharing area for boats and for diving center activities. Facilities

New fingers adapted to episodes of agitation due to storms

Acquisition of travel-lift up to 50 tons and a new lifting device



New intelligent access control system.
Zoned and flexible parking to optimize occupancy

New installation of anchor lines and boat mooring systems

Improvement of existing buildings with environmental, functional and landscape integration criteria

New automated dry dock

New electricity and water installation:
intelligent and sectorized network to make consumption control and preventive maintenance possible

SMART AND INNOVATIVE PORT WITH A DIVERSE AND COMPETITIVE OFFER OF SERVICES

1. Expansion of the range of services

New charter/boatsharing, diving and light sailing area

New internal promenade that will provide continuity to the new Camí de ronda of Palamós

New pedestrian access from the municipality

An aerial photograph of a coastal town and harbor. The town is built on a hillside overlooking the sea, with numerous buildings and a parking lot. The harbor is filled with many small boats and yachts. The sea is blue and calm. The sky is blue with some clouds. Four dark blue rounded rectangular boxes with white text are overlaid on the image.

New access from the municipality: panoramic lift

New flexible and zoned parking system

Digital access to services, information and port-user communication (web)

Parking adapted to electric vehicles

2. SMART AND INNOVATIVE PORT

Intelligent water and electricity networks. Towers monitored with means to obtain information to facilitate management, preventive maintenance, control and reduction of consumption

Digitization and new flexible parking system

Integration of operational information in real-time management systems, introducing new user relationship systems based on new technologies

An aerial photograph of a coastal town and harbor. The town is built on a hillside overlooking the sea, with numerous buildings and a road visible. The harbor is filled with many small boats and yachts. A dark blue semi-transparent overlay covers the middle of the image, containing three lines of white text.

Optimization of port operations

Sensors for presence, quality control and analysis of meteorological factors integrated into the Port Management System

Use of the most advanced technologies to ensure communication with Port users

An aerial photograph of Marina Palamós, showing a large harbor filled with numerous sailboats and motorboats. The marina is bordered by a rocky breakwater on the right. In the background, a coastal town with white buildings and red-tiled roofs is visible, situated on a hillside overlooking the sea. The sky is blue with scattered white clouds.

New HUB Marina Palamós for Innovation applied to sports boating and port management

Center for the incubation of free-to-use ideas in the port service area

Annual award call for entrepreneurs and investors

Capital investment in selected projects

An aerial photograph of a coastal town and harbor. The town is built on a hillside overlooking the sea, with numerous buildings and a winding road. The harbor is filled with many sailboats and yachts. The sky is blue with some clouds.

Areas of interest:

- Energy self-sustainability of Marinas
- Electric mobility at sea
- Digitization of services and port management
- Promotion of nautical activities
- Environmental management: reduction of consumption, carbon footprint mitigation, improvement of water management and quality

Project to be developed with collaborations of entities dedicated to scientific research, with Universities, with the nautical sector, and with entrepreneurs and investors in venture capital for innovation



PORT COMMITTED TO THE DEVELOPMENT OF SPORTS BOATING

Generation of an important offer of nautical tourism for the municipality

Nautical school Professional and recreational qualifications

Creation of charter and boat sharing area

Cruise sailing school



Base for the practice of light sailing, jet skis and kayaks

New modules to host catering and other activities

Creation of an area dedicated to diving equipped with suitable facilities and with sufficient capacity to accommodate the users of the 3 existing Diving Centers in the Port

Organization of competitions related to nautical sports: jet ski, diving trips, regattas, diving and snorkeling courses, kayak courses and excursions

PORT OPEN TO EVERYONE. INTEGRATED AND SYNERGIC WITH THE MUNICIPALITY

1. PORT-MUNICIPALITY INTEGRATION PROJECT

Open port with free and universal access

Opening of 4 new pedestrian accesses from the municipality

New panoramic elevator to overcome the barrier caused by the existing difference in level between the center of the municipality and the service area of the port



Access to the Palamos - La Fosca cycle path.
Platja de Castell, written by Palamós City Council

Improvement of the access road to Morro del
Vedell Beach

New inner promenade open to the public with
new restaurant and recreation areas

2. PROMOTION OF ECONOMIC AND TOURIST ACTIVITY

Management of the technical zone as a generating center of industrial activity for the municipality

- Open to all types of boats whether or not they use the Port
- Open to all types of maintenance companies, registered on the ACPET platform

The background image shows a coastal town scene. On the left, there are white buildings with red-tiled roofs. In the center, a paved area with parked cars and a red scooter is visible. On the right, a harbor with several boats and a red lifebuoy is shown. The sky is blue with some clouds.

Promotion of nautical tourism and Palamós as a tourist destination in close collaboration with the Tourism and Economic Activity Area of Palamós City Council

Celebration of events aimed at the population of the territory: Nautical Fair, Costa Brava rally, Sports races, charity concerts

The background image shows a coastal town scene. On the left, there are white buildings with red-tiled roofs and a red car parked. In the center, a paved area with parked cars and some greenery is visible. On the right, a harbor with several boats docked at a pier is shown. The sky is blue with some light clouds.

Signing of collaboration agreements with entities and foundations

dedicated to activities related to **sustainability in nautical sports**: whale watching, ocean rowing, observation of the marine environment and with the Palamós City Council's Environmental Department for coastal management

Support initiatives for **social entities** and especially those dedicated to the social and labor integration of people with disabilities and social and youth inclusion