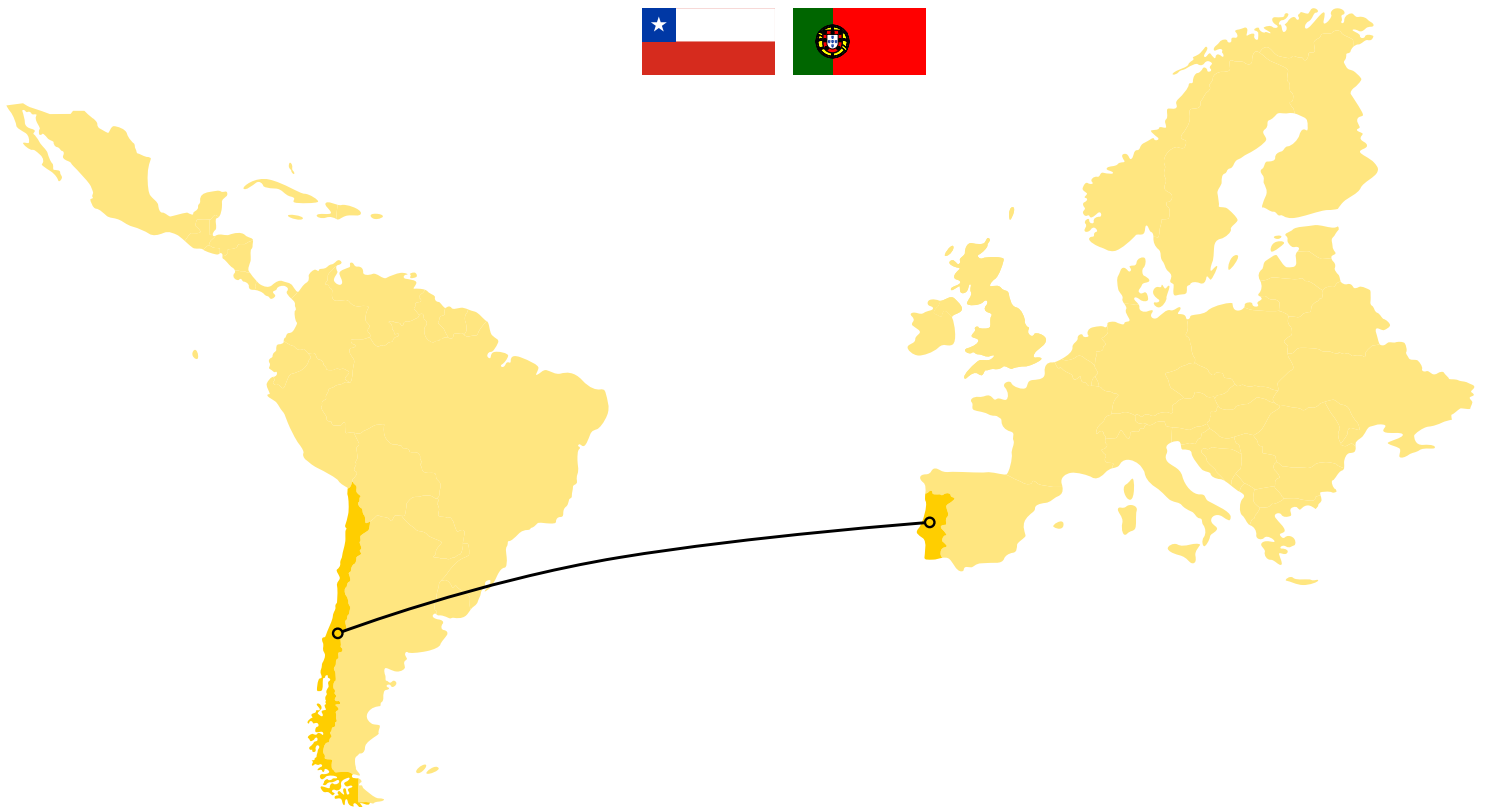




INSPIRATIONAL  
CASE

# PAIRING REPORT:

VILLA DEL MAR - ALMADA



INTERNATIONAL URBAN COOPERATION  
European Union-Latin America and the Caribbean



A European Union  
Programme

# VIÑA DEL MAR - ALMADA

## THE PAIRING AT A GLANCE

### Viña del Mar (CL):

Viña del Mar is a city and commune on central Chile's Pacific coast. It is located within the Valparaíso Region, and it is Chile's fourth largest city. It is also part of the Greater Valparaíso area, home to five municipalities. Viña del Mar has a 12 km long coastline valued as one of the most important tourist attractions in the country. Historically, the city had an industrial past due to its proximity to the port of Valparaíso, however in the 1980s the gradual reconversion of the city took place, acquiring relevance activities related to services, residence, tourism and Education.

### Almada (PT):

Located on the edge of the Tejo river, in front of Lisbon, Almada is one of the 18 municipalities in the Lisbon metropolitan area. Despite the predominantly urban characteristics, Almada manages to preserve 25% of its territory as a protected natural area of great natural wealth and biodiversity. Almada borders with water to north and east (Rio do Tejo) and west (Atlantic Ocean): the Atlantic coast of Almada stretches for about 13 km and has several sandy beaches and panoramic vistas. The city is considered a transportation hub and a fast-growing area.

### Keywords

#Coastal resilience

#Climate Change adaptation and mitigation

### Thematic areas of cooperation

**Integrated management of coastal areas**

### Objetivos

**Viña del Mar** has become the center of the Greater Valparaíso metropolitan area and the most important city in the region. This has resulted in an increase of the pressures on the city and has generated impacts on the consolidated areas, and on the natural and built heritage. Furthermore, the city is prone to natural disasters such as earthquakes, tsunamis, storm surges and fires.

For its part, the Municipality of **Almada** has a long experience in the area of ecologically based solutions. The city has managed to preserve 25% of its territory as a protected natural area of great natural wealth and biodiversity. Almada's vision is based on its Local Development Strategy. In recent years, the Municipality has developed its Green / Blue infrastructure as well based on ecosystem services.

Considering the common challenges that both cities face regarding coastal resilience, climate change and biodiversity, the objectives in the joint action plan are:

- **Exchange of planning experiences that incorporate integrated management of coastal zones.**
- **Sharing knowledge about multifunctional coastal protection projects, involving the** ecological restoration of coastal ecosystems.
- Sharing scientific approaches for establishing an **early warning system for marine flooding and overtopping.**

## Activities

Two study visits were planned by the cities but had to be cancelled due to Covid-19. However, the cities have continued their cooperation via virtual meetings where they have discussed how to adapt good practices of the peer-city to their context.

In the field of **coastal planning**, both cities have actively collaborated in sharing technical and management knowledge. Almada has shared the scientific approach used in the modeling of Threatened Zones by the Sea (ZAM) for 50 and 100 years, developed in partnership with the Faculty of Sciences of the University of Lisbon (Geology), a pioneering work in Portugal which was later adopted by the Portuguese Environment Agency for the preparation of Coastal Land Management Plans in Portugal. On the other hand, Viña del Mar has shared the "Methodological guide to risk analysis on the LAC coast in the face of climate change", currently being developed in cooperation with the University of Valparaiso within the framework of the project "Risk management linked to climate change on the coasts of Latin America and the Caribbean".

## Stakeholders involved

- **Municipalities**
- **Universities**
- **Chilean Ministry of Public Construction - Directorate of Port Works**
- **Chilean Centre for Climate and Resilience Science**
- **Portuguese Environment Agency**
- **Citizens**

## MAIN INTERVENTION-PILOT PROJECT

Joint development of a **manual for planning and integrated management of coastal areas** based on the scientific approach used in Almada for Marine Threatened Areas (MEAs) at 50 and 100 years, projecting the effects of climate change scenarios; and on the "Methodological guide for risk analysis on the LAC coast in the face of climate change", currently being developed by the University of Valparaiso in the framework of the project "Risk management linked to climate change on the coasts of Latin America and the Caribbean".

**Proposal for sediment management (differentiated for the different beaches of Viña del Mar)**, aiming at

In relation with the **ecological restoration of the coastal ecosystems**, Almada will share with Viña del Mar its experience in the development of the ReDUNA project, which aims at the maintenance and recovery of dune systems, through the fixation of sands by indigenous plants. This project, despite the different characteristics of the coastline, can be adapted to Viña del Mar local conditions for the recovery and maintenance of sand beaches and ecosystems

Finally, Viña del Mar will share its experience in the development of the **early warning system for marine flooding and overtopping** to be used and adapted to the local conditions of Almada. Being these extreme weather phenomena likely to be increasingly frequent in coastal urban environments in a context of climatic evolution, this experience is very helpful for the elaboration of urban development plans in coastal areas.

maintaining or recovering the sand resource, and based on Almada's ReDUNA project.

**Establishment of an early warning system for floods and marine gales in Almada based on the early warning system for swells developed in Viña del Mar** and incorporating scientific outputs and methodologies with the assistance of universities and statistical bodies. With this exchange both cities expect to inspire their counterparts to jointly improve and develop new alternatives and technologies to meet the climate change-related challenges in coastal areas.

## MAIN IMPACTS AT LOCAL LEVEL

The main impact of the Program identified by the cities concerns the positive effect that this cooperation has had in **boosting and strengthening the public-academic link, in both cases.**

Furthermore, **the need to exchange ideas to generate an integrated environmental management plan to guide ongoing initiatives at the local level** was also identified as a valuable lesson learned by both cities.



## LESSONS LEARNED AND ADDED-VALUE OF IUC

"The City-to-city cooperation IUC Program has allowed us to know and understand new methods for sustainable planning, applied at different scales of intervention. The support that the program offers through its professional team has meant a valuable guide that favors the creation of opportunities. We have always felt supported in the work we have done with our European partners".

- Vià del Mar

## CONTRIBUTION TO INTERNATIONAL FRAMEWORKS

Related SDGs and Urban Agenda for the EU topics:

**11** SUSTAINABLE CITIES AND COMMUNITIES



**13** CLIMATE ACTION



**Urban Agenda for the EU:** Sustainable use of Land & Nature-Based-Solutions.

## INTERÉS EN FUTURAS REDES TEMÁTICAS

Interés mostrado por **Viña del Mar** tanto en el Plan de Acción como en la encuesta realizada por el Programa

Interés mostrado por **Almada** tanto en el Plan de Acción como en la encuesta realizada por el Programa

<b>NETWORK 1</b>	Mobility, Connectivity and Transport	<b>NETWORK 1</b>	Mobility, Connectivity and Transport
<b>NETWORK 2</b>	Smart Cities & Digital Transition	<b>NETWORK 2</b>	Smart Cities & Digital Transition
<b>NETWORK 3</b>	Urban Poverty and Regeneration, Housing, Social Inclusion – Cohesion, Equity	<b>NETWORK 3</b>	Urban Poverty and Regeneration, Housing, Social Inclusion – Cohesion, Equity
<b>NETWORK 4</b>	Circular Economy, Waste and Sustainable Production / Consumption	<b>NETWORK 4</b>	Circular Economy, Waste and Sustainable Production / Consumption
<b>NETWORK 5</b>	Sustainable and Healthy Cities, Sustainable Land Use – Nature-Based Solutions	<b>NETWORK 5</b>	Sustainable and Healthy Cities, Sustainable Land Use – Nature-Based Solutions
<b>NETWORK 6</b>	Climate Action, Energy, Water and Air Quality	<b>NETWORK 6</b>	Climate Action, Energy, Water and Air Quality
<b>NETWORK 7</b>	Innovation and Economic Growth, Strategic Sectors, Jobs and Skills.	<b>NETWORK 7</b>	Innovation and Economic Growth, Strategic Sectors, Jobs and Skills

## ACKNOWLEDGEMENTS:

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