

16TH INTERNATIONAL CONFERENCE LITTORAL22  
12 – 16 SEPTEMBER 2022 @ COSTA DA CAPARICA, PORTUGAL

# BOOK OF ABSTRACTS



16<sup>TH</sup> INTERNATIONAL CONFERENCE  
**LITTORAL 22**  
12 - 16 SEPTEMBER | COSTA DA CAPARICA, PORTUGAL  
ADAPT OUR COAST FOR A SUSTAINABLE FUTURE



## Title

16<sup>th</sup> International Conference Littoral22 Book of Abstracts

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Abstracts are organized by chronological order of presentation.

December 2022





## COASTAL COLLABORATIVE COMMUNITIES OF CHANGE

Coastal areas are very dynamic ecosystems that have been crucial for human activities for centuries. With the increase of population density in coastal areas, several environmental problems arise, namely pollution, overfishing and habitats degradation, among others, causing losses in biodiversity and ecosystem services.

Besides the pressures caused by humans, coastal areas and its communities are also exposed to extreme events, that endanger population and coastal infrastructures, causing economic and environmental losses. Climate Change will aggravate these issues. In fact, according to the Intergovernmental Panel on Climate Change, sea-level will rise in the next century, and storms will become more energetic and violent, with increased frequency. This will increase the risk of overtopping and flooding, as well as the damage and destruction of structures and dune erosion.

Urgency to act combined with the large-scale societal changes call for new solutions in every sphere of our societies. For this reason, the Littoral22 conference was a multidisciplinary event that aimed at addressing these issues in an integrative and comprehensive manner. This conference brought together delegates from 27 countries to collaborate and discuss the most current coastal research studies and projects.

The discussions and knowledge that emerged from the conference represent an invaluable resource for coastal scientists, engineers, and managers and are all compiled into this Book of Abstracts.

Besides the Book of Abstracts, [the Costa da Caparica commitment](#), developed in partnership with Coastal and Marine Union (EUCC), MARE – Marine and Environmental Sciences Centre/ARNET – Aquatic Research Network, and the Municipality of Almada, was one of the main products of the Littoral22 Conference, and should be an example for coastal collaborative communities of change worldwide.

# ADAPTING FOR A SUSTAINABLE FUTURE

## COSTA DA CAPARICA COMMITMENT

The excellence of the works presented and discussed allowed the organizing commission to collect a set of principles, from which the seven key ones were selected and named "Costa da Caparica Commitment for Local Climate Action - Commitments for a coastal community sustainable, resilient and adapted to climate challenges".

The principles, fully aligned with the United Nations Sustainable Development Goals (SDGs) are:

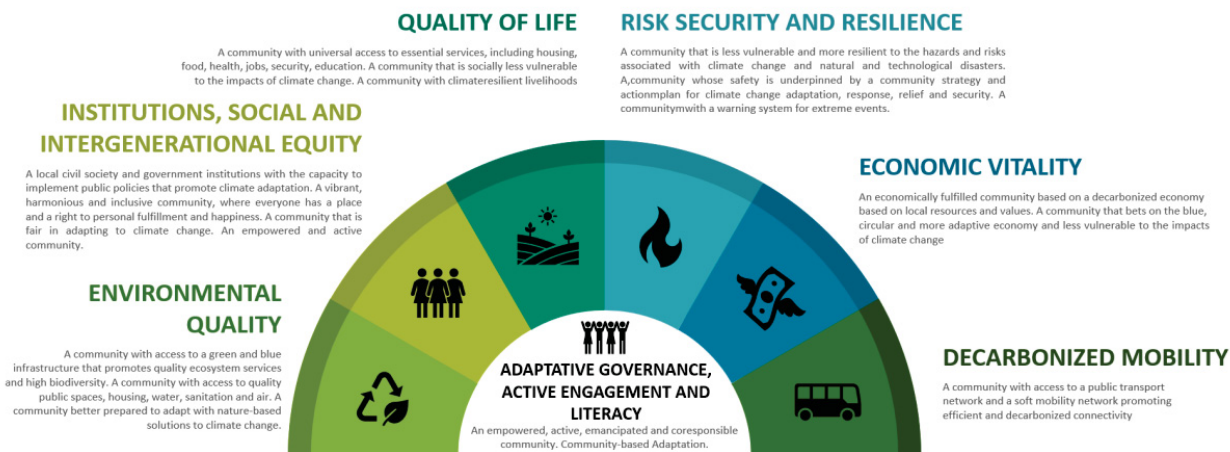
1. Quality of life
2. Resilience to hazards and security
3. Institutions, social and intergenerational equity
4. Economic Vitality
5. Decarbonised mobility
6. Environmental quality

The Commitment was approved in plenary at the closing session of Littoral22, by the delegates present and by the representatives of the City Council of Almada, FCT NOVA, MARE/ARNET, and EUCC.

## Costa da Caparica Commitment

### COASTAL COLLABORATIVE COMMUNITIES OF CHANGE

#### ADAPTING FOR A SUSTAINABLE FUTURE



**José Carlos Ferreira**  
 NOVA University Lisbon / ARNET / MARE  
 (Chair of the Organizing Committee)



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