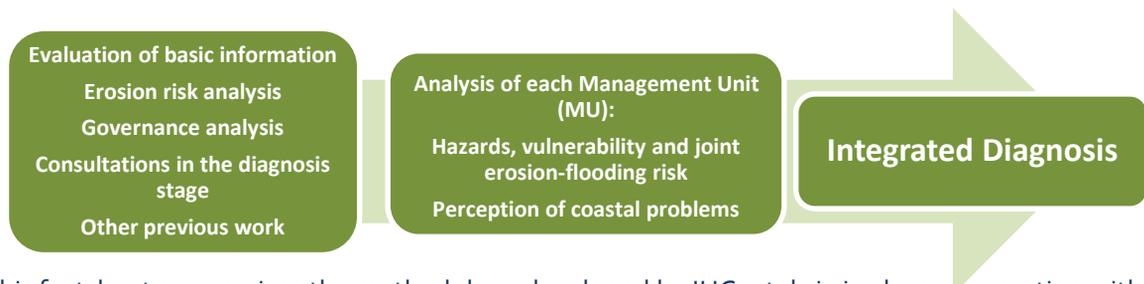


STRATEGY FOR COASTAL PROTECTION OF THE BALEARIC ISLANDS CONSIDERING THE EFFECTS OF CLIMATE CHANGE Integrated Diagnosis: Methodology Summary

The development of the Strategy for Coastal Protection of the Balearic Islands Considering the Effects of Climate Change is an initiative funded by the European Union's Structural Reform Support Programme (SRSP), at the request of the Spanish Ministry for the Ecological Transition and Demographic Challenge's (MITECO) Directorate General for the Coast and the Sea (DGCM). The objective of the Strategy is to apply an integrated approach, taking into account the physical, environmental and institutional factors that are interrelated with the evolution of the coastline, the risk of flooding, occupations in the public domain, erosion problems and the effects of climate change, in order to identify the most appropriate coastal protection measures for the Balearic Islands.

The starting point for developing the Strategies is the correct diagnosis of the coastal situation on all 6 islands taken into consideration, in efforts to understand and characterise the problems from a comprehensive perspective and with a coastal risk analysis-based focus.

The compilation of the integrated diagnosis relies to a great extent on previous work done for the development of the Strategies.



This factsheet summarises the methodology developed by IHCantabria in close cooperation with the DGCM. The integrated diagnosis analyses two issues at the level of each Management Unit (MU)* into which the coastline of the 6 islands has been divided (78 on Majorca, 35 on Menorca, 42 on Ibiza, 17 on Formentera, 2 on Cabrera and 2 on Dragonera).

- 1. Analysis of the hazard, vulnerability and risk** of coastal erosion and of combined erosion and flooding for the coastal system as a whole and for each of the following sub-systems: human environment, natural environment, socio-economic environment and critical infrastructure.

In line with the concepts defined by the IPCC** and adopted in the Strategy for the Adaptation of the Spanish Coast to Climate Change, risk is conceived as the potential negative consequences of a particular threat. The threats taken into account in the analysis are coastal erosion and flooding, through the dynamic interaction of hazard and vulnerability.



The level of risk and its components (hazard and vulnerability) are measured on a 6-level scale ranging from none to very high.

2. **Analysis of the perception of the coastal problems** by the DGCM and 20 other relevant local actors from the 66 invited to the consultation meeting, performed via an online survey taken in November and December 2020. The perceived problems are classified into the following categories and types:

Level
None
Very low
Low
Medium
High
Very high

Category		Type
Hazard		1. Coastal erosion
Hazard		2. Coastal flooding
Effects of erosion	On the human environment	3. On the resident population
		4. On the visiting population
	On the natural environment	5. On the beaches
		6. On the dunes
		7. On the cliffs
		8. On other natural areas
	On the socio-economic environment	9. On the urban area
		10. On economic activities
		11. On the built-up coastline
		12. On occupied maritime and terrestrial public domain (DMPT)
		13. On critical infrastructure
Other coastal problems		14. Governance problems
Physical damage	15. To people	
	16. To moorings	
Environmental damage	17. Litter	
	18. Accumulation of seaweed	
	19. Water quality	

Each perceived coastal problem has been assigned a score based on a 4-level severity scale ranging from no effect to very severe.

Level
No effect
Slight
Moderate
Severe

*See fact sheet on the Evaluation of the basic information and identification of coastal units

**IPCC, 2019: Annex I: Glossary [Weyer, N.M. (ed.)]. In: IPCC Special Report on the Ocean and Cryosphere in a Changing Climate [H.O. Pörtner, D.C. Roberts, V. Masson-Delmotte, P. Zhai, M. Tignor, E. Poloczanska, K. Mintenbeck, A. Alegría, M. Nicolai, A. Okem, J. Petzold, B. Rama, N.M. Weyer (eds.)]. In Press

For more information: <https://www.miteco.gob.es/es/costas/temas/proteccion-costa/estrategias-proteccion-costa/>
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