

Partners



ECOSTRUCTURE

Climate Change Adaptation through
Ecologically Sensitive Coastal Infrastructure

Funding

ECOSTRUCTURE is part funded by the European Regional Development Fund (ERDF) through the Ireland Wales



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*The project at a
glance...*

*Providing eco-engineering
solutions to meet the challenge of
adapting coastal infrastructures
to climate change*

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- Testing eco-engineering designs to promote biodiversity on artificial marine structures.
- Promoting the incorporation of ecological and societal benefits in coastal structures.
- Stakeholder focused tools and resources to inform ecologically-sensitive design of artificial coastal structures.



Project Information

Project Duration	50 months
Start Date	March 2017
End Date	April 2021
Total Partners	5
Lead Partner	Aberystwyth University
Total Project Cost	€4,071,496
Funding	Part-funded by the European Regional Development Fund (ERDF) through the Ireland Wales Cooperation Programme 2014-2020

The project aims to maximise the ecological value of coastal structures in terms of natural capital and green infrastructure by:

- ✓ Identifying the factors that shape the biodiversity and ecosystem services supported by artificial structures in the Irish Sea, to inform our ability to predict the effect of new structures in the coastal environment.
- ✓ Developing a catalogue of eco-engineering solutions to promote biodiversity on artificial marine and coastal structures, involving the collation of evidence from around the world and introducing new evidence from novel design trials in the Irish Sea.



- ✓ Investigating the distribution patterns and genetic structure of non-native species in relation to artificial structures, to inform our understanding of mechanisms by which these structures facilitate the introduction and spread of non-native species.
- ✓ Assessing local community perceptions and needs in relation to coastal defence structures, to emphasise positive effects of new and existing developments.
- ✓ Exploring the potential global market for eco-engineering enterprises, with the aim of establishing Welsh and Irish enterprises as world leaders in this field.