

KEYZONES

To Investigate the Sustainable Carrying Capacities of Key European Coastal Zones

Contract (Framework 6) COOP - CT-2004 -512664



 This project deals with the characterisation of the carrying capacity of some key European coastal zones for commercial production of bivalve shellfish.



 The research was designed to produce powerful tools which would enable shellfish producers in the targeted areas to assess resource capacity, recruitment of young stock, and model the effects of environmental change.



 The work will also increase the scope and credibility of generic, ecosystem models with a consequent application to the wider industry and other stakeholders in coastal zones.



THE PARTNERS

Small Businesses (SMEs)

North Bay Shellfish Ltd (Scotland, UK), Caledonian Oysters Ltd (Scotland, UK), Art Cornelisse (Netherlands, Clew Bay Marine Forum (Ireland)

Trade Associations

Association of Scottish Shellfish Growers (Scotland, UK), P O Mossel (Netherlands), P Oesters (Netherlands), South East Shellfish Cooperative (Ireland)

Specialist Research Providers

Plymouth Marine Laboratory (UK), IMARES (Netherlands), IMAR (Portugal), WLDELFT (Netherlands)



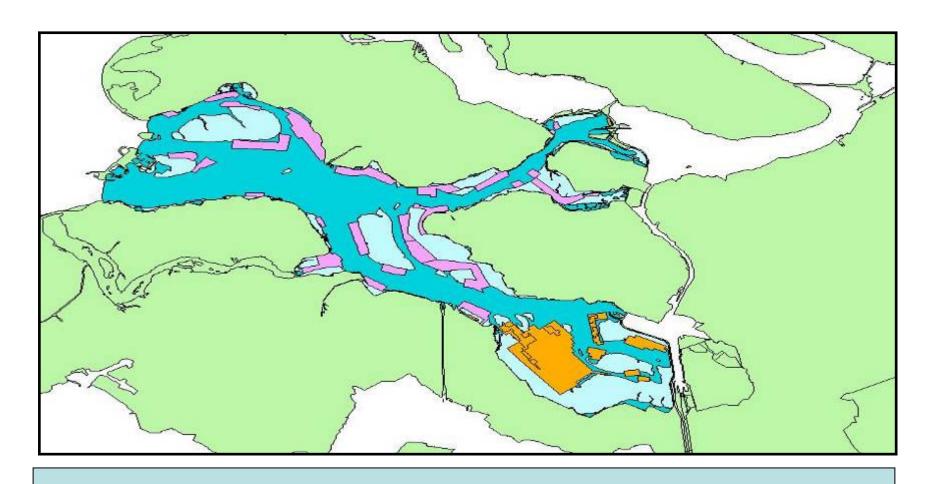
The Study Areas

Loch Creran - Scotland



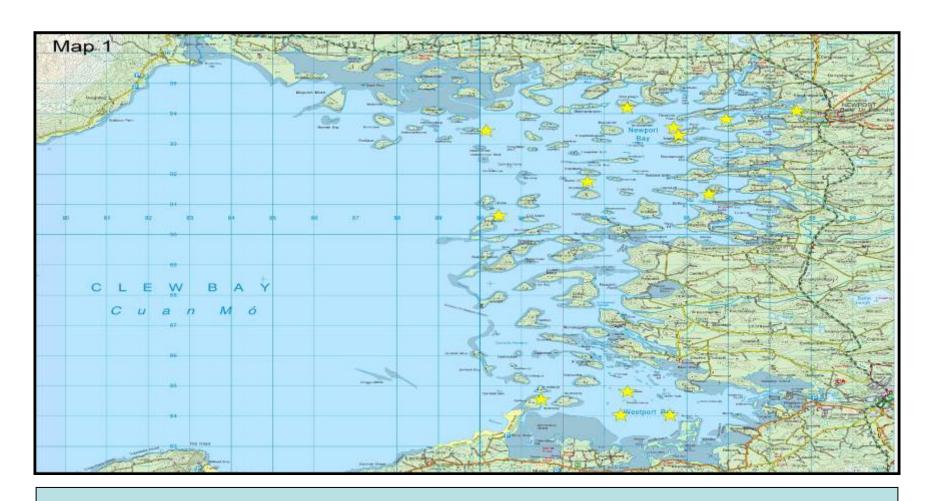
Sample sites (red dots); Aquaculture (rectangles)

Oosterschelde - Netherlands



Showing mussel and oyster cultivation areas

Clew Bay – W Ireland



Showing shellfish cultivation areas (yellow stars)



RESULTS of the Project (Interim)

Clew Bay

A model to simulate some farm scale outcomes to a range of variables

An example of a wider environmental model



RESULTS of the Project (Interim)

Loch Creran

An ecosystem model to look at the whole system



RESULTS of the Project (Interim)

Oosterschelde (In progress)

A series of 3 scenarios modelled using a coupled hydrodynamic/ecosystem model



FINAL GOAL

SUSTAINABLE AQUACULTURE/FISHERIES

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