

*How policy coherence may be
addressed across policy domains*

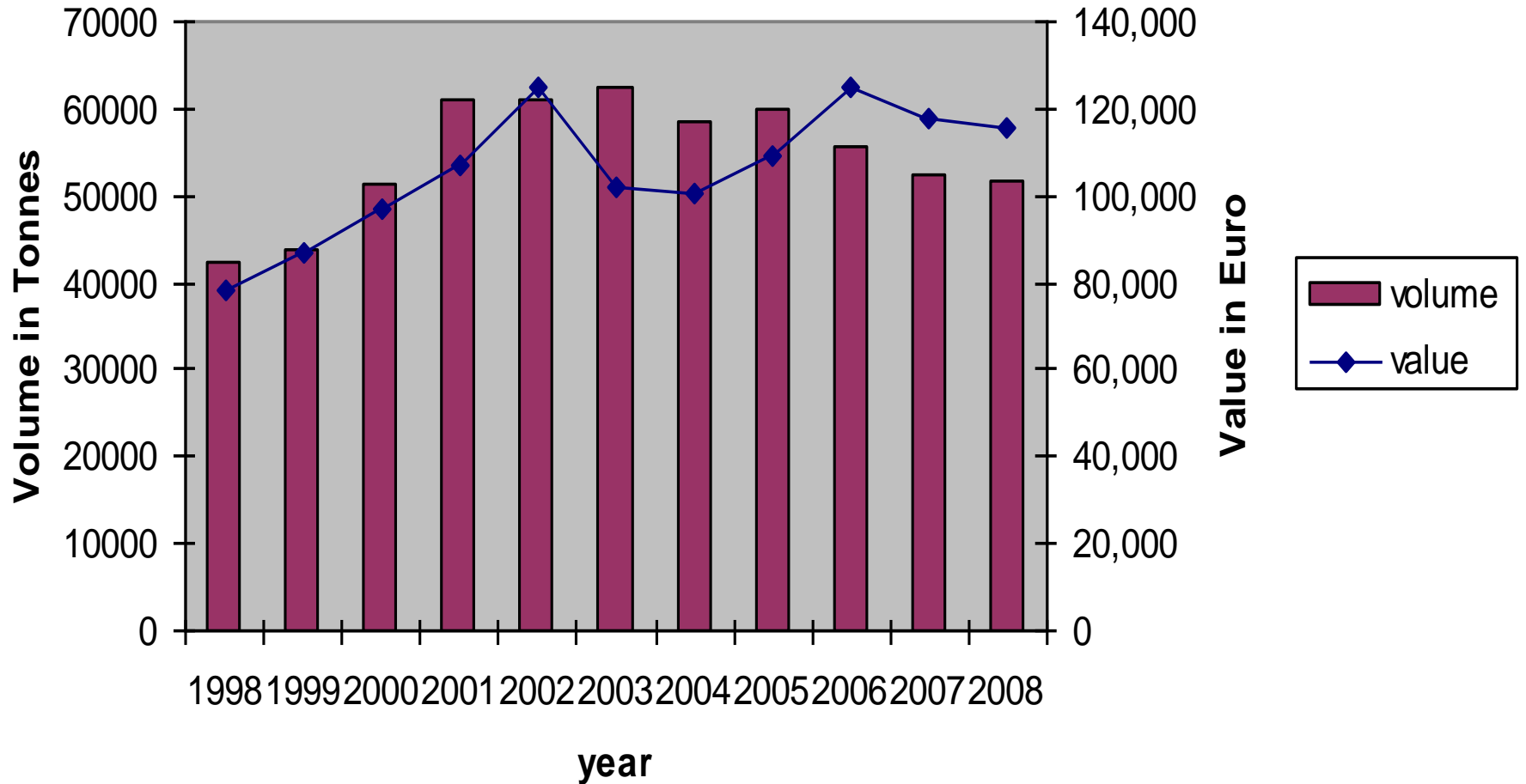
Ireland's Approach in Aquaculture

Donal Maguire
Director, Aquaculture Development
Irish Sea Fisheries Board

Irish Aquaculture 2008

- Finfish Production: 12,750 Tonnes
- Shellfish Production: 38,300 Tonnes
- 1'st sale value € 105 million per annum
- Total Aquaculture employment:
 - Directly employed (FTE): 1250
 - Induced employment: 1575
 - Total Employment: 2825

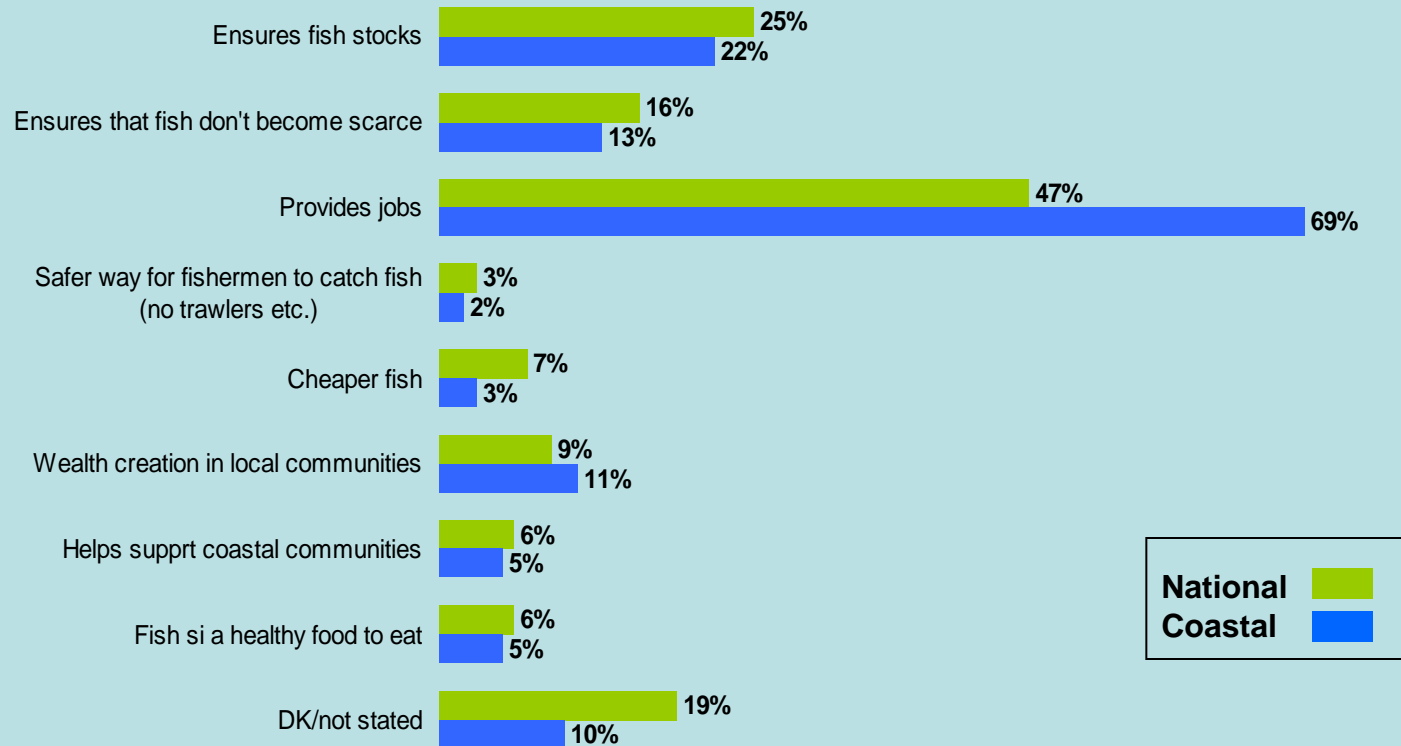
Irish Aquaculture Production



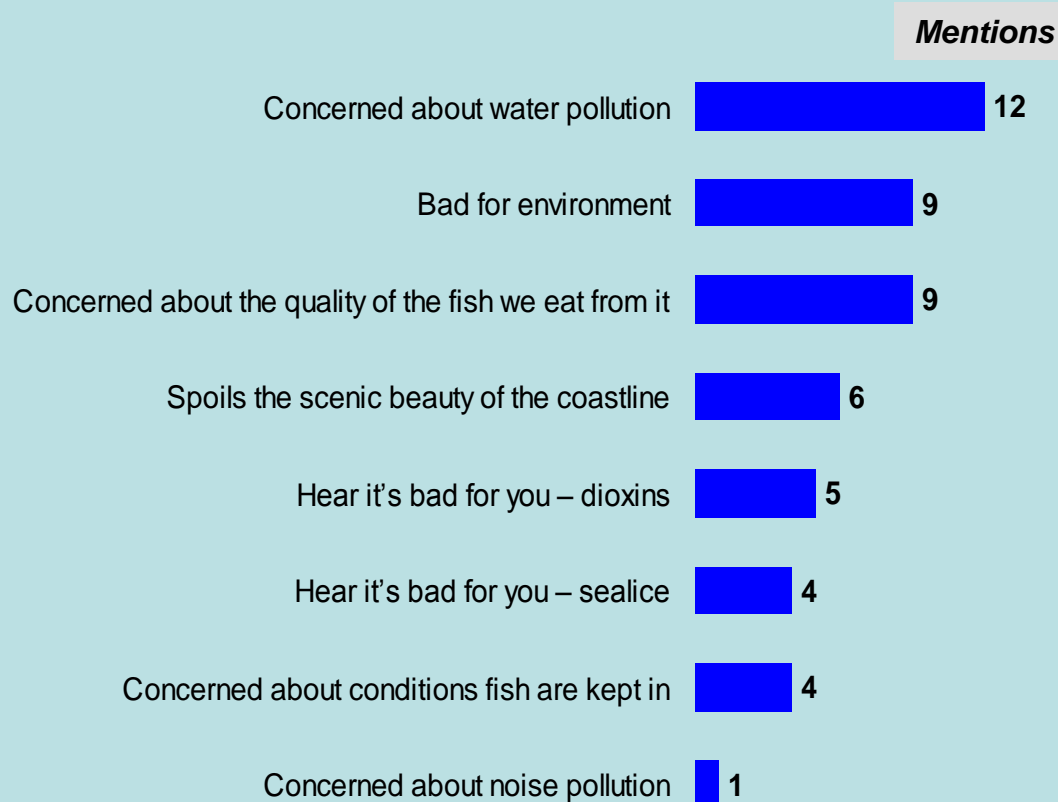
Prospects for Irish Aquaculture 2020 projections

- An Extra 47,000 metric tonnes of output per annum
- An extra 1500 FTE jobs (direct & induced)
- A boost in first sale value of the sector €140 million per annum (at 2010 prices and money value)

REASONS FOR ACCEPTANCE OF LOCAL FISH FARM



WHY ARE YOU AGAINST THE FISH FARM IN YOUR AREA





CLAMS

Co-Ordinated

Local

Aquaculture

Management

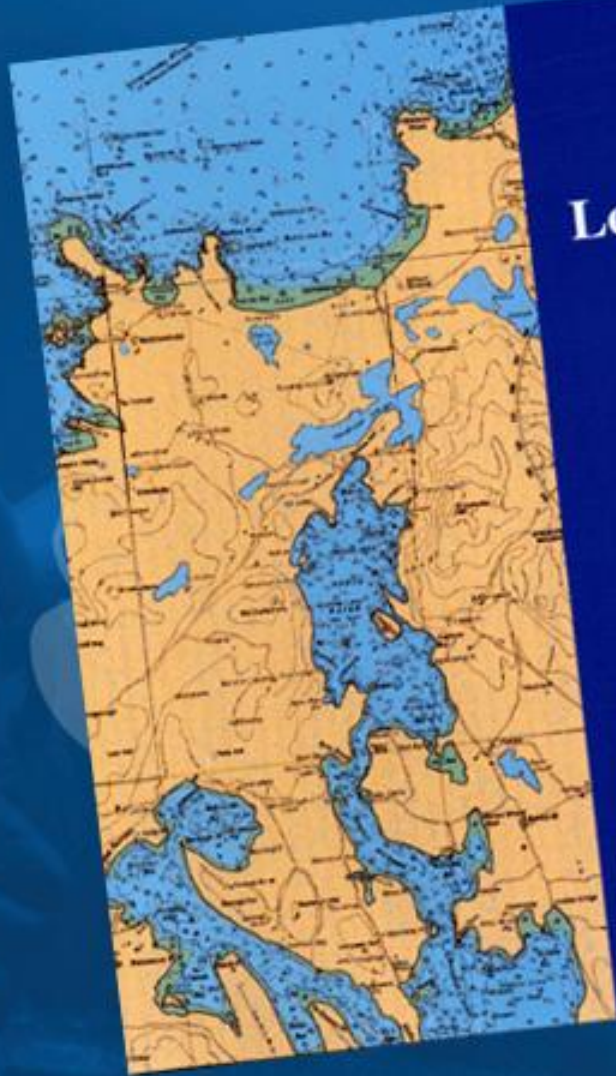
System



Co-ordinated Local Aquaculture Management Systems

C.L.A.M.S.

EXPLANATORY HANDBOOK

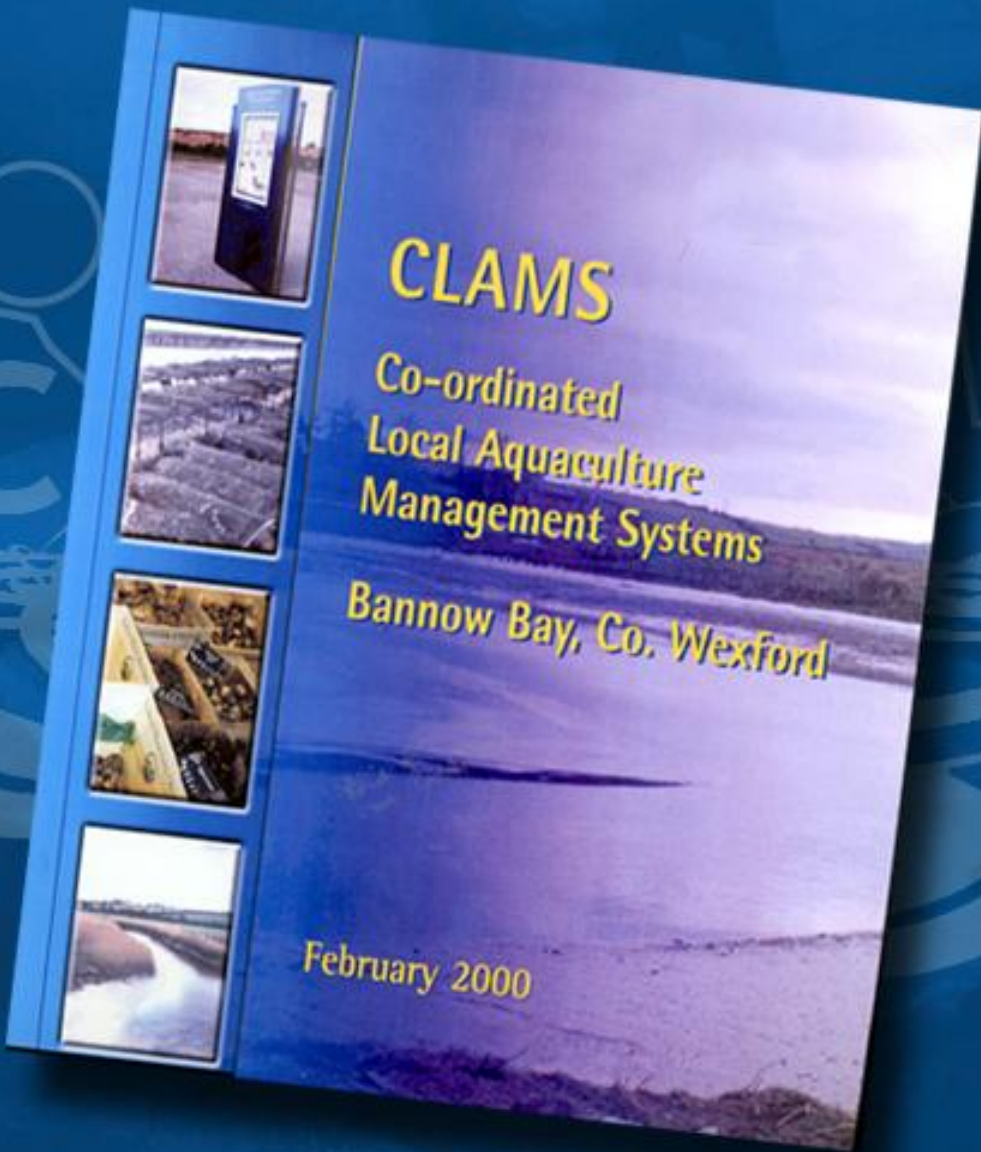


System (GIS)



Production and Value for Shellfish

Range	Revenue
0-100	0-100,000
100-200	100,000-200,000
200-300	200,000-300,000
300-400	300,000-400,000
400-500	400,000-500,000
500-600	500,000-600,000
600-700	600,000-700,000
700-800	700,000-800,000
800-900	800,000-900,000
900-1000	900,000-1,000,000



CLAMS

Co-ordinated
Local Aquaculture
Management Systems

Bannow Bay, Co. Wexford

February 2000





Bord Iascaigh Mhara
Irish Sea Fisheries Board

Aqua Culture

Newsletter from B.I.M.

Issue No. 33:

April 2000

April 2000

AquaCulture Newsletter : No 33

C.L.A.M.S. concept becomes reality

Richard Donnelly, BIM, reports:

On the 14th February Minister Hugh Byrne launched Ireland's first C.L.A.M.S. document relating to a specific bay, in this case Bannow Bay, at the Wexford County Library. CLAMS, the acronym for Co-ordinated Local Aquaculture Management Systems is the concept of management which focuses on identifying the needs of the aquaculture producers in a bay and developing them in tandem with the other interest groups in that area.

The CLAMS process began in Bannow in the latter part of 1999 and focused on establishing a format that would allow the process to be implemented nationally. The Bannow CLAMS document is divided into several sections:

- Baseline information for the bay is provided in terms of geographical and physical attributes, infrastructure, environmental status and other activities, including aquaculture.
- The document details the issues raised during the consultation process by the aquaculture producers and other interest groups.
- A Management and Development Plan for aquaculture activity in the bay is presented incorporating the issues highlighted during the consultation process.
- A list of useful contact numbers and addresses are provided.



Hugh Byrne, TD, presenting the plan to the Chairman of Wexford County Council, Mr. Sean Doyle. Pictured at Wexford County Library from left are: Seamus Dooley, Wexford County Manager; Richard Donnelly, BIM; Hugh Byrne, Minister of State at the Department of the Marine & Human Resources; Sean Doyle, Chairman Wexford Co. Co; Donal Maguire Aquaculture Development Manager, BIM and Brendan Hourih, TD.

document can facilitate these changes. For this reason

National Policy and
Regulation
(Dept. of Agriculture)



National CLAMS
management group
led by BIM,
supported by MI and UnG



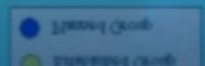
Local Authorities



BIM regionally based liaison
officer



CLAMS Group in a bay

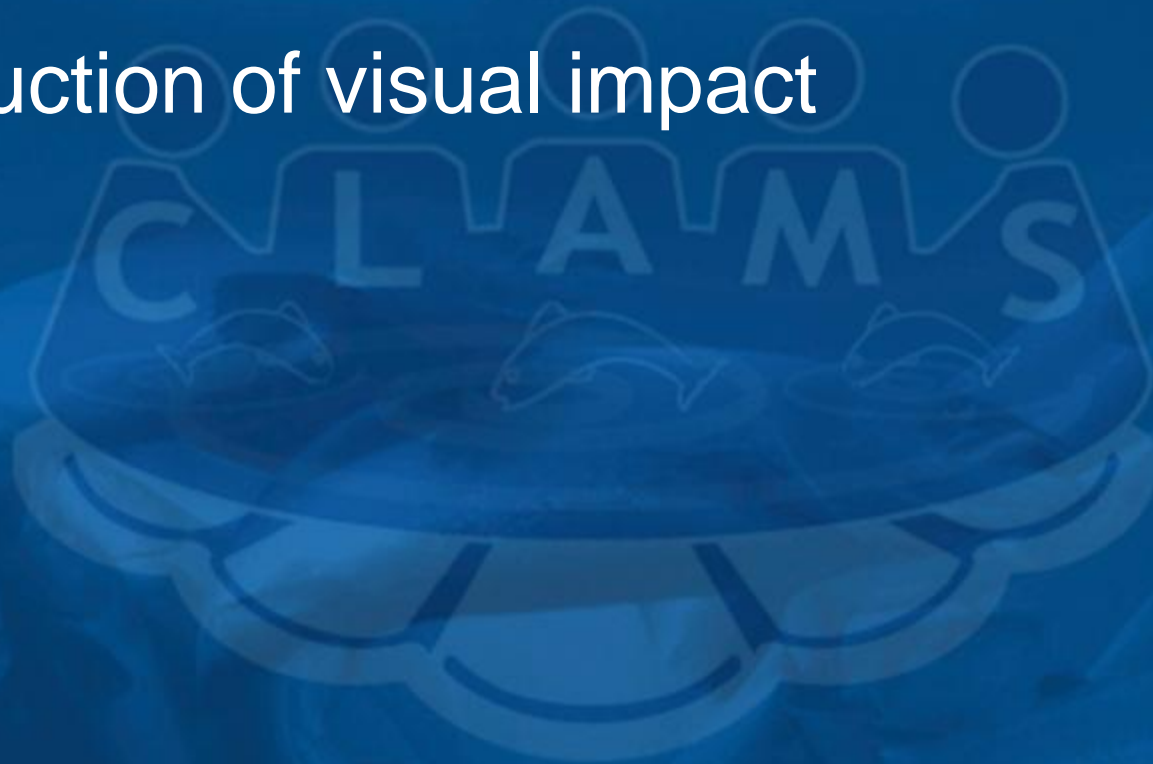




in Action

Environmental Policy Initiatives

- Reduction of visual impact

















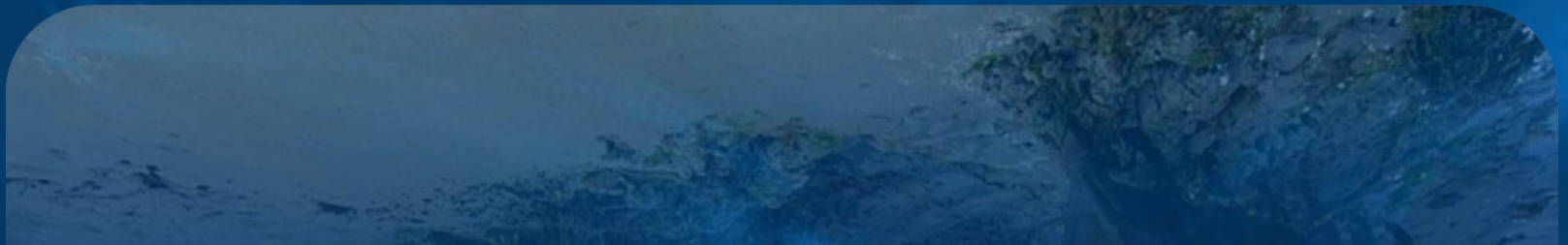


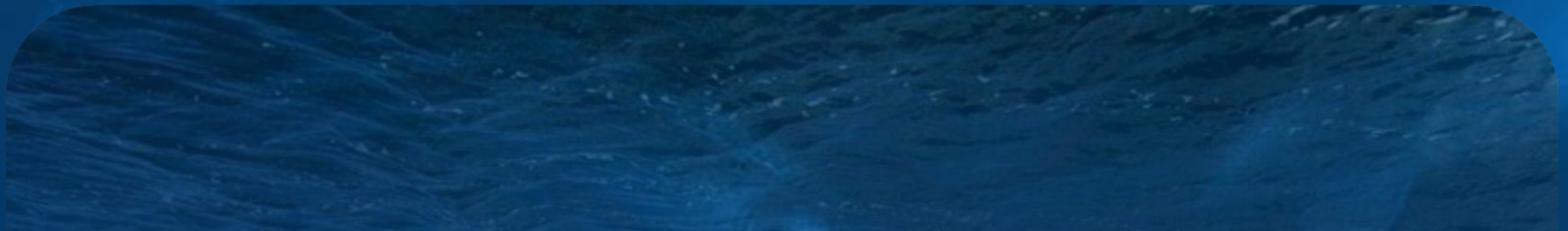
Environmental Policy Initiatives

- Reduction of visual impact
- Removal of redundant structures









Environmental Policy Initiatives

- Reduction of visual impact
- Removal of redundant structures
- Environmental and water quality monitoring

MAP II.2A

SHELLFISH DESIGNATION(S.I. No 200 OF 1994)
FIRST SCHEDULE

KILLARY HARBOUR, Co MAYO & Co GALWAY



DISCHARGE LEGEND

- IPC
- WWT/P
- Foregone Licensed Sewage Discharge
- ▲ Other Sewage Discharge
- Landfill Inactive
- Landfill
- ◆ Foregone Licensed Waste Water Discharge
- ★ Septic Tank
- Deck 4 - Discharge To Water
- Section 18 - Discharge To Sewer
- ◆ Foreland Drainage Pipe
- ★ Foreshore Mining

DESIGNATION LEGEND

- Access point
- ★ Sampling point
- Shellfish Cultivation Designation Area
- Suggested Designation

KILLARY HARBOUR

- LICENCE AND APPLICATION SITES
- Aquaculture licence or Application
- SHELLFISH FISHERY ORDERS
- Licence Oyster Bed

Environmental Policy Initiatives

- Reduction of visual impact
- Removal of redundant structures
- Environmental and water quality monitoring
- Promoting use of Environmental Management Systems (EMS)



@co pact

Environmental Code of Practice for
Irish Aquaculture Companies and Traders



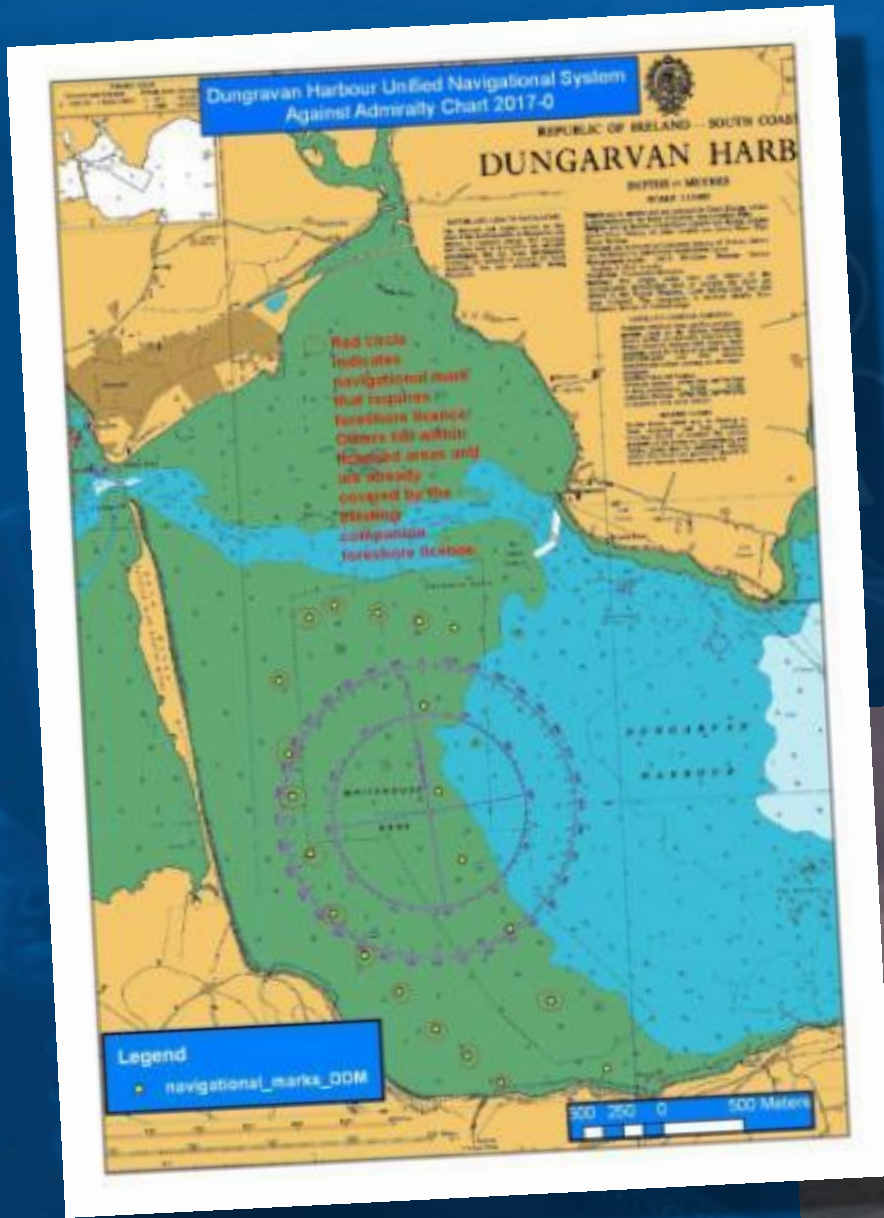




Integrating Aquaculture into the Coastal Zone; Policy initiatives

- Improving navigational safety







DUNGARVAN HARBOUR SPECIAL UNIFIED MARKING SCHEME (SUMS) FOR AQUACULTURE



Legend

- Buoys
- ✕ Poles
- Aquaculture_Zone



Map prepared by Brian O' Loan BIM under licence agreement with Ordnance Survey of Ireland

Legend

Map prepared by Brian O' Loan BIM under licence agreement with Ordnance Survey of Ireland

Integrating Aquaculture into the Coastal Zone

- Improving navigational safety
- Fish farmers as good neighbours









Integrating Aquaculture into the Coastal Zone

- Improving navigational safety
- Fish farmers as good neighbours
- Winning hearts and minds







Optimising Use of the Resource; Policy initiatives

- Carrying Capacity

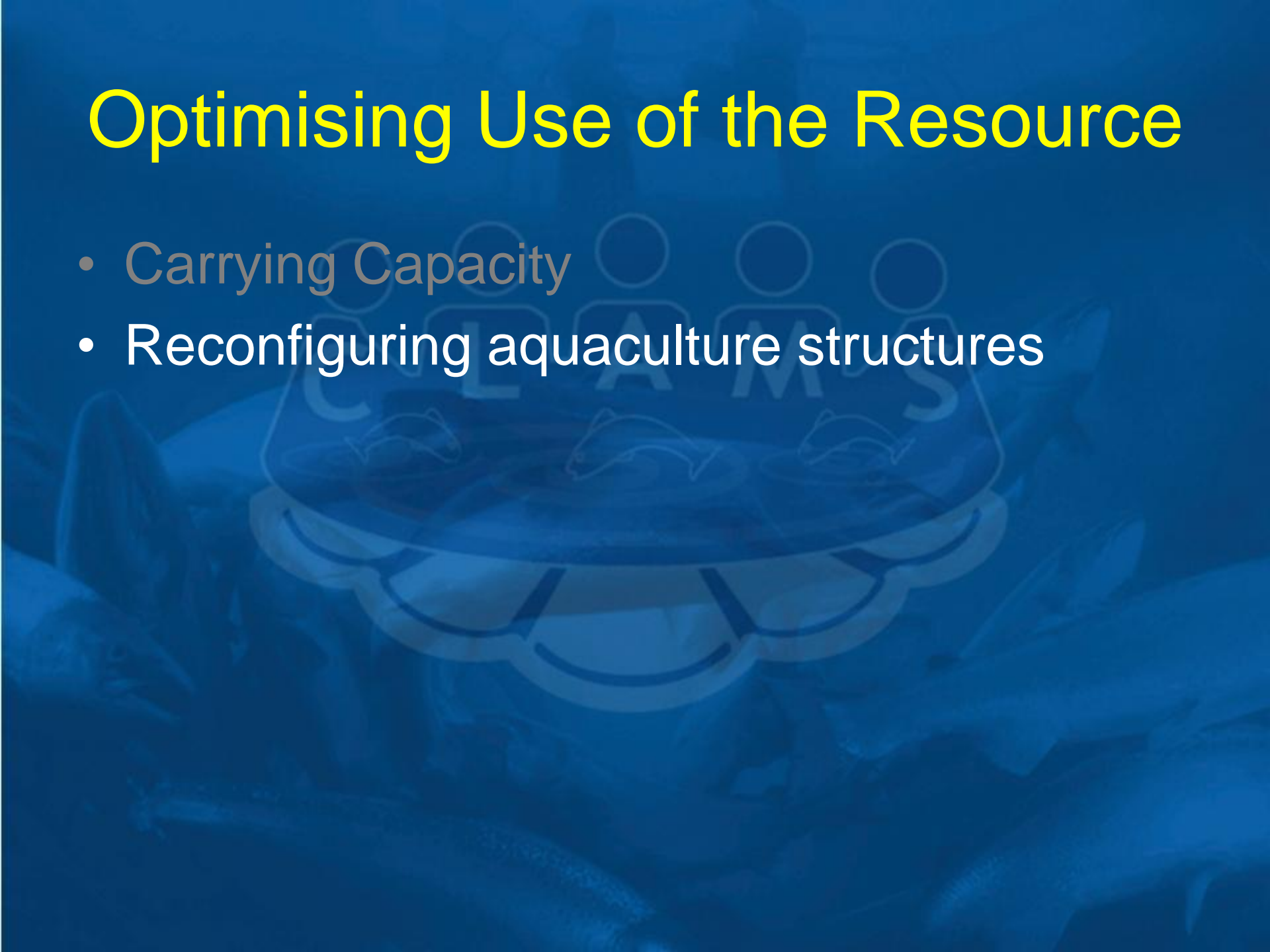


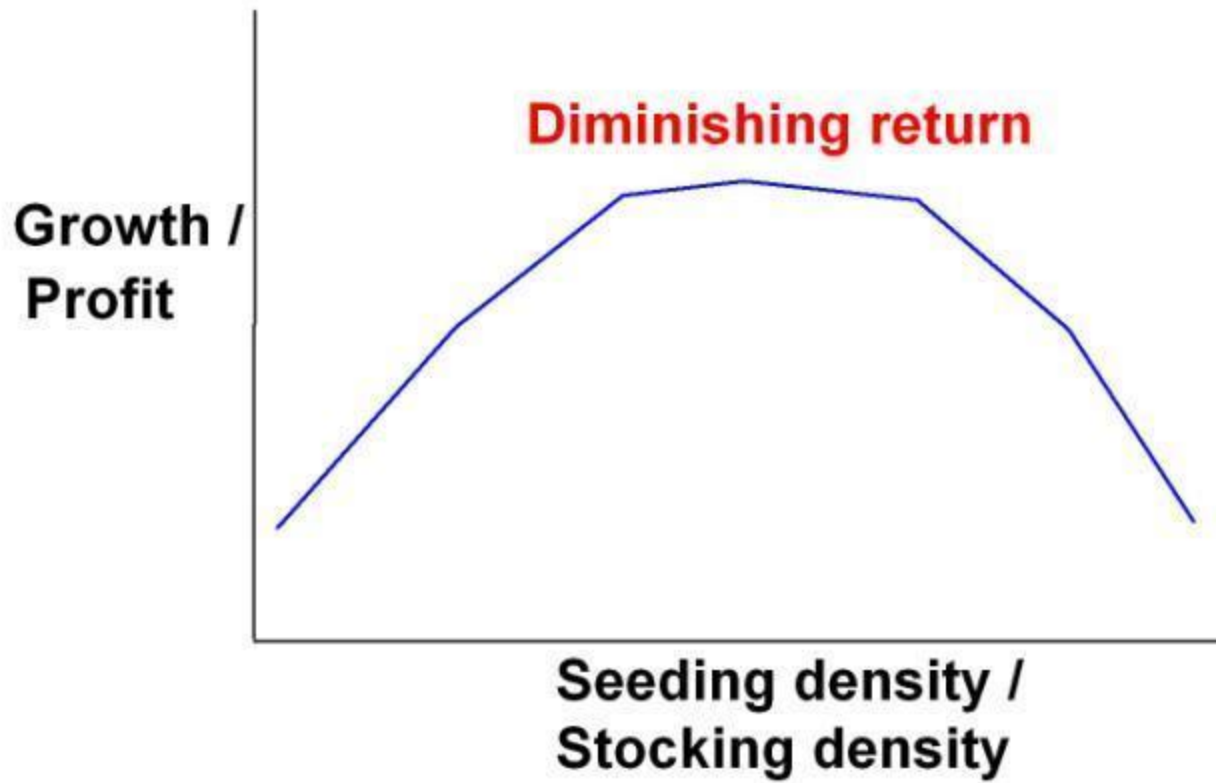




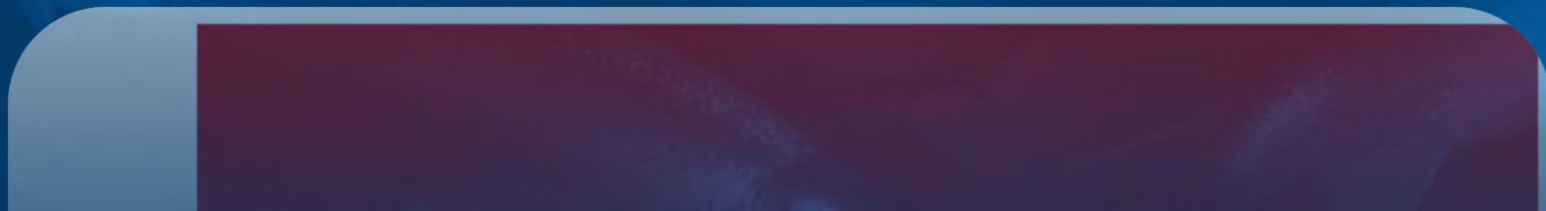
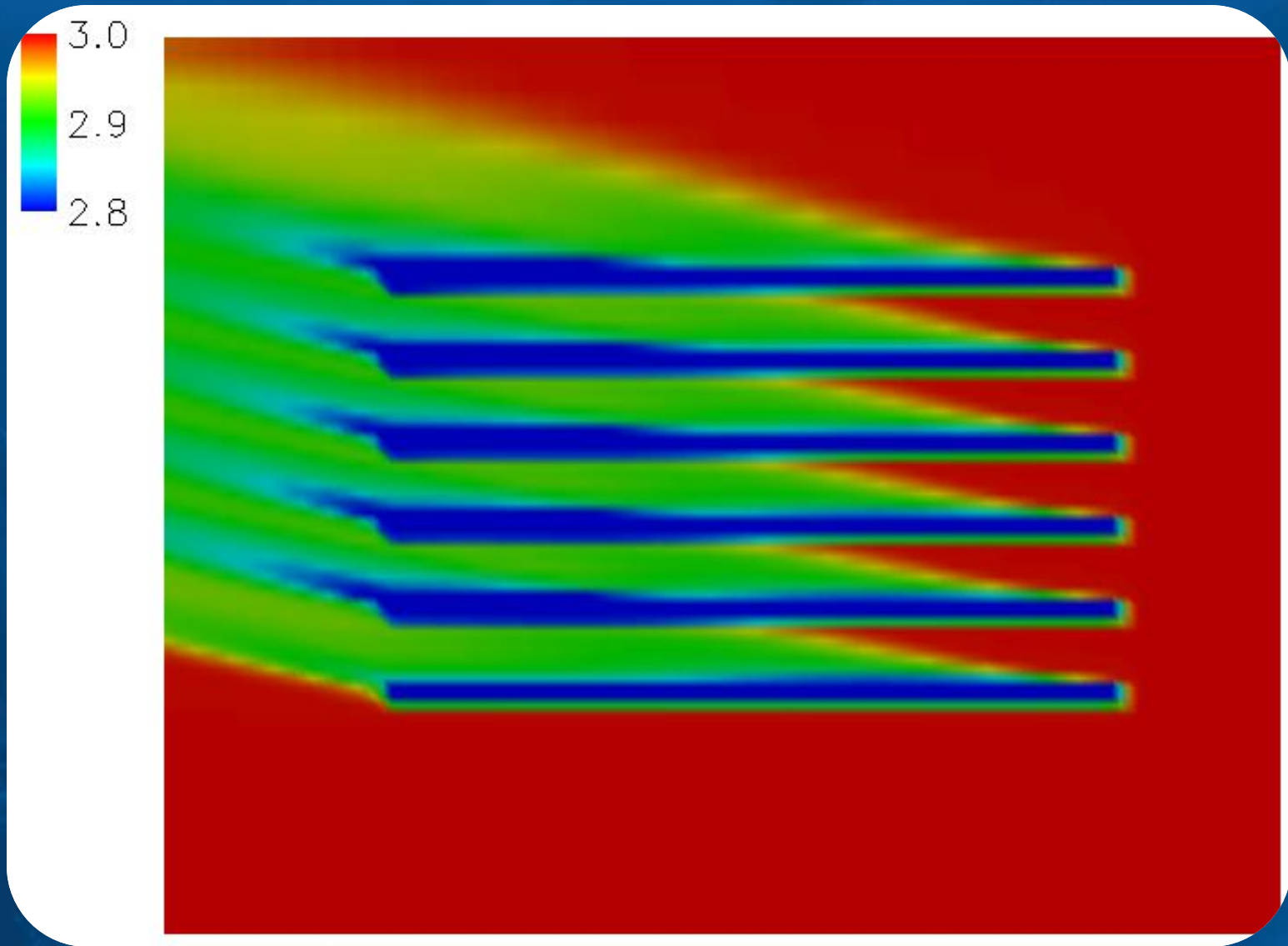
Optimising Use of the Resource

- Carrying Capacity
- Reconfiguring aquaculture structures





stocking density
seeding density

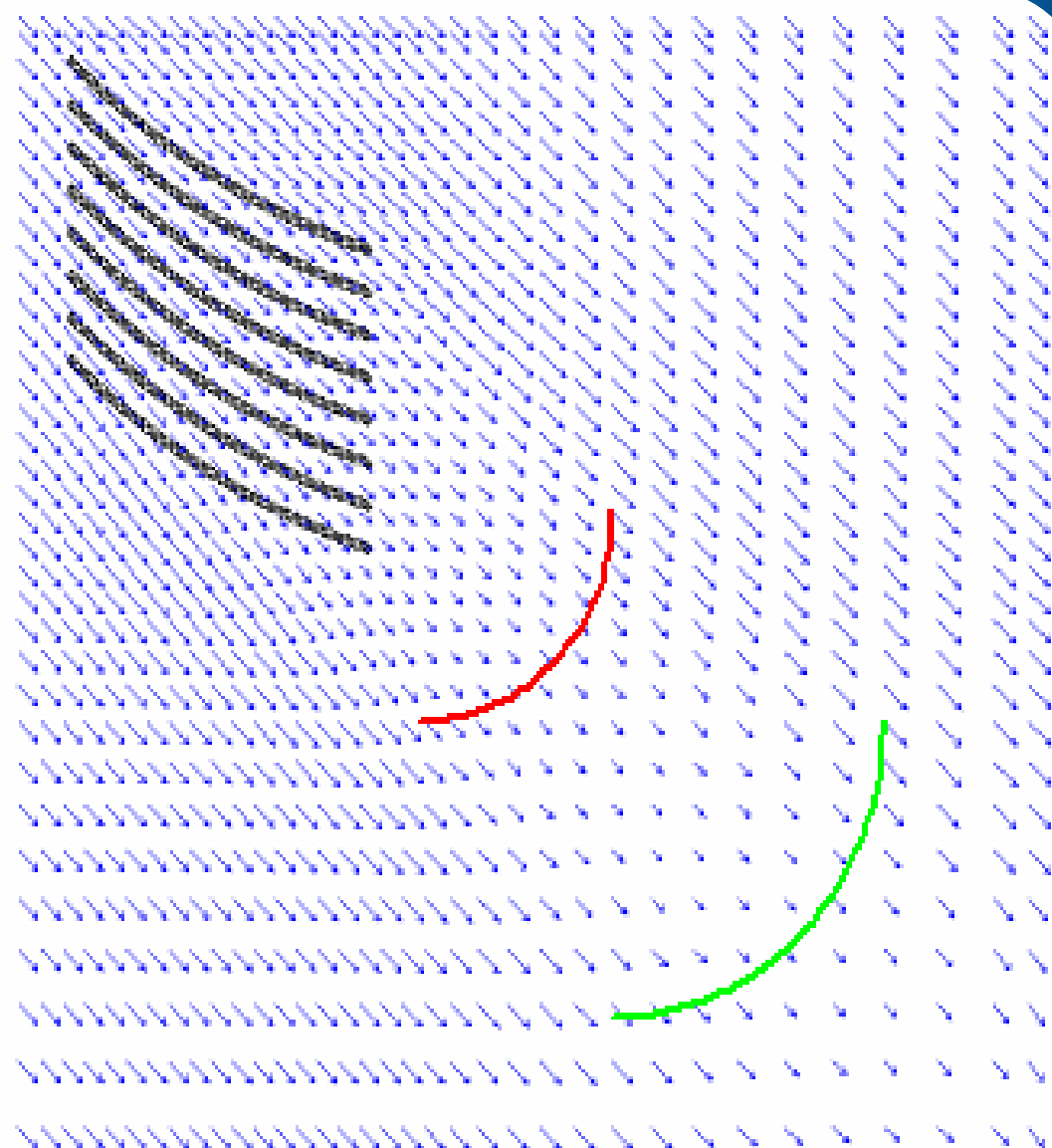
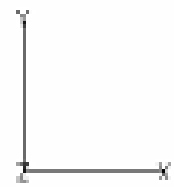


90% Food Recovery

$$D_{90} = 50\text{m}$$

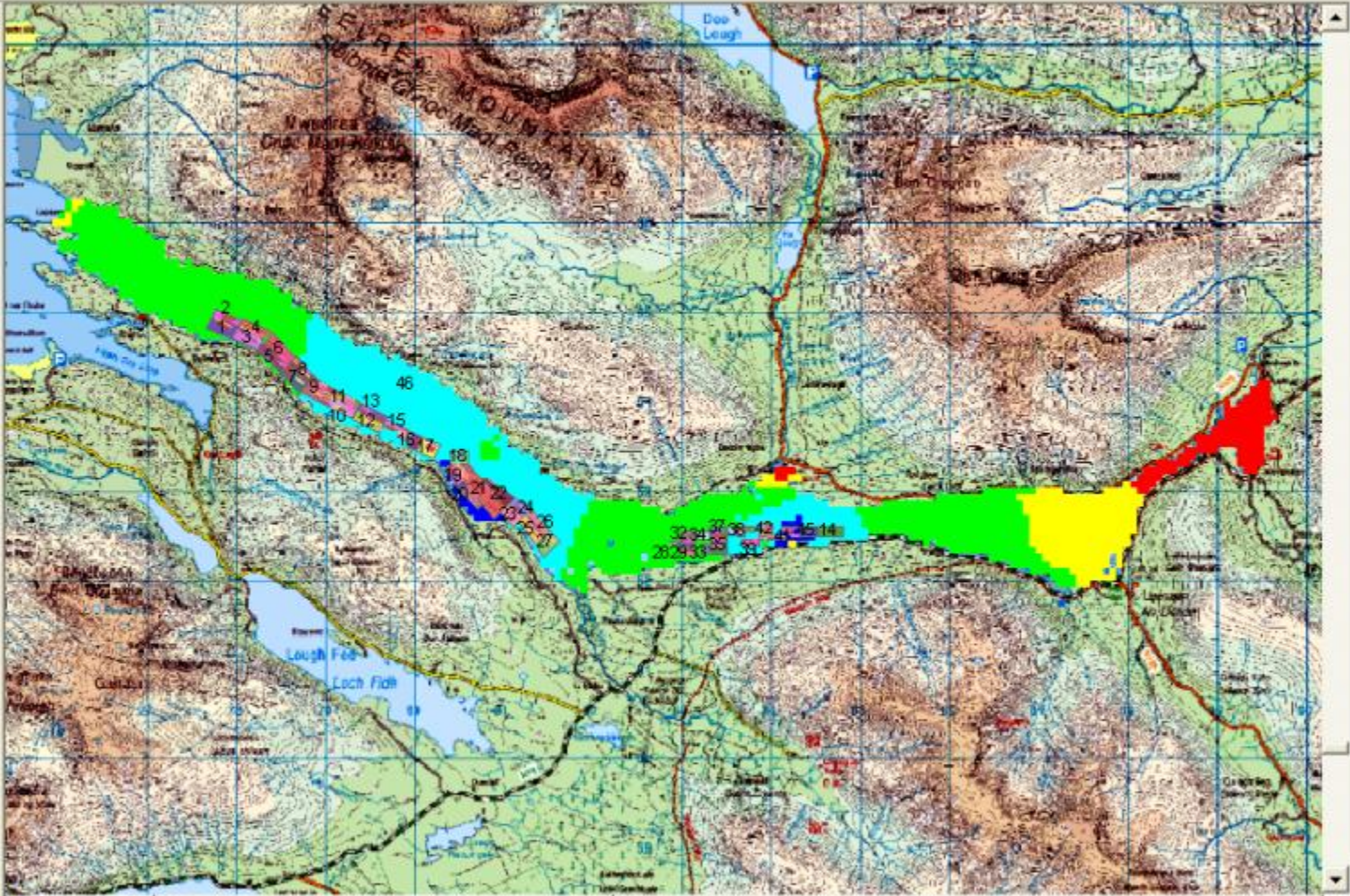
95% Food Recovery

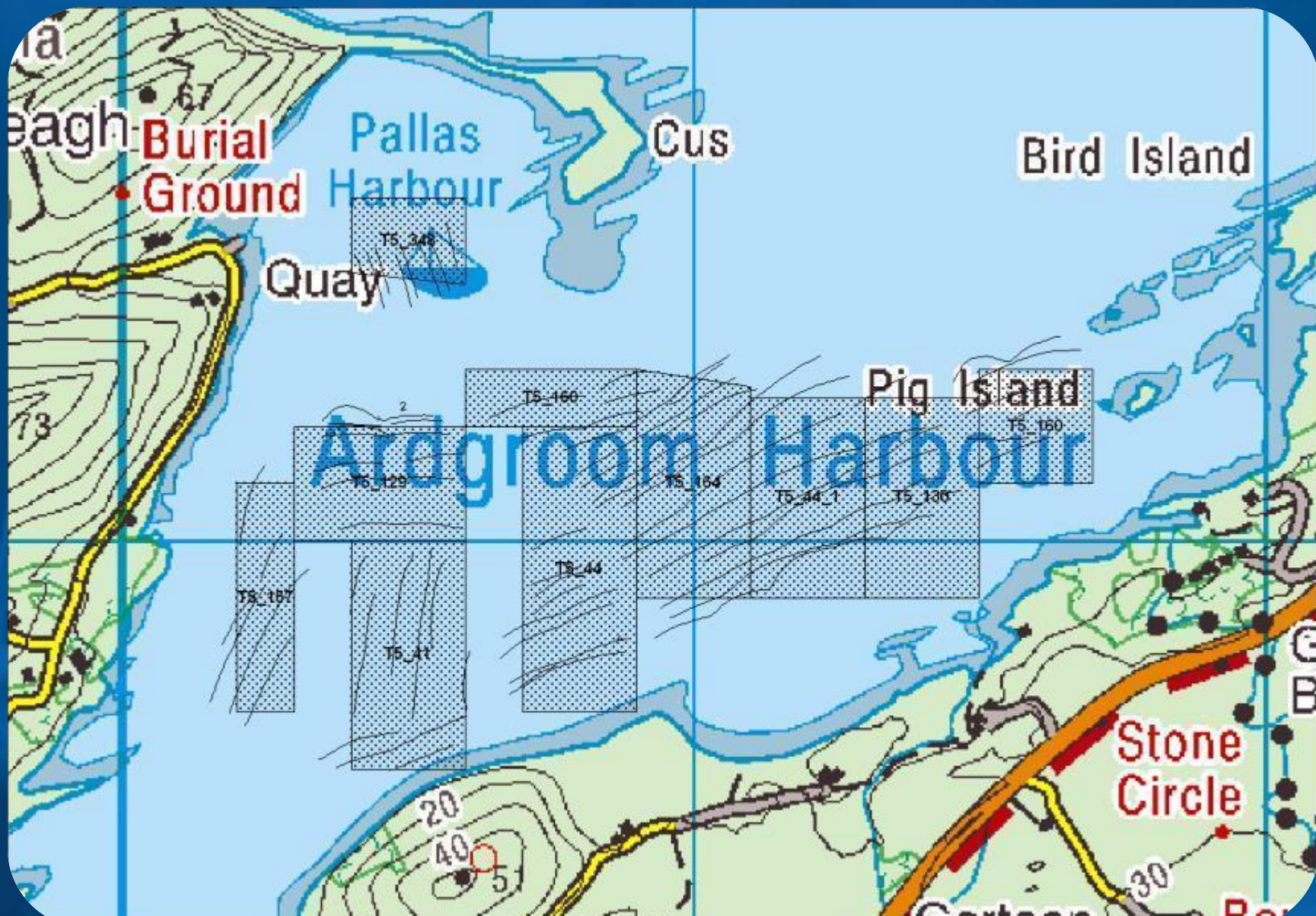
$$D_{95} = 150\text{m}$$



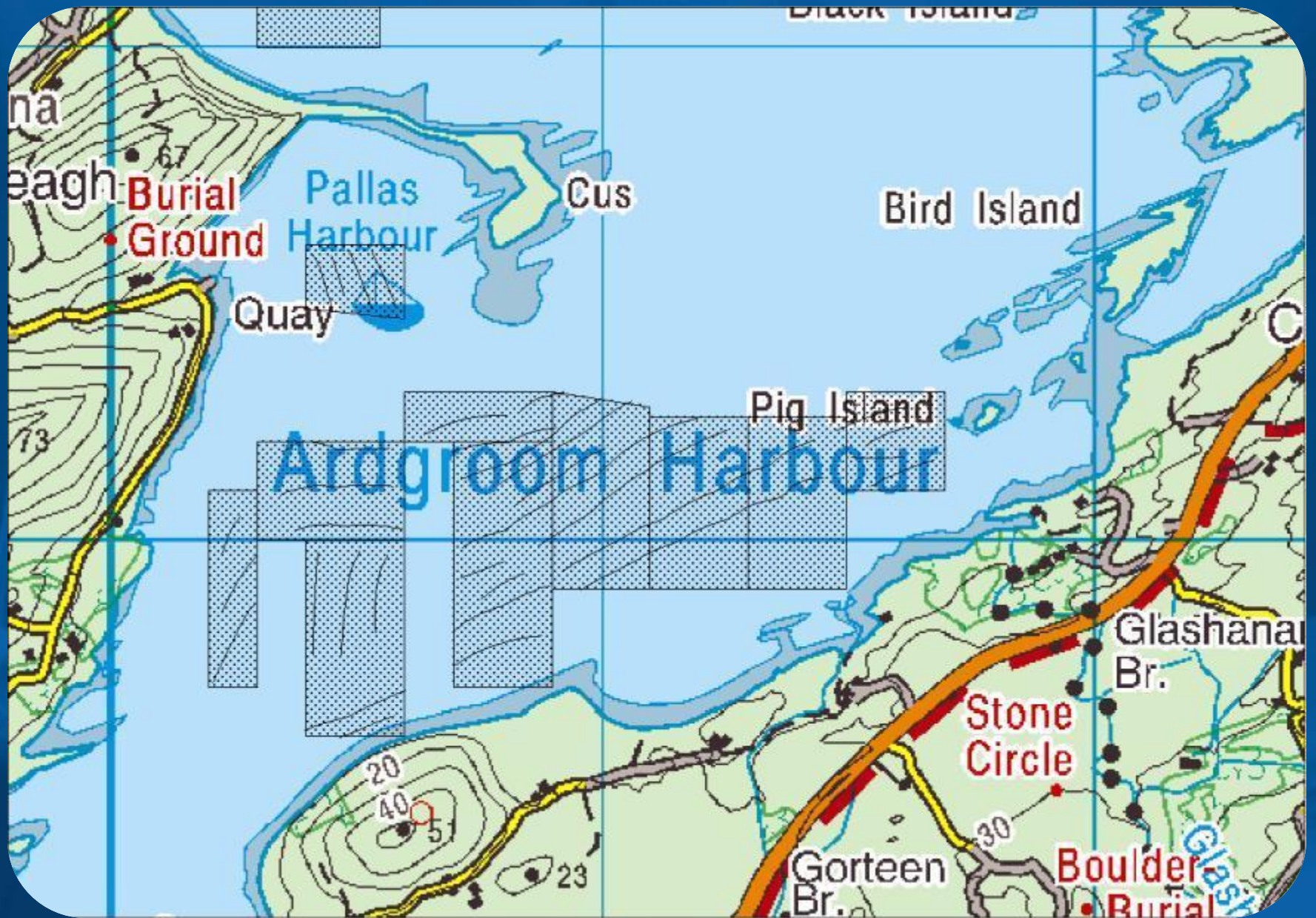
Layers

- Longlines
- Sites_polygon
- SamplePoints
- ParticleResults Events
- Contour Snapshot
- Vector Snapshot
- River Discharges
- Outfall Discharges
- RelativeProductivity
 - Poor
 - Poor - Medium
 - Medium
 - Medium - Good
 - Good
- Maps





Before



AFTER

Optimising Use of the Resource

- Carrying Capacity
- Reconfiguring aquaculture structures
- Improving Occupational Health and Safety and Working conditions





Optimising Use of the Resource

- Carrying Capacity
- Reconfiguring aquaculture structures
- Improving Occupational Health and Safety and Working conditions
- Increasing value to the producer



Ireland's CLAMS process

Summary

- A very cost effective system
- Maximum leverage of scarce state resources
- Deeply rooted in the industry and local communities
- Much potential still to be explored-
“Marine Forum Concept”

Ireland's CLAMS process: a means to ensure aquaculture policy coherence at national and at local level.

Thank you for your attention.

