

Towards the Sustainable Development of Ireland's Coast – Tools for Coastal Planning

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IcoNet,
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www.marine.ie



2. Weaknesses in our Coastal Management Regime

- No integrated regulatory framework for Coastal Management
- *De facto Policy* is "1st come, 1st served"
- Till now, no integrated national plan in operation for Marine Monitoring
- No sense of local Ownership / input to Coastal Management
- Perceived "**complexity**" of Coastal Zone Management
- Fragmented & Ad hoc decision making by advisory groups, reporting to DCMNR
- Staff turnover & weakness in key Admin structures




Achoimre / Outline of Talk

1. **Proposition** – We are **ready** to manage Coastal Ireland
2. **Weaknesses** of current Coastal Management regime
3. **Strengths** of current Coastal Management regime
4. The scale of **Marine Data** in Ireland
5. Surveying the Irish Seabed – **INFOMAR**
6. **Sea Change** – Research Plan, 2007/2013
7. Steps towards Marine Spatial Planning




3. Strengths in our Coastal Management Regime

- EU regulatory drivers – Water Framework Directive, Marine Framework Directive & Strategic Environmental Assessment
- Solid **regulatory framework** for land-based Management
- Local marine expertise eg in Cork, Fingal, Mayo Councils
- Progress of **Networks** in Coastal Zone Management
- Marine Institute & EPA carry out an active programme for Marine Monitoring
- **High Quality Marine Environment** (EPA et al)
- **Strong technical expertise** available to DCMNR eg on Marine Licence (MLVC) & Aquaculture Committees
- **Clonakilty** – New personnel coming into Admin structures





Tools for Coastal Management



1. Proposition:

Marine Ireland has made great progress since the launch of BSM Report in 1997. The investment in Marine R&D by Agencies and Universities into understanding Ireland's marine resources now gives us **tools, expertise & a solid basis** for Coastal Management.





3. Strengths in our Coastal Management Regime - Powerful new Data Sets since 1990's

- Seabed Survey data from GSI & MI
- Coastal Defences Datasets in DCMNR (*EUROSION* Project)
- Fisheries Datasets from MI, DCMNR, Naval Service
- Marine Institute – Annual programme for Marine Monitoring incl Nutrients, Contaminants, Biotoxins & Phytoplankton
- EPA carry out annual Eutrophication survey in Inshore Bays
- **Water Framework Directive** – MI & EPA will build new datasets from WFD Monitoring, from 2007
- Strategic Environmental Assessments of Offshore Oil & Gas, 2006 (Donegal & Erris) & 2007 (Porcupine)
- **Marine Atlas** from UCC, searchable (**MIDA**)

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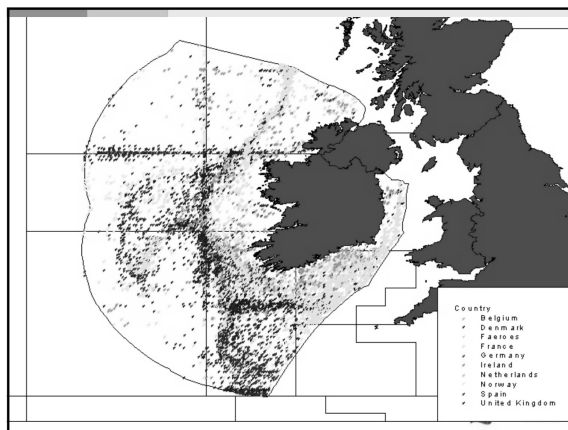


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[illegible]

The screenshot shows the ArcGIS Desktop environment. The main map window displays a grayscale aerial photograph of a coastal region. A 'Point Area Group Summary and Summary Data' window is open, showing a list of 10 points. The list includes columns for 'ID', 'Name', 'X', and 'Y'. The points are numbered 1 through 10, and their names are listed in the 'Name' column. The 'X' and 'Y' columns show the coordinates for each point.

ID	Name	X	Y
1	Point Area Group Summary and Summary Data	1000000.000000	1000000.000000
2	Point Area Group Summary and Summary Data	1000000.000000	1000000.000000
3	Point Area Group Summary and Summary Data	1000000.000000	1000000.000000
4	Point Area Group Summary and Summary Data	1000000.000000	1000000.000000
5	Point Area Group Summary and Summary Data	1000000.000000	1000000.000000
6	Point Area Group Summary and Summary Data	1000000.000000	1000000.000000
7	Point Area Group Summary and Summary Data	1000000.000000	1000000.000000
8	Point Area Group Summary and Summary Data	1000000.000000	1000000.000000
9	Point Area Group Summary and Summary Data	1000000.000000	1000000.000000
10	Point Area Group Summary and Summary Data	1000000.000000	1000000.000000

- EU Commission (Joe Borg) published a **Green Paper on Maritime Policy** in June 2006
- Focus on **Ecosystem** Approach to Management
- Ireland is preparing a response from Departments & Agencies by Spring 2007
- MI response to Green Paper: ***"We believe that the ICZM concept should be incorporated into MSP"***
- **Marine Spatial Planning**, to govern the multiple Offshore activities, will be a key feature of EU regime
- **Mapping** is the 1st step to planning the "marine jigsaw"

The screenshot shows a web browser window with the address bar displaying 'http://www.inishspatialdataexchange.com/'. The page title is 'Inish Spatial Data Exchange - Software Architecture'. The main content area features a search bar with the text 'About ISE Search Links News Contact'. Below the search bar, there are two tabs: 'Search Results' and 'Advanced Search (not used)'. The 'Search Results' tab is active, showing a list of search results. The first result is 'Marine Inshore', which is highlighted. The result details include: Title: 'Marine Inshore', Date Type: 'Indefinite', Date: '2008-01-14 17:10', Source: 'Name Indefinite', and Description: 'Full Details'. To the right of the result details, there is a small thumbnail image of a map and a logo for 'Marine Inshore'.

Inish Spatial Data Exchange - Software Architecture

http://www.inishspatialdataexchange.com/

About ISE Search Links News Contact

Search Results

Advanced Search (not used)

Search for:

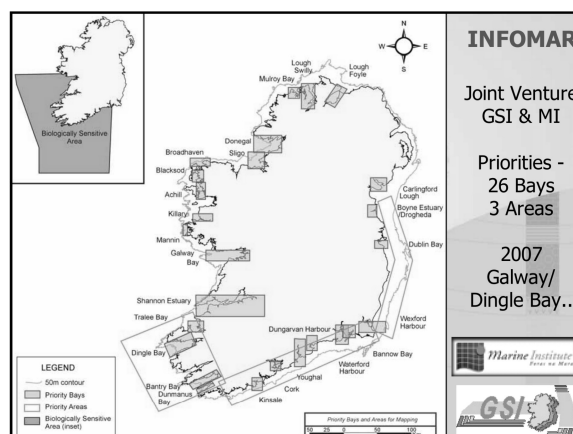
Search Results

Title	Date Type	Date	Source	Description
Marine Inshore	Indefinite	2008-01-14 17:10	Name Indefinite	Full Details

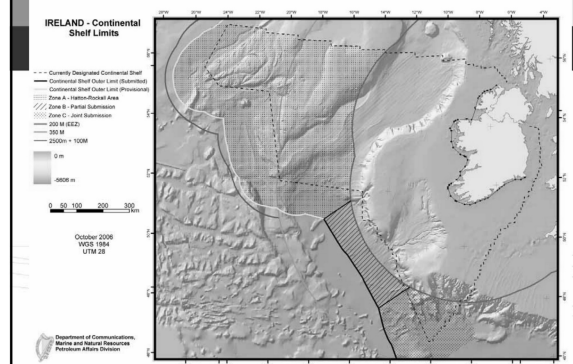
Marine Inshore

Aim: Provide the Spatial Foundation
To map / plan Ireland's Ocean Economy





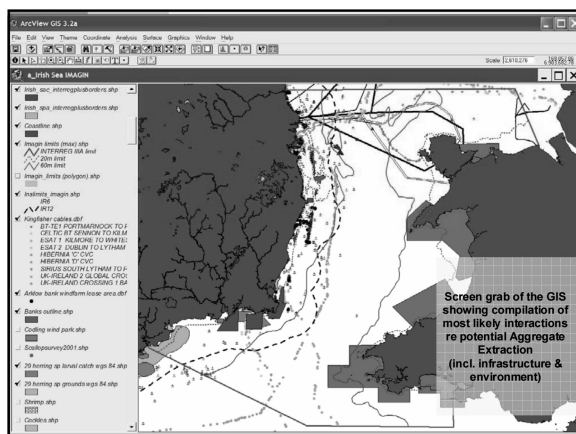
IRELAND : Submissions to UN Commission on the Continental Shelf



significantly changed this!

- **Partners** from IRL & from Wales: Marine Institute; Coastal & Marine Resources Centre, Cork; Geological Survey of Ireland
- **Aim of Project:** "Build a strategic framework for the development of marine aggregate resources from Irish Sea, with minimum risk of impact on the marine environments"
- Fill a **Policy Gap** on managing marine aggregates
- Building a new dataset
- Train & work with DCMNR decision makers on the use of Data /Decision Support & GIS during 2007





7. Sea Change Strategy - 2020 Vision

In 2020, the Irish marine sector will sell into **specialised** global and local markets in a **dynamic, innovative and technologically driven** manner...

It will be internationally recognised for its high **quality marine environment** and characterised by **coherent policy and regulation**.

7. Ireland – Sea Change Marine Research Strategy

- DCMNR Minister Noel Dempsey launched **Sea Change** on 16 February in MI Galway
- **Marine Institute** is the lead agency
- This Marine research plan is costed at **€365 million** (2007-2013)
- Covers Industry, Discovery & Policy Research
- This will build further datasets on Marine Resources & Environment
- **Marine Spatial Planning** is seen as a PreRequisite!



INDUSTRY RESEARCH MEASURE	DISCOVERY RESEARCH MEASURE	POLICY SUPPORT RESEARCH MEASURE
<ul style="list-style-type: none"> • Research Programme 1: Shipping & Maritime Transport • Research Programme 2: Seafood Processing • Research Programme 3: Finfish Aquaculture • Research Programme 4: Shellfish Aquaculture • Research Programme 5: Fisheries Resources • Research Programme 6: Seaweed • Research Programme 7: Offshore Oil & Gas 	<ul style="list-style-type: none"> • Research Programme 1: Marine Biodiscovery / Biotechnology • Research Programme 2: Marine Technology • Research Programme 3: Marine Functional Foods • Research Programme 4: Renewable Ocean Energy • Research Programme 5: Rapid Climate Change 	<ul style="list-style-type: none"> • Research Programme 1: Marine Environment Research • Research Programme 2: Knowledge & Information Management • Research Programme 3: Socio-Economic & Legal Research
MARINE INNOVATION SUPPORTING PROGRAMME To support industry to develop R&D management and development capability and to support the commercialisation of R&D outputs		
MARINE RESEARCH INFRASTRUCTURE PROGRAMME		
<ul style="list-style-type: none"> • Seabed & Resource Mapping • Extension of Ocean & Coastal Monitoring Network • Robotic Platforms • Test & Demo Facilities for Marine & Coastal Observations & Monitoring Systems • Access to High-End Computing • Test facilities for Offshore Energy • Specialist Labs & Infrastructure • Fund to Access Ship Time • National Equipment Pool 		

8. Steps Toward Coastal Zone & Marine Spatial Planning

- Department of Marine has initiated a **Review of Coastal Management** in Ireland, April 2007
- 6 month deadline
- Ambitious Review – **Strategic Vision**; will cover legal, economic, planning & environmental aspects
- **Objective** – Review seeks to build a “Modernised Legal Framework & Procedures for Coastal Management”
- MI looks forward to taking part in Review process
- This Conference is a timely launching pad for Review.

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9. Achoimre / Towards Marine Planning in Ireland

- **Clear sectoral calls for Marine Planning!**
- **Marine research** has blossomed in past decade
- **Mapping & Data** are key tools / steps to planning the "marine jigsaw"
- **Marine Spatial Planning & CZM** is well developed in many EU countries & now is the time in Ireland !
- **Ireland is a marine nation**
- **3rd Level, Agencies, Local Authorities & DCMNR** should now combine (eg Mapping & GIS tools)
- **& build the framework to manage the sustainable development of Marine Ireland!**

Éire - 200 Milliún acra faoin bhFarraige!

Go raibh maith
agaibh /
Thank you



Marine Institute
Foras na Mara

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