



Marine
Management
Organisation



Development of the Evidence Base for Marine Planning in England

PartiSEApate workshop, Hamburg

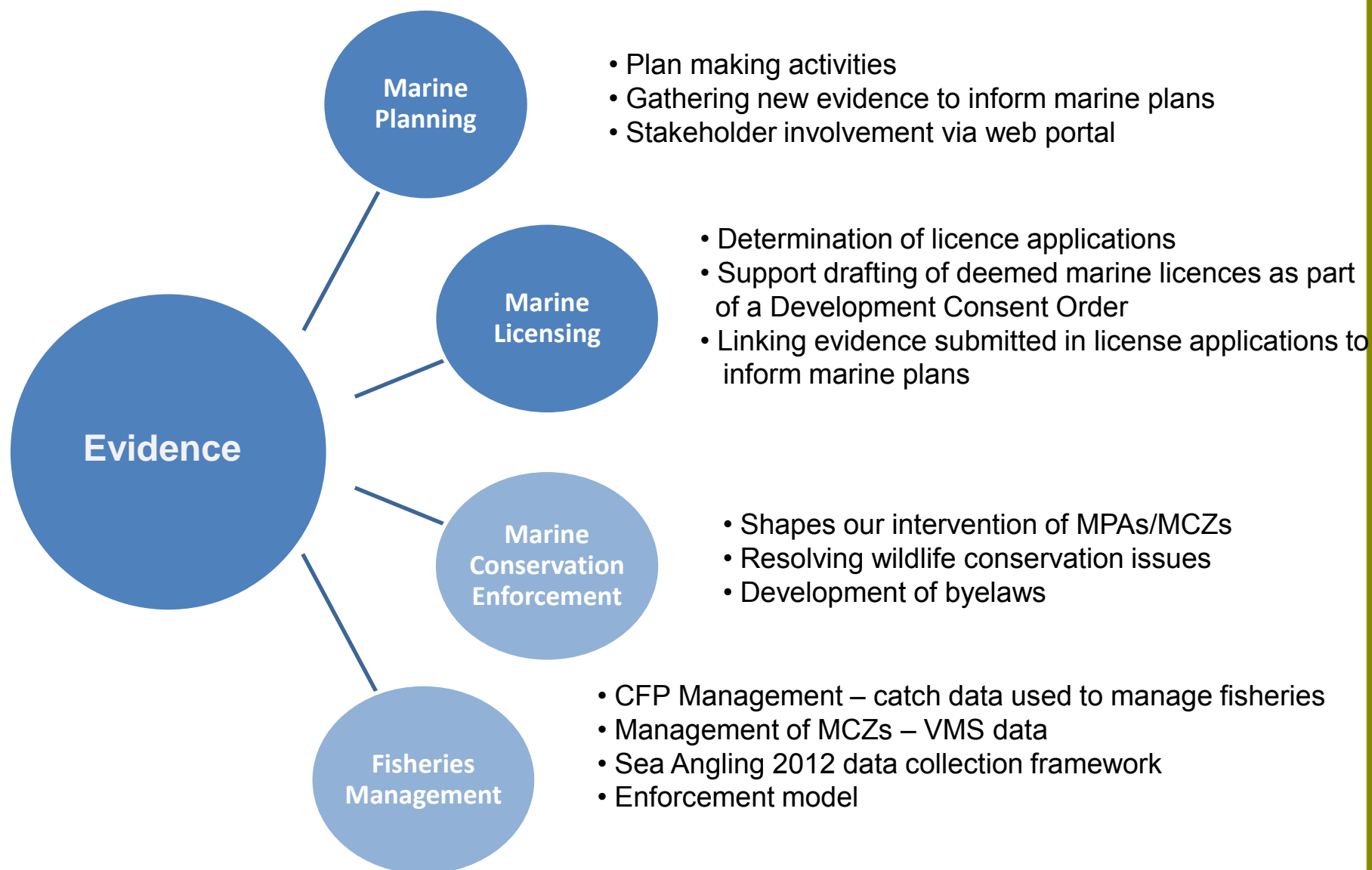
Duncan Hume
Data Manager
15th October 2013



MMO Roles and Responsibilities

- Established in 2010 to promote the UK government's vision for clean, healthy, safe, productive and biologically diverse oceans and seas.
- Non-departmental public body given powers under the Marine and Coastal Access Act 2009 covering **England**
- Wide range of responsibilities:
 - implementing a new marine planning system,
 - licensing marine works,
 - fisheries management, including administering the European Fisheries Fund (EFF) in England, and
 - marine nature conservation and enforcement
- Sponsors: Defra, DECC, MOD, DfT and DCLG

Who Uses Evidence at the MMO?

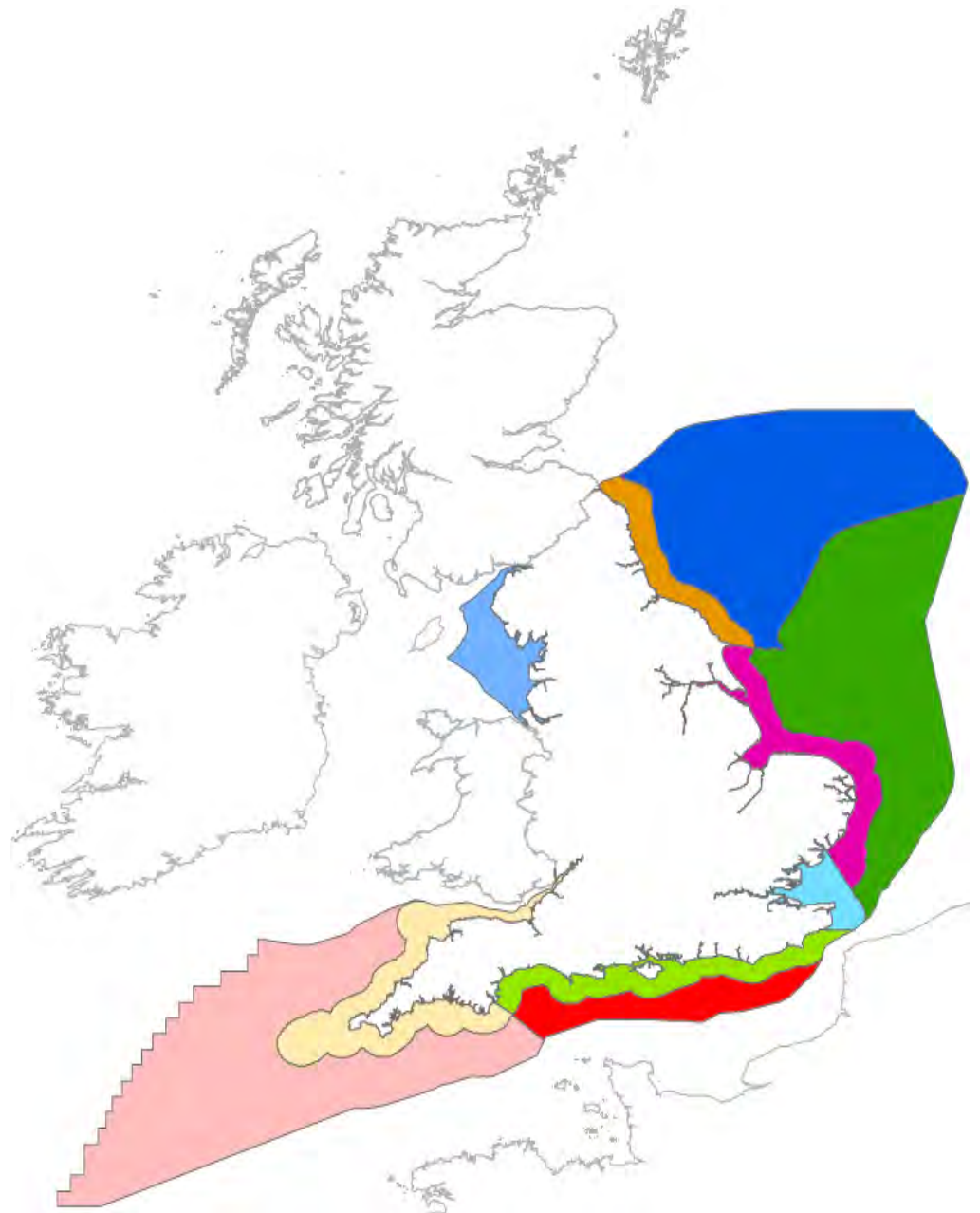


Marine Plan Areas

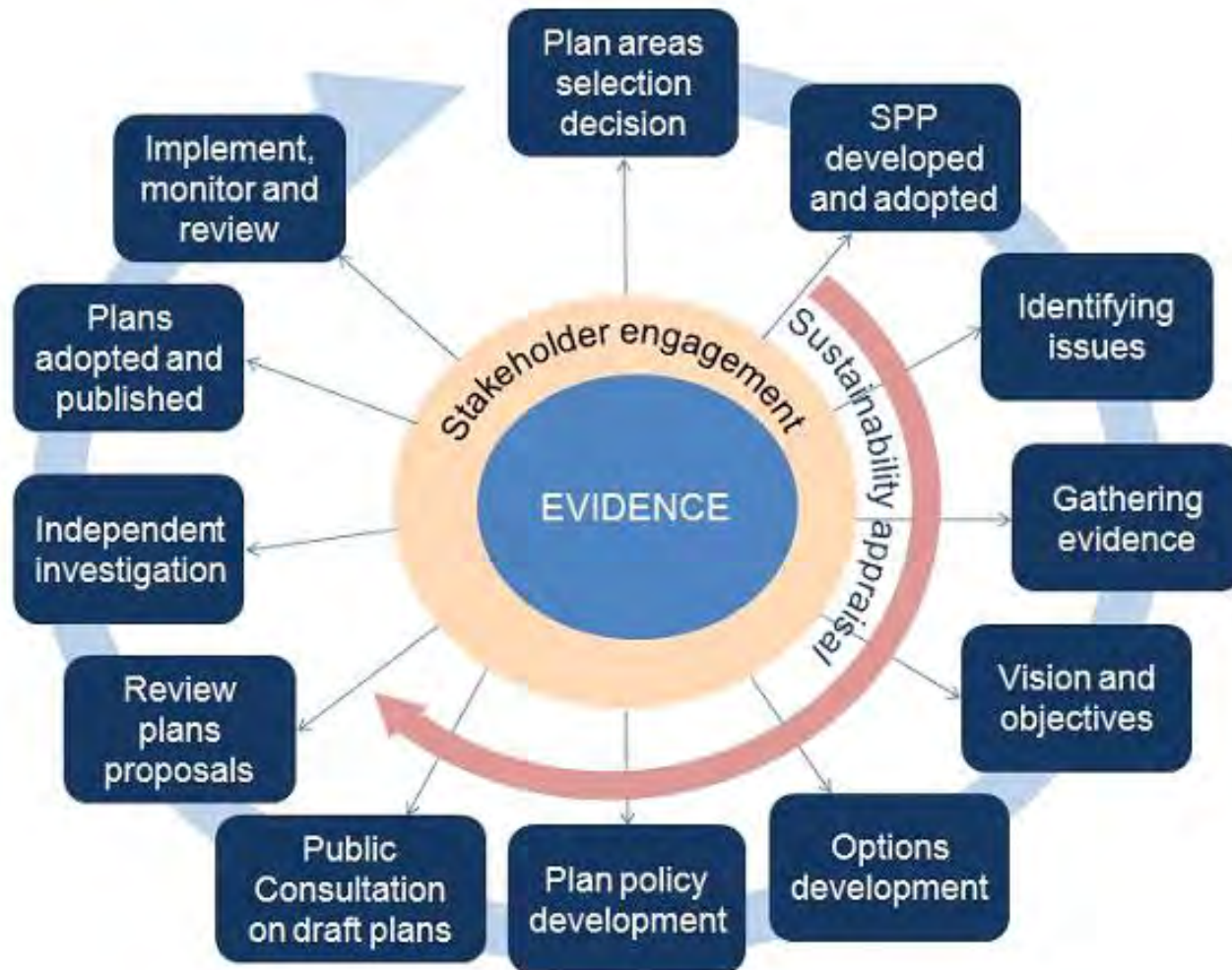
11 areas (10 plans)

East Plans
(Flamborough Head to
Felixstowe) now out to
public consultation

South Plans
(Folkestone to river Dart
in Devon) currently
under development

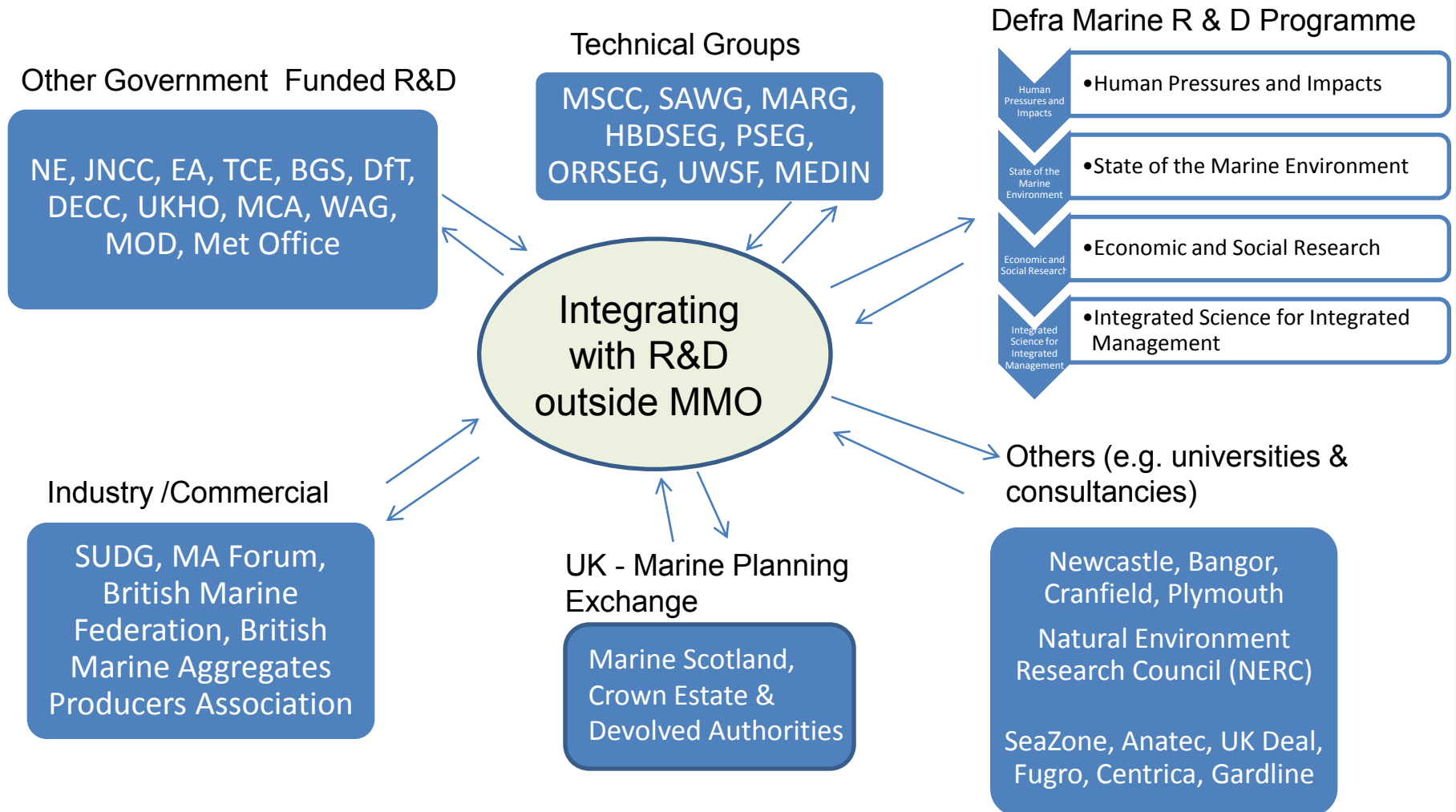


Stages of the planning process

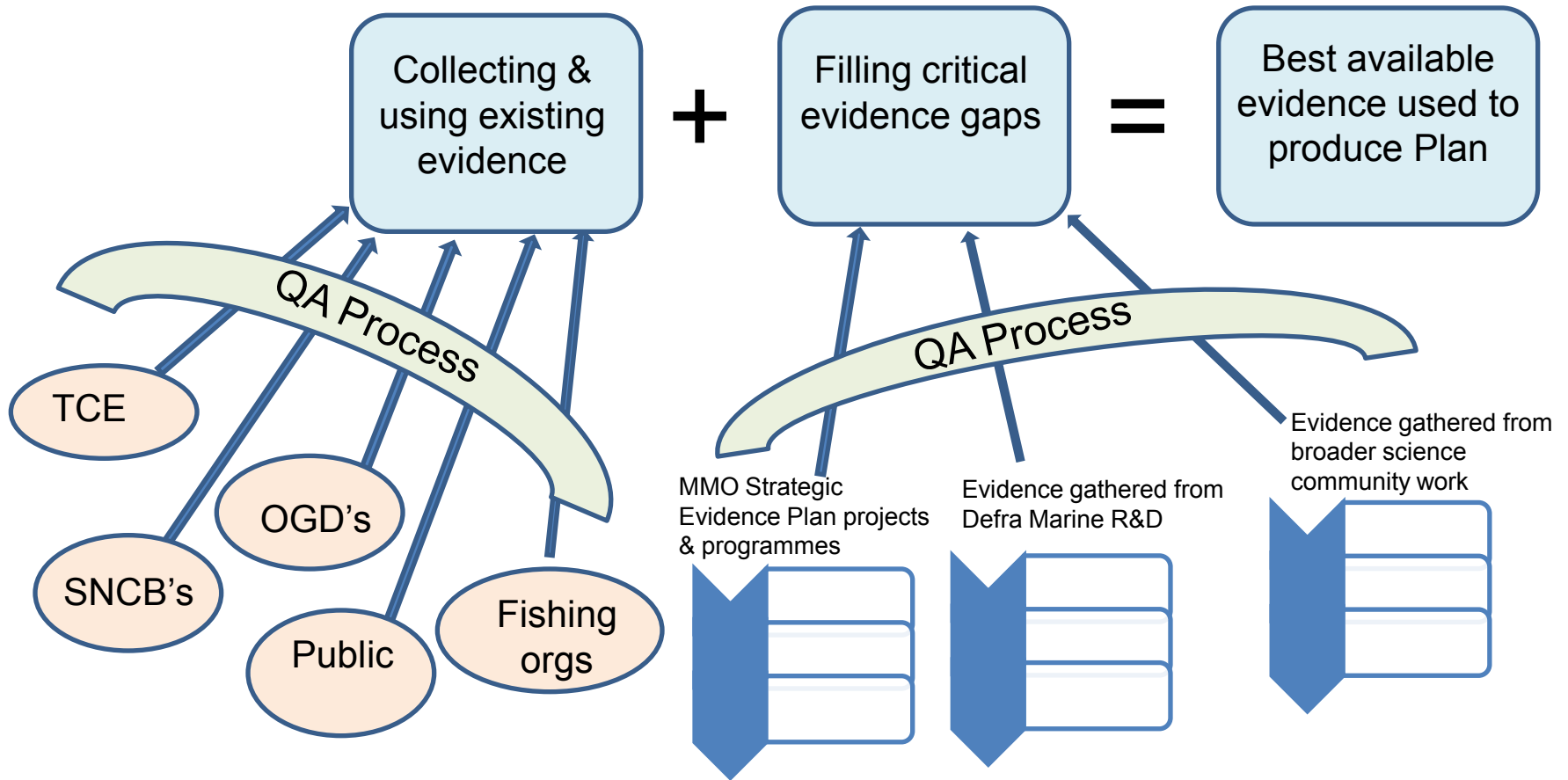


Towards an Integrated Marine Evidence Base

Encouraging integration of research efforts to maximise resources
Enhancing coherence, consistency and direction of research
Providing clarity on the focus for planned and future research

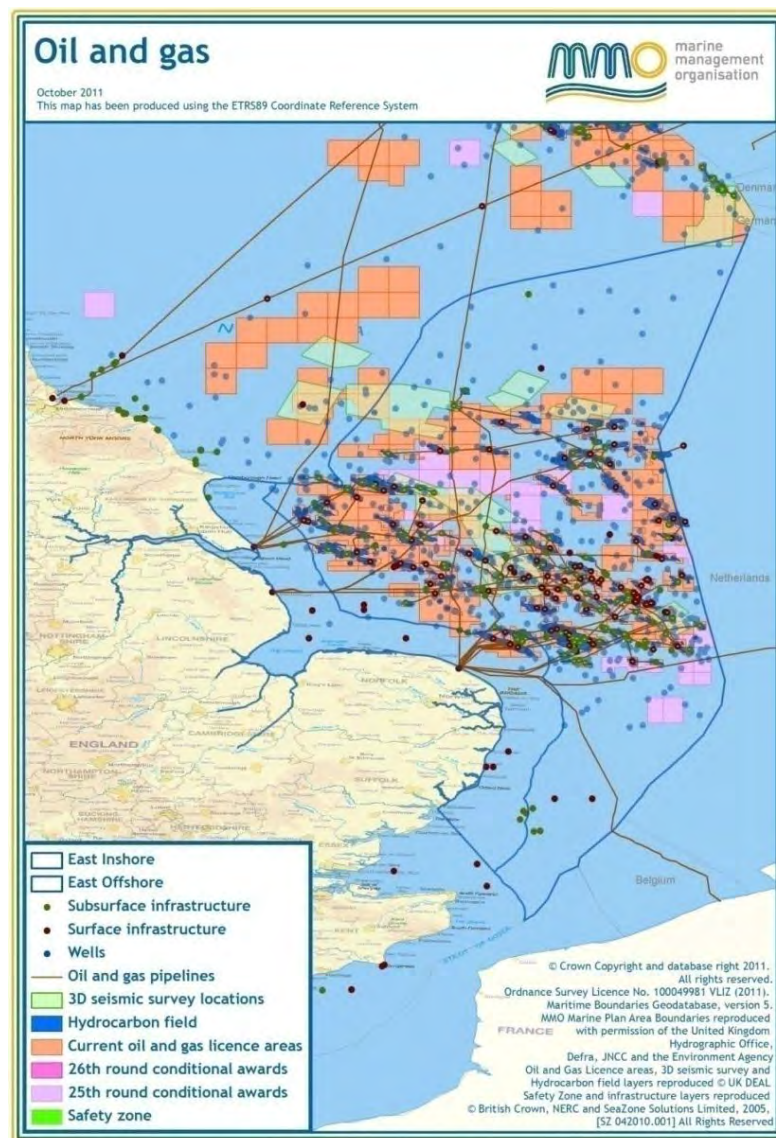


Enhancing the Evidence Base (Marine Planning)



Evidence Approach for Marine Planning

- **Data management process**
- **Quality assuring evidence process for marine planning**
- **Addressing poor quality data or products**
 - Seabed habitat map for EoE
 - Targeted commissions, e.g. socio-economics, recreational activity, shipping density & fishing activity
 - Data mining from industry



Ensuring MMO's Quality of Evidence

- **MMO Policy Framework**

- Published policy on Evidence Quality Assurance
- Published policy on Data Management

- **Evidence QA Processes**

- Published process on intra/internet
- Embedding process and standards into staff culture
- Developing a corporate QMS system to ensure audit trails

- **Wider engagement**

- Evidence suppliers to gain levels of assurance of their processes
- Defra cross-network to align evidence QA processes
- Embedding the GCSA's Guidelines on the use of evidence

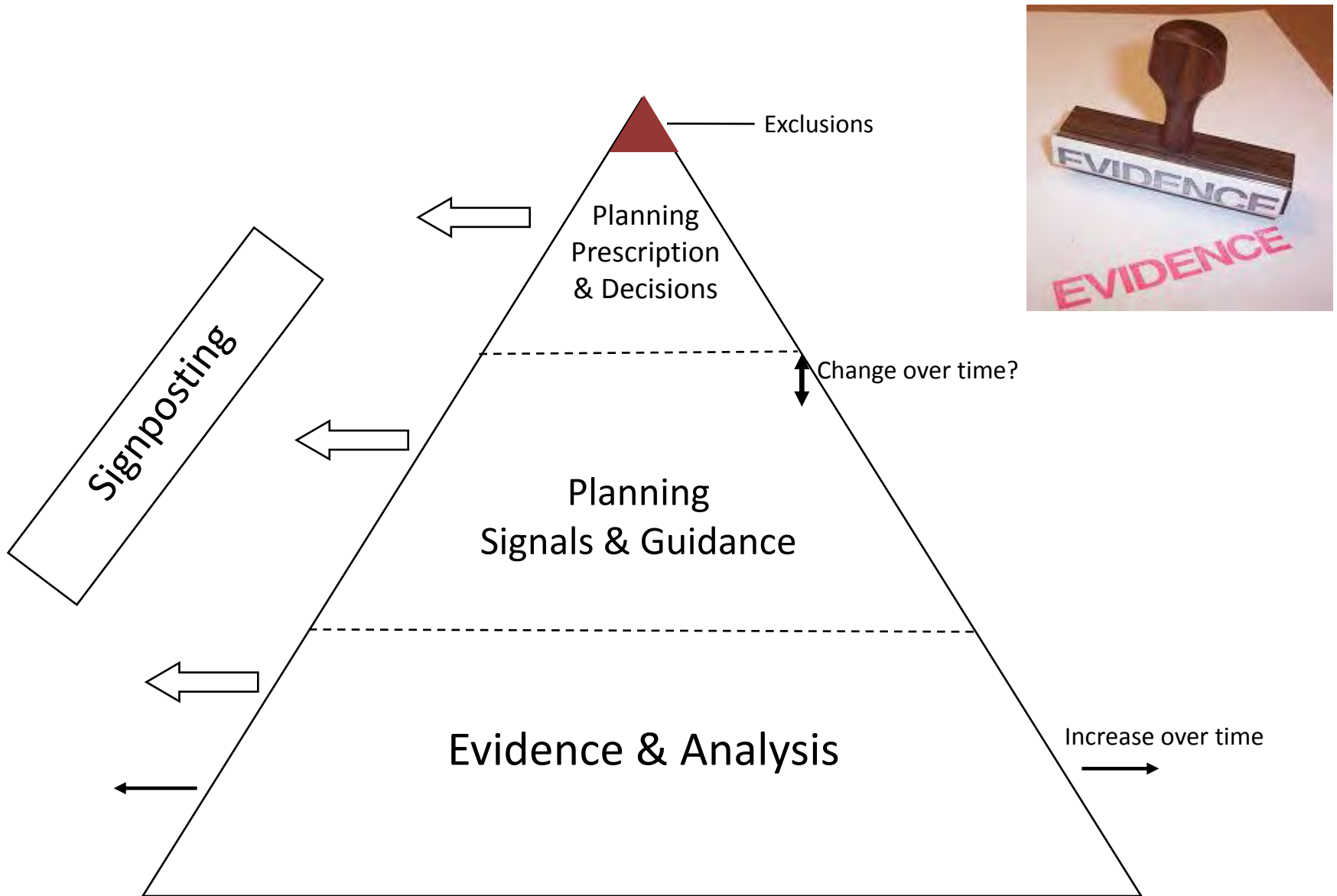


Quality Assuring Evidence & Data

- Three processes in MMO's **Quality Assurance Systems**:
 - Quality assuring MMO's decision-making process (licensing);
 - Quality assurance of evidence (all functions); and
 - Quality Management System (towards ISO accreditation)
- **Ensuring audit trails** of reviews and commissions of evidence/science
- **Peer reviewing all critical work**, internally and externally
- **Raising the bar on evidence standards** across the MMO and with our suppliers

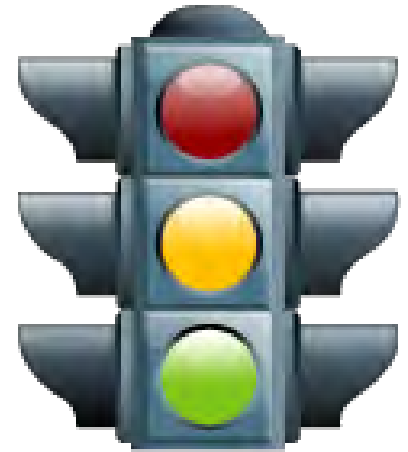


How important is high quality evidence?



Building Confidence in MMO's Data & Evidence

- Recognising the limitations of our evidence will allow us to assign a **level of confidence** to it and focus on its best use
- These levels can be **low, medium or high**, depending on the amount of information we have gathered about such evidence
- **Filling knowledge gaps** in those areas critical to our work but where we know that the evidence needs strengthening

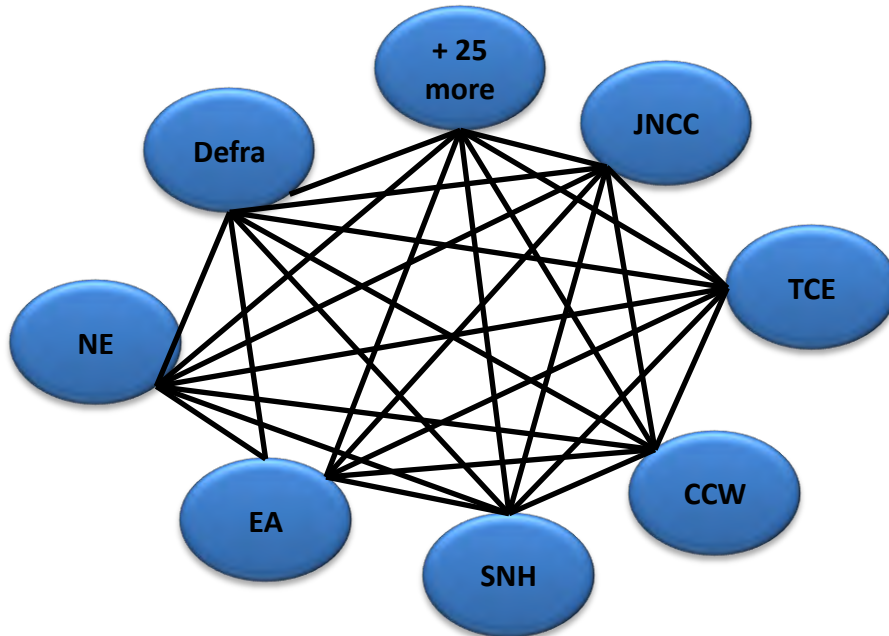


MMO Research Priorities for 2011 – 2015 (SEP)

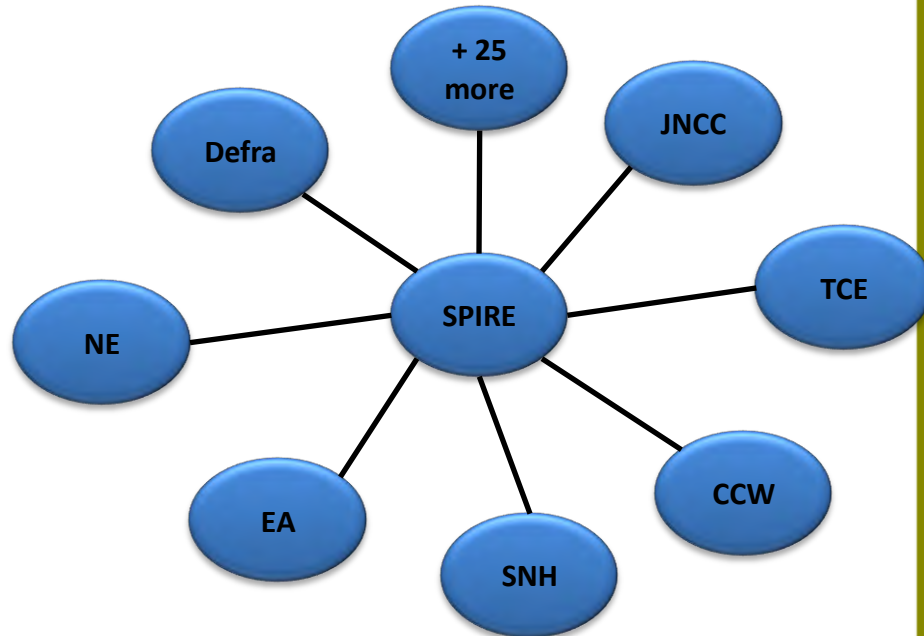
Evidence / Data Programmes	Selected Examples
Co-location	Potential for co-location
Cumulative effects	Cumulative effects from OWF
Fisheries management	Trends and distribution of fisheries resources
Socio-economics	Recreational activities, Shipping Activity, Impact Assessment for East of England Data Review,
Seabed habitat mapping	Enhanced seabed habitat map for East plan areas
Marine Protected Area management	Seagrass ecology Eco-moorings in Lyme Bay
Ecosystem services	Tools and methods (part of socio-economics)
Data mining	Fast track licences Legacy data for licensing

Centralised Data sharing - within the UK

- Aims to move from this:



To this:



- Goal - data to be provided once via the hub and then to other authorised users under terms and conditions agreed by all participants

Metadata

MDR: Data Entry

Master Data Register: Data Entry

Dataset Identification | General Information | Abstract/Lineage | Contact | Limitations | Quality Assurance

Unique ID: 1500008
Dataset Status: Explanation & Source URL: Actions:
Metadata Date: 27/07/2012

Title: Marine Management Organisation - Marine Management Organisation Marine Plan Areas

Alternative Resource Title: Marine Plan Areas Resource Type: Dataset
Resource Locator Name: MMO_Marine_Plan_Areas Spatial Data Service Type: N/A
Resource Locator URL: http://webarchive.nationalarchives.gov.uk/2010050515 Data Theme: Managed Areas
Spatial Data Format: ArcSDE Feature Class Topic Category: Area management / restriction / regulation

XML Symbology Planning Portal SPIRIT SPIRE SPIRE Version: SDE Version: 27/07/2012

1500008 MMO_Marine_Plan_Areas Incomplete

<http://www.marinemanagement.org.uk/evidence/mdr.htm>

Intranet webGIS tool

The screenshot displays a web browser window with a menu bar (File, Edit, View, Favorites, Tools, Help) and a toolbar. The browser address bar shows "SPIRIT". The main content area features the "marine management organisation" logo and a "Map Layers" panel on the left. The map itself shows a bathymetric view of the British Isles, with a toolbar above it containing navigation and zoom controls. The scale is set to 1:7573294 and the projection is WGS 84. The legend on the left lists several layers, including "Infoterra SPIRIT OGC Server" and "SEAZONE Bathymetry" data.

Map Layers

- Marine
- Designated Areas
- Admin Boundaries
- Seazone - Bathymetry/Elevation
- Seazone - Conservation
- Seazone - Natural/Physical
- Seazone - Socio Economic
- Seazone - Structures/Observations
- Ordnance Survey
- Aerial Photography**
- Infoterra SPIRIT OGC Server
 - SEAZONE Bathymetry 1 Min Offshore TS
 - SEAZONE Bathymetry 1 Min Coastal TS
 - SEAZONE Bathymetry 1 Min Europe TSR
 - Aerial Photography Survey 25cm

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Lat = 61°N 28.537 Lon = 0°E 13.992
Department for Environment, Food and Rural Affairs

Done Trusted sites | Protected Mode: Off 100%

External Marine Planning Consultation

- Workshops, web portal, analysis of policy, extensive stakeholder consultation and commissioning of evidence to fill gaps.
- <http://planningportal.marinemanagement.org.uk>

The screenshot displays the 'marine planning portal' website. On the left, a sidebar contains the 'Marine Management Organisation' logo and a 'Welcome' message. The main content area features a map of the East of England coastline with various planning zones highlighted in blue and orange. The map includes a search bar, navigation controls, and a 'View larger map' link. The sidebar text provides instructions on how to use the portal for commenting on draft policies and the evidence base.

Marine Management Organisation

Home View Comment Help Data

Welcome

The marine planning portal is an interactive mapping tool that allows you to contribute to the marine planning process in two ways:


- 1. COMMENT ON THE DRAFT POLICIES FOR THE EAST INSHORE AND OFFSHORE MARINE PLANS (NOW AVAILABLE)**

To view the draft plans and respond to the consultation, [please click here](#).

Where you wish to comment on the maps in the draft East marine plans and these comments are best made as a spatial rather than a free text response, you can do so here. Click on the 'View' tab to view the draft policies for the East marine plans and then use the 'comment' tab to comment on a particular area to which a policy applies.

- 2. COMMENT ON OUR EVIDENCE BASE**

Use the interactive map to view and comment on the marine planning evidence base (currently being used to plan for the south inshore and offshore plan areas). This will include both data owned by third parties and draft data layers produced by the MMO. We welcome suggestions of existing new data to help strengthen our evidence base.

Use the  icon next to the data layer to view further information on the data, including its owner, origin and the date it was uploaded to the portal. As new datasets are developed or acquired by the MMO they will be uploaded to the portal as soon as possible (where the MMO is authorised to do so).

Please note that users must be logged in to make a comment.

marine planning portal

View larger map

Search Find Marine Standard

Challenges we face

- Marine data ownership is complex in the UK
- Not all data is owned by public authorities
- Data quality is not uniform
- There is no single repository for marine spatial data 'products'
- Data protection restricts the sharing of personal data
- Socio-economic data is disparate
- Data maintenance and strengthening is time consuming and costly
- Agreement on trans-boundary data sharing is still in early stages



Progress and Opportunities

- We work with the UK's Marine Environmental Data Information Network (MEDIN) to:
 - maintain a UK marine metadata standard (both ISO and INSPIRE compliant)
 - develop a UK database of UK marine metadata
 - archive raw data and where permitted provide direct access
 - develop data guidelines which ensure standardised data recording and analysis.

<http://www.oceannet.org/>
- We now publish 40 MMO GIS data layers to INSPIRE standards :
<http://www.geostore.com/environment-agency/>
- We are involved in a number of trans-boundary projects (e.g. M.P.E.) and are keen to reach agreement with bordering nations on data sharing



Thank you

Future updates at:

www.marinemanagement.org.uk/marineplanning &
www.marinemanagement.org.uk/evidence

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