## Sharing Environmental Data

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#### **Presentation Outline**



Types of Data

Data Sources Types of Data Scope for Sharing

Platforms for sharing

Use of Data

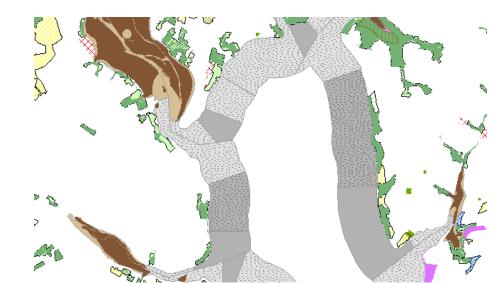
#### Types of Data - Habitats / Species



#### Eunis Code Level?

- Level 1 (A Marine Habitat)
- Level 6 (A1.1122 [Chthamalus] spp. and [Lichina pygmaea] on steep exposed upper eulittoral rock

#### Level 3 (A1.1 - High energy littoral rock)

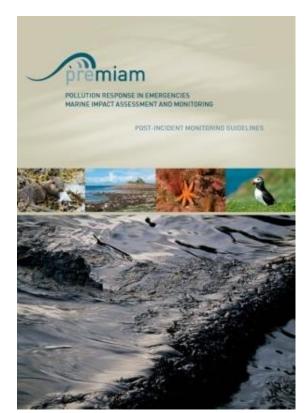


### Types of Data - Sensitivities



#### Gundlach and Hayes 1978

#### **PREMIAM Guidance**



| Factors                                | Ranges   |
|--|--|
| Natural substrate                      | Bedrocks<br>Boulders<br>Rubble and Pebbles<br>Sand<br>Mud flats  |
| Artificial substrate                   | Compact structures<br>Non compact structures (with crevices)   |
| Permeability*                          | Non-permeable<br>Semi-permeable<br>[Oil penetration into sediment <50 cm<br>Permeable<br>[Oil penetration into sediment >50 cm |
| Slope                                  | High (>30°)<br>Medium (5° - 30°)<br>Low (<5°)  |
| Tide range                             | Narrow<br>(Non-formation of mud or sand flats)<br>Ample (Formation of mud or sand flats)                                       |
| Wave exposure                          | Exposed<br>Protected   |
| Biodiversity*                          | Low<br>Medium<br>High  |
| Access and transit<br>on the coastline | Possible<br>Moderated<br>Not possible  |

## Data Sources – What do we have?



Public Data – Various sources

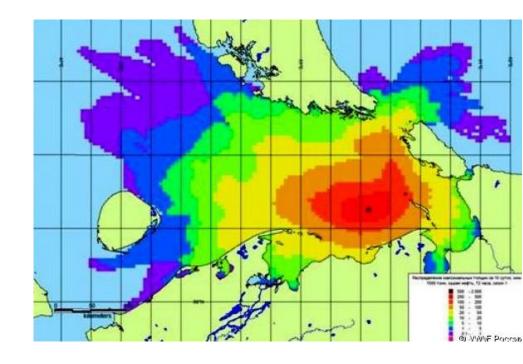
- Public Sector Surveys (NE/EA/CEFAS/IFCA)
- MOD
- Hydrographic Office

MCA - Spill Modelling

Local Authority

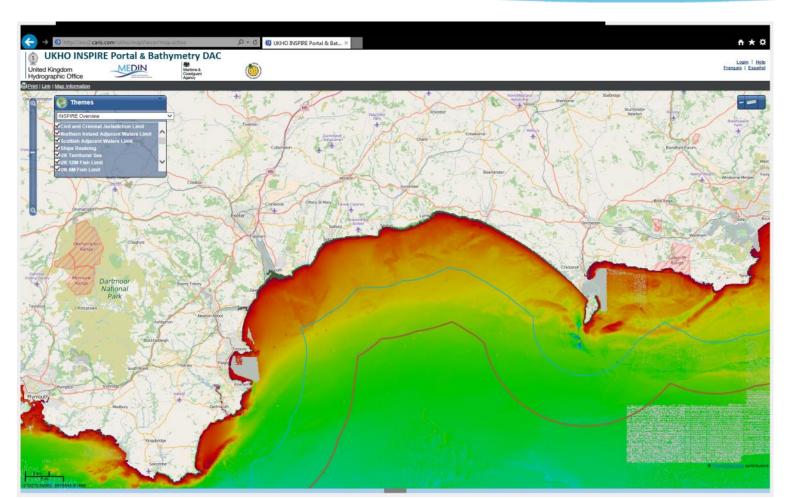
Industry

NGO Sector



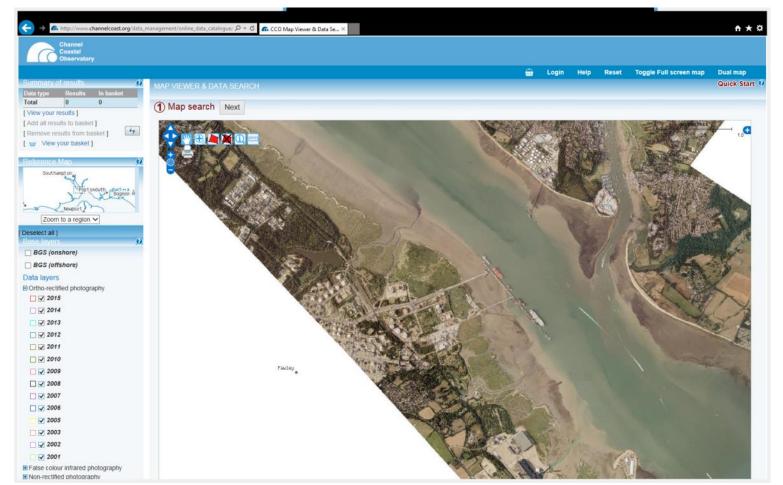
### Data published on UKHO Bathymetry Data Portal





https://www.gov.uk/guidance/inspire-portal-and-medin-bathymetry-data-archive-centre

## Aerial Photography published on the Channel Coastal Observatory website



http://www.channelcoast.org/

### Data Sources – Scope for Sharing



## Platforms (Arc v Map Info v ???)

Datums

Resolution

**Confidence Scores** 





## MAGIC

Access only

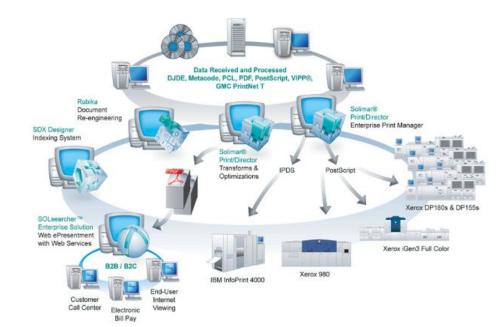
**Data Transfer** 

## Environment Group / PREMIAM Cell

No single platform

## **Resilience Direct**

• Wide enough use?



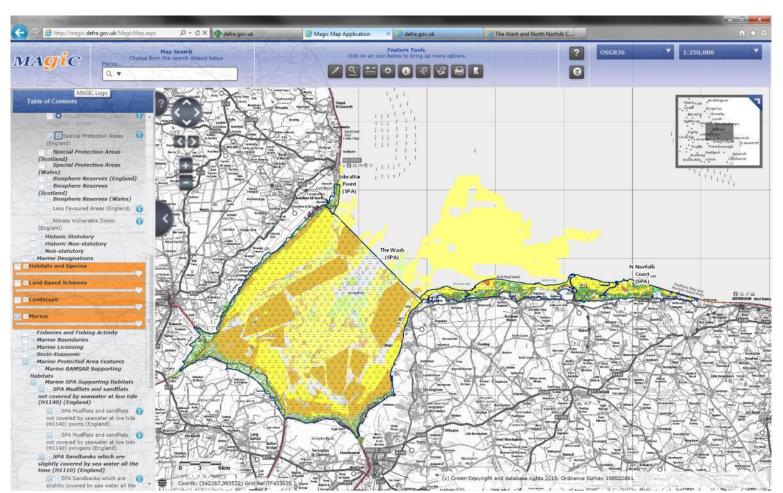


Civil Contingencies Act 2004

An online private 'network' which enables civil protection practitioners to work together – across geographical and organisational boundaries – during the preparation, response and recovery phases of an event or emergency.

#### Products – Data published on MAGIC

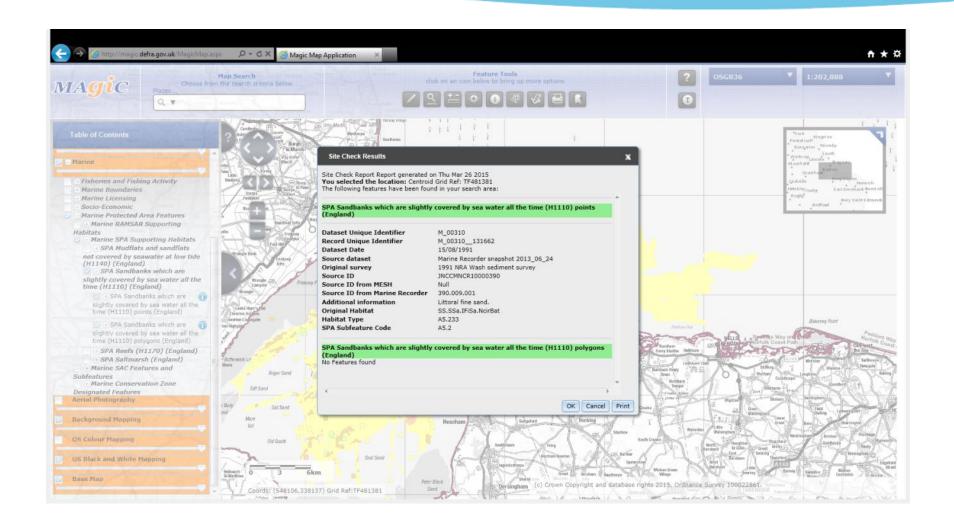




http://magic.defra.gov.uk/

#### Products – Data published on MAGIC



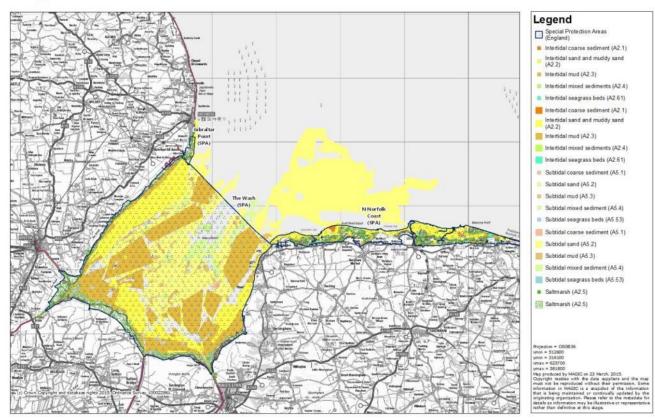


#### Products – Data published on MAGIC



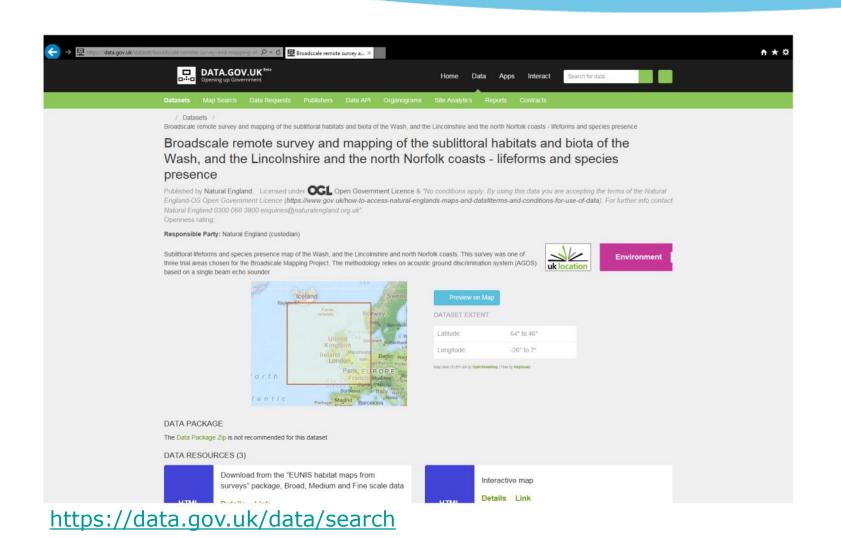
#### MAgic

The Wash and North Norfolk Coast EMS



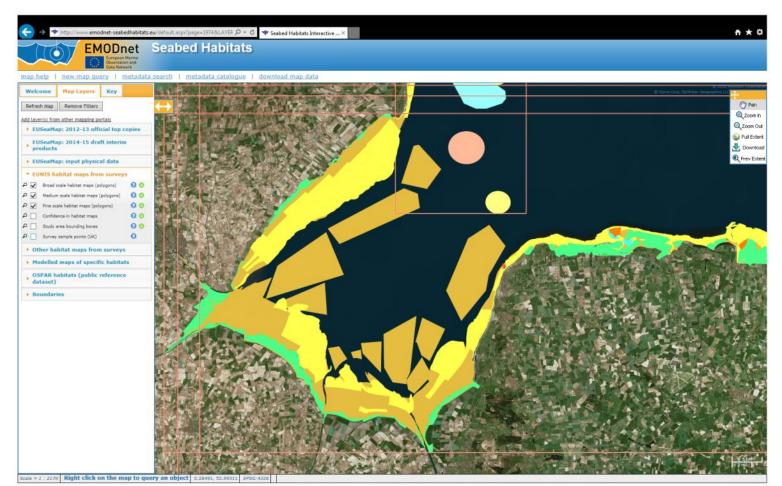
#### Products – Data published on data.gov.uk





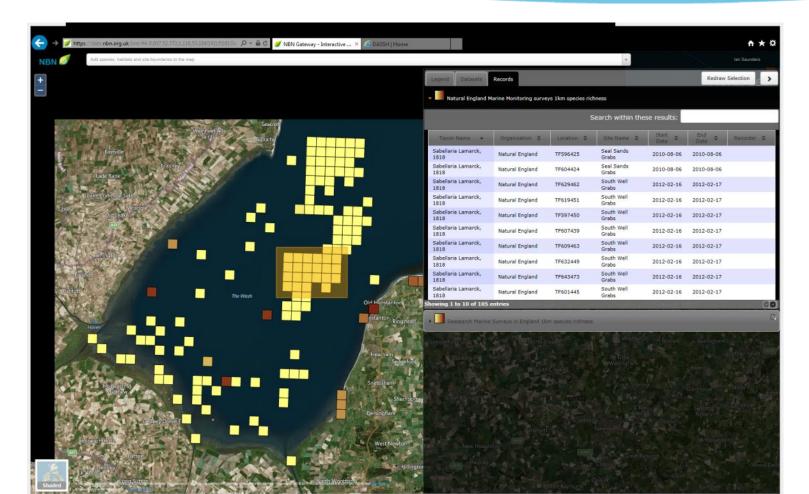
#### Products – Data published on EMODnet





http://www.emodnet-seabedhabitats.eu/

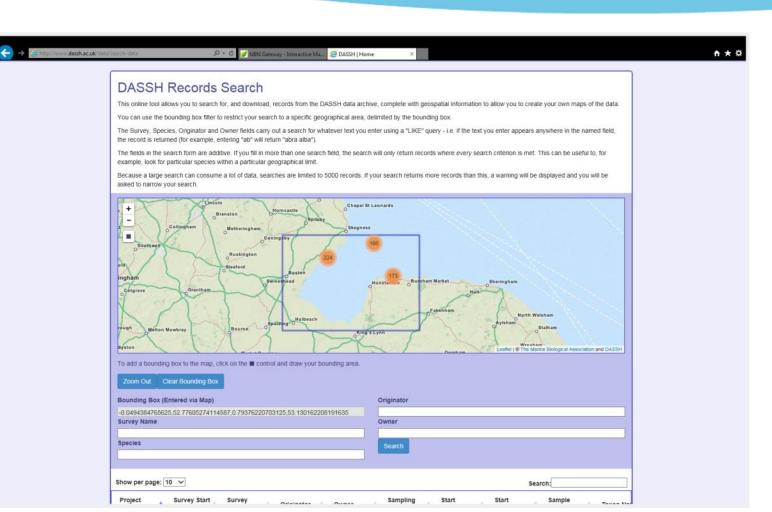
#### Products – Data published on NBN Gateway



NATU

https://data.nbn.org.uk/

#### Products – Data published by DASSH



http://www.dassh.ac.uk/





### Monitoring / Recovery Aims

Baselines

## Defining what to monitor

Habitats / Species

## **Technically Reasonable**

• What will be paid for?

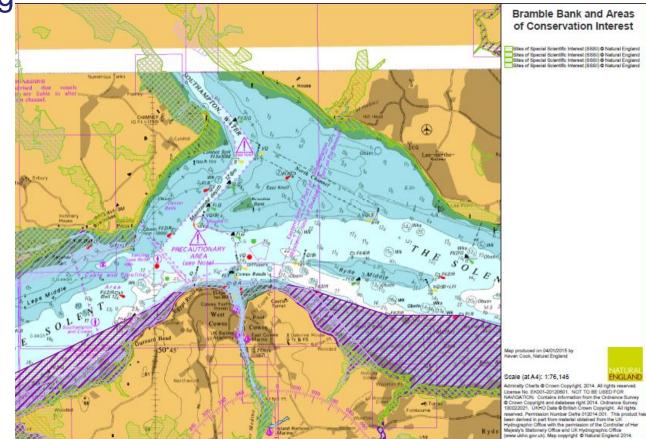


#### Case Study – Heogh Osaka



### Habitat Maps Local input Oil Spill modelling

## Deployment of Resources



# Thank you, Any Questions?