

# Marine Recorder Redevelopment: Integration by design

Graeme.Duncan@jncc.gov.uk





# Marine Recorder



Department of  
**Agriculture, Environment  
and Rural Affairs**



**DASSH**  
Marine Biological Association



**Dorset**  
Wildlife Trust



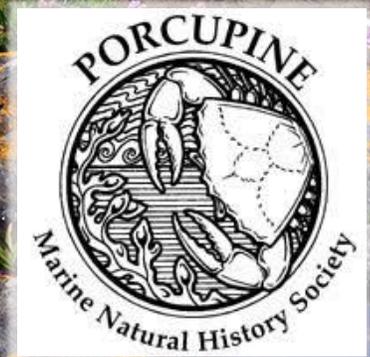
**CEDaR**  
Centre for Environmental  
Data and Recording



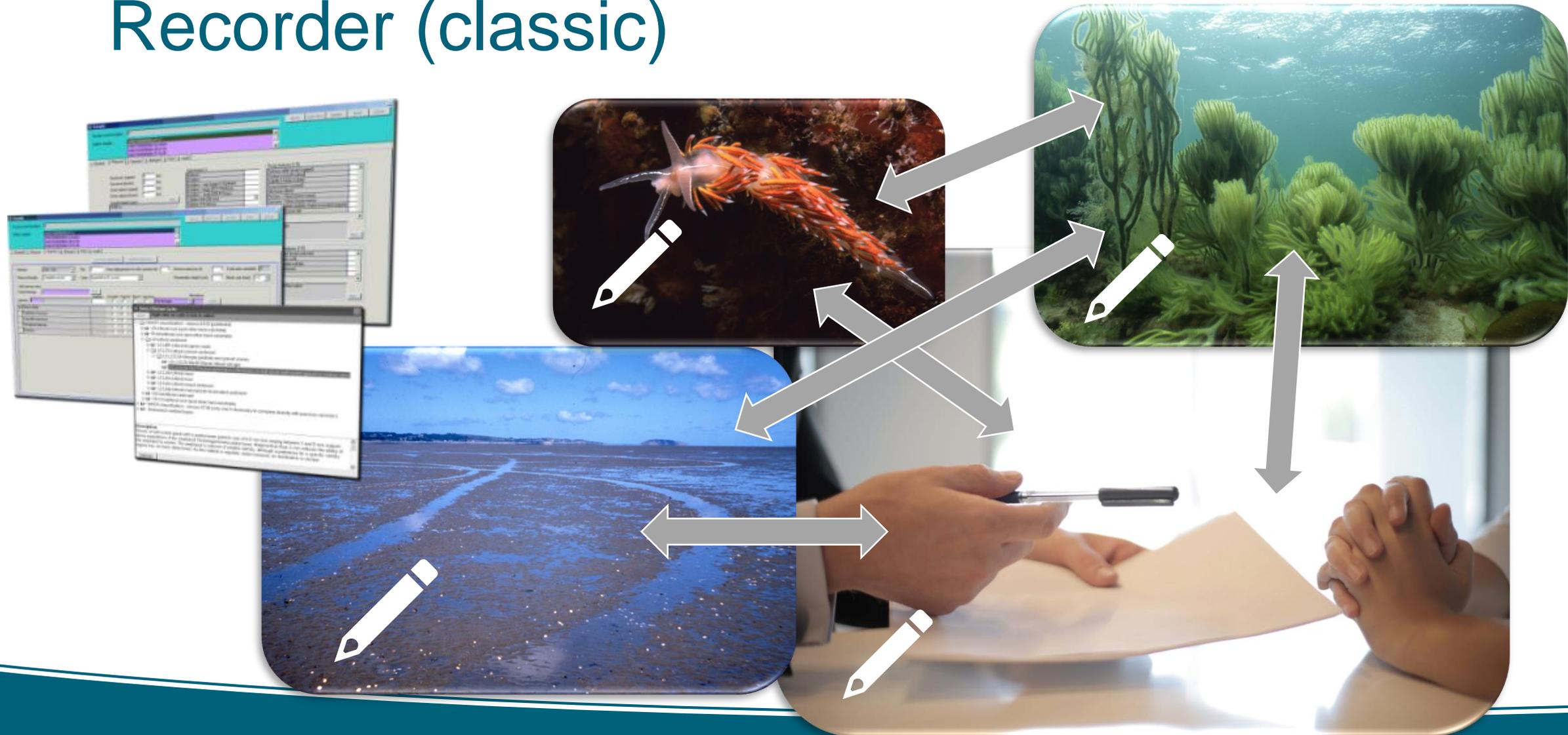
**Cyfoeth  
Naturiol  
Cymru**  
Natural  
Resources  
Wales



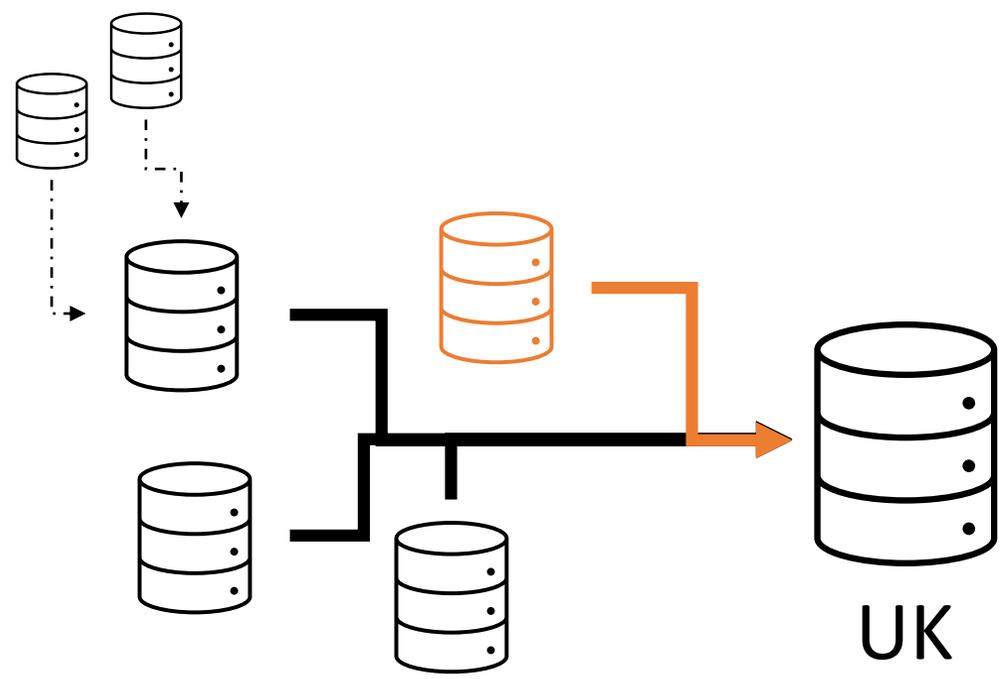
**NatureScot**  
NàdarAlba



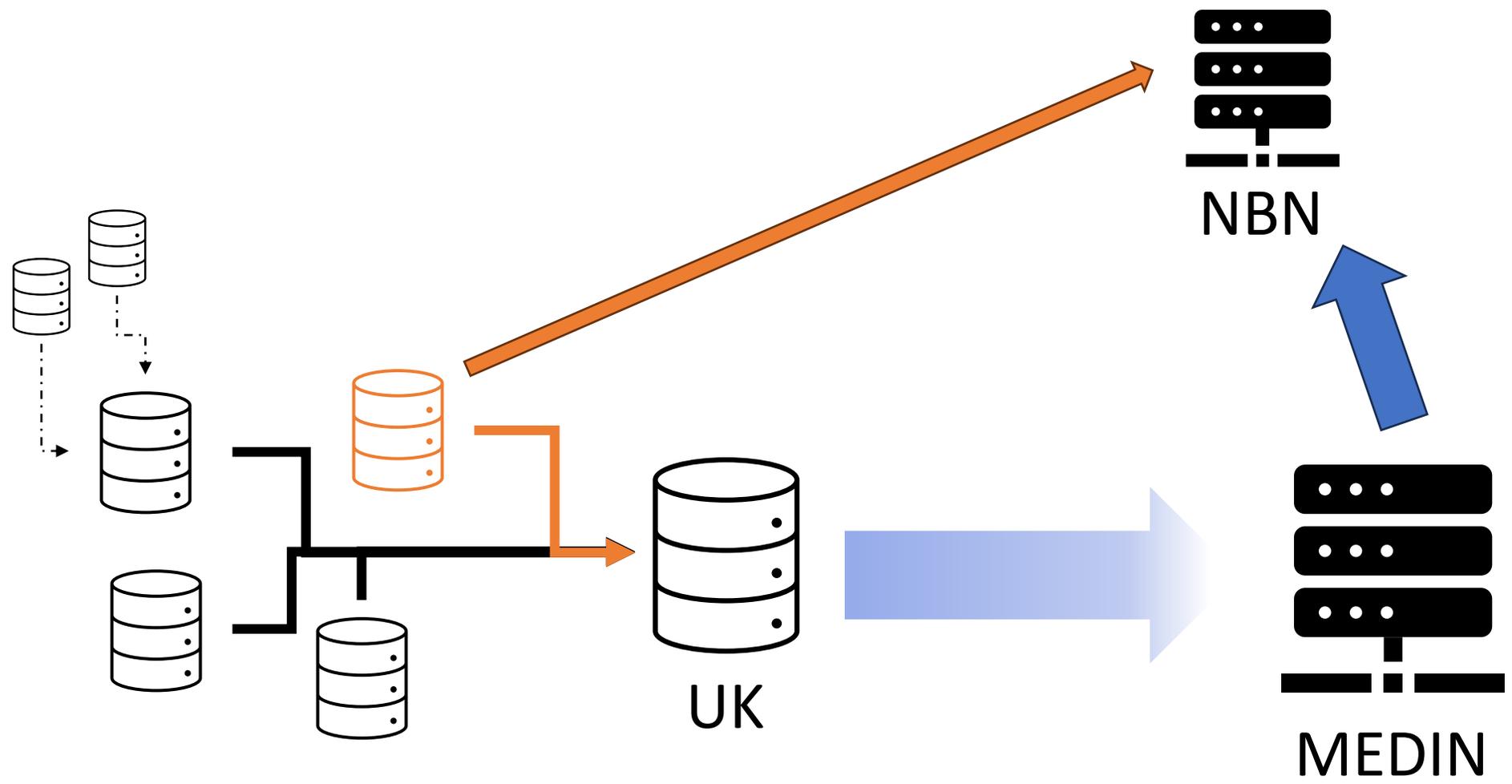
# A little background to Marine Recorder (classic)



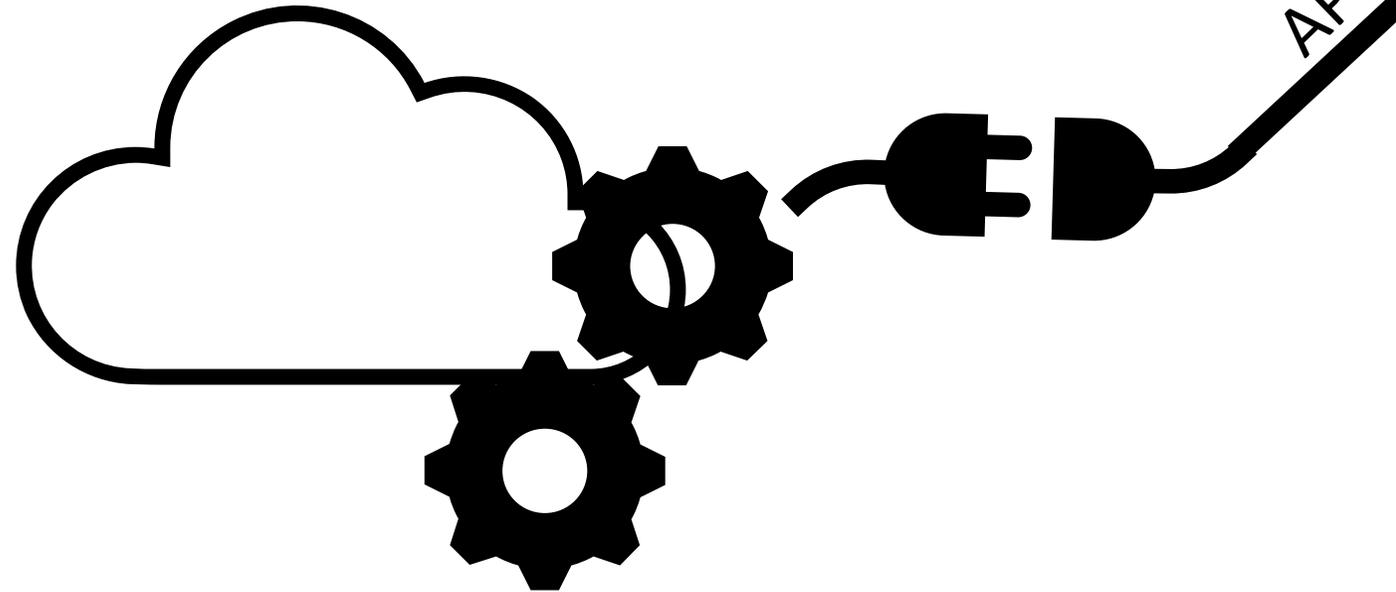
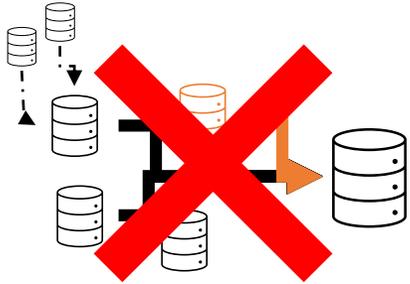
# However...



However...



# A New Marine Recorder...



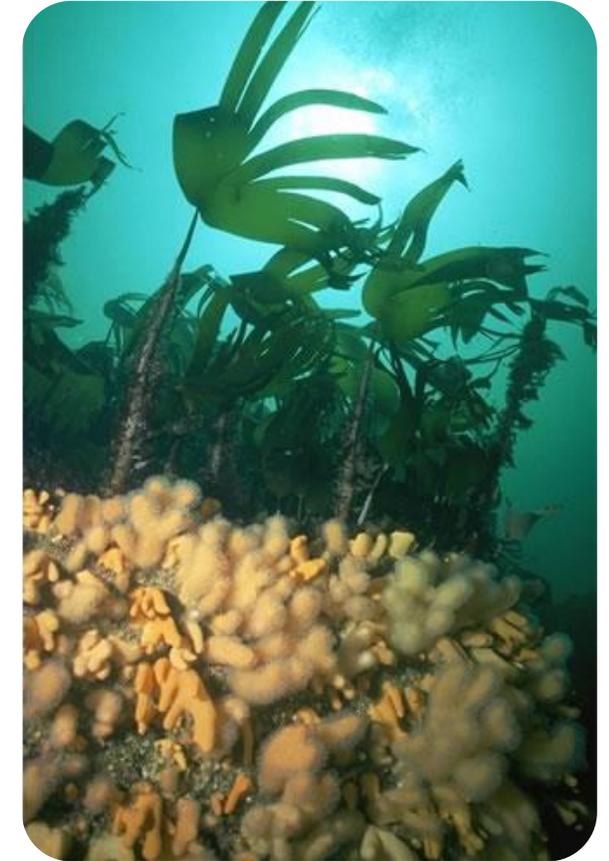
*...The system will enable users to improve public engagement by enabling the flow of data to wider UK and international systems, fulfil their open data obligations, and ensure the persistence of their data by working alongside and integrating with current data infrastructures and standards...*

# Integration by design



Single point of data management  
Curation of similarly collected data  
Consistent + full data model

Archive  
Flexible collation  
Dissemination node  
Cross terrestrial/marine domain



# Integration by design

Archive  
Flexible Collation  
Dissemination node  
Cross terrestrial/marine domain



**DASSH**

Marine Biological Association



Data model  
synergy

MSBIAS

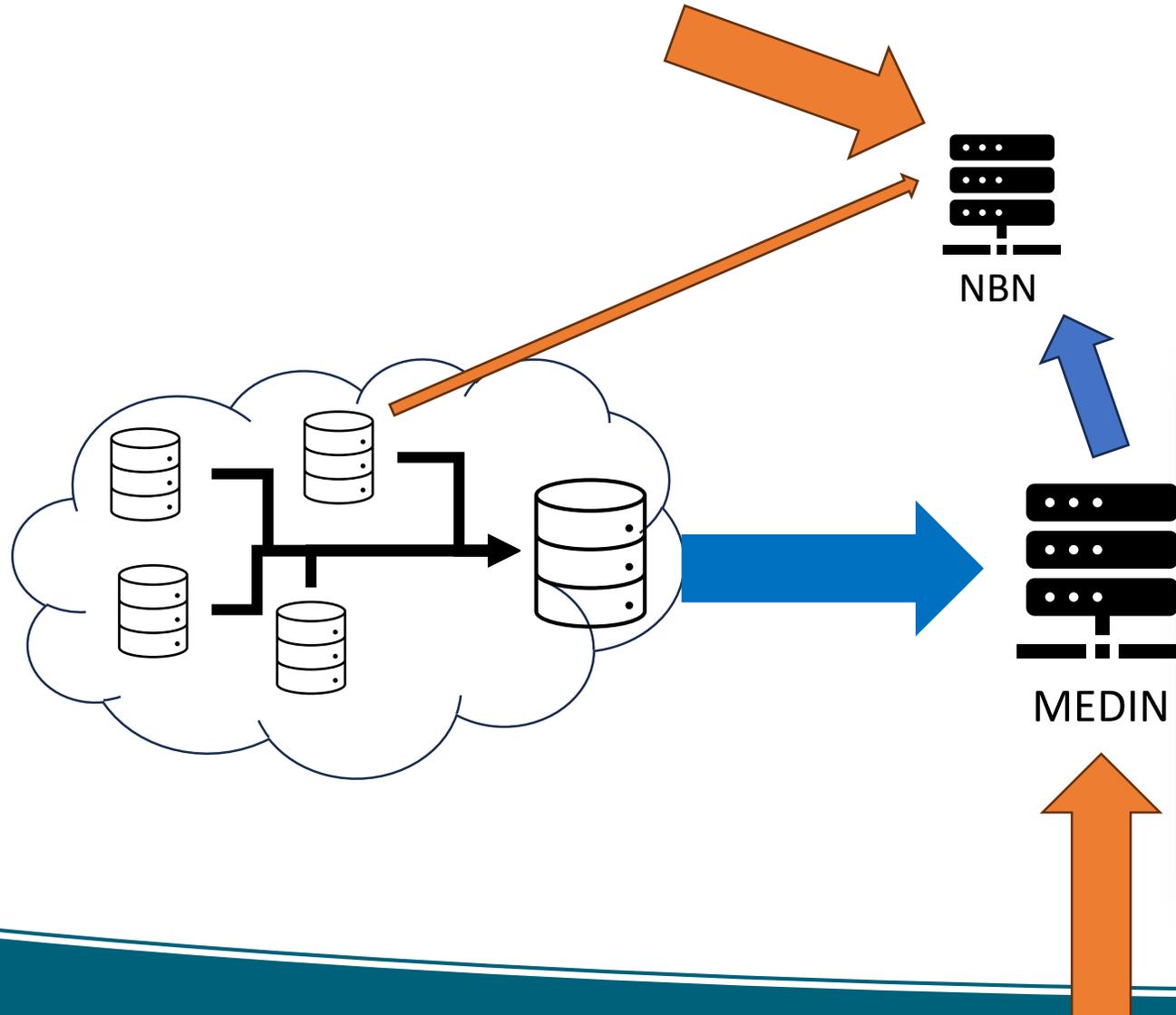
Handling complex flows

Vocabularies

MEDIN  
metadata  
reference

Automated flows

# Dealing with complex flows...



**Publish**

This will immediately freeze the survey data. This will prevent any changes to data until the survey data is unfrozen. Survey data lock is not affected.

**Survey**  
Bigbury-on-Sea Breakwater Benthic Monitoring Survey

Survey Event **Port Quin**

REPLICATES BIOTOPE OCCURENCES PHYSICAL

**CREATE REPLICATE**

Replicate Name Method Name Edit Replicate

No records available.

No items to display

**SAMPLE EVENT POSITION**

Map showing location with checkboxes:  Show Parent Survey Event,  Show Sibling Sample Events

**Basic**

Sample Event Code **SE2\_02**

Sample Event Name **Transect2**

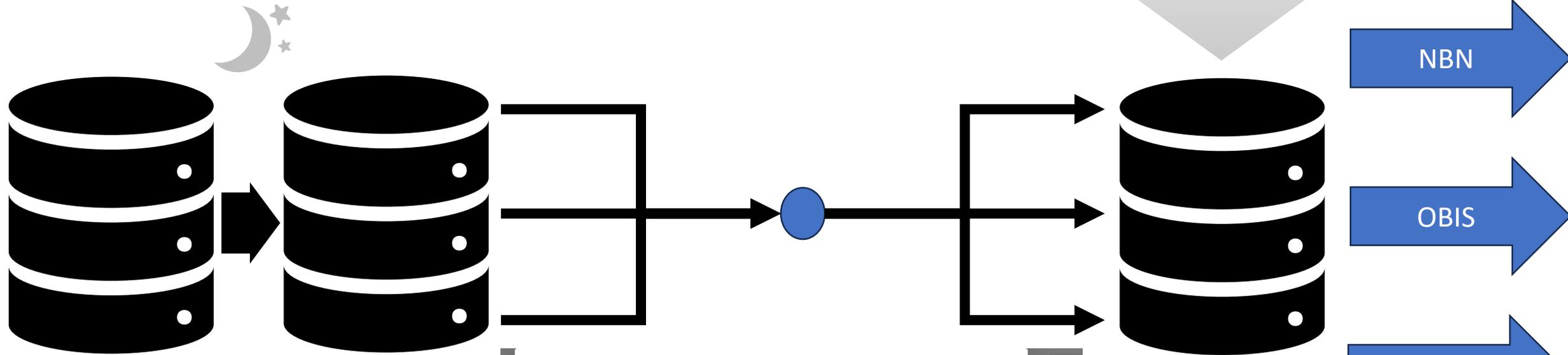
Sample Event Type **Transect**

Sample Event Notes **Enter response**

**Sample Event ID**

7727fdde-8892-40fc-a77d-1d27409cc225

# Automated flows



Management

Reporting

## Marine Recorder Online

Publish

This will immediately freeze the survey data. This will prevent any changes to data until the survey data is unfrozen. Survey data lock is not affected.

Survey  
Bigbury-on-Sea Breakwater Benthic Monitoring Survey

Action  
Publish

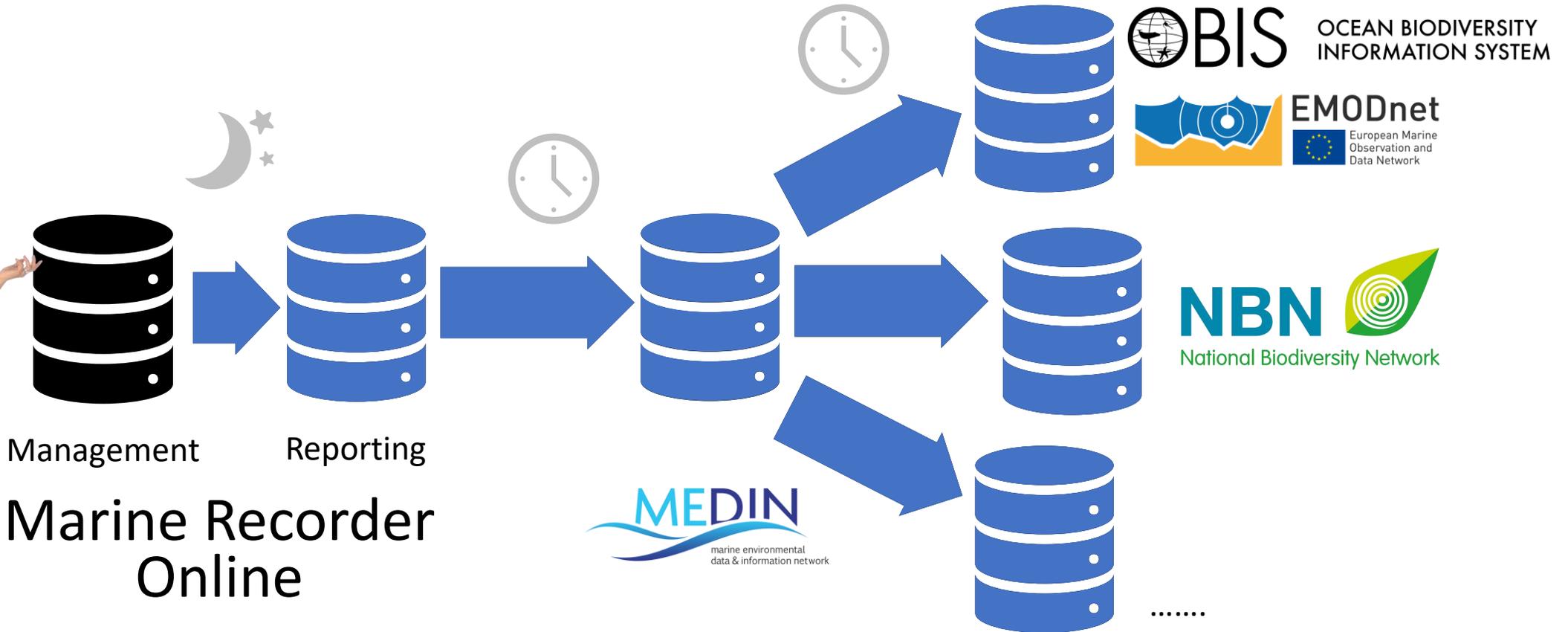
Archive  
 Archive in MEDIN  
 Disseminate to OBIS  
 Disseminate to NBN

Reason  
Enter response

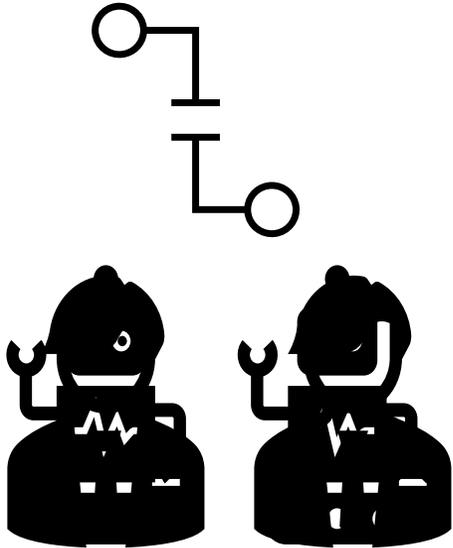


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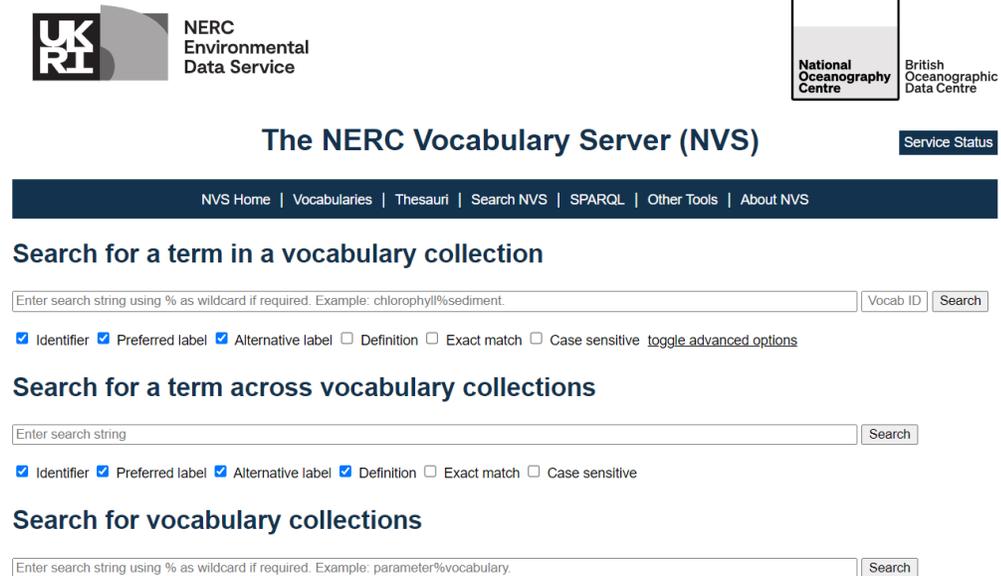
# “It all just happens”



# Future work...



APIs

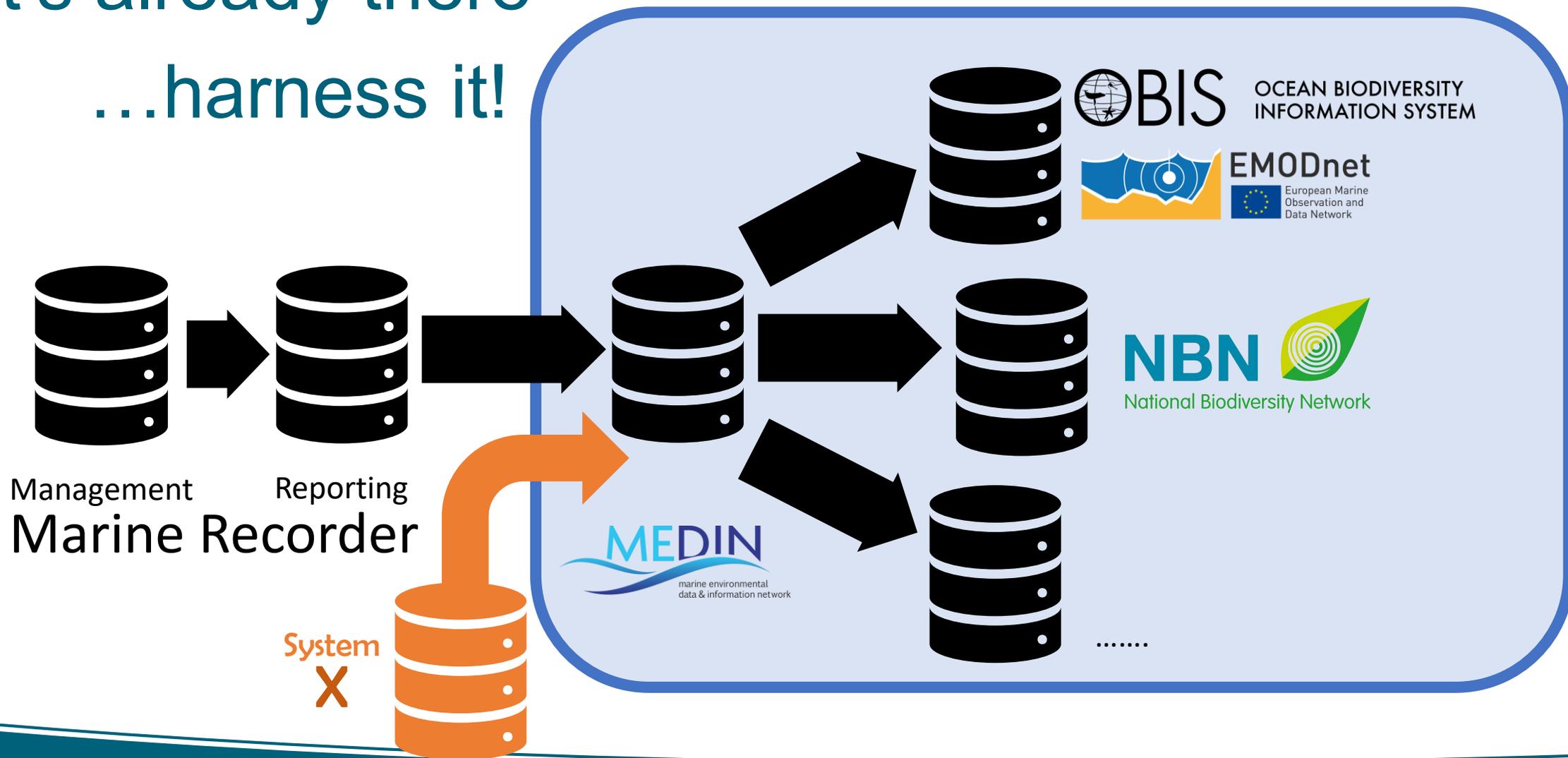


The screenshot shows the NERC Vocabulary Server (NVS) website. At the top, there are logos for UKRI, NERC Environmental Data Service, and the National Oceanography Centre / British Oceanographic Data Centre. The main heading is "The NERC Vocabulary Server (NVS)" with a "Service Status" link. Below this is a navigation bar with links: NVS Home | Vocabularies | Thesauri | Search NVS | SPARQL | Other Tools | About NVS. The page features three search sections:

- Search for a term in a vocabulary collection:** Includes a search input field with a placeholder "Enter search string using % as wildcard if required. Example: chlorophyll%sediment.", a "Vocab ID" field, and a "Search" button. Below the input are checkboxes for "Identifier", "Preferred label", "Alternative label", "Definition", "Exact match", and "Case sensitive", along with a "toggle advanced options" link.
- Search for a term across vocabulary collections:** Includes a search input field with a placeholder "Enter search string" and a "Search" button. Below the input are checkboxes for "Identifier", "Preferred label", "Alternative label", "Definition", "Exact match", and "Case sensitive".
- Search for vocabulary collections:** Includes a search input field with a placeholder "Enter search string using % as wildcard if required. Example: parameter%vocabulary." and a "Search" button.



It's already there  
...harness it!





Any questions?



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**Cyfoeth  
Naturiol  
Cymru  
Natural  
Resources  
Wales**



**NatureScot  
NàdarAlba**

