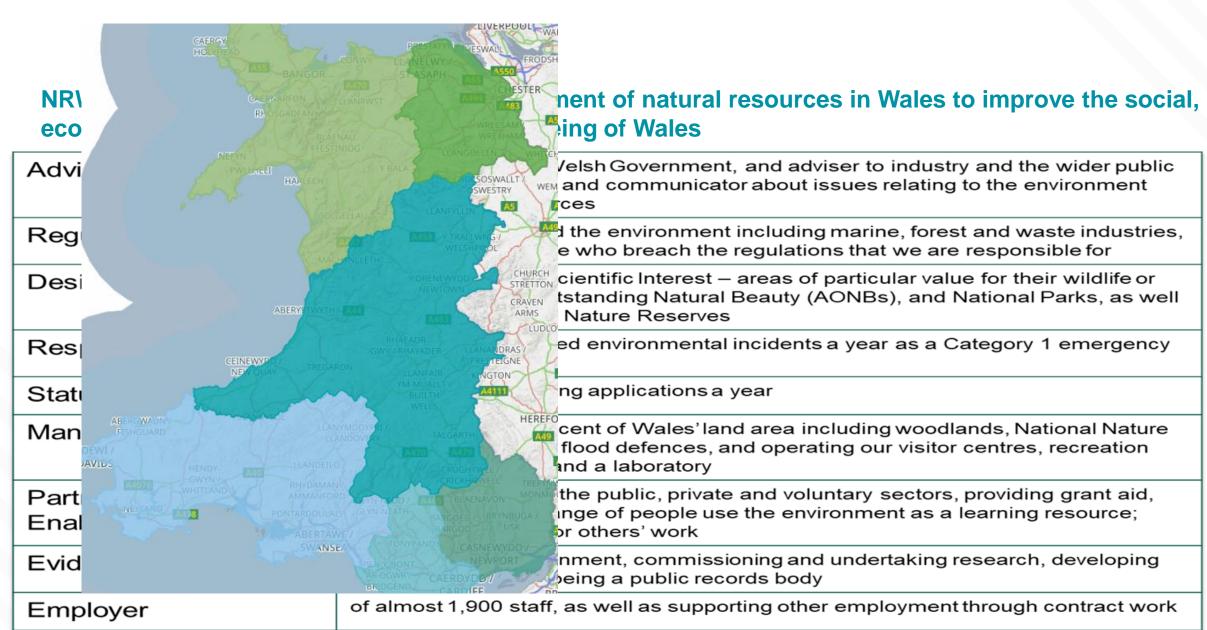




NRW's journey to Open Data and proactive data sharing

John Beattie, Data Advisor Natural Resources Wales

Who is NRW?



Who is NRW

NRWs role is to: pursue sustainable management of natural resources in Wales to improve the social, economic, environmental and cultural well-being of Wales.

Key Marine Areas Include:

Marine and Coastal Ecosystems

Expert strategic advice and evidence on marine and coastal ecosystems informing development of policy, plans and guidance

- Benthic habitats and species
- Coastal habitats and species
- Seabirds
- Marine mammals
- Marine fish
- Physical processes
- Impacts of fisheries
- Non-natives

Senior Specialist Advisor Marine

- Management of NRW's Marine Programme
- Driving internal and external collaboration
- Developing and managing strategic relationships
- Manage Marine People and Places work programme

Marine and Coastal Policy and Planning

Expert advice on marine and coastal planning and policy

- Marine planning
- Marine industries
- Offshore renewable energy
- Marine protected areas
- Marine biodiversity, conservation and ecosystem resilience
- Marine fisheries
- Coastal Management and coastal adaptation
- Marine litter
- SMNR principles and approache

Marine Monitoring Marine Projects

Planning and delivery of marine monitoring

- Sediment and water chemistry
- Marine ecology
- Physical parameters
- Marine activities

Delivering environmental improvement projects to address marine water quality and issues across Marine Protected Areas

 Project delivery supported via WG Capital funding

Marine Licensing

- Administering and determining marine licence applications
- Pre application advice
- Determining requests to vary marine licences
- Post consents works including applications to discharge conditions of a marine licence

Marine All Wales Advice

Expert technical advice on projects and activities across Wales

- Subtidal, intertidal and saltmarsh habitats and species
- Marine mammals
- Seabirds
- Fish and fisheries
- Marine industries and energy
- Physical processes
- Water quality
- Biosecurity and non-natives
- Coastal management
- River basin management
- Area Statement
- Well-being

Regulatory Approaches

Expert advice on marine regulatory policy

- Policy positions for Marine Licensing
- Develop Marine Licensing guidance
- Improving the regulatory process

Area Advice and Management

Expert technical advice and first point of contact locally in relation to projects and activities across Wales

- Developments and projects
- Marine Protected Area (MPA) conservation and management
- Cockle advice and management
- The Dee Conservancy Area-specific projects

Where did we start?

We needed to:



- Agree a single position in terms of adopting open data as a default position for our raw data
- Separate raw data for England and Wales into Wales only and store centrally in new NRW infrastructure
- Identify datasets that should be considered for proactive release
- Develop an assessment criteria (relevant to the kind of data we hold) to identify where release may be limited (sensitive/confidential information)
- Select or create appropriate licences (OGL for open data, NRW conditional licences or Contractor Licence for restricted data)
- Find a suitable mechanism to publish our Open Data through, to maximise its use.

Our process - Rapid Assessment Criteria & Decision process

NRW Open Data Position:

"NRW recognises the importance of providing our customers with easy access to our data and, where possible, permitting re-use with minimal restriction. Our policy is based on a presumption to share our raw data openly unless there is a good legal or business reason to restrict access"

Pass



Fail



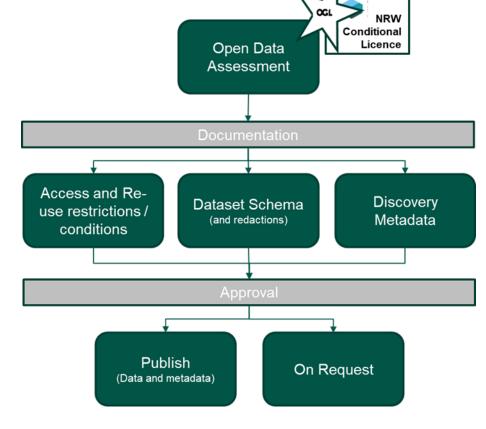
1	Personal data	As defined under Data Protection legislation unless part of a Public Register
2	3 rd Party Data	May including new NRW data derived from third party data. We always need to refer back to 3 rd party data licence
3	Confidential Information	e.g. commercially confidential information
4	National Security concerns	e.g. information about radioactive substances or public water supplies
5	Safety of staff/public, sites/property, habitats/wildlife	e.g. monitoring equipment and loggers or species/habitats identified as vulnerable to deliberate harm
6	Enforcement or legal information	e.g. information that could invalidate or damage ongoing criminal investigation
7	Other sensitivities	e.g. where a short term embargo on release is in place, where information could be misleading or misunderstood
8	Free text fields	Need to check for comments and other free text that may include any of the above or comments that could cause damage to NRW reputation

Our process - Rapid Assessment Criteria & Decision process

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Our process – Improving availability & sharing of marine data

From Day 1 of NRW, we were able to make use and build on some existing legacy systems and processes to:

- Publish NRW discovery metadata catalogue on NRW website
- Harvest discovery metadata for NRW marine datasets to the MEDIN discovery metadata portal
- Functionality to harvest discovery metadata for dataset to data.gov/Find open Data
- Agreement and account in place to publish (marine) biological data on the NBN Atlas. NBN Atlas for Wales created.

NBNatlas

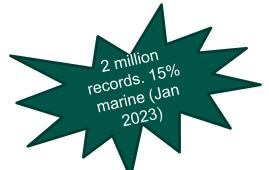
But from Day 1 no mechanism to publish the rest of our (mainly geospatial) data

Partnered with Welsh Government who were developing the Lle Geo-Spatial portal for Wales. Approved as NRWs official publishing, mechanism in 2017

By 2018 WG were looking at improving and expanding Lle and moving to new infrastructure. March 2021 new











Proactive supply- Improving availability & sharing of marine data



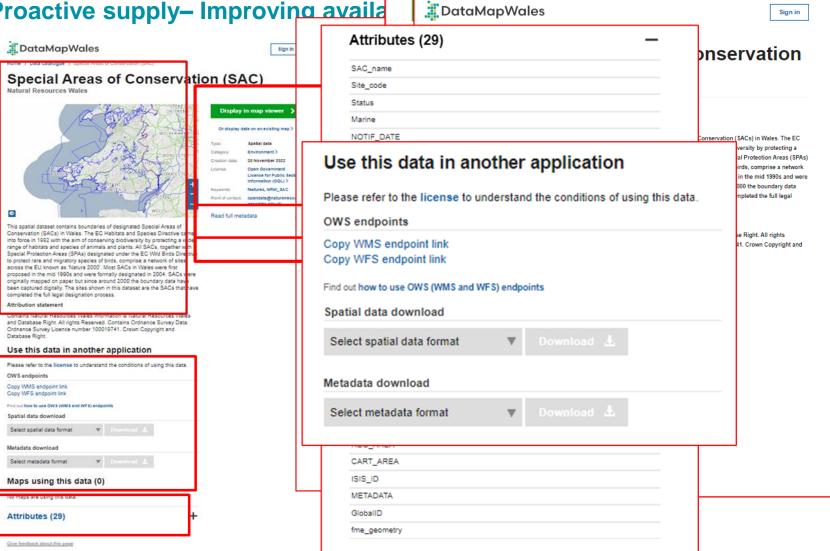
What is DataMapWales?

DMW has been developed by the Welsh Government as a replacement for the Lle Geospatial portal for Wales.
DMW vision Statement:

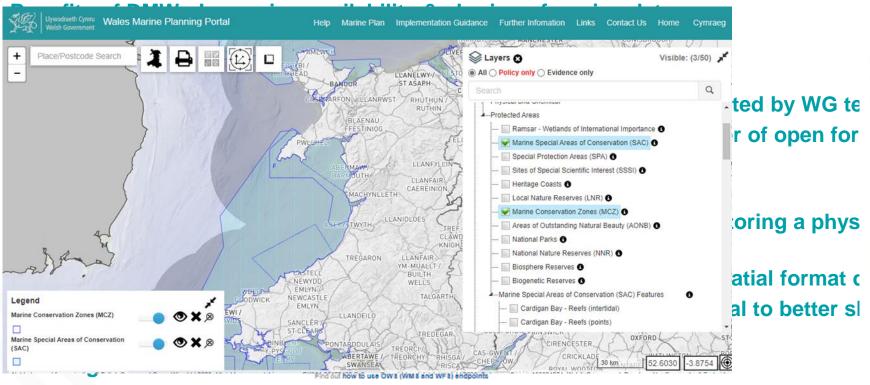
"To become the authoritative and recognised geo-spatial data source for public sector data in Wales. Providing a shared data platform to public authorities whilst also enabling all those who need access to use data for their own purposes."

- Live in Sept 2022, NRW data fully migrated Jan 2023
- DMW is a Catalogue, View and Download service as well as online map tool that allows users to create their own views on Welsh Public sector data
- NRW is using DMW as a single point of discovery for our Open Data.
- Customers can obtain downloads of the data or use through a WMS/WFS without the need to contact NRW saving NRW staff time
- NRW currently has 172 catalogue entries, made up of 500+ data layers
- Approx ¼ of entries relate to the marine environment in some way (Jan 2023.).

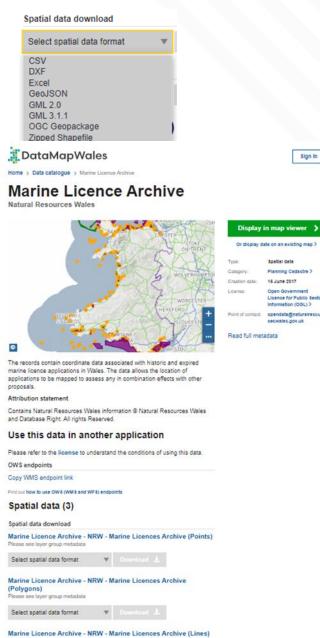
Proactive supply- Improving availa

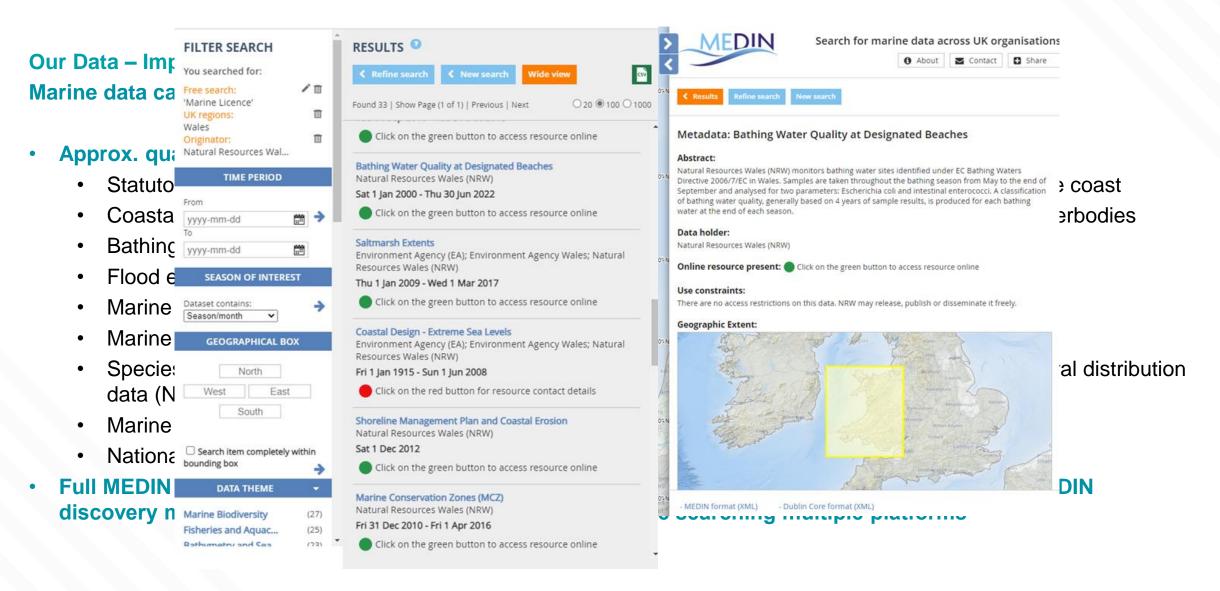


Dienlay in man viewer



WG/NRW developing FME processes to automate data loads and updates

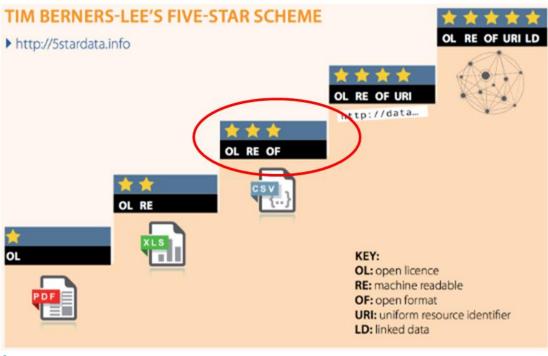




Next Steps – Priorities for future

Open data

- Can we increase the level of "
- More use of automation to ext
- Improving and rationalising o
- Improve the metadata held on
- More Marine Data!! What do



DMW

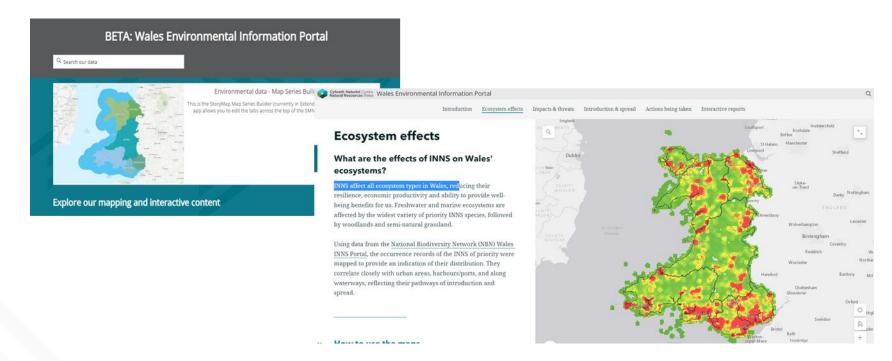
What do WG have in store for DMw?

- Developing tools based on DMW platform and data e.g. constraints planning tool
- Investigate discovery metadata ingest from Gemini XML feeds
- Gov.notify messaging e.g. messages when data changes
- Geostories (similar to ESR Storymaps)
- Finalise Cloud optimised geotiffs (COGS).
- Mobile improvement
- Secure groups and organisation groups to allow collaborative work to develop datasets across different public bodies or share restricted dataMore Welsh Public sector data and suppliers

Next Steps – Priorities for future work

Data Visualisation and Interpretation

- NRW MapViewers (Flood viewers, Peatland Data Portal, Bathing water quality)
- Wales Environmental Information Portal



Contacts and Information

NRW support pages

NRW Website: Natural Resources Wales / Accessing our data

Contacts

- NRW open data support opendata@cyfoethnaturiolcymru.gov.uk
- DMW support <u>dmwsupport@gov.wales</u> & WG data support <u>data@gov.wales</u>

Other Links

- NRW Library and Metadata Catalogue (use Search Option "Dataset Titles") https://libcat.naturalresources.wales/folio/
- DataMapWales: https://datamap.gov.wales/
- NRW Wales Environmental Information Portal
- NBN Atlas for Wales https://wales.nbnatlas.org/

Thank you!







