marine scotland

Scottish Government
Riaghaltas na h-Alba
gov.scot

An Open Data Network supporting Marine Planning, Science, and Policy

IMDIS 2018 - Session 2 - Abstract#130: Jens Rasmussen, Martyn Cox, Liam Mason, Drew Milne, and David Tulett

GOALS

- Increase reuse of data
- Persistent identifiers
- Better citation
- Clear licensing
- Better collaboration
- Machine readable access
- Managed workflow
- Open and transparent

REUSE
PUBLISH
ACQUIRE
ANALYSE
ORGANISE

DRIVERS

- Marine spatial planning
- Evidence for policy
- Open Data Strategy
- INSPIRE legislation
- Foster partnerships
- Stakeholder involvement
- Cost efficiency
- Support Blue Economy

PLATFORMS

MAPS

- Access 941 geospatial layers
- Search by keyword or geography
- Create and submit spatial data
- Create, save, and share maps
- Time-aware layers
- Spatial query of layers

- SaaS
- GeoServer
- OpenLayers

- WMS
- WFS
- WCS
- Inventory catalogue

MS Map example: Scotmap project - nephrops trawl vessels

MS Map example: Salmon and sea trout - reporting location

http://maps.marine.gov.scot

INFORMATION

- Access 365 information pages
- Linking to maps & data (2680 links)
- Search engine friendly
- Lay summaries
- Theme structures (maps, data, info)
- Project and License documentation

- PaaS
- Drupal
- 121 modules

- JSON/XML Feed of info pages
- RSS subscription for providers
- RDF Mapping in progress

MSI example: Inshore Fisheries Mapping Project in Scotland

MSI example: Salmon and sea trout data sources

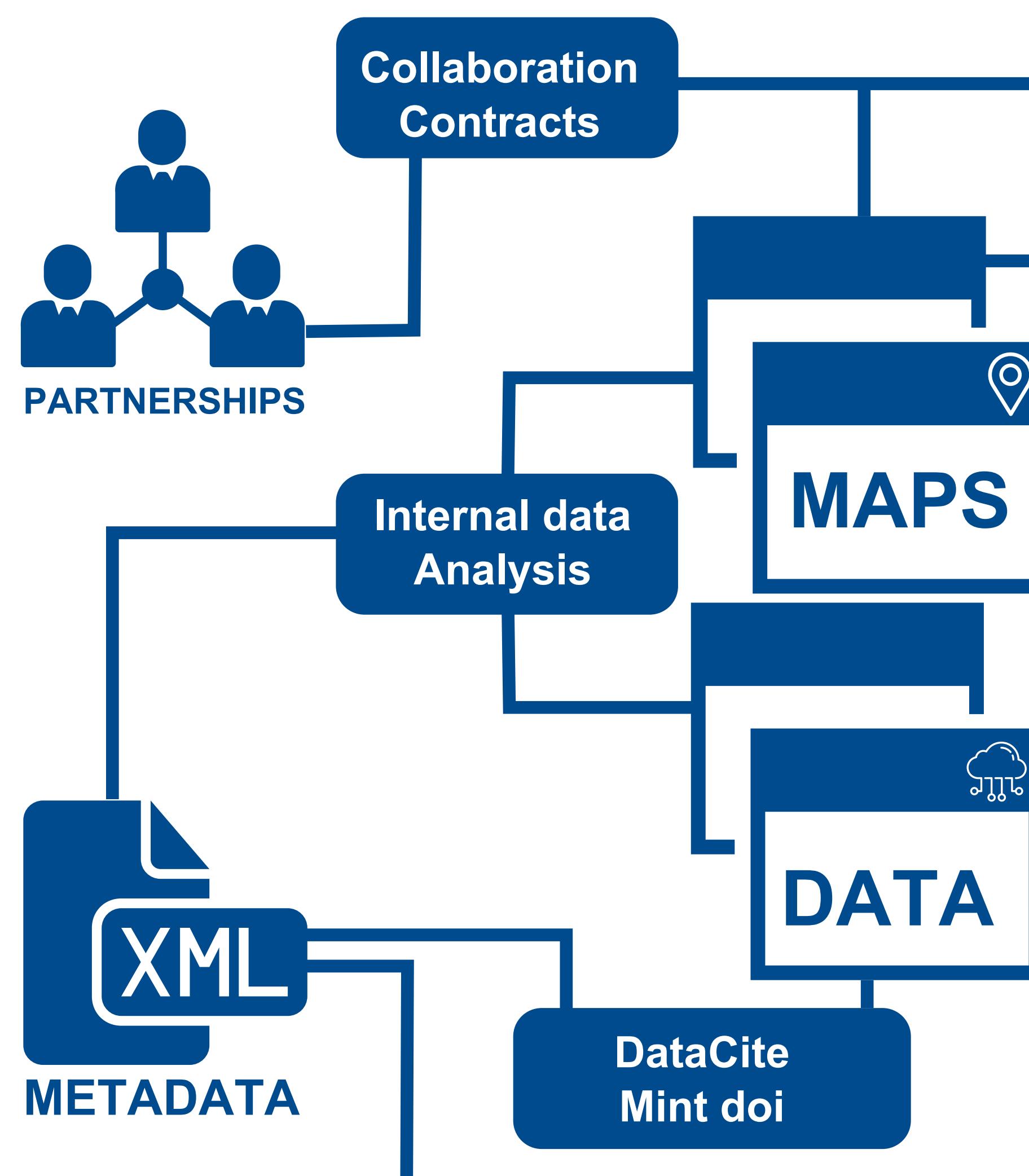**http://marine.gov.scot**

DATA

- Access 196 datasets
- 610 downloadable resources
- Citation and doi for each dataset
- Reports with tables as csv
- Preview and graphing of data
- Bulk download/ zip dataset

- SaaS
- Drupal
- DKAN Distro

dkan

- DKAN API for data retrieval
- JSON/RDF for each dataset
- DCAT & DCAT-AP catalogues

MS Data example: Scotmap project and data

MS Data example: Salmon and sea trout angler form returns

https://data.marine.gov.scot

SERVICES & DELIVERY

PARTNERSHIPS

Collaboration Contracts

Internal data Analysis

MAPS

DATA

XML
METADATA

DataCite Mint doi

Background info Services & Data

Spatial data services (WMS)

JSON Catalogue Feeds Import

DCAT Catalogue Feeds Import

DKAN data API

Fisheries Data Archive Centre

INFO

INSPIRE & National geospatial

SSDI Scottish Spatial Data Infrastructure Metadata Portal

Planning & Policy development

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Public Interest

Open Data use & code examples

github.com/ MarineScotlandScience

UK-wide marine data catalogue

MEDIN marine environmental data & information network

F FINDABLE
Metadata (ISO19115) distributed to national data portals and own systems. Central repository for consistency.

A ACCESSIBLE
Data retrievable by persistent identifiers (doi). Metadata published, even when data is not. Most data is UK Open Government License.

I INTEROPERABLE
Utilise existing SeaDataNet vocabularies & quality flags. Documented API & examples Implementing existing OGC, ISO and DCAT standards.

R REUSABLE
Each dataset described including QC and origin. Clear licensing on all data. Using non-proprietary formats where possible.

@ **jens.rasmussen@gov.scot**