EMODnet - Ingestion and safe-keeping of marine data

By
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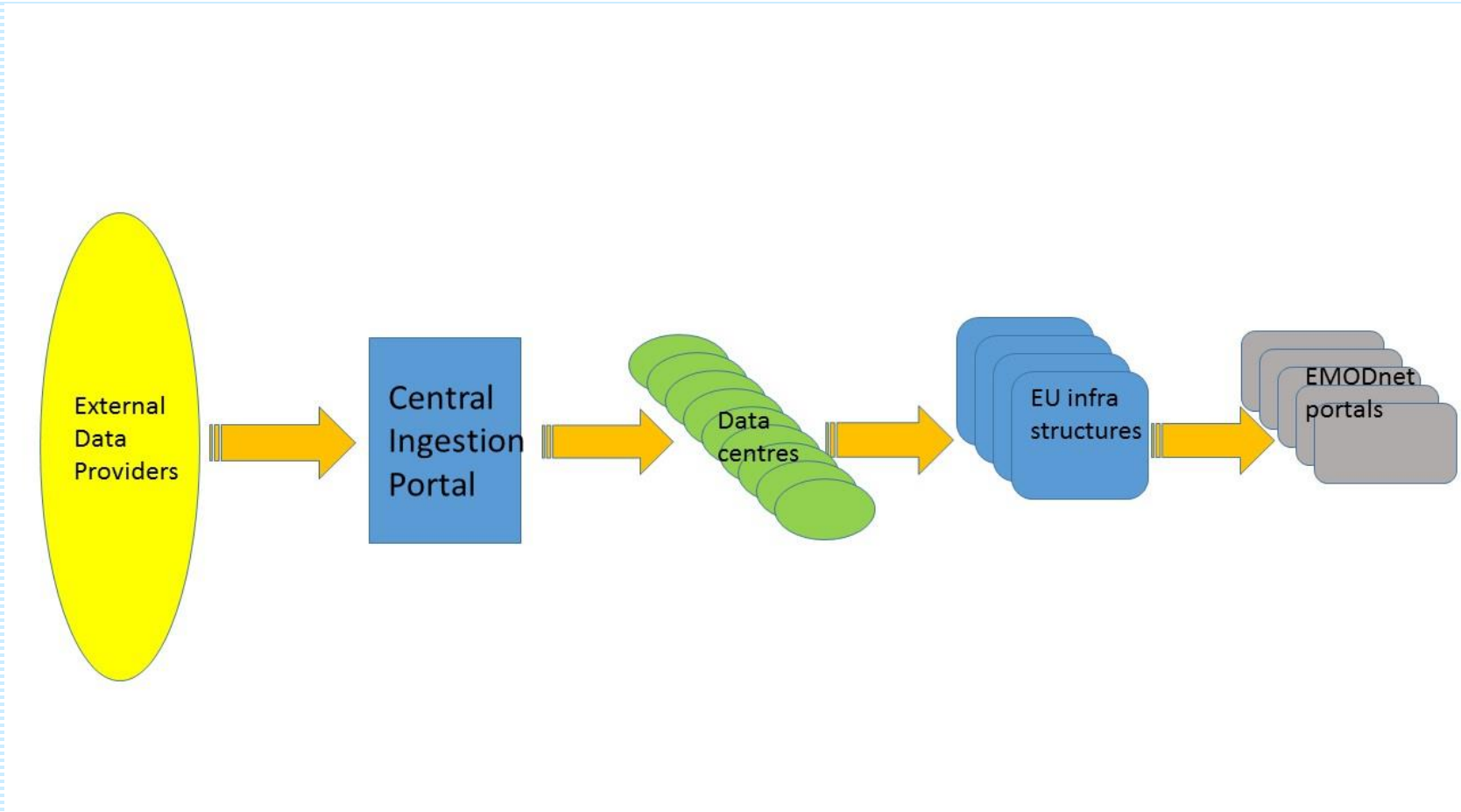
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General objective

To develop and operate a new EMODnet portal with services that facilitate data holders from public and private sectors to submit marine data sets for further processing and safekeeping by data repositories and subsequent distribution through EMODnet thematic portals

Context:

- Data repositories are existing data managing organisations in EMODnet such as NODCs, Hydrographic Offices, Geological institutes, Biological institutes, etc

- Primary focus is on data providers and their data sets that are not yet handled and part of the mainstream processes of these data repositories
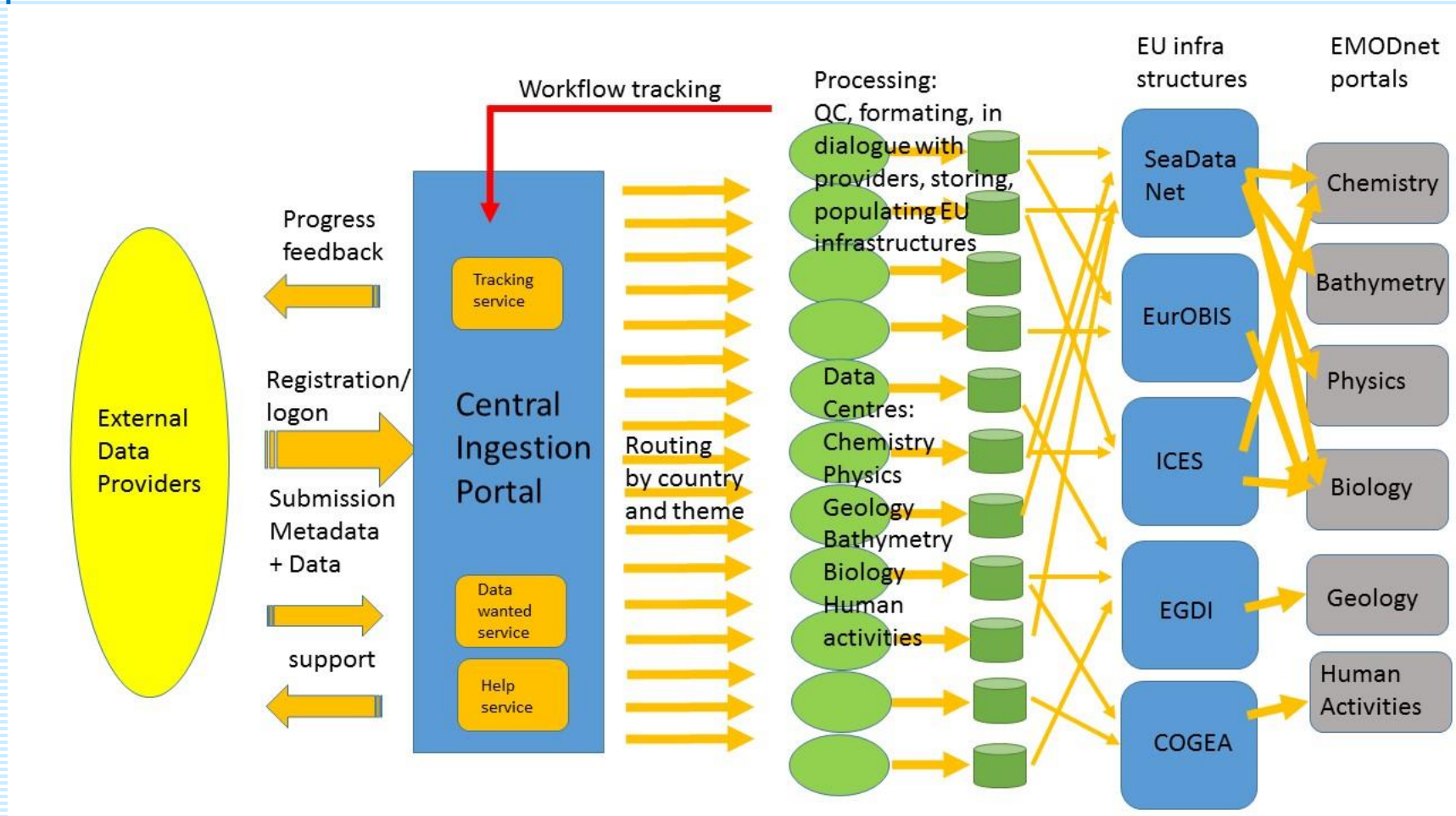
Principle of ingestion data flow

The EMODnet Ingestion services will serve all EMODnet thematic portals for streamlining incoming data sets

Data flow detailed as pathways

Pathways will be implemented to forward submitted data to the appropriate data repository that will take care of processing, QC and formatting for local storage and publishing, followed by population in the European infrastructures that are driving the EMODnet thematic portals

Components and services over time

- **Data Ingestion** portal – **M6**

- **Data Submission** service with logon (User Management) for any data provider – **M6**

- **Guidance** for suggested formats for specific data types and general instructions – **M6**

- **Help desk** service - **M6**

- **Data Tracking** service for submitters **– M12**

- **Data Wanted** service for any user **– M12**

- **Submission Summary Records** service for any user **– M12**

- **Optimised pathways – M18**

- **Operation and maintenance of ingestion processes – M7 – M36**

Machine-to-machine exchange for physical oceanographic data supporting EMODnet physics

- **List of EuroGOOS repositories** fit for receiving Near Real-Time (NRT) observation data published at Ingestion portal – **M18**

- **Guidance and procedures** for connecting NRT stations published at Ingestion portal – **M18**

- **Extra NRT stations from station operators** made available to EMODnet Physics portal – **M18 – M36**

- **Sensor Web Enablement (SWE) demonstrator** for Real-Time (RT) physical data launched **– M18**

- **SWE demonstrator** expanded with more RT stations **– M18 – M36**

Prioritising, promotion and marketing activities

- The challenge is to identify relevant marine data providers that are not yet routinely submitting data sets to national data repositories and to convince and help them to submit their data packages for open access and use in national repositories and EMODnet

- The priority for exploring external data sets will be set by the EMODnet Thematic portals that are interested in a specific collection of data types.

- All project partners will analyse the situation in their country and identify potential data sources and their providers for the different data themes, taking into account the priorities.

- Promotion and marketing will be essential and will be a combination of central and networked activities, involving all partners and Thematic portals, and also promoting specific use cases such as monitoring data from offshore wind farms

Contract details

- 44 partners, consisting of NODCs, Hydrographic Offices, Geological institutes, Biological institutes, Marine research institutes and few SME's

- Coordinators of all EMODnet thematic lots are partner

- MARIS as project coordinator and HCMR as scientific coordinator

- Three years duration; start 19th May 2016

- Budget 4 Meuro

- http://www.emodnet-ingestion.eu (under development)