

# Cefas Centre for Environment, Fisheries and Aquaculture Science – Data Centre Federation

Cefas collects, manages and interprets environmental, biodiversity and fisheries data, samples and records. Many of the Cefas holdings are of historic importance. National and international data collaboration, to share knowledge and expertise, and to link up and share data is crucial.

## Federation

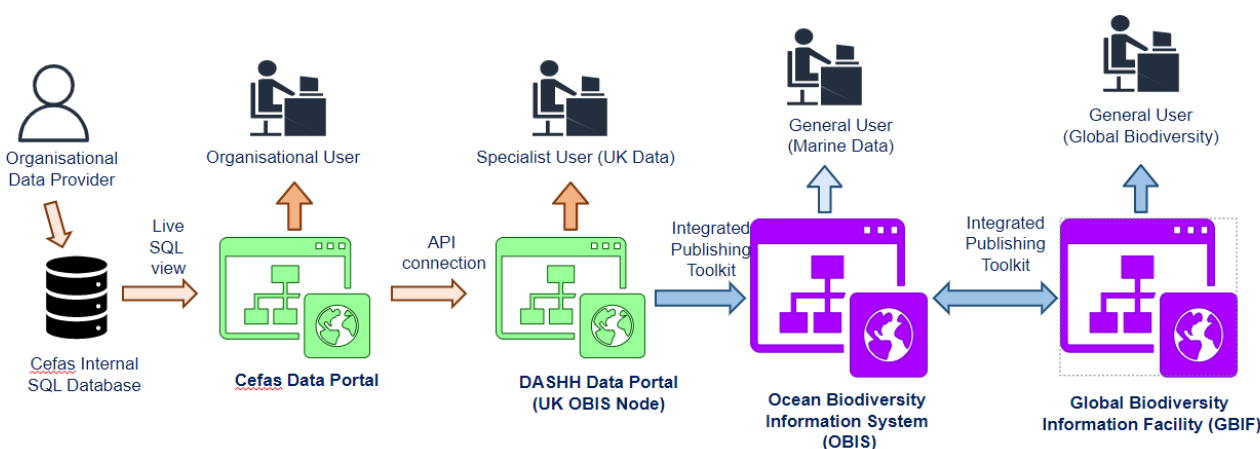
Data archival both nationally and internationally is increasingly a distributed / federated system, composed of several data centres responding to use requirements and resource availability.

With expanding data centre capabilities, data holdings often remain with the originating data centre, to be dynamically accessed through the internet rather than through a singular central repository. This model provides improved co-operation and coordination and removes bottlenecks.

Increasing the awareness of, and the adoption of data and metadata standards and protocols, is crucial to enablement and wider data re-use = enhanced value.

- Multiple data portals are essential to provide a shared data landscape
- The interactions between data portals are crucial and should be as seamless as possible
- New data portals should build on and compliment the existing data landscape

Working for a sustainable blue future.....**Cefas data reflects the breadth of Marine Science and is highly multidisciplinary...**



## Real world example - the Federated Approach

In this example, Cefas collected data then flows from our Cefas Data Portal to external systems automatically for wider access and re-use. See our Cefas presentation [from IODE-1](#)

## MEDIN FishDAC – Marine Scotland, DASHH and Cefas

FishDAC is the combined MEDIN Data Archive Centre for fish, shellfish, fisheries and related samples data, and fisheries data expertise. FishDAC is only one part of the data archive ecosystem at Cefas.

## Cefas Data Availability

Cefas staff create, modify and publish metadata, to various standards through our Cefas Data Portal. Links are automatic to external portals such as MEDIN. Data also flows to other national and international data centres.

The [Cefas Data Portal](#) contains 2126 metadata records, with 6411 data sets available to download and connect to under Open Government Licence.

[136 Digital Object Identifier \(DOI\)](#) data sets of high quality are also issued via the British Library's DataCite service.

