



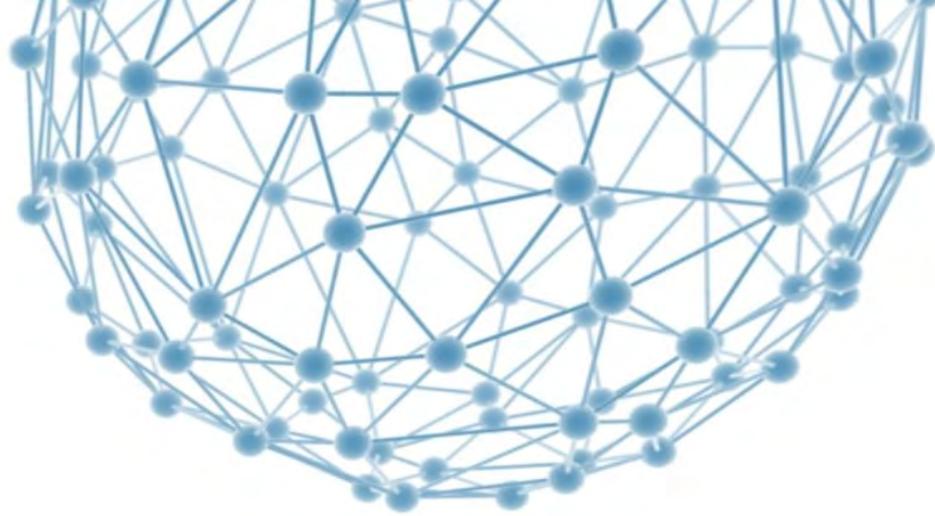
**Marine
Biological
Association**

The DASSH Experience

Kevin Paxman, Dan Lear
November 2022

**OGC
EDR
API**





Our Database

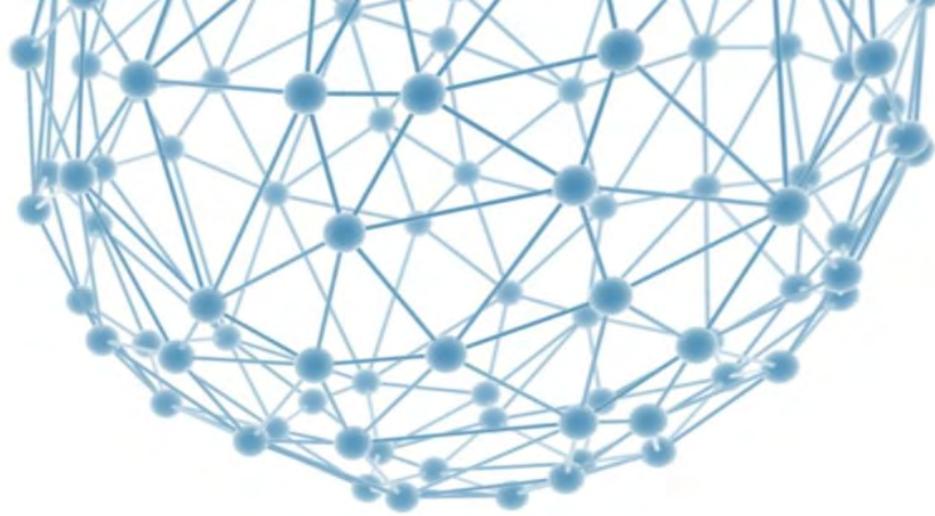


Species and habitats - 5,000 surveys, 200,000 samples, 5 million occurrence records

Stored in PostgreSQL (with postGIS extension)

Geoserver instance on top exposes data





Our API



Flask

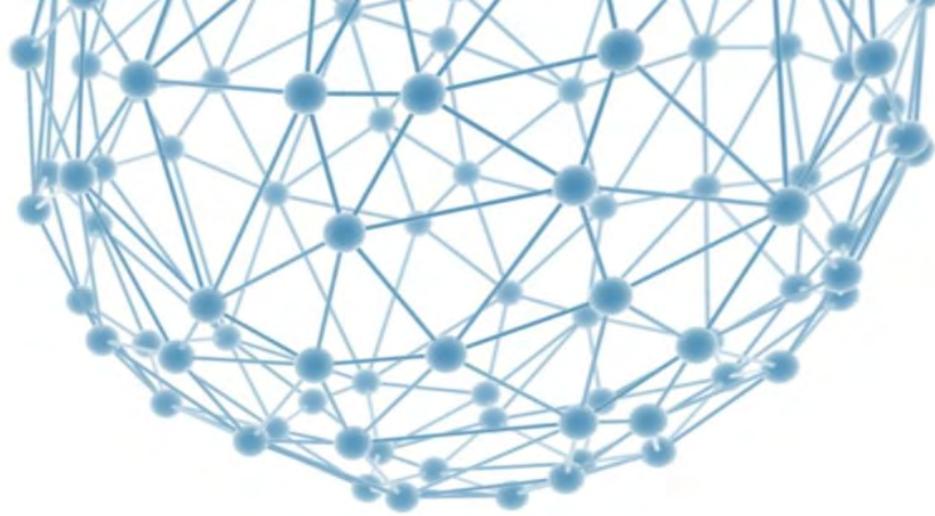
Built using Flask

Open and relatively simple web framework

Python expertise in the team

Connects to postgresSQL via psycopg2 library





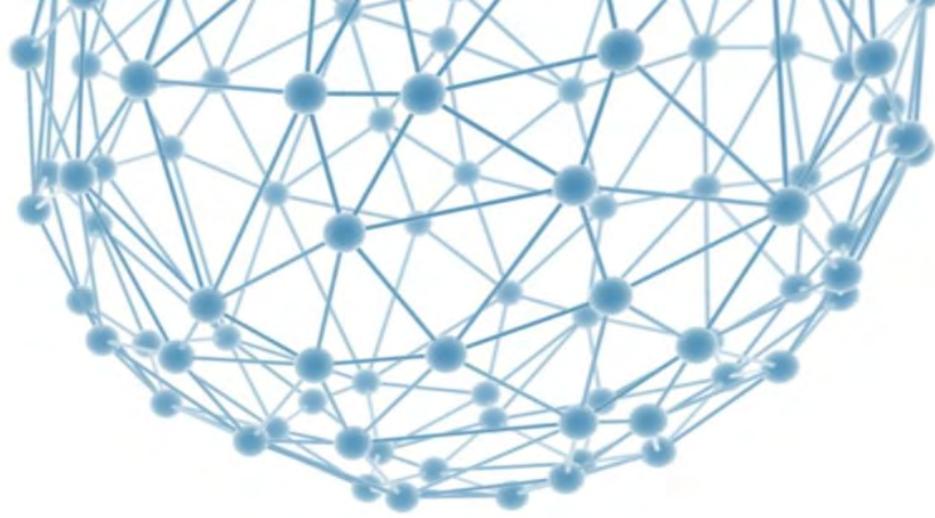
API Particulars

Query endpoints implemented:
position, radius, area, cube
and corridor

Queries translated to postGIS
functions e.g. Radius ->
ST_Dwithin and utilizing
existing date and depth fields

An Instance represents a
survey – allows entire holdings
to be queried together or
queries to be restricted to
individual surveys





Links

API:

<https://dassh.ac.uk/edr>

Swagger (interactive version):

<https://app.swaggerhub.com/apis-docs/DAS365/dassh-implementation-of-ogc-api-environmental-data-retrieval/>

Code:

https://gitserver.mba.ac.uk/external/data_team/edr

