



NERC
Environmental
Data Service

NERC EDS: Research Data Management Best Practice

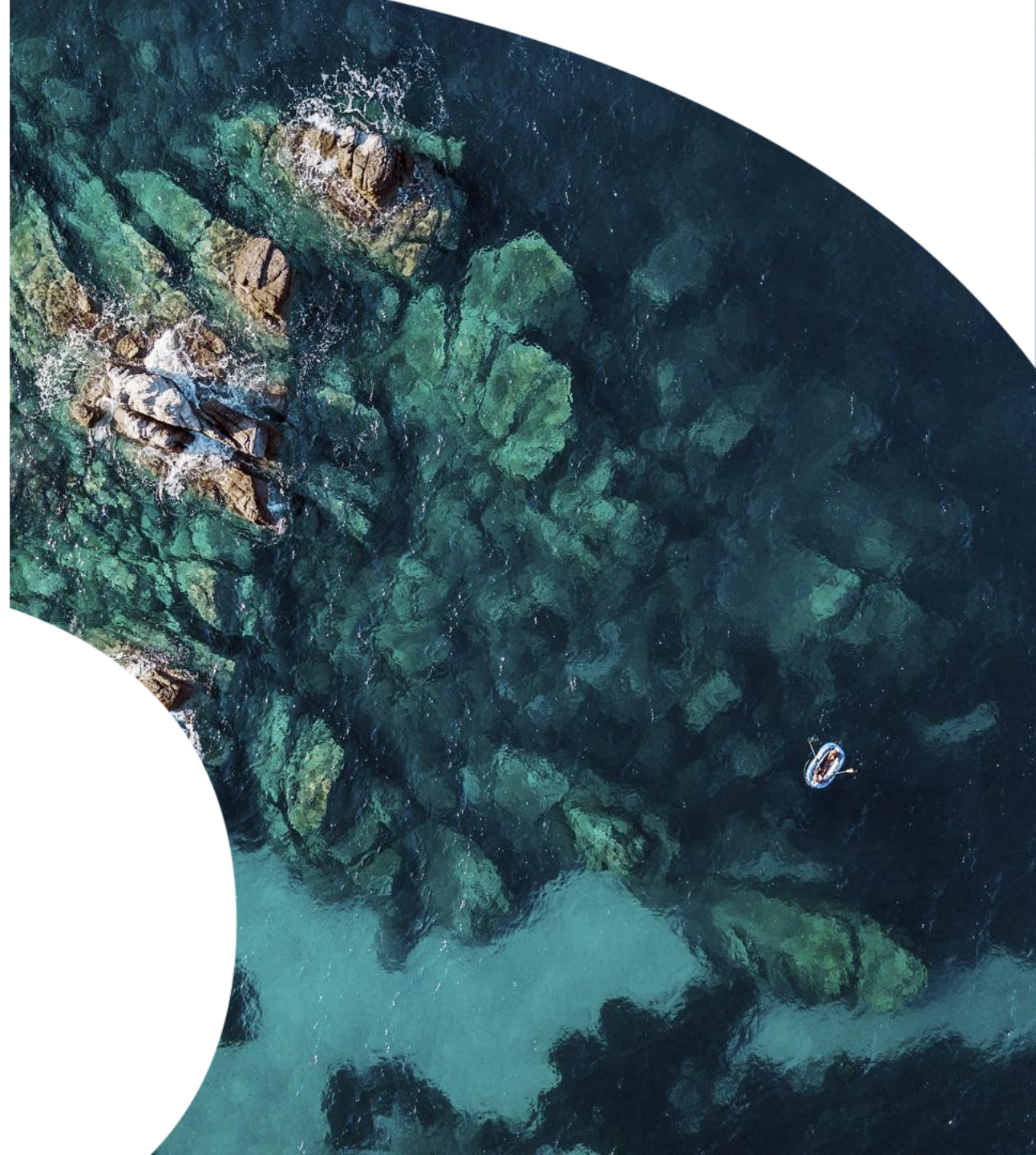
With thanks to the EDS Training
Activity Working Group

Content

- Data Life Cycle
- Finding Data



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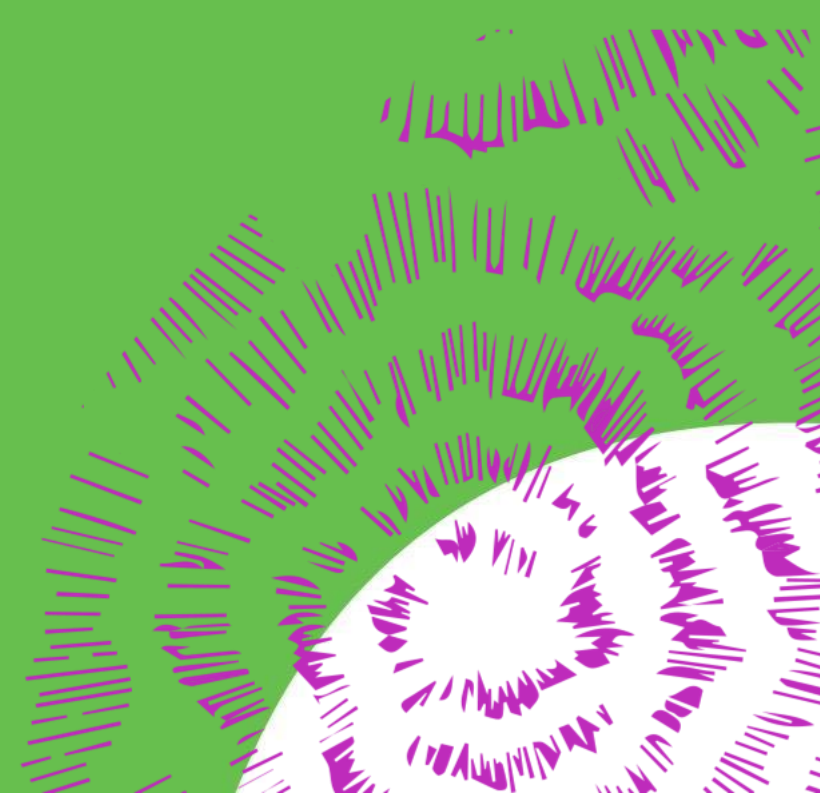
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The Data Life Cycle

In this section, you will learn how to organise your data through planning, collection, analysis, publication and beyond



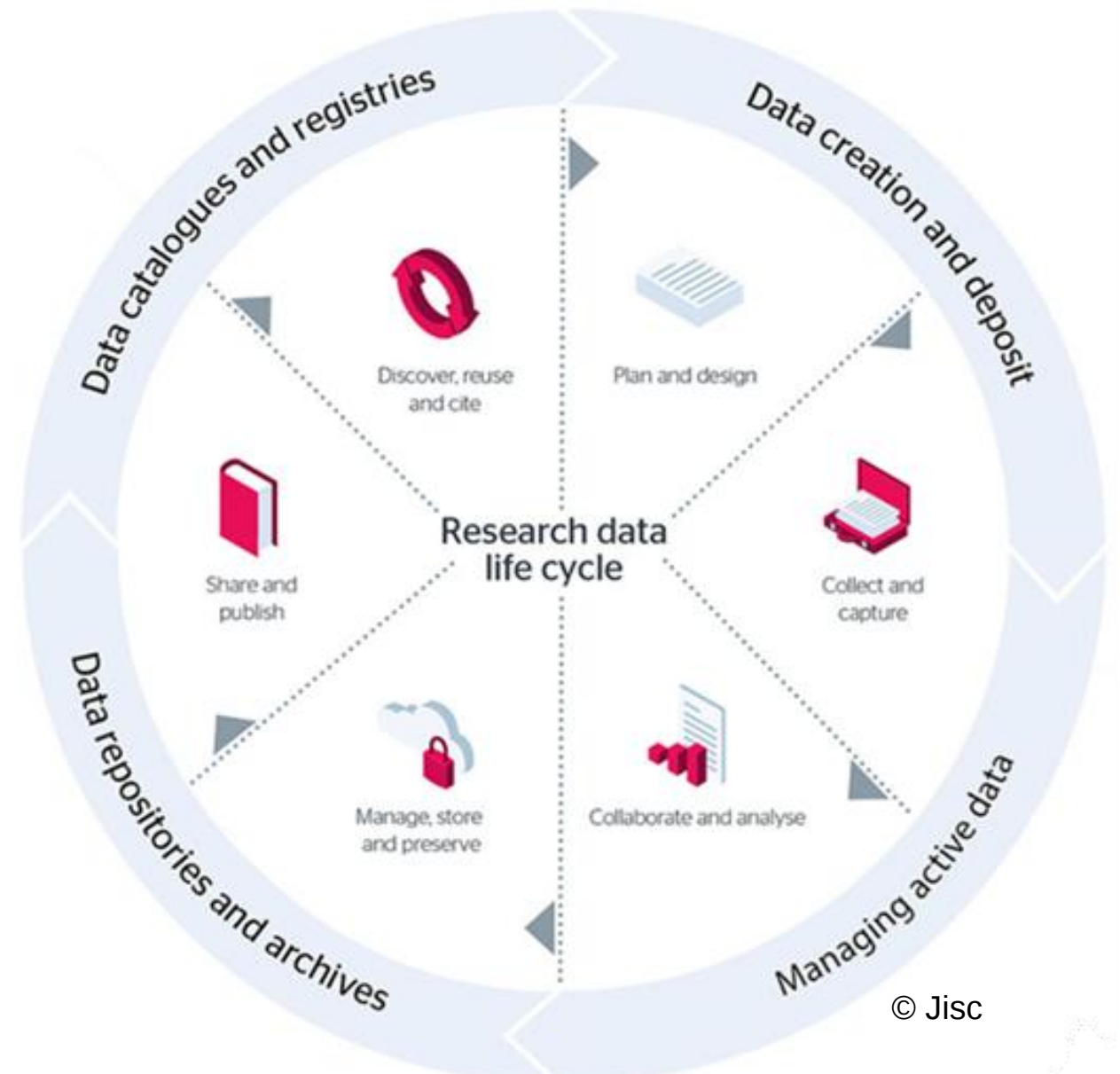
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Research Data Management Lifecycle

The data life cycle is the sequence of stages that a particular unit of data goes through from its initial generation or capture to its eventual archival and/or deletion at the end of its useful life.

- 1) Data Management planning
- 2) Data collection and capture, collection and analysis
- 3) Data storage and archiving, sharing and publishing
- 4) Data cataloguing, discovery and reuse





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Finding data

- In this section, you will learn where to find data, data catalogues and searching for data efficiently



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<https://help.eds.ukri.org/article/5036-finding-data>

RDM lifecycle

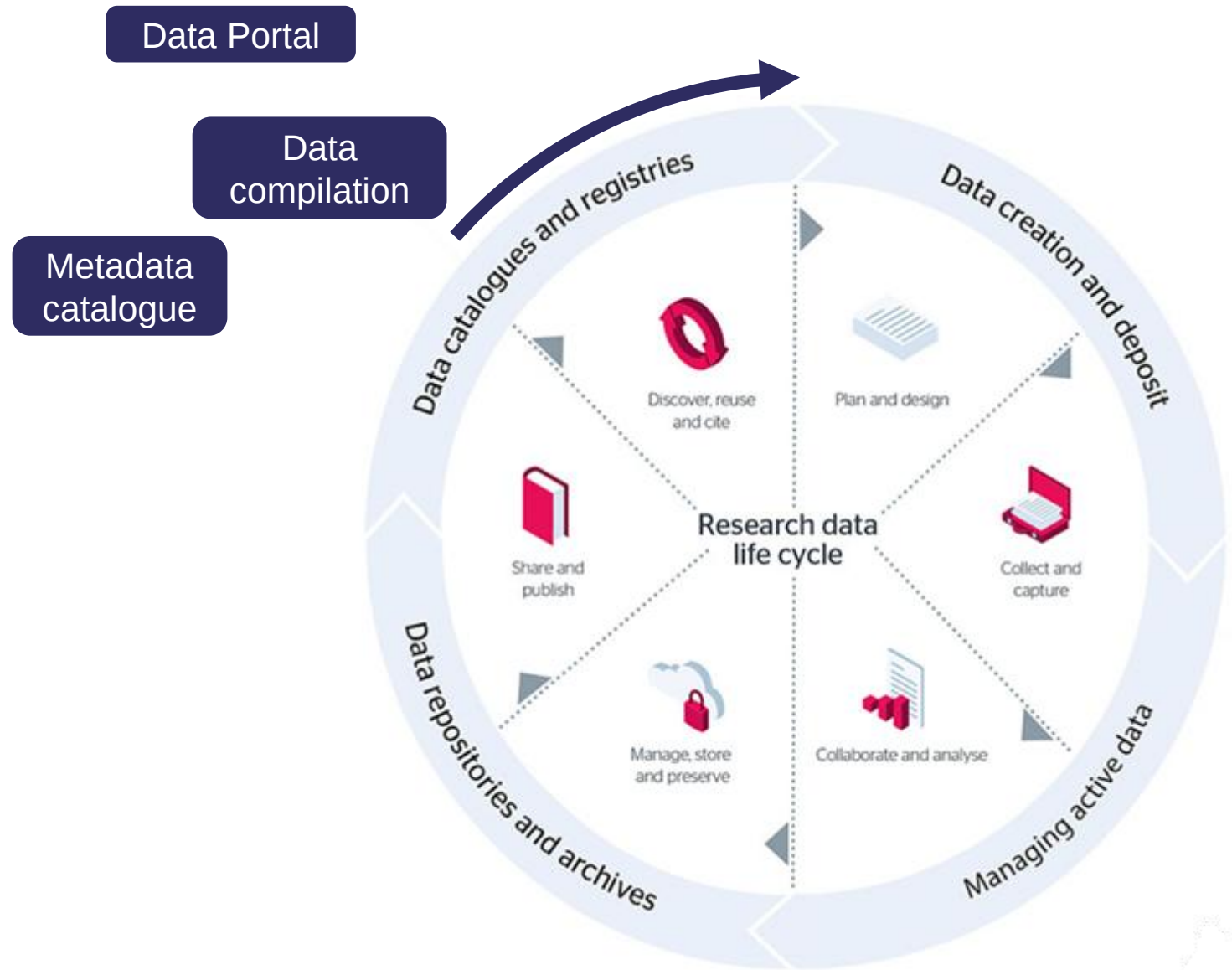
- Data discovery and reuse

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International
repositories

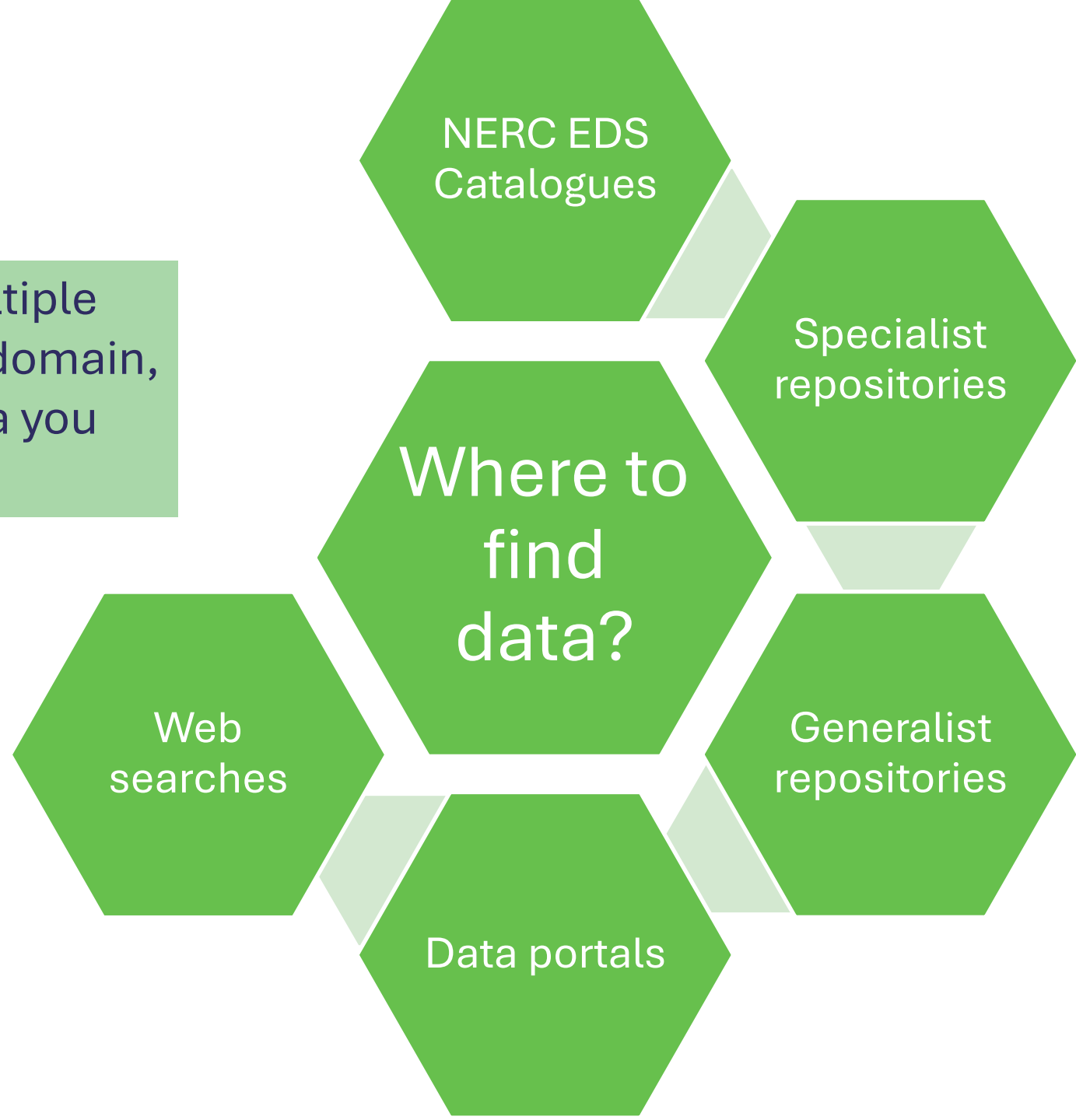
Data portals

Interoperability



Finding Data

Data can be found in multiple ways, depending on the domain, type, and quantity of data you are looking for

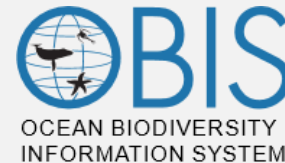
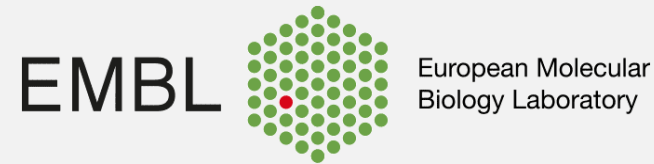


Other Repositories

International repositories



Specialist repositories



Generalist Repositories



Data Portals

There are many data portals for specific environmental topics and datatypes.

Data portals are useful for accessing large volumes of data from multiple sources at once

Some examples:

- Airborne Geophysics data portal: <https://www.bas.ac.uk/project/nagdp/>
- Antarctic Plant Database: [BAS Antarctic Plant Database - specimen query \(nerc-bas.ac.uk\)](http://www.nerc-bas.ac.uk/antplant/)
- Krillbase: [Krillbase \(nerc-bas.ac.uk\)](http://www.nerc-bas.ac.uk/krillbase/)
- South Georgia data portal: [SG_MPA_dataportal - Log In \(nerc-bas.ac.uk\)](http://www.nerc-bas.ac.uk/sgmpa/)
- Tristan data portal: [Tristan da Cunha Environmental Data Portal - Sign In \(bas.ac.uk\)](http://www.bas.ac.uk/tristan/)



Search Engines

You can search for data using broad cross-website searches, or through specialist data portals

- [NERC catalogue service](#)
- [Data.gov.uk](#)
- [DataCite](#)
- [Google](#)

DataCite Commons

Type to search... 

Pages ▾ Support  Sign In

 Works  People  Organizations

Search works by keyword(s) and/or identifier. Documentation is available in [DataCite Support](#).



GEAR met data   

 All  Shopping  Images  News  Videos  More  Tools

About 103,000,000 results (0.88 seconds)

<https://catalogue.ceh.ac.uk> > ... 

Gridded estimates of daily and monthly areal rainfall for the ...

16 May 2019 — The rainfall estimates are derived from the **Met** Office national ... The CEH-GEAR dataset has been developed according to the guidance ...

<https://catalogue.ceh.ac.uk> > ... 

Gridded estimates of daily and monthly areal rainfall for the ...

1 May 2014 — The CEH-GEAR dataset has been developed according to the guidance ... quality control step (**data** already quality controlled by the **Met** ...

Searching efficiently

Boolean Search Modifiers

1. Quotation Marks (")

Help find exact phrase matches in search.

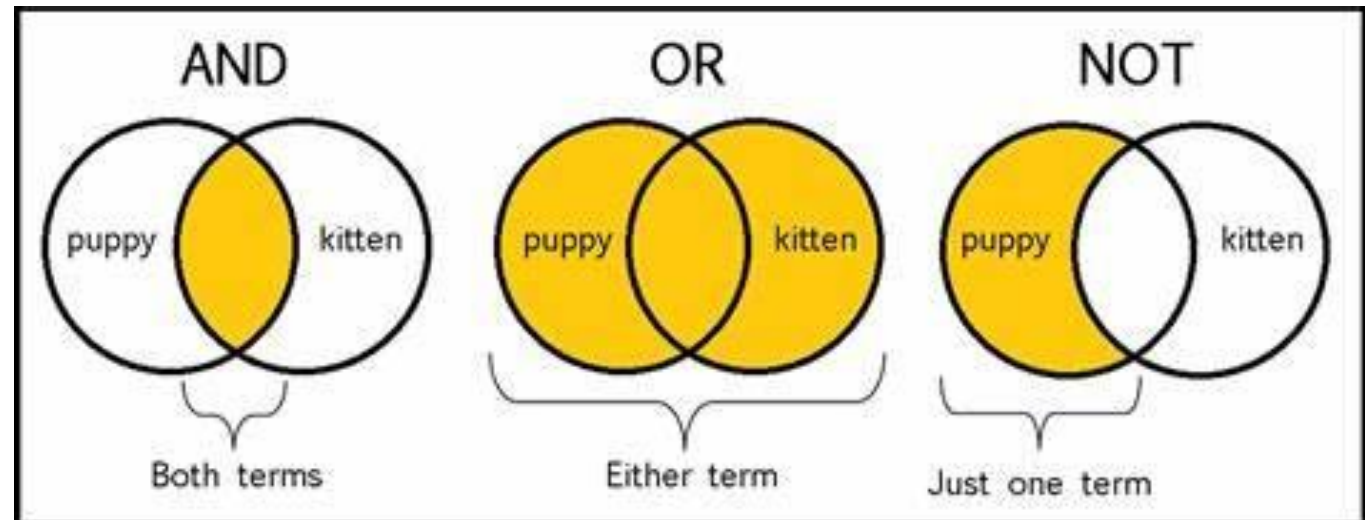
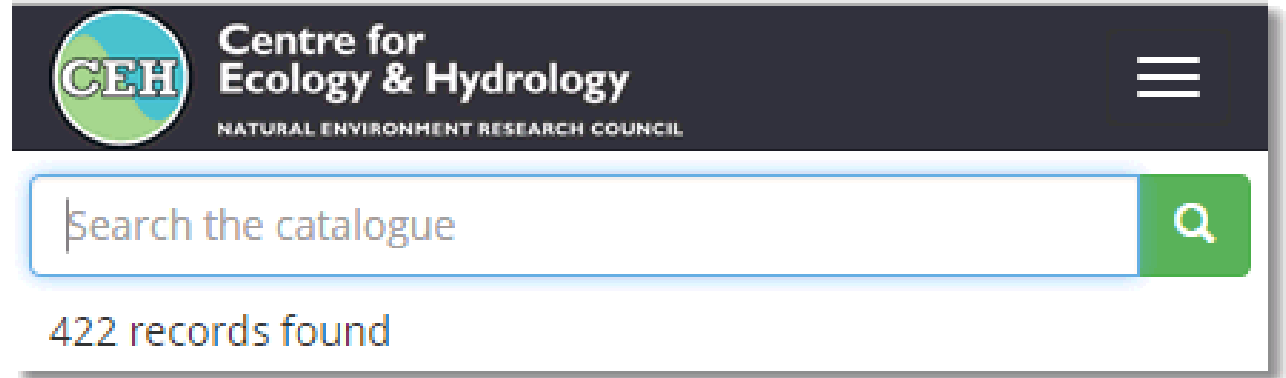
2. Asterisk (*) or Wild Card

The asterisk is useful when looking for variants of the keyword.

3. Parentheses ()

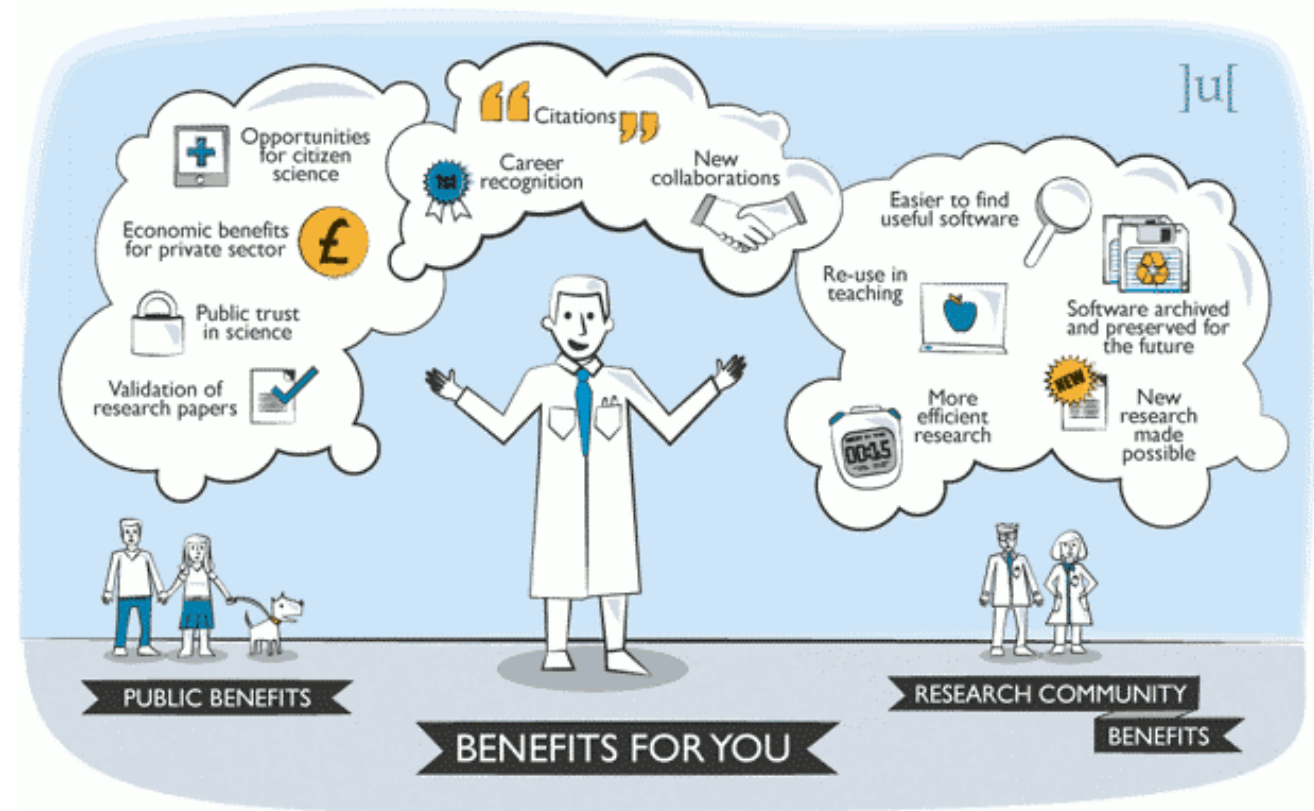
Parentheses give priority to the text written within them.

www.omnesgroup.com



Summary

- The Environmental Data Service (EDS) provide a focal point for scientific data and information spanning all environmental science domains.
- EDS support and advise you on all aspects of Data Management.
- The environmental data produced by the activities funded by NERC are considered a public good and they will be made openly available for others in one of the 5 EDS data centres. This needs to be done within 2 years after data collection.

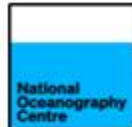


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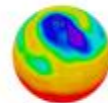


British
Antarctic Survey

UK Polar Data Centre



British
Oceanographic
Data Centre



Centre for Environmental
Data Analysis

SCIENCE AND TECHNOLOGY FACILITIES COUNCIL
NATURAL ENVIRONMENT RESEARCH COUNCIL



Environmental
Information
Data Centre



NGDC
National Geoscience
Data Centre

Summary

- The Research Data Management lifecycle describes the different steps for a research dataset to be published from its planification to reuse

