



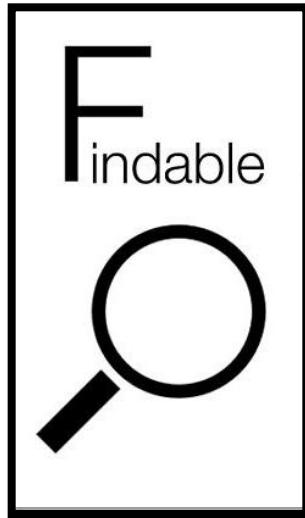
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How technology can support the marine community to deliver FAIR data.

# FAIR Principles



<https://www.go-fair.org/fair-principles/>



The first step in (re)using data is to find them. Metadata and data should be easy to find for both humans and computers.

F1. (Meta)data are assigned a globally unique and persistent identifier

F2. Data are described with rich metadata

F3. Metadata clearly and explicitly include the identifier of the data they describe

F4. (Meta)data are registered or indexed in a searchable resource



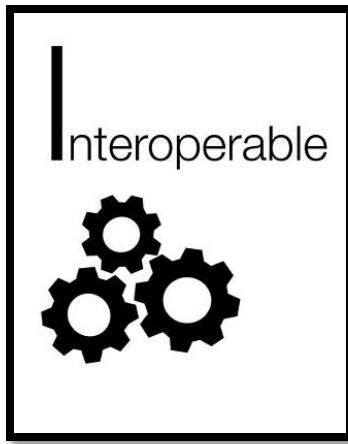
Once the user finds the required data, they need to know how they can be accessed, possibly including authentication and authorisation.

A1. (Meta)data are retrievable by their identifier using a standardised communications protocol

A1.1 The protocol is open, free, and universally implementable

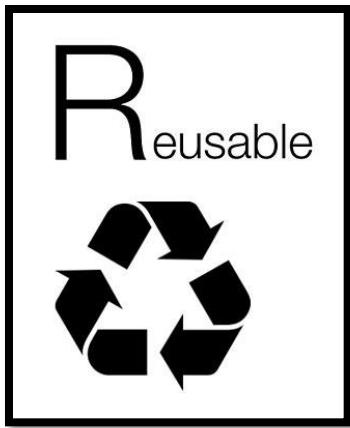
A1.2 The protocol allows for an authentication and authorisation procedure, where necessary

A2. Metadata are accessible, even when the data are no longer available



The data usually need to be integrated with other data. In addition, the data need to interoperate with applications or workflows for analysis, storage, and processing.

- I1. (Meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation.
- I2. (Meta)data use vocabularies that follow FAIR principles
- I3. (Meta)data include qualified references to other (meta)data



The ultimate goal of FAIR is to optimise the reuse of data. To achieve this, metadata and data should be well-described so that they can be replicated and/or combined in different settings.

R1. (Meta)data are richly described with a plurality of accurate and relevant attributes

R1.1. (Meta)data are released with a clear and accessible data usage license

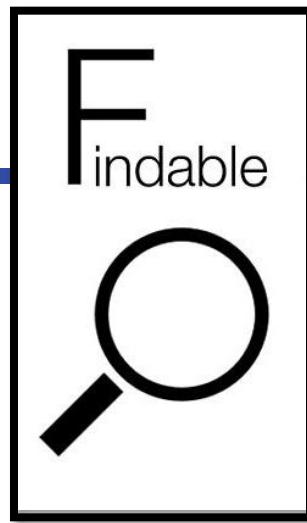
R1.2. (Meta)data are associated with detailed provenance

R1.3. (Meta)data meet domain-relevant community standards



# Breakout session 1.

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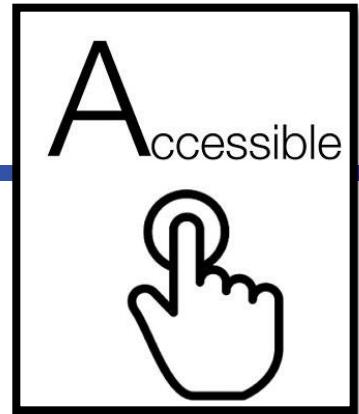
What support do you need to make your data findable?

Breakout rooms for 10 minutes  
Then return to the main session



## Breakout session 2.

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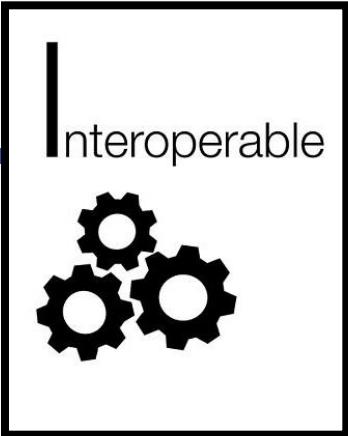
What support do you need to make your data accessible?

Breakout rooms for 10 minutes  
Then return to the main session



# Breakout session 3.

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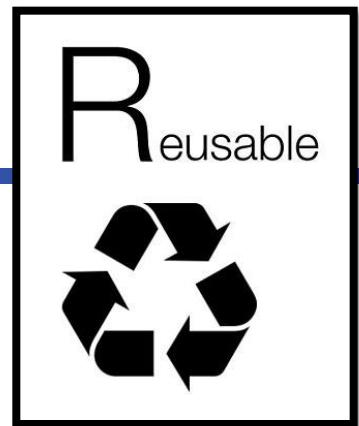
## What support do you need to make your data interoperable?

Breakout rooms for 10 minutes  
Then return to the main session



# Breakout session 4.

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What support do you need to make your data reusable?

Breakout rooms for 10 minutes  
Then return to the main session