

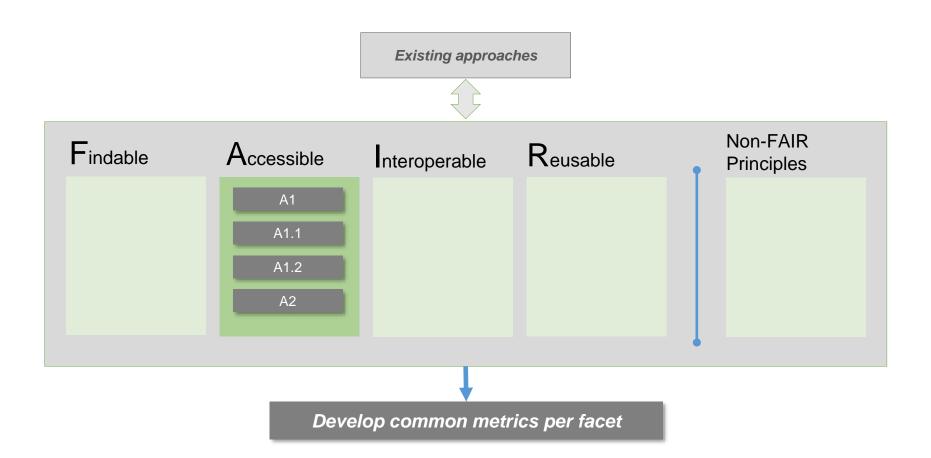
# FAIR Principles

Accessible

Analysis of existing approaches









## FAIR Principles

#### To be accessible

- A1. (meta)data is 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 authorization procedure, where necessary
- A2. metadata is accessible, even when the data are no longer available





### **LEGEND**

1 ANDS-NECTAR-RDS-FAIR data assessment tool ARDC
2 DANS-Fairdat DANS
3 DANS-Fair enough? DANS
4 The CSIRO 5-star Data Rating tool CSIRO

5 FAIR Metrics Questionnaire The FAIR Metrics Group

6 Stewardship Maturity Mix NOAA's CICS-NC, NOAA's NCDC

7 FAIR Evaluator GO FAIR, LUMC CBGP, IDS, OeRC, IQSS

8 Data Stewardship Wizard ELIXIR NL/CZ

9 Checklist for Evaluation of Dataset Fitness for Use Assessment of Data Fitness for Use WG (WDS/RDA)

 10
 RDA-SHARC Evaluation
 SHARC IG (RDA)

 11
 WMO-Wide Stewardship Maturity Matrix for Climate Data
 The SMM-CD WG

 12
 Data Use and Services Maturity Matrix
 The MM-Serv WG

#### **Principle**

#### # Facet

1 Question

Option #1

Option #2

Option #3

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Potential Overlap



#### A1 (meta)data is retrievable by their identifier using a standardised communications protocol

1 Is the data available online without requiring specialised protocols or tools once access has been approved?

No access to data

By individual arrengement

File download from online location

Non standard web service

Standard web service API

4 Published -Is the data accessible to users other than the creator or owner?

No

By individual arrangement

File download

Institutional or community repository

Bespoke web service (informal API)

Bespoke web service (OpenAPI/Swagger)

Standard web service API (e.g. OGC)

7 The nature and use limitations of the access protocol

. . .





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- 7 The nature and use limitations of the access protocol
- 6 Accessibility

Not publicly available / Person-to-person

Publicly available / Direct file download (e.g., via anonymous FTP server) / Collection/dataset level searchable online

Non-standard data service Limited data server performance Granule/file level searchable Limited search metrics

Community-standard data service / Enhanced data server performance / Conforming to community search metrics / Dissemination report metrics defined and implemented

Dissemination reports available online / Future technology and standard changes planned

11 Accessibility

Data not available publicly; Person-to-person contact needed.

Basic online services available for data access (e.g. FTP/HTTP direct download).

Non-standard data services.

Standard-based interoperability data services.

Previous + Full capability of sub-setting, aggregation and visualization.F7





A1.1 the	protocol is o	nen, free	and universa	ally imi	olementable	e
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2 Is the dataset available for public access? (i.e. the restriction is only registration on a website before the person has access the data)

F4

No

Yes

5 Please provide a URL to the description of the protocol.

5 Is the propotocol open (technical details are provided)?

FALSE

TRUE

5 Is the protocol free?

FALSE

TRUE

#### A1.2 the protocol allows for an authentication and authorization procedure, where necessary

Authorization is required to access the content of my RESOURCE ID

No

Yes

5 Please provide a IRI that resolves to a description of the process to obtain access to restricted content

7 Specification of a protocol to access restricted content.

10 In case of a non legal restricted access, is the restriction properly justified by the researcher?

Never /NA

If mandatory

Sometimes

Always



#### A2 metadata is accessible, even when the data are no longer available

1 Will the metadata record be available even if the data is no longer available?

No

Unsure

Yes

- 5 Please provide the URL to a metadata longevity plan
- 7 The existence of metadata even in the absence/removal of data