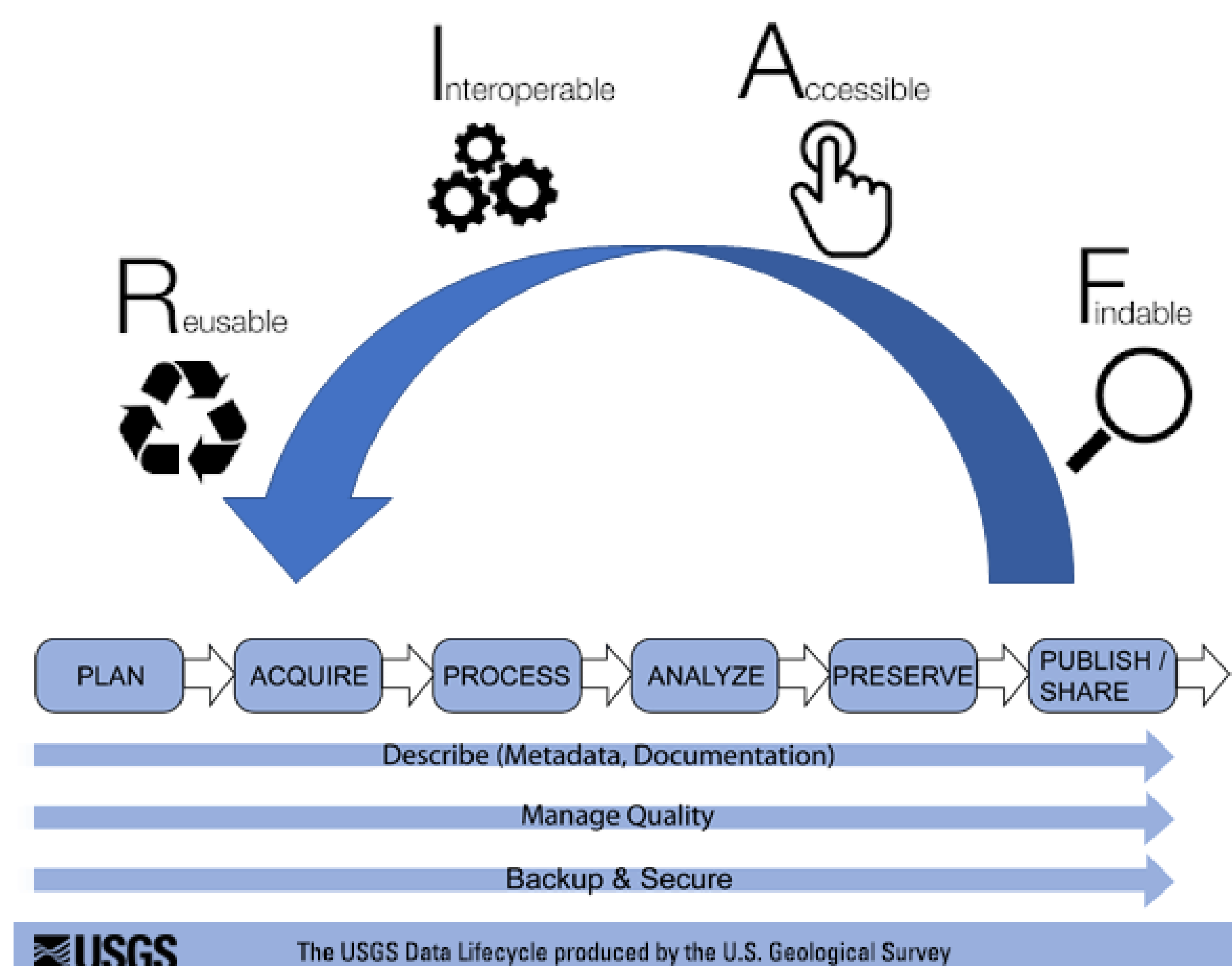


Building a Roadmap for Making Data FAIR in the U.S. Geological Survey

A 2019 CDI Project

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Complete the Cycle!

The FAIR Guiding Principles

To be Findable:

- F1. (meta)data are assigned a globally unique and persistent identifier
- F2. data are described with rich metadata (defined by R1 below)
- F3. metadata clearly and explicitly include the identifier of the data it describes
- F4. (meta)data are registered or indexed in a searchable resource

To be Accessible:

- A1. (meta)data are retrievable by their identifier using a standardized 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 are accessible, even when the data are no longer available

To be Interoperable:

- 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

To be Reusable:

- 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

(From Wilkinson, M. D. et al., 2016, The FAIR Guiding Principles for scientific data management and stewardship. Sci. Data 3:160018, <https://doi.org/10.1038/sdata.2016.18>.)



Roadmap Elements

1. Present status of USGS application of FAIR principles
2. USGS goals for achieving compliance with the principles
3. Obstacles and opportunities on the path to these goals
4. Process for managing USGS progress (and unexpected obstacles and opportunities)



- Attend workshop
- Complete survey
- Submit use case

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