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Challenges for the management and integration of historical data

Sébastien Oliveau

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International Workshop on Historical Big Data:
Research Data and infrastructures for socio-economic history and social sciences

Challenges for the management and integration of historical data

the example of a French research infrastructure, Progedo

Sébastien OLIVEAU, Progedo's director - sebastien.oliveau@cnrs.fr

PROGEDO
DATA INFRASTRUCTURE

Progedo is member of

cessda

eosc | FAIR-IMPACT
Expanding FAIR solutions across EOSC

What’s an historical data?

Data Used by historians?

Old Data?

Data build from primary sources?

Incomplete data?

And what are their characteristics?

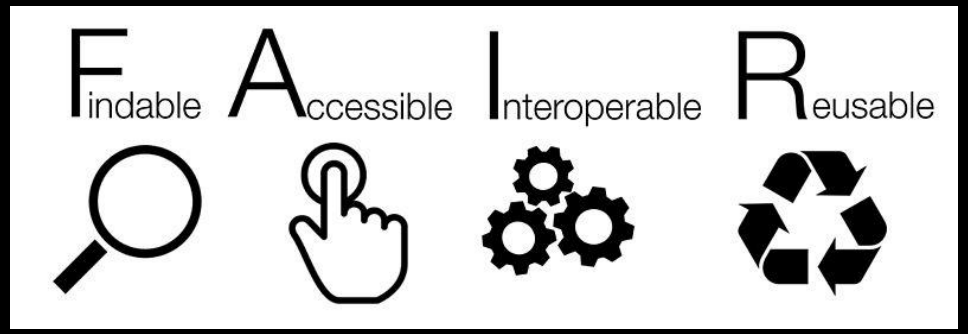
Data without specific legal issues?

Diachronic/longitudinal Data?

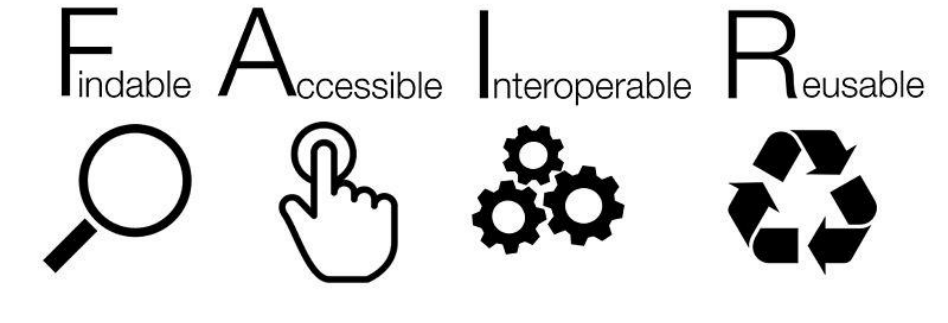
Statistical data Management - Principles

About FAIR Data

About FAIR statistical data



Findable

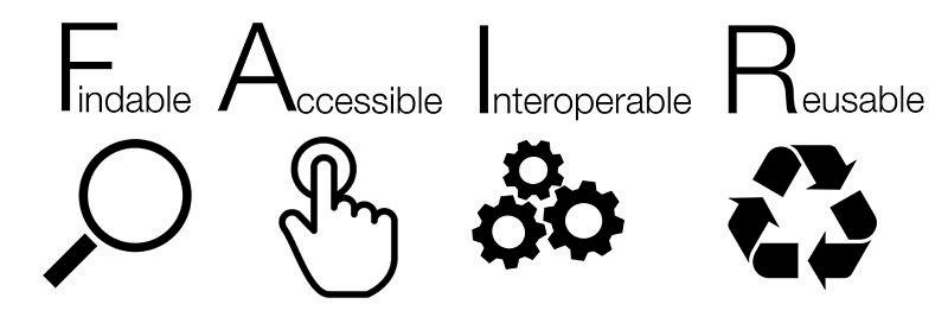


Findable (so searchable) online

=> catalogue (https://data.progedo.fr)

With a **Persistent identifier** (Handle) such as DOI (which is also actionable).

Accessible



In a (public) repository

Openly available or through an explicit access procedure (for restricted data: registration and terms of law)

Harvard Dataverse https://data.harvard.edu/dataverse

Zenodo https://zenodo.org

Quetelet-Progedo-Diffusion https://data.progedo.fr

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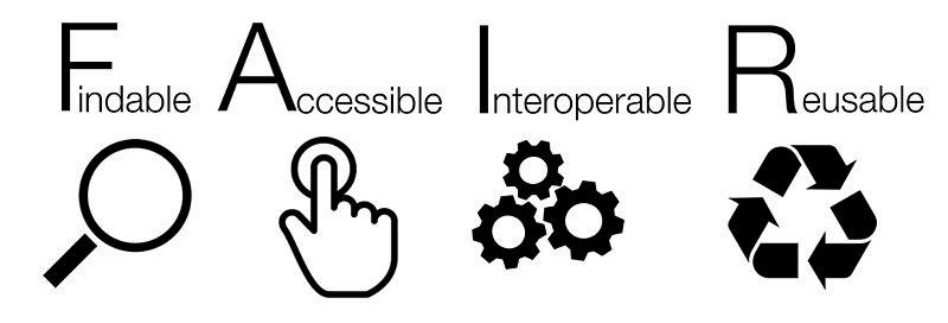
Interoperable



Technological and semantic interoperability

The standards employed should be explicitly mentioned as this is the first requirement for interoperability

Documentation standards
Citation Standards
Harvesting standards

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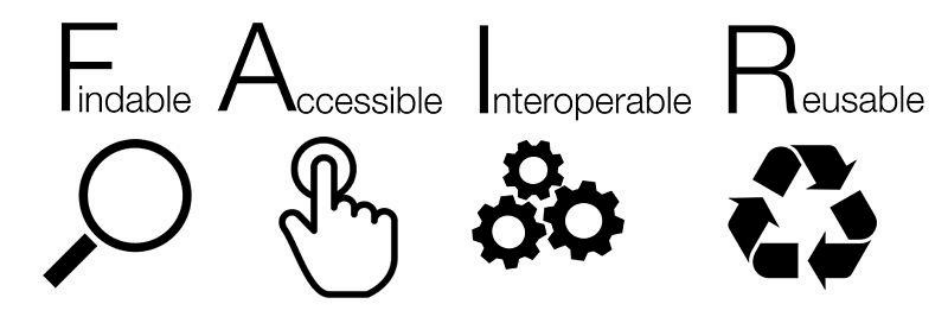

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Dublin Core, DDI

Citation Standards

DataCite, etc.

Harvesting standards

Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH)

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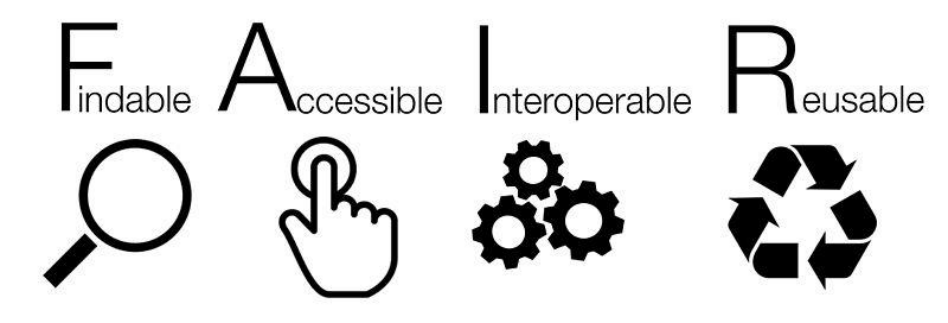

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Controlled vocabularies

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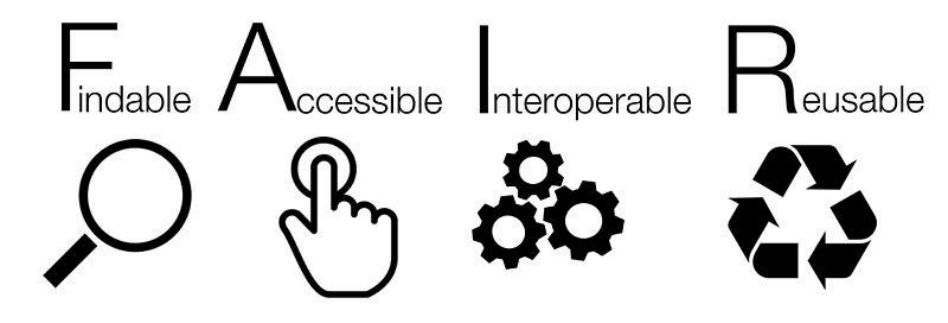

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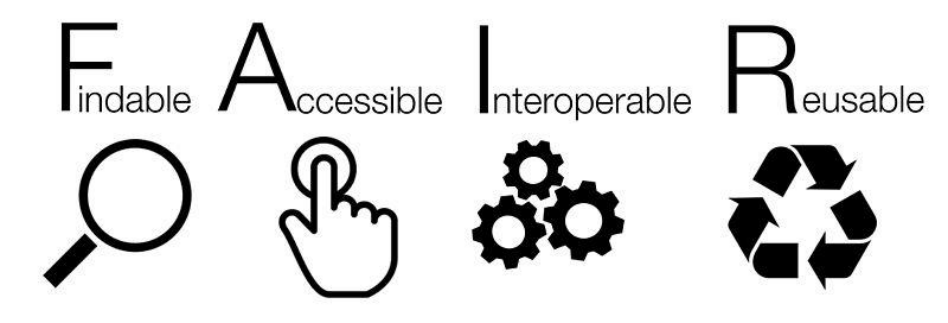
=> Machine actionnable

Reusable



Metadata

The Data Documentation Initiative (also known as DDI) is an international standard for describing surveys, questionnaires, statistical data files, and social sciences study-level information.

DATA DOCUMENTATION INITIATIVE

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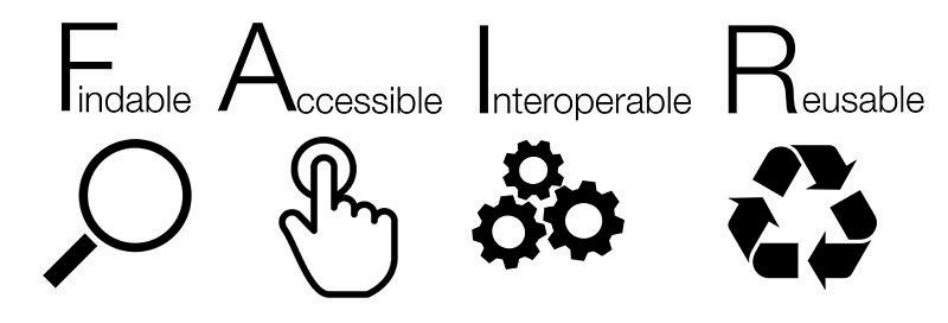
Reusable



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DDI®
DATA DOCUMENTATION INITIATIVE

Licence and sources need also to be clearly indicated

Statistical data Management - Application

Making the Data FAIR is not so easy… need to be helped

⇒Research infrastructure

⇒Local, national or international level?

⇒What is the use of European infrastructure?

Statistical data Management - Progedo

Local relay: “University Data Plateforme” (PUD in french)

A national repository and catalogue, managed by a team of research assistants “Public Stasticics Data Archive (ADISP in French)

A European Integration through Cessda (FAIR Practices, Catalogue, etc.)

Progedo, Cessda & the EOSC

Findable

=> catalogues https://datacatalogue.cessda.eu

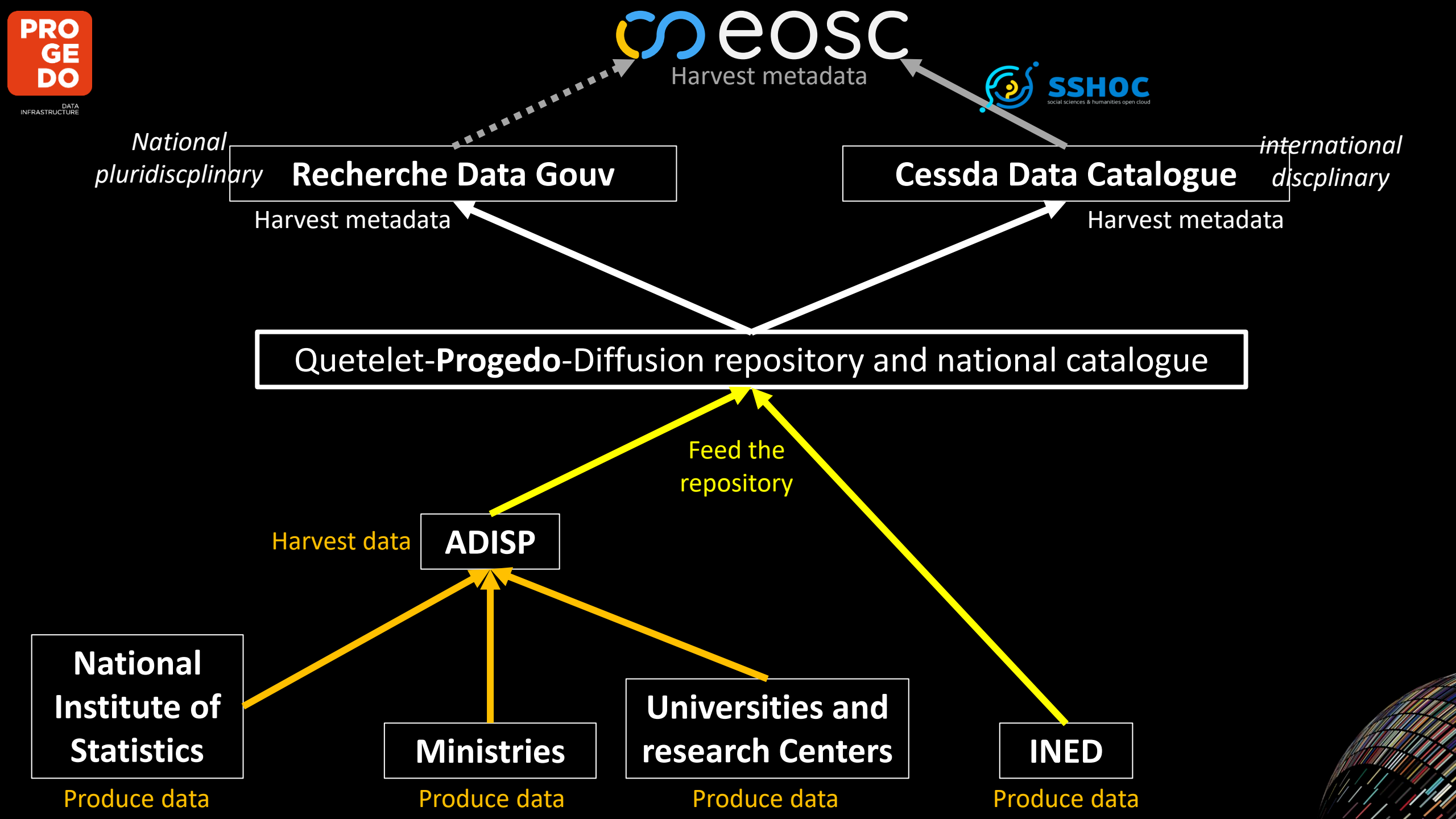
=> SSHOC

Accessible

Interoperable

=> Definition of common standards for Data Archive

Reusable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eosc
Harvest metadata
SSHOC
social sciences & humanities open cloud
National pluridiscplinary
Recherche Data Gouv
Harvest metadata
Cessda Data Catalogue
international discplinary
Harvest metadata
Quetelet-Progedo-Diffusion repository and national catalogue
Feed the repository
Harvest data
ADISP
National Institute of Statistics
Produce data
Ministries
Produce data
Universities and research Centers
Produce data
INED
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