Importance and benefits

In compliance with the **FAIR principles**, **sharing data** goes hand in hand with **good data management**. But why should you share data? Why is this important and beneficial for research stakeholders, science in general and society?

For researchers

✚ Requirements and opportunities

France's Second National Plan for Open Science stresses the importance of **sharing research data** and **opening up source codes** produced by research;
Sharing data increases the visibility and citability of the work of researchers and boosts the reuse of data.

Notes

Research data are part of the scientific publishing process: data deposit, publication of data papers.
Data should be deposited in trusted repositories and source codes deposited in the *Software Heritage* open archive.

Did you know?
Sharing data can be a **condition for scientific projects obtaining funding**. This is the case for Horizon Europe or French National Research Agency (ANR) funding, for example. A **data management plan (DMP)** needs to be drawn up to prepare for sharing data.

For science

⚑ New perspectives

Sharing data paves the way for new **investigation methods**, **research themes** and **partnerships**.

Examples

Reusing shared data.
Different disciplines working with the same dataset.

✓ Enhanced validation

Reading committees increasingly request that data be deposited and thus accessible because this facilitates and enhances the **validation of articles**.
Researchers reusing their peers' data can lead to **initial results being re-examined**.

Certain publishers ask authors to provide access to data related to the results reported in a submitted article.

For society

Confidence and trust in research

Reusing data represents a **better use of public money** because it reduces the cost of creating, collecting and processing them.
Sharing data offers a **better guarantee against scientific fraud**.

Notes

Opening up data makes research more transparent, bolsters public confidence and means citizens can get involved in participatory science.

Focus on researchers and their data in the open science ecosystem

Data management plan

Reuse

Legal and ethical rules

Permanent archiving

Metadata

Re-using data

Planning Research

Preserving data

FAIR

Collecting Data

Publishing & Sharing data

Processing & Analysing data

Sharing data and source codes

Persistent identifiers

Institutionnal policy

Research teams

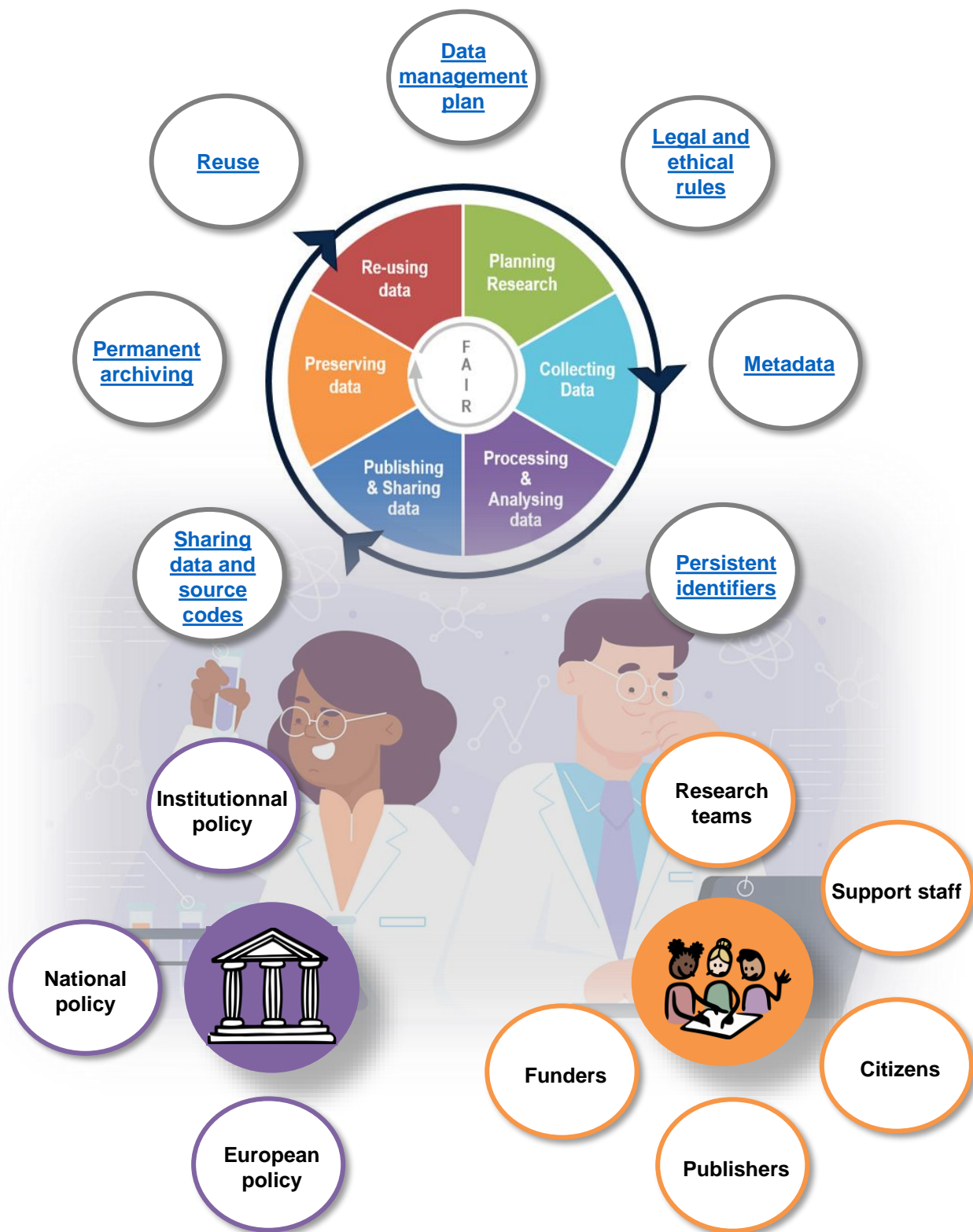Support staff

National policy

Funders

Citizens

Publishers

European policy

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