Incorporating open science into ANR projects:

a practical guide

Couperin GTSO (open science working group) for Data

> Link to the **English version**: https://doi.org/10.5281/zenodo.8390178

> Lien vers le guide en **français** : https://doi.org/10.5281/zenodo.7657817

Consortium Unifié des Etablissements Universitaires et de Recherche pour l'Accès aux Publications Numériques

Open science in research projects

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Issues of open science in projects

ANR requirements

- ❖ Sharing of the project's scientific articles in full text on HAL (or via an open institutional archive) immediately upon publication

- ❖ Drafting and regular updating of a data management plan (DMP)

- ❖ Disseminating data whenever possible

- ❖ Fostering the opening up of project code and software

Forgetting data when drawing up a project, what are the risks?

- ❖ Disagreement between partners (objectives, strategy)

- ❖ Lack of resources to achieve set objectives

- ❖ Non compliance with obligations relating to the management of certain types of data

- ❖ Difficulty identifying resource persons and services

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Why take open science into account when setting up a project?

Improving the submitted project

❖ The project's quality and scientific ambition

❖ The project's organisation and implementation
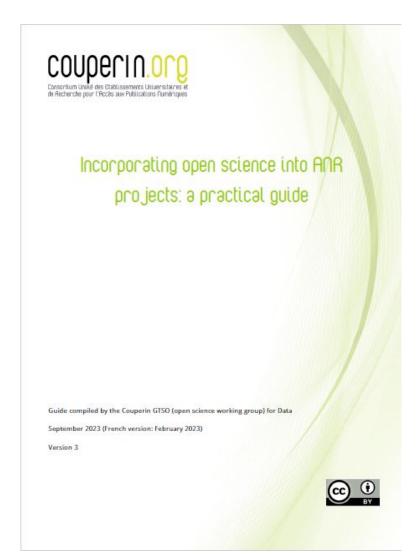
❖ The project's impact and knock-on effects

Facilitate project coordination

❖ Define a common strategy and identify the needed resources to conduct it

❖ Start to harmonise practices

❖ Define the roles and responsibilities of each partner

Setting up an open science project:
follow the guide !

The guide

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The guide

Organisation

❖ Structured according to the framework of the ANR's detailed proposals

❖ An operational approach

Getting the most out of this guide

❖ Choosing the relevant points for the project

❖ Identify issues to discuss and explore further between partners

❖ No need to copy and paste anything

❖ Does not replace the ANR's recommendations or the support services provided by research institutions (project engineering, library, DPO, etc…)

Evolution of the detailed proposal

Some aspects of the proposal may change due to better consideration of open science issues

- ❖ New objectives

- ❖ Expansion of the consortium (new team members)

- ❖ Better estimation of data management costs

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I. Context, positioning and objectives

Objectives

❖ Describe all research products (publications, data, software…)

❖ Present one or more structuring objectives for opening up data: data paper, database etc…

❖ Mention possible data reuse

State of the art

❖ Bibliographic research supplemented by data research

❖ What pre-existing data?

❖ What is the point of collecting new data?

I. Methodology and risk management

Methodology

❖ Plan tasks and deliverables that achieve the objectives of opening up data and publications

❖ Link work organisation and partner responsibilities in the work package description

❖ Use of a (very large) research infrastructure: what support for data acquisition, storage and availability?

Risk management

❖ Mention data with particular sensitivity and associated risks

❖ Identify the people responsible for managing data and any rules or restrictions applying to this data

II. Organising and conducting your project

The scientific coordinator

❖ What achievements in open science?

❖ Experience of managing projects with open science requirements

❖ Ability to coordinate all aspects of the project

The consortium / the team

❖ Specify existing open science skills

❖ Identify the missing skills and how they will be acquired: training, external support, etc…

❖ For each partner: specify how open science activities will be carried out

❖ Involve support services in the project: library, research and innovation service, DPO…

II. Means implemented

General principles

❖ No specific cost category for open science, but these expenses can be broken down into the usual categories

❖ Need of consistency between means and objectives and between the demands of different partners

Main expense categories

❖ Category a. Staff costs: estimate the time required to conduct and disseminate research in an open science approach

❖ Category b. Tools and material costs: purchase of storage space, digitisation of documents

❖ Category d. External services: anonymisation of data, APC fees…

Open access publication fees

Points of attention

❖ Costs non-eligible for publication in a hybrid journal. Only journal that are natively in open access or subject to a transformative agreement are covered

❖ Does not only cover the publication costs of articles, but also books, datasets…

❖ Eligible if paid before the end of the project

❖ Be careful when choosing the journal: [DOAJ](), [QOAM]()

Publication in HAL remains mandatory

III. Impact and knock-on effects

General considerations

❖ Propose a coherent approach encompassing the social and economic valorisation of research and free dissemination of part of the project's output

❖ Systematically opening up data is not always justified: « as open as possible, as close as necessary »

❖ Modulate approaches according to the funding scheme:

  ❖ PRCE : Reconciling openness and economic exploitation (patents…)

  ❖ PRCI : Emphasise international issues and complementary approaches

  ❖ PRC et JCJC : Promoting continuity between the free dissemination of results and their use by civil society

❖ A strategy of free dissemination of results requires more time than traditional dissemination, especially when partners are not used to it

IV. Bibliography and CV

Bibliography

❖ Provide a link to a freely accessible version of the articles whenever possible

CV

❖ Deposit the 5 major publications in an open access archive

❖ Avoid mentioning the journal impact factor for the selected references

❖ Have an up-to-date and public ORCID profile

Who can help you manage your project data?

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SOS-PGD

❖ Directory of french support services for drafting data management plans: https://gtso.couperin.org/gtdonnees/sos-pgd/

Cat Opidor

❖ Wiki of french services dedicated to research data:
https://cat.opidor.fr/index.php/Cat_OPIDoR,_wiki_des_services_d%C3%A9di%C3%A9s_aux_donn%C3%A9es_de_la_recherche

Thank you for your attention!

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