

## Guide to writing a Data Management Plan

This document is designed to help **researchers** and **project managers** to write **Data Management Plans** (DMPs). It accompanies the **DMP template document** developed by the CeRIS library. The template document consists of a **set of questions** that researchers should think about at the beginning of a research project. For each question, we provide **examples of answers** and **advice** given by the relevant services of the Institut Pasteur. The structure of the DMP is based on the template provided by the European Commission, with additional material from several services of the Institut Pasteur: the library and archives of the CeRIS, the Information Systems Department, the Legal Affairs Department, the Ethics Unit, the Patents and Inventions Department, the Quality Department, and the Center for Translational Science.

### What are we talking about?

**Research data** are factual records (figures, texts, images, and sounds), used as primary sources for scientific research and commonly accepted in the scientific community as necessary to validate research findings (OECD definition, 2007).

A scientific **dataset** is a collection of data forming a coherent whole. The use of datasets requires metadata explaining how the data were produced and should be used.

A **Data Management Plan** (DMP) is a document written at the start of a research project which defines how the generated data will be managed, during and after the project: from data collection until data sharing and archiving. This is a draft document that should be regularly updated during the research project.



This document is made available under the terms of the [Creative Commons CC-BY-NC-SA License](https://creativecommons.org/licenses/by-nc-sa/4.0/)

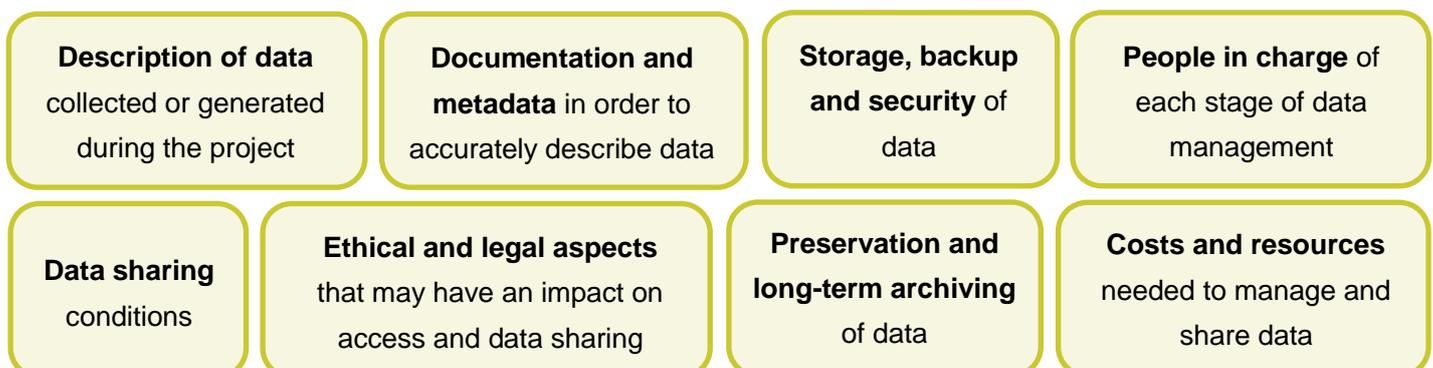
## Who should write the DMP?

The **research team coordinating the project** is responsible for writing the DMP. However, various services at the Institut Pasteur are available to help researchers at each stage of the process. **Feel free to contact them** if you need help:

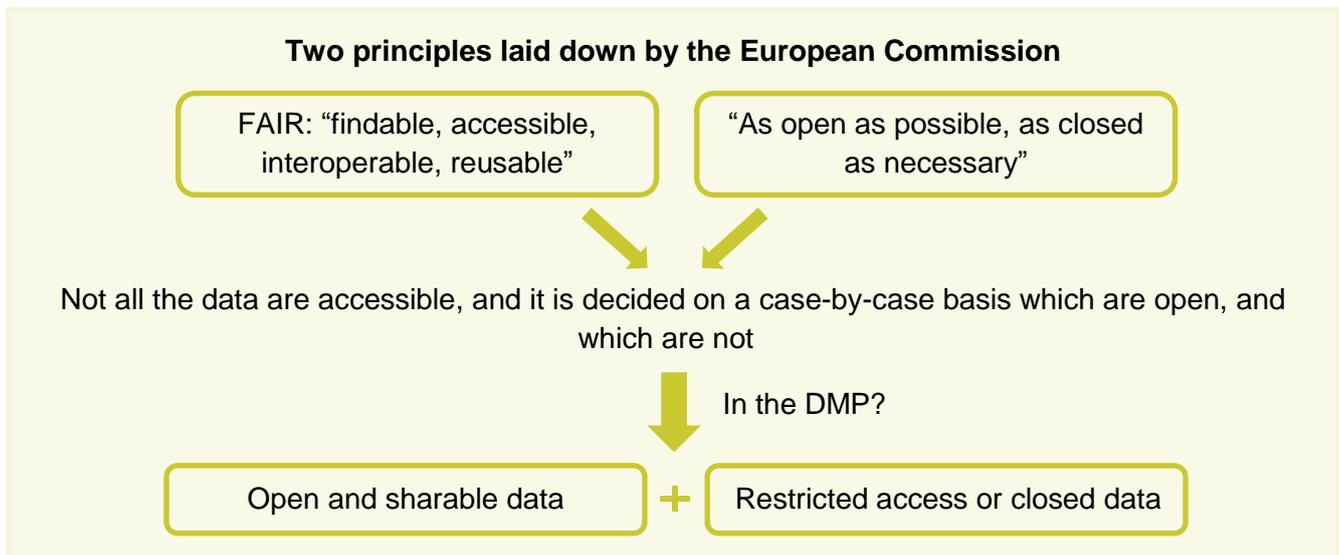
The CeRIS Library	<a href="mailto:bibliotheque@pasteur.fr">bibliotheque@pasteur.fr</a>
The CeRIS Archives	<a href="mailto:archives@pasteur.fr">archives@pasteur.fr</a>
The Legal Affairs Department	<ul style="list-style-type: none"><li>• <a href="mailto:anne-laure.morin@pasteur.fr">anne-laure.morin@pasteur.fr</a> for general questions</li><li>• <a href="mailto:rgpd@pasteur.fr">rgpd@pasteur.fr</a> for questions concerning personal data</li></ul>
The Quality Department	<a href="mailto:qualite@pasteur.fr">qualite@pasteur.fr</a>
The Ethics Unit	<a href="mailto:samira.ouchhi@pasteur.fr">samira.ouchhi@pasteur.fr</a>
The Information Systems Department	<ul style="list-style-type: none"><li>• <a href="mailto:informatique@pasteur.fr">informatique@pasteur.fr</a> for general questions</li><li>• <a href="mailto:rssi@pasteur.fr">rssi@pasteur.fr</a> for questions concerning data security</li></ul>
The Patents and Inventions Department	<a href="mailto:sbi@pasteur.fr">sbi@pasteur.fr</a>
The Grants Office	<a href="mailto:go-all@pasteur.fr">go-all@pasteur.fr</a>
The Center for Translational Science	<a href="mailto:crt-opendesk@pasteur.fr">crt-opendesk@pasteur.fr</a>

## What information do you need to include in the DMP?

The writing of the DMP aims to formalize and compile **information that is often already available**, to optimize the preparation of all stages of the data lifecycle. The DMP addresses the following topics:



## Is the DMP restricted to open data?



A DMP can therefore be drawn up for both **data sharing** and **data with partially restricted or closed access**. In the latter case, the DMP should mention the reasons for not sharing data.

## When should the DMP be written?

### For European projects:

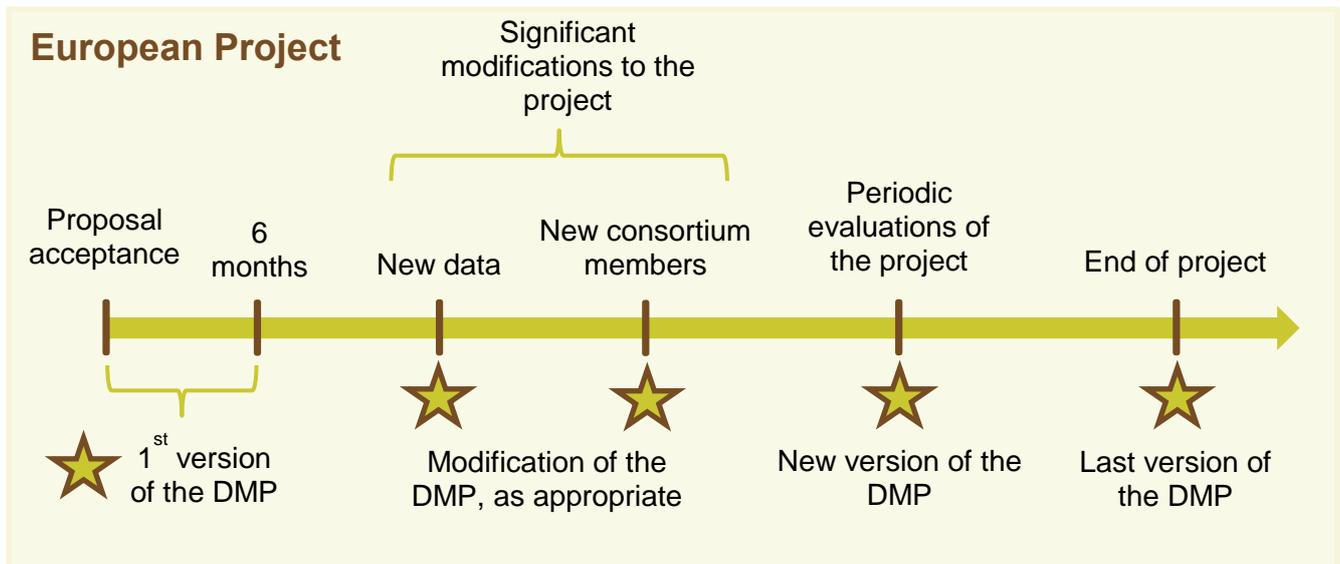
The first version of the DMP must be written within six months of the proposal being accepted. It is not essential to provide detailed answers to all the questions in this version. Regular updates are then required:

- Every time that the project is significantly modified (e.g. new data, decision to file for a patent, new members joining the consortium)
- Before each of the scheduled evaluations of the project
- Before the final project review

The DMP must include a visible version number and may be accompanied by an update calendar.

### For other projects:

Other funding organizations do not provide recommendations. We therefore suggest following the recommendations of the European Commission.



## Why write a Data Management Plan?

- ★ REFLECTION: ask yourself the right questions
- ★ ANTICIPATION: prepare all stages of the data lifecycle
- ★ MANAGEMENT: optimize the management of your data
- ★ OBLIGATION: the DMP is a deliverable required by the European Commission

## Why improve data management?

- ★ REPRODUCIBILITY: ensure the integrity and reproducibility of the research
- ★ QUALITY: improve the precision, completeness, authenticity and reliability of the data
- ★ SAVE TIME: avoid duplicating data, thus saving time and resources
- ★ PRESERVATION: improve data security and minimize the risk of data loss
- ★ VALORISATION: increase the visibility and impact of researchers' work
- ★ INNOVATION: foster reuse and innovation through sharing
- ★ COLLABORATION: contribute to the setting up of scientific collaborations

## Where should the DMP be stored/disseminated?

During the project, the various versions of the DMP can be posted on the project website. At the end of the project, the final version of the DMP can be deposited in an open data repository, such as Zenodo.

## Other questions?

Contact the CeRIS library for more information:

- Fanny SEBIRE: [fanny.sebire@pasteur.fr](mailto:fanny.sebire@pasteur.fr)
- Anne LASSAILLY-BONDAZ: [anne.lassailly-bondaz@pasteur.fr](mailto:anne.lassailly-bondaz@pasteur.fr)

## Development

Fanny SEBIRE (CeRIS library, Institut Pasteur). This document is based on documents from other universities, research institutes <sup>[1], [2], [3]</sup>, and the European Commission <sup>[4]</sup>.

## References

[1] Reymonet N., Moysan M., Cartier A. et Délémontez R. *Réaliser un plan de gestion de données « FAIR » : modèle.* (V2, 2018). Licence Creative Commons CC-BY-NC-SA.

[https://hal.archives-ouvertes.fr/sic\\_01690547](https://hal.archives-ouvertes.fr/sic_01690547)

[2] CEA. *Guide « Plan de Gestion de Données Scientifiques »* (V5, septembre 2017). Licence Creative Commons CC-BY-NC-SA.

[3] IFSTTAR. *PGD - Plan de Gestion de Données Scientifiques, DMP –Data Management Plan* (janvier 2018).

[4] Commission européenne, direction générale pour la recherche et l'innovation. *Guidelines on FAIR Data Management in Horizon 2020* (V3.0, 26 juillet 2016).

[http://ec.europa.eu/research/participants/data/ref/h2020/grants\\_manual/hi/oa\\_pilot/h2020-hi-oa-data-mgt\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf)