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## Plan Overview

*A Data Management Plan created using DMPonline*

**Title:** RESEarch for healThy AGEING - RESETageing

**Creator:** Luis Estronca

**Data Manager:** Luís Estronca

**Project Administrator:** Lino da Silva Ferreira

**Affiliation:** Other

**Funder:** European Commission

**Template:** Horizon 2020 Template

### Project abstract:

Life expectancy in Europe has increased, which means that its population is ageing faster than before. However, living longer does not necessarily mean living better. In fact, the chances of spending these later years in good health vary within and between countries. Promoting good health throughout life is a top priority in order to relieve individual suffering and reduce the massive strain on public finances. The EU-funded RESETageing project will enhance scientific and innovation competences at Portugal's University of Coimbra, which will work together with the University of Newcastle upon Tyne in the United Kingdom, the University of Maastricht in the Netherlands and the Leibniz Institute on Aging – Fritz Lipmann Institute in Germany. The project's main aim is to stimulate research excellence in ageing and age-related cardiovascular diseases.

**ID:** 103424

**Start date:** 01-01-2021

**End date:** 31-12-2023

**Last modified:** 08-07-2022

**Grant number / URL:** <https://cordis.europa.eu/project/id/952266>

### Copyright information:

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# RESEarch for healThy AGEING - RESETageing - Initial DMP

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## 1. Data summary

**Provide a summary of the data addressing the following issues:**

- **State the purpose of the data collection/generation**
- **Explain the relation to the objectives of the project**
- **Specify the types and formats of data generated/collected**
- **Specify if existing data is being re-used (if any)**
- **Specify the origin of the data**
- **State the expected size of the data (if known)**
- **Outline the data utility: to whom will it be useful**

This document describes the initial Data Management Plan (DMP) for the RESETageing project, funded by the EU's Horizon 2020 Programme under Grant Agreement number 952266. This document defines the general policy to data management in RESETageing project.

This DMP allows the alignment of RESETageing consortium regarding the data management generated during the project. Is intended to be a guide on how partners should generate, acquire, handle, share and curate their research data within RESETageing project.

The DMP is a living document and will be updated throughout the project whenever significant changes arise.

The project is in its initial phase and therefore at this stage it is not yet possible to anticipate all the types of data that will be generated during RESETageing project development.

The template for the description of the datasets is available to each partner of RESETageing consortium in order to elaborate the detailed description for each dataset generated within RESETageing project. As the datasets are identified they will be described and added in the future versions of this living document.

The elaboration of RESETageing general data management policy has been developed in accordance to the open data requirements of Horizon 2020 FAIR principles and it follows the template for Horizon 2020 FAIR Data Management Plan (version 3.0). It applies mainly to new results that are produced in RESETageing and that are to be made available by the project consortium as open source, open science and open data.

## 2. FAIR data

### 2.1 Making data findable, including provisions for metadata:

- **Outline the discoverability of data (metadata provision)**
- **Outline the identifiability of data and refer to standard identification mechanism. Do you make use of persistent and unique identifiers such as Digital Object Identifiers?**
- **Outline naming conventions used**
- **Outline the approach towards search keyword**
- **Outline the approach for clear versioning**
- **Specify standards for metadata creation (if any). If there are no standards in your discipline describe what metadata will be created and how**

The publications and data produced in RESETageing will be made identifiable and locatable, if possible, by assigning a Digital Object Identifier (DOI) or, as an alternative, by a persistent and unique Uniform Resource Locator (URL), to make their content identifiable and citable.

The open data generated in RESETageing results that will be preferentially deposited in an Open Access repository in Zenodo, to which will be attributed a DOI identifier. If the results are deposited in other repositories, they will be indefinable either by DOI (if possible) or by a persistent URL.

File names will include a version number and/or a time stamp.

The results deposited in the repositories will have search keywords to optimize for their re-use.

The data deposited in the repositories will use, if possible, DOI versioning, which allow to cite a specific version of a dataset.

The following fields will be used for the elaboration of the Metadata for describing the collected and generated data within RESETageing project:

**- Dataset Title**

Title of the dataset

**- Dataset Description**

Description of the dataset, not the research or the results obtained after analyzing the dataset.

**- Dataset Context**

Details about the research questions that lead to the collection of this dataset

**- Date**

Date of publication of the dataset in format YYYY-MM-DD.

**- Last modification date**

Date dataset was last modified in format YYYY-MM-DD.

**- Dataset Files**

Dataset files identifiers, type, filenames, size of the files in bytes.

**- Authors**

The authors of the dataset and role in the dataset (e.g. Name, Institution, Address, Email, ORCID, Role). ORCID is a persistent digital identifier for researchers which is encouraged to be used.

**- Licenses/restrictions**

Licenses/restrictions placed on the data. Open license from controlled vocabulary "Open Definition Licenses Service"

**- Dataset Digital Object Identifier (DOI)**

Attributed DOI at the depository.

**- Other Related Identifiers**

Other persistent identifiers of related publications and datasets, if applied.

**- Keywords**

Keywords for this dataset.

**- Grants**

List of European Commission grants which have funded the research for this deposition (952266). Include other agencies and grant numbers if applicable.

## **2.2 Making data openly accessible:**

- **Specify which data will be made openly available? If some data is kept closed provide rationale for doing so**
- **Specify how the data will be made available**
- **Specify what methods or software tools are needed to access the data? Is**

**documentation about the software needed to access the data included? Is it possible to include the relevant software (e.g. in open source code)?**

- **Specify where the data and associated metadata, documentation and code are deposited**
- **Specify how access will be provided in case there are any restrictions**

In general, and as default, the data that will be generated during the project for general purpose will be open. There might be some exceptions such as 1) copyright, 2) personal data treatment, 3) data-driven business model.

The data from RESETageing will be made accessible according to the Rules on Open Access to Scientific Publications and Open Access to Research Data in Horizon 2020 as following:

The access to scientific publications will be ensured by publishing in gold open access peer-reviewed journals with or without author processing fees or in a publishing the peer-reviewed platform such as Open research Europe (ORE)[\[1\]](https://open-research-europe.ec.europa.eu/).

The scientific publications resulting from RESETageing will be made announced on the project website (<http://www.resetageing.eu/>) as well as in the Funding & Tender Opportunities Portal[\[2\]](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home).

All open data of the project will be openly accessible at an Open Access repository as soon as possible.

Non-public research data will be archived at the repository using a restricted access option.

The default repository of the RESETageing project for depositing open data is Zenodo (<http://www.zenodo.org>). Zenodo is a general purpose open-access repository developed under the European OpenAire program, in which a DOI is automatically assigned to all deposited data, which can be uploaded in any file format.

The author of the dataset can decide to use other repository, but it must be OpenAIRE-compliant and have a DOI or other persistent identifier.

All attempts will be made to make the research data available. If there is a need to restrict data stored in the repository, all the information regarding the restricted data will be published in that repository.

In the metadata are well-described the conditions for access the data in a in machine-readable format.

In case there are restricted data stored in the RESETageing repositories, the author of the restricted dataset will be notified for the wishing access request and can decide to accept or reject the request. This mechanism will allow the ascertainment of the identity of the person that wants to have access to the restricted data.

[\[1\]](https://open-research-europe.ec.europa.eu/) <https://open-research-europe.ec.europa.eu/>

[\[2\]](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home) <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home>

## **2.3 Making data interoperable:**

- **Assess the interoperability of your data. Specify what data and metadata vocabularies, standards or methodologies you will follow to facilitate interoperability.**
- **Specify whether you will be using standard vocabulary for all data types present in your data set, to allow inter-disciplinary interoperability? If not, will you provide mapping to more commonly used ontologies?**

All the means will be used to have self-describing, machine-independent data formats that facilitate the exchange and reuse the scientific data.

The following standard vocabularies will be used:

- License: Open Definition (<http://opendefinition.org/>)
- Funders: FundRef (<https://www.crossref.org/services/funder-registry/>)

- Grants: OpenAIRE (<http://api.OpenAIRE.eu/>)

## 2.4 Increase data re-use (through clarifying licenses):

- **Specify how the data will be licenced to permit the widest reuse possible**
- **Specify when the data will be made available for re-use. If applicable, specify why and for what period a data embargo is needed**
- **Specify whether the data produced and/or used in the project is useable by third parties, in particular after the end of the project? If the re-use of some data is restricted, explain why**
- **Describe data quality assurance processes**
- **Specify the length of time for which the data will remain re-usable**

The open results arising from the RESETEdge project will be encouraged to be released under a Creative Commons license, preferably Creative Commons Attribution 4.0 (CC-BY-4.0, <http://opendefinition.org/licenses/cc-by/>).

All efforts will be made for the data used in the scientific publications to be made available as open access at the same time as the publication.

The open data produced by the project and deposited in a repository are usable by third parties after the end of the project. If the data was deposited in the repository as restricted, the access may be granted upon request and under the conditions of a restricted license.

The open data that are deposited in the repository will be available at least 5 years after the conclusion of the project. Currently the lifetime of the default RESETEdge repository, Zenodo, hosted by CERN, has an experimental programme for the next 20+ years.

## 3. Allocation of resources

**Explain the allocation of resources, addressing the following issues:**

- **Estimate the costs for making your data FAIR. Describe how you intend to cover these costs**
- **Clearly identify responsibilities for data management in your project**
- **Describe costs and potential value of long term preservation**

We anticipate that all costs regarding publishing the results in peer-reviewed scientific publications as gold open access will be granted by RESETEdge project, being the costs depending on each journal policy. No costs are foreseen for storing open results in the project's default repository. For local storage of the generated data, hard drives might be needed to be acquired (each 4.7 TB hard drive ~100Eur+TAX).

The costs related to open access to research data in Horizon 2020 will be covered by RESETEdge project during the duration of the project.

Regarding the data management of RESETEdge project there are the following roles and responsibilities:

Project Data Manager

- data management plan writing and development in cooperation with RESETEdge Coordinator

- monitoring the data management activities
- monitoring that research data related to a publication is made available in repositories and linked to respective publication
- monitoring that publications available in OpenAIRE are properly linked with RESETageing project and website

#### WP Data Managers

- monitoring data management activities and deadlines
- providing input to the data management plan by providing, analysing and summarizing the WP-specific datasets
- monitoring that open data are deposited in an open access the default repository
- monitoring that open results available in OpenAIRE are properly linked with RESETageing project

#### Data Authors

- informing the WP data managers and project data manager when new open data are available for publication
  - describing the dataset in accordance to the RESETageing data management policy provided by the project
  - depositing into a repository the dataset in accordance to the RESETageing data management policy
- There are not expected costs regarding long-term preservation in Zenodo repository.

## 4. Data security

### **Address data recovery as well as secure storage and transfer of sensitive data**

The data stored in the default RESETageing repository (Zenodo) are stored in CERN's EOS service (<https://eos-web.web.cern.ch/eos-web/>) in 350 petabytes disk cluster (40k hard disks).

Open data deposited in the default RESETageing repository (Zenodo) are safely stored for long time preservation.

## 5. Ethical aspects

### **To be covered in the context of the ethics review, ethics section of DoA and ethics deliverables. Include references and related technical aspects if not covered by the former**

At this stage, all identified ethical requirements are documented in Deliverable D7.1.

Deliverable D7.1 "POPD - Requirement No. 4 - Description of the anonymisation/pseudonymisation techniques that will be implemented" provides information about applying ethical standards and requirements for personal data treatment.

## 6. Other

**Refer to other national/funder/sectorial/departmental procedures for data management that you are using (if any)**

Currently, the project does not make use of procedures for data management other than those described in this data management policy. Any change regarding this section will be reported in future versions of the DMP.

# RESEarch for healThy AGEING - RESETageing - Detailed DMP

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## 1. Data summary

### State the purpose of the data collection/generation

This DMP allows the alignment of RESETageing consortium regarding the data management generated during the project. Is intended to be a guide on how partners should generate, acquire, handle, share and curate their research data within RESETageing project.

It was elaborated a template with a detailed description to be used as template to describe the datasets that will be generated, collected and produced in RESETageing Science within the consortium.

The DMP is a living document and will be updated throughout the project whenever significant changes arise.

### Explain the relation to the objectives of the project

The template for the description of the datasets is available to each partner of RESETageing consortium in order to elaborate the detailed description for each dataset generated within RESETageing project. As the datasets are identified they will be described and added in the future versions of this living document with the explanation with the relation to the objectives of the project.

### Specify the types and formats of data generated/collected

The project is in its initial phase and therefore at this stage it is not yet possible to anticipate all the types of data that will be generated during RESETageing project development.

### Specify if existing data is being re-used (if any)

Question not answered.

### Specify the origin of the data

Question not answered.

### State the expected size of the data (if known)

Question not answered.

## **Outline the data utility: to whom will it be useful**

### **2.1 Making data findable, including provisions for metadata [FAIR data]**

#### **Outline the discoverability of data (metadata provision)**

The elaboration of RESETageing general data management policy has been developed in accordance to the open data requirements of Horizon 2020 FAIR principles and it follows the template for Horizon 2020 FAIR Data Management Plan (version 3.0). It applies mainly to new results that are produced in RESETageing and that are to be made available by the project consortium as open source, open science and open data.

#### **Outline the identifiability of data and refer to standard identification mechanism. Do you make use of persistent and unique identifiers such as Digital Object Identifiers?**

The publications and data produced in RESETageing will be made identifiable and locatable, if possible, by assigning a Digital Object Identifier (DOI) or, as an alternative, by a persistent and unique Uniform Resource Locator (URL), to make their content identifiable and citable.

The open data generated in RESETageing results that will be preferentially deposited in an Open Access repository in Zenodo, to which will be attributed a DOI identifier. If the results are deposited in other repositories, they will be identifiable either by DOI (if possible) or by a persistent URL.

File names will include a version number and/or a time stamp.

The results deposited in the repositories will have search keywords to optimize for their re-use.

The data deposited in the repositories will use, if possible, DOI versioning, which allow to cite a specific version of a dataset.

#### **Outline naming conventions used**

Question not answered.

#### **Outline the approach towards search keyword**

The dataset information reported into the metadata template will be published in Zenodo repository where specific filters will allow to refine the search across datasets.

#### **Outline the approach for clear versioning**

The versioning management of the data, metadata and in general the files stored into the Repository will be via the naming convention and the use of the date as suffix, indicating the last version of the file uploaded into the Repository

**Specify standards for metadata creation (if any). If there are no standards in your discipline describe what metadata will be created and how**

The following fields will be used for the elaboration of the Metadata for describing the collected and generated data within RESETEngineing project:

**- Dataset Title**

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The authors of the dataset and role in the dataset (e.g. Name, Institution, Address, Email, ORCID, Role). ORCID is a persistent digital identifier for researchers which is encouraged to be used.

**- Licenses/restrictions**

Licenses/restrictions placed on the data. Open license from controlled vocabulary "Open Definition Licenses Service"

**- Dataset Digital Object Identifier (DOI)**

Attributed DOI at the depository.

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Other persistent identifiers of related publications and datasets, if applied.

**- Keywords**

Keywords for this dataset.

**- Grants**

List of European Commission grants which have funded the research for this deposition (952266). Include other agencies and grant numbers if applicable.

## **2.2 Making data openly accessible [FAIR data]**

**Specify which data will be made openly available? If some data is kept closed provide rationale for doing so**

In general, and as default, the data that will be generated during the project for general purpose will be open. There might be some exceptions such as 1) copyright, 2) personal data treatment, 3) data-

driven business model.

### **Specify how the data will be made available**

The data from RESETageing will be made accessible according to the Rules on Open Access to Scientific Publications and Open Access to Research Data in Horizon 2020 as following:

The access to scientific publications will be ensured by publishing in gold open access peer-reviewed journals with or without author processing fees or in a publishing the peer-reviewed platform such as Open research Europe (ORE)[\[1\]](https://open-research-europe.ec.europa.eu/).

The scientific publications resulting from RESETageing will be made announced on the project website (<http://www.resetageing.eu/>) as well as in the Funding & Tender Opportunities Portal[\[2\]](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home).

All open data of the project will be openly accessible at an Open Access repository as soon as possible. Non-public research data will be archived at the repository using a restricted access option.

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[\[2\]](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home) <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home>

### **Specify what methods or software tools are needed to access the data? Is documentation about the software needed to access the data included? Is it possible to include the relevant software (e.g. in open source code)?**

In the metadata are well-described the conditions for access the data in a in machine-readable format.

### **Specify where the data and associated metadata, documentation and code are deposited**

The default repository of the RESETageing project for depositing open data is Zenodo (<http://www.zenodo.org>). Zenodo is a general purpose open-access repository developed under the European OpenAire program, in which a DOI is automatically assigned to all deposited data, which can be uploaded in any file format.

The author of the dataset can decide to use other repository, but it must be OpenAIRE-compliant and have a DOI or other persistent identifier.

### **Specify how access will be provided in case there are any restrictions**

All attempts will be made to make the research data available. If there is a need to restrict data stored in the repository, all the information regarding the restricted data will be published in that repository.

In case there are restricted data stored in the RESETageing repositories, the author of the restricted dataset will be notified for the wishing access request and can decide to accept or reject the request. This mechanism will allow the ascertainment of the identity of the person that wants to have access to the restricted data.

## 2.3 Making data interoperable [FAIR data]

**Assess the interoperability of your data. Specify what data and metadata vocabularies, standards or methodologies you will follow to facilitate interoperability.**

The following standard vocabularies will be used:

- License: Open Definition (<http://opendefinition.org/>)
- Funders: FundRef (<https://www.crossref.org/services/funder-registry/>)
- Grants: OpenAIRE (<http://api.OpenAIRE.eu/>)

**Specify whether you will be using standard vocabulary for all data types present in your data set, to allow inter-disciplinary interoperability? If not, will you provide mapping to more commonly used ontologies?**

All the means will be used to have self-describing, machine-independent data formats that facilitate the exchange and reuse the scientific data.

## 2.4 Increase data re-use (through clarifying licenses) [FAIR data]

**Specify how the data will be licenced to permit the widest reuse possible**

The open results arising from the RESETageing project will be encouraged to be release under a Creative Commons license, preferably Creative Commons Attribution 4.0 (CC-BY-4.0, <http://opendefinition.org/licenses/cc-by/>).

**Specify when the data will be made available for re-use. If applicable, specify why and for what period a data embargo is needed**

All efforts will be made for the data used in the scientific publications to be made available as open access at the same time as the publication.

**Specify whether the data produced and/or used in the project is useable by third parties, in particular after the end of the project? If the re-use of some data is restricted, explain why**

The open data produced by the project and deposited in a repository are usable by third parties after the end of the project. If the data was deposited in the repository as restricted, the access may be granted upon request and under the conditions of a restricted license.

## **Describe data quality assurance processes**

## **Specify the length of time for which the data will remain re-usable**

The open data that are deposited in the repository will be available at least 5 years after the conclusion of the project. Currently the lifetime of the default RESETageing repository, Zenodo, hosted by CERN, has an experimental programme for the next 20+ years.

## **3. Allocation of resources**

### **Estimate the costs for making your data FAIR. Describe how you intend to cover these costs**

We anticipate that all costs regarding publishing the results in peer-reviewed scientific publications as gold open access will be granted by RESETageing project, being the costs depending on each journal policy. No costs are foreseen for storing open results in the project's default repository. For local storage of the generated data, hard drives might be needed to be acquired (each 4.7 TB hard drive ~100Eur+TAX).

The costs related to open access to research data in Horizon 2020 will be covered by RESETageing project during the duration of the project.

### **Clearly identify responsibilities for data management in your project**

#### **Project Data Manager**

- data management plan writing and development in cooperation with RESETageing Coordinator
- monitoring the data management activities
- monitoring that research data related to a publication is made available in repositories and linked to respective publication
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#### **WP Data Managers**

- monitoring data management activities and deadlines
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#### **Data Authors**

- informing the WP data managers and project data manager when new open data are available for publication
- describing the dataset in accordance to the RESETageing data management policy provided by the

project

- depositing into a repository the dataset in accordance to the RESETageing data management policy

### **Describe costs and potential value of long term preservation**

There are not expected costs regarding long-term preservation in Zenodo repository.

## **4. Data security**

### **Address data recovery as well as secure storage and transfer of sensitive data**

The data stored in the default RESETageing repository (Zenodo) are stored in CERN's EOS service (<https://eos-web.web.cern.ch/eos-web/>) in 350 petabytes disk cluster (40k hard disks).

Open data deposited in the default RESETageing repository (Zenodo) are safely stored for long time preservation.

## **5. Ethical aspects**

### **To be covered in the context of the ethics review, ethics section of DoA and ethics deliverables. Include references and related technical aspects if not covered by the former**

At this stage, all identified ethical requirements are documented in Deliverable D7.1.

Deliverable D7.1 "POPD - Requirement No. 4 - Description of the anonymisation/pseudonymisation techniques that will be implemented" provides information about applying ethical standards and requirements for personal data treatment.

## **6. Other**

### **Refer to other national/funder/sectorial/departmental procedures for data management that you are using (if any)**

Currently, the project does not make use of procedures for data management other than those described in this data management policy. Any change regarding this section will be reported in future versions of the DMP.

# RESEarch for healThy AGEING - RESETageing - Final review DMP

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## 1. Data summary

### State the purpose of the data collection/generation

This DMP allows the alignment of RESETageing consortium regarding the data management generated during the project. Is intended to be a guide on how partners should generate, acquire, handle, share and curate their research data within RESETageing project.

It was elaborated a template with a detailed description to be used as template to describe the datasets that will be generated, collected and produced in RESETageing Science within the consortium.

The DMP is a living document and will be updated throughout the project whenever significant changes arise.

### Explain the relation to the objectives of the project

The template for the description of the datasets is available to each partner of RESETageing consortium in order to elaborate the detailed description for each dataset generated within RESETageing project. As the datasets are identified they will be described and added in the future versions of this living document with the explanation with the relation to the objectives of the project.

### Specify the types and formats of data generated/collected

The project is in its initial phase and therefore at this stage it is not yet possible to anticipate all the types of data that will be generated during RESETageing project development.

### Specify if existing data is being re-used (if any)

Question not answered.

### Specify the origin of the data

Question not answered.

### State the expected size of the data (if known)

Question not answered.

## **Outline the data utility: to whom will it be useful**

### **2.1 Making data findable, including provisions for metadata [FAIR data]**

#### **Outline the discoverability of data (metadata provision)**

The elaboration of RESETageing general data management policy has been developed in accordance to the open data requirements of Horizon 2020 FAIR principles and it follows the template for Horizon 2020 FAIR Data Management Plan (version 3.0). It applies mainly to new results that are produced in RESETageing and that are to be made available by the project consortium as open source, open science and open data.

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The publications and data produced in RESETageing will be made identifiable and locatable, if possible, by assigning a Digital Object Identifier (DOI) or, as an alternative, by a persistent and unique Uniform Resource Locator (URL), to make their content identifiable and citable.

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The data deposited in the repositories will use, if possible, DOI versioning, which allow to cite a specific version of a dataset.

#### **Outline naming conventions used**

Question not answered.

#### **Outline the approach towards search keyword**

The dataset information reported into the metadata template will be published in Zenodo repository where specific filters will allow to refine the search across datasets.

#### **Outline the approach for clear versioning**

The versioning management of the data, metadata and in general the files stored into the Repository will be via the naming convention and the use of the date as suffix, indicating the last version of the file uploaded into the Repository

**Specify standards for metadata creation (if any). If there are no standards in your discipline describe what metadata will be created and how**

The following fields will be used for the elaboration of the Metadata for describing the collected and generated data within RESETEaging project:

**- Dataset Title**

Title of the dataset

**- Dataset Description**

Description of the dataset, not the research or the results obtained after analyzing the dataset.

**- Dataset Context**

Details about the research questions that lead to the collection of this dataset

**- Date**

Date of publication of the dataset in format YYYY-MM-DD.

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Date dataset was last modified in format YYYY-MM-DD.

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Dataset files identifiers, type, filenames, size of the files in bytes.

**- Authors**

The authors of the dataset and role in the dataset (e.g. Name, Institution, Address, Email, ORCID, Role). ORCID is a persistent digital identifier for researchers which is encouraged to be used.

**- Licenses/restrictions**

Licenses/restrictions placed on the data. Open license from controlled vocabulary "Open Definition Licenses Service"

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Attributed DOI at the depository.

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Other persistent identifiers of related publications and datasets, if applied.

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Keywords for this dataset.

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List of European Commission grants which have funded the research for this deposition (952266). Include other agencies and grant numbers if applicable.

## **2.2 Making data openly accessible [FAIR data]**

**Specify which data will be made openly available? If some data is kept closed provide rationale for doing so**

In general, and as default, the data that will be generated during the project for general purpose will

be open. There might be some exceptions such as 1) copyright, 2) personal data treatment, 3) data-driven business model.

### **Specify how the data will be made available**

The data from RESETageing will be made accessible according to the Rules on Open Access to Scientific Publications and Open Access to Research Data in Horizon 2020 as following:

The access to scientific publications will be ensured by publishing in gold open access peer-reviewed journals with or without author processing fees or in a publishing the peer-reviewed platform such as Open research Europe (ORE)[\[1\]](https://open-research-europe.ec.europa.eu/).

The scientific publications resulting from RESETageing will be made announced on the project website (<http://www.resetageing.eu/>) as well as in the Funding & Tender Opportunities Portal[\[2\]](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home).

All open data of the project will be openly accessible at an Open Access repository as soon as possible. Non-public research data will be archived at the repository using a restricted access option.

[\[1\]](https://open-research-europe.ec.europa.eu/) <https://open-research-europe.ec.europa.eu/>

[\[2\]](https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home) <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home>

### **Specify what methods or software tools are needed to access the data? Is documentation about the software needed to access the data included? Is it possible to include the relevant software (e.g. in open source code)?**

In the metadata are well-described the conditions for access the data in a in machine-readable format.

### **Specify where the data and associated metadata, documentation and code are deposited**

The default repository of the RESETageing project for depositing open data is Zenodo (<http://www.zenodo.org>). Zenodo is a general purpose open-access repository developed under the European OpenAire program, in which a DOI is automatically assigned to all deposited data, which can be uploaded in any file format.

The author of the dataset can decide to use other repository, but it must be OpenAIRE-compliant and have a DOI or other persistent identifier.

### **Specify how access will be provided in case there are any restrictions**

All attempts will be made to make the research data available. If there is a need to restrict data stored in the repository, all the information regarding the restricted data will be published in that repository.

In case there are restricted data stored in the RESETageing repositories, the author of the restricted dataset will be notified for the wishing access request and can decide to accept or reject the request. This mechanism will allow the ascertainment of the identity of the person that wants to have access to the restricted data.

## **2.3 Making data interoperable [FAIR data]**

**Assess the interoperability of your data. Specify what data and metadata vocabularies, standards or methodologies you will follow to facilitate interoperability.**

The following standard vocabularies will be used:

- License: Open Definition (<http://opendefinition.org/>)
- Funders: FundRef (<https://www.crossref.org/services/funder-registry/>)
- Grants: OpenAIRE (<http://api.OpenAIRE.eu/>)

**Specify whether you will be using standard vocabulary for all data types present in your data set, to allow inter-disciplinary interoperability? If not, will you provide mapping to more commonly used ontologies?**

All the means will be used to have self-describing, machine-independent data formats that facilitate the exchange and reuse the scientific data.

## **2.4 Increase data re-use (through clarifying licenses) [FAIR data]**

**Specify how the data will be licenced to permit the widest reuse possible**

The open results arising from the RESETageing project will be encouraged to be release under a Creative Commons license, preferably Creative Commons Attribution 4.0 (CC-BY-4.0, <http://opendefinition.org/licenses/cc-by/>).

**Specify when the data will be made available for re-use. If applicable, specify why and for what period a data embargo is needed**

All efforts will be made for the data used in the scientific publications to be made available as open access at the same time as the publication.

**Specify whether the data produced and/or used in the project is useable by third parties, in particular after the end of the project? If the re-use of some data is restricted, explain why**

The open data produced by the project and deposited in a repository are usable by third parties after the end of the project. If the data was deposited in the repository as restricted, the access may be granted upon request and under the conditions of a restricted license.

**Describe data quality assurance processes**

Question not answered.

### **Specify the length of time for which the data will remain re-usable**

The open data that are deposited in the repository will be available at least 5 years after the conclusion of the project. Currently the lifetime of the default RESETageing repository, Zenodo, hosted by CERN, has an experimental programme for the next 20+ years.

### **3. Allocation of resources**

#### **Estimate the costs for making your data FAIR. Describe how you intend to cover these costs**

We anticipate that all costs regarding publishing the results in peer-reviewed scientific publications as gold open access will be granted by RESETageing project, being the costs depending on each journal policy. No costs are foreseen for storing open results in the project's default repository. For local storage of the generated data, hard drives might be needed to be acquired (each 4.7 TB hard drive ~100Eur+TAX).

The costs related to open access to research data in Horizon 2020 will be covered by RESETageing project during the duration of the project.

#### **Clearly identify responsibilities for data management in your project**

##### **Project Data Manager**

- data management plan writing and development in cooperation with RESETageing Coordinator
- monitoring the data management activities
- monitoring that research data related to a publication is made available in repositories and linked to respective publication
- monitoring that publications available in OpenAIRE are properly linked with RESETageing project and website

##### **WP Data Managers**

- monitoring data management activities and deadlines
- providing input to the data management plan by providing, analysing and summarizing the WP-specific datasets
- monitoring that open data are deposited in an open access the default repository
- monitoring that open results available in OpenAIRE are properly linked with RESETageing project

##### **Data Authors**

- informing the WP data managers and project data manager when new open data are available for publication
- describing the dataset in accordance to the RESETageing data management policy provided by the project

- depositing into a repository the dataset in accordance to the RESETageing data management policy

### **Describe costs and potential value of long term preservation**

There are not expected costs regarding long-term preservation in Zenodo repository.

## **4. Data security**

### **Address data recovery as well as secure storage and transfer of sensitive data**

The data stored in the default RESETageing repository (Zenodo) are stored in CERN's EOS service (<https://eos-web.web.cern.ch/eos-web/>) in 350 petabytes disk cluster (40k hard disks).

Open data deposited in the default RESETageing repository (Zenodo) are safely stored for long time preservation.

## **5. Ethical aspects**

### **To be covered in the context of the ethics review, ethics section of DoA and ethics deliverables. Include references and related technical aspects if not covered by the former**

At this stage, all identified ethical requirements are documented in Deliverable D7.1.

Deliverable D7.1 "POPD - Requirement No. 4 - Description of the anonymisation/pseudonymisation techniques that will be implemented" provides information about applying ethical standards and requirements for personal data treatment.

## **6. Other**

### **Refer to other national/funder/sectorial/departmental procedures for data management that you are using (if any)**

Currently, the project does not make use of procedures for data management other than those described in this data management policy. Any change regarding this section will be reported in future versions of the DMP.