D1.2 – Data Management Plan WP1 - Task 1.3 December 2024 [M3]

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Summary

The main goal of the Data Management Plan is to describe how the research data will be handled during and after the end of the project, what kind of data will be collected, processed and/or generated, which methodology and standards will be applied, whether data will be shared/made open access and how data will be curated and preserved.

Any peer-reviewed research publications, abstracts and presentations for international conferences may also be shared through the website of the project at https://find-project.eu/.

Abbreviations and acronyms

Acronym	Description
C&D	Content and dissemination
CA	Consortium Agreement
CC	Common Creative
D	Deliverable
DMP	Data Management Plan
DoA	Description of Action
DOI	Digital Object Identifier
DPO	Data Protection Officer
EC	European Commission
EUG	End User Group
FAIR	Findable, Accessible, Interoperable and Reusable
GA	Grant Agreement
GDPR	General Data Protection Regulation
HE	Horizon Europe
IPR	Intellectual Property Rights
ISSN	International Standard Serial Number
M	Month (of the project)
NDA	Non- Disclosure Agreement
ORDP	Open Research Data Pilot
PII	Publisher Item Identifier
PMO	Project Management Office
PU	Public
SENS	Sensitive
URL	Uniform Resource Locator
WP	Work Package
WPL	Work Package Leader

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1. Introduction

This deliverable provides an easy overview of data the FIND project is expected to generate, the types and formats of this data, and how this data is processed and stored to make them findable, accessible, interoperable and reusable, according to the principles of FAIR data management. The purpose of the DMP is to contribute to good data handling during the project's lifetime, and to describe how such data will be curated and preserved.

2. Purpose of the Data Management Plan

The purpose of this document is to lay out a plan for the management of data generated/collected in FIND. It covers the following:

- Identification of data to be collected/processed/generated
- Methodology and standards to be applied
- Data handling during and after the project
- Sharing, curating ad preserving data

At the time of this writing, FIND partners have identified 31 datasets to be included in the DMP at this stage. The majority of the datasets identified at this stage will remain confidential. The others will be openly accessible to the public through repositories such as Zenodo, and they will be preserved after the end of the project. The DMP is a living document – if necessary, it will be updated throughout the project's lifetime.

3. Data set properties

Following the guidelines of the EC (EC, 2016), this document contains the following properties for each of the identified data sets:

1. Name
2. Short description
3. Standards to be applied, metadata
4. Data sharing
5. Curation/archiving/preservation

A short description of each of these properties is provided below.

3.1 Name and reference code

In order to imbue the names of datasets with easily identifiable meaning that conveys important information, the following naming convention shall apply:

CountryCode.DataOwner.Openness.Title

CountryCode: this string identifies the country to which the data pertains/where the data was collected using the ISO 3166 Alpha-2 coding system.

DataOwner: this string identifies the project partner in FIND that is associated with the dataset (data collector/custodian) using the official abbreviated partner names.

Openness: this string determines whether a given dataset is intended to be shared with the public as Open Data. It may take the following values:

1. Open: can be accessed, used and shared by anyone without limitations, accessible on the internet in a machine-readable format, free of restrictions on use in its licensing)
2. Shared: available to use, but not under an open data license. Restrictions on its use or reproduction may apply (limited to a given group of people or organisations, may not be reproduced without authorisation, etc.)
3. Closed: can only be accessed by its subject, owner or holder

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Title: a short and descriptive string to identify the contents of the data

Using these strings, the name of a dataset would look like this:

FR.LGI.Open.SolarenergycollectedBordeaux

A dataset with this name would describe a survey on the solar energy collected in Bordeaux area conducted in France and curated by LGI.

3.2 Data licensing

Without a license to set out the terms of use, data is not truly open. Data without a license may be publicly accessible, but users do not have the certainty that they can use and share the data, leaving them in a legal grey area. Data licensing standards are used to lay out the openness of data sets in concrete terms, and an open data license gives explicit permission to use the data both for commercial and non-commercial purpose. There are many types of licenses to choose from, and this document will not cover them in depth. The table below provides a summary of common data licenses that will be considered for use in the project (based on definitions from opendefinition.org):

Name	Domain	Attribution	Share-alike*	Notes
Creative Commons CCZero (CC0)	Content, data	N	N	All rights (including those of attribution) waived
Open Data Commons Public Domain Dedication and Licence (PDDL)	Data	N	N	All rights (including those of attribution) waived
Creative Commons Attribution 4.0 (CC-BY-4.0)	Content, data	Y	N	Credit must be given, a link to the license must be provided, changes made must be indicated. If these terms are not followed, license may be revoked
Open Data Commons Open Database License (ODbL)	Data	Y	Y	Credit must be given, share-alike must be assured, data may be redistributed using DRM as long as a DRM-free version is also released

Table 1: Common Data Licenses

***Share-alike is the requirement that any materials created using the given dataset must be redistributed under the same license**

3.3 Making data findable, including provisions for metadata

Digital Object Identifier (DOI)

All data, publications and software produced in FIND will be identifiable and locatable by means of a persistent Uniform Resource Locator (URL). If possible, FIND results will be assigned a Digital Object Identifier (DOI) in order to make content easily and uniquely citable.

Open results that are deposited in the default Open Access repository (Zenodo, see below) will be assigned a DOI automatically and will benefit also from Zenodo's DOI versioning support.

Open results that are deposited in institutional repositories, repositories of scientific publishers or other data and research repositories will be at least definable by a persistent URL. If the institution is a DOI registrant that has an agreement with a DOI registration agency, a DOI will be assigned, too.

Whether scientific publications will be assigned a unique identifier like DOI, Publisher Item Identifier (PII), International Standard Serial Number (ISSN), etc. depends on the open access strategy (green or gold) chosen by the editors and thus also on the respective scientific publisher and the chosen research repository.

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Zenodo

FIND open data will be collected by default in an open online research data repository: Zenodo. Its structure, facilities and management are in compliance with FAIR data principles. Zenodo allows researchers to deposit both publications and data, providing tools to link them through persistent identifiers and data citations. Zenodo is set up to facilitate the finding, accessing, re-using and interoperating of data sets, which are the basic principles that ORDPs must comply with. Zenodo repository is provided by OpenAIRE and hosted by CERN. Zenodo is a catch-all repository that enables researchers, scientists, EU projects and institutions to:

- Share research results in a wide variety of formats including text, spreadsheets, audio, video, and images across all fields of science;
- Display their research results and get credited by making the research results citable and integrating them into existing reporting lines to funding agencies like the European Commission;
- Easily access and reuse shared research results;
- Assign a DOI automatically to each result deposited in the repository,
- Integrate their research outputs with the OpenAIRE portal.

Partners using alternative repositories shall make sure that they meet equivalent requirements.

Search keywords

Zenodo allows to perform simple and advanced search queries on Zenodo using the keywords. Zenodo also provides a user guide with easy-to-understand examples. Dataset specific keywords must be descriptive to the content of the dataset. The following keywords have been defined to describe the project globally and can be reused when relevant:

Structural health management, instrumentation, digital twin, accident management, material ageing, long-term operation

Version numbers

Individual file names and datasets will contain version numbers that will be incremented at each revision (V*xyz*). For publications, versioning is in general not necessary.

Zenodo provides DOI versioning of all datasets uploaded to their communities, which allows us to edit and update the uploaded datasets after they have been published. This also allows us to cite specific versions of an upload and cite all versions of an upload.

Metadata

Metadata is data on the research data themselves. It enables other researchers to find data in an online repository and is, as such, essential for the reusability of the dataset. By adding rich and detailed metadata, other researchers, can better determine whether the dataset is relevant and useful for their own research. Metadata will be uploaded in a standardized form. This metadata will be kept separate from the original raw research data.

All metadata will be made available and is licensed under CC0.

All datasets, which will be shared openly on trusted repositories will be available for at least 5 years. This will be one of the criteria, which is in the checklist to assess any repository, before it is put on the list of trusted repositories, which should be used by project partners. Furthermore, it will be checked if the metadata will remain openly available, even after the datasets have been discarded after the data retention period has expired. This also depends on the arrangement of the repository to warrant functionality over a given period of time. Assessing this part will also be part of the checklist to assess repositories. This common repository checklist will be part of the next version of the DMP.

The following deposition metadata fields are mandatory for FIND:

- the terms “European Union (EU)” and “Euratom Research and Training Programme”;
- the name of the action, acronym and grant number;

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- the title and description of the deposition metadata,
- the upload type (publication, dataset, software, …),
- the publication date (ISO8601 format, YYYY-MM-DD), and length of embargo period if applicable;
- the creators/authors of the deposition,
- the persistent identifier (DOI),
- the used keywords.

This minimal metadata schema can be extended by arbitrary subjects upon request of the consortium.

3.4 Making data openly accessible

3.4.1 Data made openly available as default

In order to maximise the impact of FIND research data, the results are shared within and beyond the consortium. Selected data and results will be shared with the scientific community and other stakeholders through publications in scientific journals and presentations at conferences, as well as through open access data repositories.

- Datasets are first managed on owner database (on institutional secure servers) for long-term storage.
- Zenodo is used to publish open data, accessible without restriction for public.
- Sharepoint can be used to share and edit documents in a collaborative way, as long as data volumes remain low.
- FIND project website serves to communicate about the project. As soon as possible, it must redirect to the sites where the data is stored, without duplicating it (Cordis for deliverables, Zenodo, HAL or Recherche Data Gouv for France, etc.).

All data must be available for verification and re-use, unless the task leader can justify why data cannot be made openly accessible. To protect the copyright of the project knowledge, Creative Commons license will be used in some cases. Specific multilateral agreements must be signed by partners to protect data that cannot be made publicly available.

3.4.2 How will the data be made accessible

FIND open results will be made accessible according to the Rules on Open Access to Scientific Publications and Open Access to Research Data in Horizon Europe.

Open data: When possible, data generated in the project will be openly accessible at an appropriate Open Access repository (like Zenodo), especially if it is needed to validate the results of a scientific publication. Non-public research data will be archived on owner database. Currently some data sets identified in the annex are closed due to partners' legitimate interests / potential for commercial exploitation i.e. to allow examination of the data for IP purpose.

Source codes: When possible, source codes should be made openly accessible, especially if they support results presented in a scientific publication. Long-term Github or Gitlab platforms (institutionally held accounts or hosted by Zenodo) should be preferred, whereas personal accounts should be avoided.

Scientific publications: Providing open access to peer-reviewed scientific publications can be ensured either by publishing in green or gold open access journals with or without article processing charges.

Gold open access (open access publishing) means that the publication is available by the scientific publisher as open access. Some journals require an author-processing fee for publishing open access. Author-publishing fees for gold open access journals can be reimbursed within the project period and budget. Some publishers allow the researcher to deposit a copy of the article in a repository, sometimes with an embargo period. For finding suitable gold open access publishers, researchers are encouraged to consult the Directory of Open Access Journals (https://doaj.org/), a service that indexes

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high quality, peer-reviewed open access academic journals that use an appropriate quality control system.

Green open access (self-archiving) means that a published article or the final peer-reviewed manuscript is archived (deposited) in an online repository before, alongside or after its publication. In some cases, the author can choose to delay access to the article (embargo period).. For finding suitable green open access publishers, researchers are encouraged to consult RoMEO (http://sherpa.ac.uk/romeo), a searchable database of publisher's policies regarding the self- archiving of journal articles on the web and in Open Access repositories.

Any scientific publications from FIND and the related bibliographic metadata must be made available as open access and announced on the project website (https://find-project.eu/), as well as in the R&I Participant Portal (https://ec.europa.eu/research/participants). To automate the process of reporting scientific publications, the publication should be deposited in an OpenAIRE-compliant repository (https://explore.openaire.eu/participate/deposit/learn-how), either by the authors of the publication (green open access) or by a scientific publisher (gold open access). While additional forms of disseminating open access papers, including academic social network sites such as ResearchGate (https://www.researchgate.net/) are possible, an electronic copy of the publication has to be deposited in suitable open access repository in the first place. According to the European Research Council's Guidelines on Open Access, "Venues such as Research Gate or Academia.edu that require users to register in order to access content do not count as repositories. The posting of publications on a personal, institutional or project specific webpage or the deposit in a publicly accessible Dropbox account is not sufficient to satisfy the requirements either."

If the chosen repository is not fully OpenAIRE compatible, the publications or data must be linked at https://explore.openaire.eu/participate/claim with the respective funding agency (European Commission). Green open access journals or gold open access journals without author processing fees should be preferred for disseminating scientific publications of the FIND project. Nevertheless, the journal's visibility and prestige (translated in the Impact Factor) of the journal, together with the speed of publication, should be considered when choosing a journal for publication of a manuscript. According to the EC recommendation, authors of the publication are encouraged to retain their copyright and grant adequate licences to publishers.

3.4.3 Methods and/or software needed to access the data

Regarding the mere access to open data deposited as data files in a data repository, there are no special methods or software tools needed. The files can be downloaded from the data repository using a standard web browser. The offline viewing, interpreting, processing and editing of data files downloaded from the data repository, it heavily depends on the type and format of the data. Partners are encouraged to use open source data formats to facilitate the sharing and long-term access to results.

3.4.4 Data sharing exceptions

1. Copyright and permissions for re-using third-party data sets

Processing and combining input data from many different sources may lead to complex IPR situations regarding the generated output data, therefore such repurposed data (e.g. model output data) can only be made open if any of the underlying data (e.g. model input data) is open, too.

For this: partners involved must contact their own IPR (Intellectual Property Rights) service or the data owner in order to gain access. If necessary, appropriate IPR procedure (such as non- disclosure agreement - NDA) will be used.

2. Personal data treatment and confidentiality issues

Personal data is any information that relates to an identified or identifiable living individual. Different pieces of information, which collected together can lead to the identification of a particular person, also constitute personal data. Personal data that has been de-identified, encrypted or pseudonymised but can be used to re-identify a person remains personal data and falls within the scope of the law.

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Personal data that has been rendered anonymous in such a way that the individual is not or no longer identifiable is no longer considered personal data. For data to be truly anonymised, the anonymisation must be irreversible.

Datasets referring to the quality and quantity of certain elements at risk, such as people and critical infrastructures, are not open by default as their publication may pose privacy, ethical or security risks.

3. Data-driven business model

Data that will be exploited commercially will not be made open.

4. Description of the data

The following detailed information sheet will be produced for every dataset to be produced/collected/curated in the project:

Name of the dataset	A name to identify the data, see 3.1 for details.
Description of the dataset	• A brief, easy to understand description of what the dataset contains and what it will be used for in the project • A list of institutions to whom the data set could be useful outside the project • Whether the dataset has been/will be used for a scientific publication (if yes, brief details about the content and journal) • If the dataset is collected, a brief description of its origin and how it was collected will be provided • Openness of the dataset • Whether the dataset is anonymised or not.
Format/license	The format in which the data will be available (e.g. .xls, .csv, .txt) will be provided. The license to be used will also be provided.
Archiving/preservation	Efforts and means to keep the data available after the end of the project will be described here, including where/how the data will be preserved, the duration of preservation, the associated costs and the plans of the consortium to cover these costs.

Table 2: Dataset Example

5. Data Protection Officer

In accordance with applicable regulations, the coordinator (ASNR) is not required to appoint a Data Protection Officer. A detailed data protection policy for the project is kept on file.

6. Ethical aspects

This Data Management Plan (DMP) was drafted taking into account the General Data Protection Rules (GDPR) for the collection, storage and re-use of the data, in line with the following general principles.

Personal data shall be:

1. processed lawfully, fairly and in a transparent manner in relation to the data subject ('lawfulness, fairness and transparency');
2. collected for specified, explicit and legitimate purposes and not further processed in a manner that is incompatible with those purposes; further processing for archiving purposes in the public interest, scientific or historical research purposes or statistical purposes shall, in accordance with Article 89(1), however not be considered to be incompatible with the initial purposes ('purpose limitation');

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3. adequate, relevant and limited to what is necessary in relation to the purposes for which they are processed ('data minimisation');
4. accurate and, where necessary, kept up to date; every reasonable step must be taken to ensure that personal data that are inaccurate, having regard to the purposes for which they are processed, are erased or rectified without delay ('accuracy');
5. kept in a form which permits identification of data subjects for no longer than is necessary for the purposes for which the personal data are processed; personal data may be stored for longer periods insofar as the personal data will be processed solely for archiving purposes in the public interest, scientific or historical research purposes or statistical purposes, in accordance with Article 89(1) subject to implementation of the appropriate technical and organisational measures required by this Regulation in order to safeguard the rights and freedoms of the data subject ('storage limitation');
6. processed in a manner that ensures appropriate security of the personal data, including protection against unauthorised or unlawful processing and against accidental loss, destruction or damage, using appropriate technical or organisational measures ('integrity and confidentiality').

7. Restrictions for re-use

Data generated through interviews and surveys will not be re-used directly due to privacy concerns. To allow re-use and avoid loss of research data, two different techniques could be used to disseminate its data while abiding by regulations on privacy.

7.1 Anonymization of data

"Anonymization" of data means processing it with the aim of irreversibly preventing the identification of the individual to whom it relates. Data can be considered anonymised when it does not allow identification of the individuals it is related to, and no individuals can be identified from the data by any further processing of that data or by processing it together with other information which is available or likely to be available.

There are different anonymization techniques. Here are the two most relevant:

- Generalisation: generalising data means removing its specificity. For example, in the case of a table containing household income levels, with 4 figures mentioned: €135,000, €60,367, €89,556, and €365,784. One way of generalising this numbers would be to write that the values are "more than €150,000, less than €80,000, between €90,000 and €120,000, and more than €300,000" respectively. Essentially it means taking exact figures, establishing a baseline category, and then obfuscating the data by assigning it to one of the categories in order to remove any sense of specificity from it.
- K-anonymity: a release of data is said to have the k-anonymity property if the information for each person contained in the release cannot be distinguished from the other individuals whose information also appear in the release. For instance, in a table composed of six attributes (Name, Age, Gender, State of Domicile, Religion and Disease), removing the name and the religion column while generalising the age is a way to effectively k-anonymise the data.

Other techniques, such as "masking" or "pseudonymisation", which are aimed solely at removing certain identifiers, may also play a role in reducing the risk of identification. In many cases, these techniques work best when used together.

7.2 Pseudonymisation of data

"Pseudonymisation" of data means replacing any identifying characteristics of data with a pseudonym, or, in other words, a value which does not allow the data subject to be directly identified.

Although pseudonymisation has many uses, it should be distinguished from anonymization, as it only provides a limited protection for the identity of data subjects in many cases as it still allows

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identification using indirect means. Where a pseudonym is used, it is possible to identify the data subject by analysing the underlying or related data.

Task leaders will be responsible for the anonymization of data in FIND for all datasets where this is deemed necessary.

8. Personal data transfer and processing

In case personal data will be transferred from the EU to a non-EU country or international organisation, such transfers will be made in accordance with Chapter V of the General Data Protection Regulation 2016/679, and such transfers will comply with the laws of the country in which the data was collected.

In case of further processing of previously collected personal data, FIND will ensure that the beneficiary has legal grounds for the data processing and that the appropriate technical and organisational measures are in place to safeguard the rights of the data subjects.

9. Bibliography

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10. Annex I – Data sets collected in the project

All detailed information sheets are below:

WP2

Name of the dataset	*FR.IRSN.Shared.LocaCalculations*
Description of the dataset	Calculations performed with CATHARE to define the specifications of the sensors developed by Vuez to track water movements during a loss-of-coolant accident.
Format/license	The data will be available in the following format(s): Native CATHARE format (software developed by CEA with the support of IRSN). The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☐ODbL ☒Other, please specify: The dataset may contain sensitive information: a dedicated agreement will be necessary to access it.
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: IRSN's premises The duration of the preservation will be: At least 10 years after the end of the project Foreseen costs of the preservation: Negligeable Means to cover preservation costs: IRSN's budget If the dataset contains personal data, will it be anonymised? N/A

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WP2

Name of the dataset	*FR.IRSN.Shared.SevereAccidentCalculations*
Description of the dataset	Calculations performed with ASTEC to define the specifications of the sensor developed by IRSN to analyse fission products during an accident.
Format/license	The data will be available in the following format(s): ASTEC binary savings (proprietary format developed by IRSN). The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☐ODbL ☒Other, please specify: The dataset may contain sensitive information: a dedicated agreement will be necessary to access it.
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: IRSN's premises The duration of the preservation will be: At least 10 years after the end of the project Foreseen costs of the preservation: Negligeable Means to cover preservation costs: IRSN's budget If the dataset contains personal data, will it be anonymised? N/A

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WP2

Name of the dataset	*FR.IRSN.Closed.SpecificationsUseCases part 1*
Description of the dataset	This dataset describes the WP2 specifications for the use-cases selected for EU FIND project. The dataset could be useful for end users, TSOs and regulators outside the project. Selected part of the database will be published openly as public data presented in the deliverables D2.1 and D2.2.
Format/license	The data will be available in the following format(s): .xls, .doc, etc. The license used for this dataset: ☐CC0 ☐PDDL ☒ CC-BY-4.0 ☐ODbL ☐Other, please specify:
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: IRSN Sharepoint The duration of the preservation will be: 8 years Foreseen costs of the preservation: No Means to cover preservation costs: N.A. If the dataset contains personal data, will it be anonymised? Yes

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WP2

Name of the dataset	*FR.IRSN.Closed.SpecificationsUseCases part 2*
Description of the dataset	This dataset describes the WP2 specifications for the use-cases selected for EU FIND project. The dataset could be useful for end users, TSOs and regulators outside the project. The majority of the database will be limited to the partners of the project since it may contain classified and confidential information. The dataset will be anonymised.
Format/license	The data will be available in the following format(s): .xls, .doc, etc. The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☐ODbL ☒Other, please specify: Specific multilateral licence compatible with the Consortium Agreement
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: IRSN Sharepoint The duration of the preservation will be: 8 years Foreseen costs of the preservation: No Means to cover preservation costs: N.A. If the dataset contains personal data, will it be anonymised? Yes

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WP3

Name of the dataset	*FR.IRSN.Open.MofSensorCharacterisation*
Description of the dataset	Results of characterisation tests performed on the MOF sensor developed by IRSN (Electron Beam Microscopy, surface characterisation…).
Format/license	The data will be available in the following format(s): Various formats generated by the machine used. Conversion to open formats will be investigated. An embargo may be applied before releasing data to enable patent submission. The license used for this dataset: ☐CC0 ☐PDDL ☒ CC-BY-4.0 ☐ODbL ☐Other, please specify:
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: IRSN's premises + Recherche Data Gouv The duration of the preservation will be: At least 10 years after the end of the project Foreseen costs of the preservation: Negligeable Means to cover preservation costs: IRSN's budget If the dataset contains personal data, will it be anonymised? N/A

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WP3

Name of the dataset	*LT.KTU.Closed.OutputDatabaseFile*
Description of the dataset	ODB files obtained with the finite element modelling packages "Abaqus", "Ansys" will be used for AI training for corrosion detection, damage type and remaining wall thickness prediction (T3.1). CIVA files obtained with the finite element modelling packages "CIVA" will be used for AI training for corrosion detection, damage type and remaining wall thickness prediction (T3.1). BIN files obtained from experimental corrosion measurements uisng commercial phased array flaw detectors and laboratory phased array units. MAT files obtained by secondary processing of the accumulated data. Will be used for phase velocity map reconstruction to work with standard phased array systems (T3.1). MAT files obtained from experimental corrosion measurements uisng commercial phased array flaw detectors and laboratory phased array units.
Format/license	The data will be available in the following format(s): ODB, BIN. The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☒ODbL ☒Other, please specify: MAT files (protected by a closed licence), CIVA (protected by a closed licence)
Archiving/preservation	<u>The data will be made available through the following platform(s) and/or repositories:</u> The accumulated data from numerical simulations will be placed in a subject data repository selected in consultation with the KTU Library responsible staff. Backup copies will be stored in the archives of the KTU Ultrasound Institute. Electronic backups will be stored on separate media from which lost data can be recovered. Also, the data will be stored on Find SharePoint or Zenodo. <u>The duration of the preservation will be:</u> Data from experimental measurements and numerical simulations, especially dedicated for the machine learning models, will be of long-term value and will be stored in a data repository. The data will be kept for the duration of the project and for 5 years after the end of the project. Foreseen costs of the preservation: N/A Means to cover preservation costs: N/A If the dataset contains personal data, will it be anonymised? **No**

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WP3

Name of the dataset	*LT.KTU.Closed.SecondaryProcessingOfTheAccumulatedData*
Description of the dataset	ODB files obtained with the finite element modelling packages "Abaqus", "Ansys" will be used for AI training for corrosion detection, damage type and remaining wall thickness prediction (T3.1). CIVA files obtained with the finite element modelling packages "CIVA" will be used for AI training for corrosion detection, damage type and remaining wall thickness prediction (T3.1). BIN files obtained from experimental corrosion measurements uisng commercial phased array flaw detectors and laboratory phased array units. MAT files obtained by secondary processing of the accumulated data. Will be used for phase velocity map reconstruction to work with standard phased array systems (T3.1). MAT files obtained from experimental corrosion measurements uisng commercial phased array flaw detectors and laboratory phased array units.
Format/license	The data will be available in the following format(s): ODB, BIN. The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☒ODbL ☒Other, please specify: MAT files (protected by a closed licence), CIVA (protected by a closed licence)
Archiving/preservation	<u>The data will be made available through the following platform(s) and/or repositories:</u> The accumulated data from numerical simulations will be placed in a subject data repository selected in consultation with the KTU Library responsible staff. Backup copies will be stored in the archives of the KTU Ultrasound Institute. Electronic backups will be stored on separate media from which lost data can be recovered. Also, the data will be stored on Find website. <u>The duration of the preservation will be:</u> Data from experimental measurements and numerical simulations, especially dedicated for the machine learning models, will be of long-term value and will be stored in a data repository. The data will be kept for the duration of the project and for 5 years after the end of the project. Foreseen costs of the preservation: N/A Means to cover preservation costs: N/A If the dataset contains personal data, will it be anonymised? **No**

Funded by the European Union

WP3

Name of the dataset	*LT.KTU.Closed.ExperimentalCorrosionMeasurements*
Description of the dataset	ODB files obtained with the finite element modelling packages "Abaqus", "Ansys" will be used for AI training for corrosion detection, damage type and remaining wall thickness prediction (T3.1). CIVA files obtained with the finite element modelling packages "CIVA" will be used for AI training for corrosion detection, damage type and remaining wall thickness prediction (T3.1). BIN files obtained from experimental corrosion measurements uisng commercial phased array flaw detectors and laboratory phased array units. MAT files obtained by secondary processing of the accumulated data. Will be used for phase velocity map reconstruction to work with standard phased array systems (T3.1). MAT files obtained from experimental corrosion measurements uisng commercial phased array flaw detectors and laboratory phased array units.
Format/license	The data will be available in the following format(s): ODB, BIN. The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☒ODbL ☒Other, please specify: MAT files (protected by a closed licence), CIVA (protected by a closed licence)
Archiving/preservation	<u>The data will be made available through the following platform(s) and/or repositories:</u> The accumulated data from numerical simulations will be placed in a subject data repository selected in consultation with the KTU Library responsible staff. Backup copies will be stored in the archives of the KTU Ultrasound Institute. Electronic backups will be stored on separate media from which lost data can be recovered. Also, the data will be stored on Find website. <u>The duration of the preservation will be:</u> Data from experimental measurements and numerical simulations, especially dedicated for the machine learning models, will be of long-term value and will be stored in a data repository. The data will be kept for the duration of the project and for 5 years after the end of the project. Foreseen costs of the preservation: N/A Means to cover preservation costs: N/A If the dataset contains personal data, will it be anonymised? **No**

Funded by the European Union

WP3

Name of the dataset	*SK.VUEZ.Shared.MeasurementSystemsSpecifications*
Description of the dataset	Specifications of the sensors, software modules, virtual reality, and equipment construction for data acquisition to identify leakages, measurement, and localisations. Some data in the dataset will be used in scientific publications. Dataset will be created during WP3 of the FIND project and will not be anonymized. The whole dataset will not be open. For EUG.
Format/license	The data will be available in the following format(s): .pdf .zip .apk .cs .cpp The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☒ODbL ☐Other, please specify:
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: on the servers of our organisation The duration of the preservation will be: 16 Years after the end of the project. Foreseen costs of the preservation: 14 000 € Means to cover preservation costs: VUEZ profit (2024-2044) If the dataset contains personal data, will it be anonymised? No

Funded by the European Union

WP3

Name of the dataset	*UA.SSTCNRS.Closed.MeasurementMethodSpecifications*
Description of the dataset	The dataset includes specifications of sensors, software modules, equipment construction, mathematical models and algorithms that constitute the parametric correlation method for determining the coordinates of pipe leaks and damages. The whole dataset will not be open. Dataset will not be anonymized.
Format/license	The data will be available in the following format(s): .pdf The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☐ODbL ☒Other, please specify: Data is protected by patent № 144444; G01M 3/24, G01M 3/18, F17D 5/02, and patent № 149956; G01M 3/24, G01M 3/18, F17D 5/02
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: SSTC NRS's premises (the data is not open) The duration of the preservation will be: At least 10 years after the end of the project Foreseen costs of the preservation: using existing equipment Means to cover preservation costs: 0 € If the dataset contains personal data, will it be anonymised? N/A

Funded by the European Union

WP3

Name of the dataset	*UA.IPP.Shared.DigitalTwinBuriedPipeline*
Description of the dataset	Dataset contains specifications of the sensors, principal schemes and software modules of Digital Twin to monitor raw service water pipe behaviour
Format/license	The data will be available in the following format(s): .pdf .zip .mcdx CAD formats The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☐ODbL ☐Other, please specify: The dataset is considered as "shared" for partners within FIND consortium. A specific agreement with IPP may be necessary to access data for third parties from outside.
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: IPP's servers The duration of the preservation will be: 4 Years + 16 Years Foreseen costs of the preservation: Negligeable Means to cover preservation costs: IPP's budget If the dataset contains personal data, will it be anonymised? No

Funded by the European Union

WP3

Name of the dataset	*UA.IPP.Shared.DigitalTwinHighEnergyPipe*
Description of the dataset	Dataset contains specifications of the sensors, principal schemes and software modules of Digital Twin for high-energy pipes subject to fatigue cracking caused by thermal and mechanical stresses
Format/license	The data will be available in the following format(s): .pdf .zip .mcdx CAD formats The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☐ODbL ☒Other, please specify: The dataset is considered as "shared" for partners within FIND consortium. A specific agreement with IPP may be necessary to access data for third parties from outside.
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: IPP's servers The duration of the preservation will be: 4 Years + 16 Years Foreseen costs of the preservation: Negligeable Means to cover preservation costs: IPP's budget If the dataset contains personal data, will it be anonymised? No

Funded by the European Union

WP4

Name of the dataset	*UA.IPP.Opened.ThermalHydraulicLoopSpecification*
Description of the dataset	Dataset contains description of thermal stratification loop: • Drawings; • Principal schemes; • Results of calibration; • Limitation of using; • Manuals; • Operation parameters etc.
Format/license	The data will be available in the following format(s): .pdf .zip .mcdx CAD formats The license used for this dataset: ☐CC0 ☐PDDL ☒ CC-BY-4.0 ☐ODbL ☐Other, please specify:
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: IPP's servers, SharePoint of the Project The duration of the preservation will be: 4 Years + 16 Years Foreseen costs of the preservation: Negligeable Means to cover preservation costs: IPP's budget If the dataset contains personal data, will it be anonymised? No

Funded by the European Union

WP4

Name of the dataset	*UA.IPP.Shared.IPPSensorsRobustnessControlledCondtions*
Description of the dataset	Dataset contains sensors robustness testing in controlled conditions by using IPP mechanical testing laboratory capabilities
Format/license	The data will be available in the following format(s): Open tabular format. The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☐ODbL ☐Other, please specify: The dataset is considered as "shared" for partners within FIND consortium. A specific agreement with IPP will be necessary to access data for third parties from outside.
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: IPP's servers The duration of the preservation will be: At least 10 years after the end of the project Foreseen costs of the preservation: Negligeable Means to cover preservation costs: IPP's budget If the dataset contains personal data, will it be anonymised? No

Funded by the European Union

WP4

Name of the dataset	*UA.IPP.Shared.SensorsRobustnessThermalHydraulicLoop*
Description of the dataset	Dataset contains sensors robustness testing by using thermal stratification loop. The data will include both results of Digital Twin testing developed by IPP and FAMOS by FRAMATOME.
Format/license	The data will be available in the following format(s): Open tabular format .pdf .zip The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☐ODbL ☒Other, please specify: The dataset is considered as "shared" between IPP, FRAMATOME, Vuez (WP4 leader) and ARSN (FIND coordinator). A specific agreement with IPP and the system owner will be necessary to access data in other cases.
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: IPP's servers The duration of the preservation will be: At least 10 years after the end of the project Foreseen costs of the preservation: Negligeable Means to cover preservation costs: IPP's budget If the dataset contains personal data, will it be anonymised? No

Funded by the European Union

WP4

Name of the dataset	*UA.IPP.Shared.DigitalTwinBuriedPipelineIndustrialTesting*
Description of the dataset	Dataset contains Digital Twin for raw service water pipe testing in industrial conditions
Format/license	The data will be available in the following format(s): Open tabular format .pdf The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☐ODbL ☒Other, please specify: The dataset is considered as "shared" between IPP, Vuez (WP4 leader) and ARSN (FIND coordinator). The dataset may contain sensitive information: a dedicated agreement with IPP will be necessary to access it in other cases.
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: IPP's servers The duration of the preservation will be: At least 10 years after the end of the project Foreseen costs of the preservation: Negligeable Means to cover preservation costs: IPP's budget If the dataset contains personal data, will it be anonymised? Yes

Funded by the European Union

WP4

Name of the dataset	*UA.IPP.Shared.DigitalTwinHighEnergyPipeIndustrialTesting*
Description of the dataset	Dataset contains Digital Twin for high-energy pipes installed in industrial conditions performance data
Format/license	The data will be available in the following format(s): Open tabular format .pdf The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☐ODbL ☒Other, please specify: The dataset is considered as "shared" between IPP, Tractebel, Vuez (WP4 leader) and ARSN (FIND coordinator). The dataset may contain sensitive information: a dedicated agreement with IPP will be necessary to access it in other cases.
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: IPP's servers The duration of the preservation will be: At least 10 years after the end of the project Foreseen costs of the preservation: Negligeable Means to cover preservation costs: IPP's budget If the dataset contains personal data, will it be anonymised? Yes

Funded by the European Union

WP4

Name of the dataset	*UA.SSTCNRS.Closed.VerificationMeasurementsDataset*
Description of the dataset	The dataset includes results of verification measurements conducted using the parametric correlation method. As the method is intended to be verified at an NPP site on systems important to safety, the dataset will remain confidential. The whole dataset will not be open. Dataset will be anonymized.
Format/license	The data will be available in the following format(s): .pdf, .xls,.txt The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☐ODbL ☒Other, please specify: The monitoring results of the NPPs structures, systems and components are confidential, only synthetic information can be shared provided that it contains no sensitive information.
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: SSTC NRS's premises (the data is not open) The duration of the preservation will be: At least 10 years after the end of the project Foreseen costs of the preservation: using existing equipment Means to cover preservation costs: 0 € If the dataset contains personal data, will it be anonymised? N/A

Funded by the European Union

WP4

Name of the dataset	*FR.IRSN.Open.MofSensorPerformance*
Description of the dataset	Results of performance tests carried out with the sensor.
Format/license	The data will be available in the following format(s): Open tabular format. An embargo may be applied before releasing data to enable patent submission. The license used for this dataset: ☐CC0 ☐PDDL ☒ CC-BY-4.0 ☐ODbL ☐Other, please specify:
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: IRSN's premises + Recherche Data Gouv The duration of the preservation will be: At least 10 years after the end of the project Foreseen costs of the preservation: Negligeable Means to cover preservation costs: IRSN's budget If the dataset contains personal data, will it be anonymised? N/A

Funded by the European Union

WP4

Name of the dataset	*LT.KTU.Closed.ExperimentalMeasurementsOfTestObjects*
Description of the dataset	ULD, DAT, BIN files obtained by experimental measurements of test objects using ultrasonic measurement systems. Will be used for real-time experimental measurements of the VICTORIA loop state, laboratory tests (T4.1). Testing in industrial conditions at EDF (T4.3).
Format/license	The data will be available in the following format(s): ULD, DAT, BIN The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☒ODbL ☐Other, please specify:
Archiving/preservation	<u>The data will be made available through the following platform(s) and/or repositories:</u> The accumulated data from experimental measurements and numerical simulations will be placed in a subject data repository selected in consultation with the KTU Library responsible staff. Backup copies will be stored in the archives of the KTU Ultrasound Institute. Electronic backups will be stored on separate media from which lost data can be recovered. Also, the data will be stored on Find website. <u>The duration of the preservation will be:</u> Data from experimental measurements and numerical simulations, especially dedicated for the machine learning models, will be of long-term value and will be stored in a data repository. The data will be kept for the duration of the project and for 5 years after the end of the project. Foreseen costs of the preservation: N/A Means to cover preservation costs: N/A If the dataset contains personal data, will it be anonymised? **No**

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WP4

Name of the dataset	*LT.KTU.Closed.SecondaryProcessingOfTheAccumulatedData*
Description of the dataset	MAT files obtained by secondary processing of the accumulated data (T4.1, T4.3).
Format/license	The data will be available in the following format(s): MAT The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☐ODbL ☒Other, please specify: MAT (protected by a closed licence)
Archiving/preservation	<u>The data will be made available through the following platform(s) and/or repositories:</u> The accumulated data from experimental measurements and numerical simulations will be placed in a subject data repository selected in consultation with the KTU Library responsible staff. Backup copies will be stored in the archives of the KTU Ultrasound Institute. Electronic backups will be stored on separate media from which lost data can be recovered. Also, the data will be stored on Find website. <u>The duration of the preservation will be:</u> Data from experimental measurements and numerical simulations, especially dedicated for the machine learning models, will be of long-term value and will be stored in a data repository. The data will be kept for the duration of the project and for 5 years after the end of the project. Foreseen costs of the preservation: N/A Means to cover preservation costs: N/A If the dataset contains personal data, will it be anonymised? **No**

Funded by the European Union

WP4

Name of the dataset	*SK.VUEZ.Shared.ExperimentalMeasurementsDatasetHMI*
Description of the dataset	Measured data in the archive of HMI systems as a daily file. It will be Open science after agree of all partners involved in the experiments. Some data will be used in scientific publications after all contributing partners agree on FIND experimental datasets. Dataset will be created during WP4 of the FIND project, can be opened after all partners agree and will be anonymized.
Format/license	The data will be available in the following format(s): .lgh .idx The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☒ODbL ☐Other, please specify:
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: on the servers of our organisation, https://zenodo.org/ The duration of the preservation will be: 4 years (our) + 6 years (zenodo) Foreseen costs of the preservation: using existing equipment Means to cover preservation costs: 0 € If the dataset contains personal data, will it be anonymised? Yes

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WP4

Name of the dataset	*SK.VUEZ.Shared.ExperimentalMeasurementsDatasetViktoria*
Description of the dataset	Measured data in the .csv, txt, and SQL database archive format, including timestamps. It will be Open science after agree of all partners involved in the experiments. Some data will be used in scientific publications after all contributing partners agree on FIND experimental datasets. Dataset will be created during WP4 of the FIND project, can be opened after all partners agree and will be anonymized.
Format/license	The data will be available in the following format(s): .bck .csv .txt The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☒ODbL ☐Other, please specify:
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: on the servers of our organisation, https://zenodo.org/ The duration of the preservation will be: 4 years (our) + 6 years (zenodo) Foreseen costs of the preservation: using existing equipment Means to cover preservation costs: 0 € If the dataset contains personal data, will it be anonymised? Yes

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WP4

Name of the dataset	*FR.VUEZ.Shared.ExperimentalMeasurementsDatasetIRMA*
Description of the dataset	Measured data in the .csv and .txt, e archive format, including timestamps. Data are collected by sensors during the exposure of sensors to ionizing radiation. Dataset could be valuable for manufacturers of the tested sensors and for all users planning to deploy these sensors in radioactive environments. It will be Open science after agree of all partners involved in the experiments. Some data will be used in scientific publications after all contributing partners agree on FIND experimental datasets. Dataset will be created during WP4 of the FIND project. It can be opened after all partners agree and will be anonymized.
Format/license	The data will be available in the following format(s): .csv .txt The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☒ODbL ☐Other, please specify:
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: on the servers of our organisation, https://zenodo.org/ The duration of the preservation will be: 4 years (our) + 6 years (zenodo) Foreseen costs of the preservation: using existing equipment Means to cover preservation costs: 0 € If the dataset contains personal data, will it be anonymised? Yes

Funded by the European Union

WP4

Name of the dataset	*SK.VUEZ.Shared.ExperimentalMeasurementsDatasetLeakages*
Description of the dataset	Measured data in the .csv, .txt and .mp4, including timestamps. This dataset will contain data from sensors/cameras needed for leakage localisation. It will be Open science after agree of all partners involved in the experiments. Some data will be used in scientific publications after all contributing partners agree on FIND experimental datasets. Dataset will be created during WP4 of the FIND project. It can be opened after all partners agree and will be anonymized.
Format/license	The data will be available in the following format(s): .csv .txt .mp4 The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☒ODbL ☐Other, please specify:
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: on the servers of our organisation, https://zenodo.org/ The duration of the preservation will be: 4 years (our) + 6 years (zenodo) Foreseen costs of the preservation: using existing equipment Means to cover preservation costs: 0 € If the dataset contains personal data, will it be anonymised? Yes

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WP4

Name of the dataset	*SK.VUEZ.Shared.ViktoriaLoopAdaptation*
Description of the dataset	Specifications of the sensors, software modules, virtual reality, and equipment construction used for data acquisition to identify leakages, measurement, and localisations used for Viktoria loop adaptation. Some data in the dataset will be used in scientific publications. Dataset will be created during WP4 of the FIND project. The whole dataset will not be open nor anonymized. For EUG.
Format/license	The data will be available in the following format(s): .pdf .zip .apk .cs .cpp The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☒ODbL ☐Other, please specify:
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: on the servers of our organisation The duration of the preservation will be: 4 years + 16 years Foreseen costs of the preservation: using existing equipment Means to cover preservation costs: 0 € If the dataset contains personal data, will it be anonymised? No

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WP4

Name of the dataset	*FR.CEA.Shared.noise_measurement_Vuez*
Description of the dataset	Elastic noise measurement on Vuez loop using piezoelectric and/or FBG sensors. Will probably be used for scientific publication, journal not yet identified
Format/license	The data will be available in the following format(s): HDF5 The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☐ODbL ☒Other, please specify: shared on demand case by case under specific NDA agreements with corresponding institution
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: CEA server Resinosa The duration of the preservation will be: 10 years Foreseen costs of the preservation: 1 k€ Means to cover preservation costs: lab resources If the dataset contains personal data, will it be anonymised?

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WP4

Name of the dataset	*FR.CEA.Shared.acoustic_emission_SCC_FBG*
Description of the dataset	Acoustic emission of SCC measured by FBG sensors. Will probably be used for scientific publication, journal not yet identified
Format/license	The data will be available in the following format(s): HDF5 The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☐ODbL ☒Other, please specify: shared on demand case by case under specific NDA agreements with corresponding institution
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: CEA server Resinosa The duration of the preservation will be: 10 years Foreseen costs of the preservation: 1 k€ Means to cover preservation costs: lab resources If the dataset contains personal data, will it be anonymised?

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WP4

Name of the dataset	*FR.CEA.Closed.noise_measurement_Tihange*
Description of the dataset	Elastic noise measurement on Tihange NPP using FBG sensors
Format/license	The data will be available in the following format(s): HDF5 The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☐ODbL ☒Other, please specify: shared on demand case by case under specific NDA agreements with corresponding institution
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: CEA server Resinosa The duration of the preservation will be: 10 years Foreseen costs of the preservation: 1 k€ Means to cover preservation costs: lab resources If the dataset contains personal data, will it be anonymised?

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WP4

Name of the dataset	*FR.CEA.Shared.FBG_irradiation_IRMA*
Description of the dataset	FBG spectrum under irradiation. Will probably be used for scientific publication, journal not yet identified
Format/license	The data will be available in the following format(s): ENLIGHT for Micron-optics Bragg readers The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☐ODbL ☒Other, please specify: shared on demand case by case under specific NDA agreements with corresponding institution
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: CEA server Resinosa The duration of the preservation will be: 10 years Foreseen costs of the preservation: 1 k€ Means to cover preservation costs: lab resources If the dataset contains personal data, will it be anonymised?

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WP5

Name of the dataset	*FR.IRSN.Shared.IrmaSensorsRobustness*
Description of the dataset	Results of the robustness tests carried out on sensors with IRMA
Format/license	The data will be available in the following format(s): Open tabular format. An embargo may be applied before releasing data to enable patent submission. The license used for this dataset: ☐CC0 ☐PDDL ☐ CC-BY-4.0 ☐ODbL ☒Other, please specify: A specific agreement with IRSN and the sensor's owner will be necessary to access data.
Archiving/preservation	The data will be made available through the following platform(s) and/or repositories: IRSN's premises The duration of the preservation will be: At least 10 years after the end of the project Foreseen costs of the preservation: Negligeable Means to cover preservation costs: IRSN's budget If the dataset contains personal data, will it be anonymised? N/A

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