IFIGENEIA

Innovative Facility for Isotope GENeration
with Efficient Ion Accelerator

D1.3 – Data Management Plan

version 1.0

Funded by
the European Union

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Table of Contents

History of Changes

Revision	Date	Revised by	Section	Description
0.1	22/07/2025	TALOS	ALL	Creation of the document
0.2	01/08/2025	TALOS	ALL	Minor corrections and highlighting CERNBOX and Zenodo for confirmation by CERN
1.0	27/08/2025	TALOS	ALL	Final version and application of new deliverables template

1 Introduction

This deliverable is a report that presents the Data Management Plan (DMP) of the IFIGENEIA project. Deliverable D1.3 is the result of Task T1.5 – Data Management. The DMP of the IFIGENEIA project is a living document which will be updated regularly during the execution of the project whenever significant changes arise, such as (but not limited to) new data, changes in consortium policies (e.g. new innovation potential, decision to file for a patent) or changes in consortium composition (e.g. new consortium members joining or old members leaving) and will be reported to the Funding Agency at least halfway through the project and at the end of the project.

While TALOS, as Task leader, will oversee the implementation of policy, the application of this document is the responsibility of all project partners.

1.1 Purpose

The purpose of this document is to establish the main elements of the data management policy for the IFIGENEIA project, to be used by all project partners with regard to the datasets that will be generated during project implementation.

1.2 Scope

Data Management Plans are key elements of good data management. DMPs describe the data management life cycle for the data to be collected, processed and/or generated by a Horizon Europe project. They also support the European Commission's goal to advance Open Science policy and practices. Finally, to ensure the availability and utility of project research data, DMPs outline the measures that will be taken to maximise access and re-use of the data for further purposes and applications.

The DMP of the IFIGENEIA project will cover the types of data and research outputs, the compliance with the FAIR data principles (Findable, Accessible, Interoperable, Reuseable), and the way in which data will be stored and preserved.

1.3 Confidentiality

This document is classified as a confidential document (dissemination level = SEN – Sensitive). As such, it or parts thereof must not be made accessible to anyone not listed in the Intended Audience section, neither in electronic nor in any other form.

1.4 Intended Audience

The intended audience of this document is the IFIGENEIA project and Work Packages personnel as well as authorized personnel on behalf of the Funding Agency.

1.5 Abbreviations

Abbreviation	Description
CC	Creative Commons
DMP	Data Management Plan
DOI	Digital Object Identifier
FAIR	Findable, Accessible, Interoperable, Reusable
GDPR	General Data Protection Regulation
IPR	Intellectual Property Rights
JSON	JavaScript Object Notation
PU	Public
SEN	Sensitive
WP	Work Package

2 Data Summary

As for the purpose of data collection and generation, only data that is needed to perform project activities will be collected, and as far as possible, participants will not be asked to provide personal data unless this is necessary.

In the framework of IFIGENEIA project, the types of data that will be generated include:

1. Data generated from open accessible information such as reports, scientific articles or databases
2. Data generated by project partners and external evaluator activities, such as deliverables, technical documents, meeting minutes and other work carried out to achieve the objectives of the IFIGENEIA project.

Additionally, the IFIGENEIA project will collect, generate and reuse various types of data, such as:

1. Laboratory measurements
2. Simulation data
3. Beam measurements
4. Drawings, mechanical designs
5. Market research data
6. Costs data
7. Project feasibility data
8. Econometric data
9. Population data
10. Investors data
11. Scientific surveys
12. Newsletter subscribers
13. Educational materials
14. Satisfaction surveys
15. Gender questionnaires

These data can be in the form of raw and processed data.

IFIGENEIA will primarily use widely accepted formats for data generation, such as:

1. Documents / reports / publications: pdf, txt, docx, txt, pptx
2. Spreadsheets: xlsx, csv, ods, spx
3. Measurement and simulation data: ASCII, pdf
4. Databases: xlsx, mca, mpa
5. Drawings: dwg
6. Audio files: mp3, wav, wma,
7. Pictures: jpg, png
8. Video: avi, mp4, wmv

Raw data storage might require other data formats to ensure complete information preservation. In this case, IFIGENEIA partners are committed to store the data both in a raw format and a widely accepted format.

The estimated size of the data is: 10-50 TB

Shared research data (i.e. outside the IFIGENEIA consortium) will not include trade secrets, commercial information, materials necessary to be held confidential by researchers until they are published, or security sensitive information.

Sharing of working documents and outcomes of the IFIGENEIA project with external stakeholders depends on security and commercial sensitivity of the information they contain.

3 FAIR data

The FAIR data management (Findable, Accessible, Interoperable and Reusable data) principles will be ensured by IFIGENEIA project. While some closed data will be protected and thus not publicly available, the project will maximize access to and re-use of research data generated by the project.

Principle	Explanation
Findability	Datasets should be described, identified and registered or indexed in a clear and unequivocal manner
Accessibility	Datasets should be accessible through a clearly defined access procedure, ideally using automated means. Metadata should always remain accessible
Interoperability	Data and metadata are conceptualised, expressed and structured using common, published standards
Reusability	Characteristics of data and their provenance are described in detail according to domain relevant standards, with clear and accessible conditions for use

3.1 Making data findable including provisions for metadata

The IFIGENEIA consortium as a whole will communicate and implement together good practices to provide the most successful outcomes in terms of data management. While TALOS will oversee the implementation of the policy, each WP leader is responsible for the data generated within their respective WP and each partner is responsible to apply the DMP and policy.

Quality control measures will be taken to maintain the accuracy of data during the project. Discipline compliant metadata elements will be used to describe the data, aid data discovery and re-use. Metadata of opened data will be made available via FAIR compliant repository for research and re-use after project closure. Persistent identifiers provided by the repository will be used in linking to datasets.

Furthermore, metadata features, in addition to the project acronym and Grant Agreement number, will be associated with all published data, including abstract / description, access and licensing information, associated project and community, associated publications and reports, bibliographic information, Digital Object Identifiers (DOI), keywords, version numbers, etc.

All fully open research data will be found through the IFIGENEIA community at CERN's Zenodo repository as well as on the IFIGENEIA project website.

3.2 Making data accessible

As outlined in the Horizon Europe Open Access guidelines, research data generated by Horizon Europe projects will be made accessible with minimum restrictions related to protected personal data or sensitive information that is governed by privacy concerns and/or commercial or security reasons.

Decisions concerning the sharing of (selected) datasets will be taken by the IFIGENEIA project partners. However, the basic principle governing this Data Management Plan is that IFIGENEIA project partners are committed to take all appropriate measures to make relevant data openly available and useable for third parties for study, teaching and research purposes.

If, after project closure, permission to re-use the data is required, all requests for further use of data will be considered carefully and whenever possible secure approval from the concerned partner(s). Permission for data use will be granted providing there are no IPR or confidentiality issues involved or any direct overlap of research questions with the primary research.

Main focus in data sharing will be on the data underlying prospective scientific publications ensuring the validation of results presented in publications.

Published and FAIR-compatible data will be archived in a common and open data repository. Recommended generic and certified repository services, CERN's Zenodo in particular, will be used to enhance long-term accessibility and re-usability of data.

IFIGENEIA project will make data accessible in various ways: public dissemination, internal data management solution and sharing of datasets on the Zenodo repository. In addition to the project website, IFIGENEIA will use the Data Management Plan as one of the main tools to internally collect, process, share and make available open research data, allowing in this way transparency of project results and traceability of processes.

Data accessibility platforms and tools:

1. IFIGENEIA project website: all publications (public deliverables, scientific articles, articles in peer-reviewed journals, newsletters, etc.) will be available to third parties during the whole project duration
2. EC CORDIS Portal: In addition to the public deliverables, publishable summary of project reports and other public contractual documents will be available through the CORDIS portal
3. IFIGENEIA's internal data management platform: CERNBOX, managed and hosted by CERN. A data repository has been established by CERN (via CERNBOX) to store data related to the IFIGENEIA project implementation. The platform is accessible for all partners through web client to interact with the data or to create new entries, upload new data, etc. The repository will be kept confidential during the project. Parts or the full database will be released to a research data repository (e.g. Zenodo) at the end of the project.
4. Zenodo: in order to comply with the Horizon Europe Open Access requirements and to increase the project's impact, all research open data will be put into a public repository, like Zenodo. The main items to be provided in the Zenodo Horizon Europe IFIGENEIA community: public deliverables, all scientific publications in peer-reviewed journals, newsletters and any open data. These materials will also be uploaded to the European Commission Funded Research (OpenAIRE) Community in Zenodo.

As the open research datasets will be included in the Zenodo repository, no methods or software tools are needed to access them and there are no restrictions on use.

3.3 Making data interoperable

Data and metadata generated by IFIGENEIA project partners will conform to recognised formats and standards to allow them to be combined and exchanged.

Variables and value names will be constructed following general data processing conventions common to the research subject. List of value names and used vocabulary will be provided in a separate list and a specialised ontology will be developed for this purpose. Examples of vocabulary information to be managed within the project will be e.g. number of variables / units of observation, list of variables with the name and label of each variable as well as its values and value labels, frequency distribution of each variable, information on the classifications used and meanings of abbreviations used. The standards and ontologies provided by related activities and respective networks will be utilized, as much as seen possible.

While knowing that not all the research datasets that is being collected and that will be generated during the project's duration are public, some sensitive datasets will be kept confidential and therefore will not be available for access or inter-operability. Moreover, specific files such as simulations/ drawings cannot be used by other partners that do not have the software license.

Nevertheless, some of the data that will be publicly available and put in open access repositories like Zenodo can be interoperable. JSON (JavaScript Object Notation) scheme is used by Zenodo for metadata offering export of data and datasets in popular formats. This JSON Schema facilitates technical and syntactical interoperability when working with the metadata that users supply to Zenodo during dataset upload. The Zenodo JSON Schema has fields to express the metadata of the dataset (e.g. DOI, license, contributors and language). The primary available location for metadata about the actual data (e.g. scientific method and parameter ranges) is the Description text field.

IFIGENEIA project partners are responsible for storing all data in the appropriate format that will make data interoperable to all professionals and end-users who might be interested in exploiting the data generated during the IFIGENEIA project.

3.4 Increase data re-use

Since significant amount of documentation is needed to support data interpretation and re-use, data and datasets generated in the IFIGENEIA project will conform to community norms and be clearly licensed so that others know what kinds of re-use are permitted. IFIGENEIA project partners will make sure that data is accurate and well described, and the data generated will have a clear and accessible data usage license.

Ownership of datasets will belong to the project consortium (more specifically to the partner(s) that generated the specific dataset) after the project completion. Creative Commons license CC-BY-SA or CC-BY will be used for any opened dataset, unless there are compelling reasons to select more restricted type of CC-license. Creative Commons licenses will by default include also a disclaimer of liability for the re-use of opened data.

No definite period or time limit is planned for access or re-use of the data. However, the opened data will be deposited in a repository that guarantees data integrity on the bit level. At this point no continuous data curation policy to guarantee full long-term digital preservation of datasets is planned.

Justification for possible case-specific embargo for published data will be decided by IFIGENEIA project partners. Embargo will be sought primarily in connection with any potential patent application based on project results.

For all public open data, it will remain reusable via Zenodo for at least 20 years. As stated by the Zenodo Repository "Items will be retained for the lifetime of the repository. This is currently the lifetime of the host laboratory CERN, which currently has an experimental programme defined for the next 20 years at least." In case the repository must stop operations, continuity plans are also envisaged such as: "best efforts will be made to integrate all content into suitable alternative institutional and/or subject based repositories."[1]

4 Other research outputs

In addition to the management of data, IFIGENEIA project partners will also consider and plan for the management of other research outputs that may be generated or re-used throughout the project. Such outputs can be either digital (e.g. protocols, models, etc.) or physical (e.g. samples).

IFIGENEIA project partners will consider which of the questions pertaining to FAIR data above can apply to the management of other research outputs, and should strive to provide sufficient detail on how their research outputs will be managed and shared, or made available for re-use, in line with the FAIR principles.

5 Allocation of resources

Costs related to data management and data storage are eligible as part of the project budget. While TALOS will oversee the implementation of the policy, the application of this document is the responsibility of all IFIGENEIA project partners. More specifically, WP leaders are responsible for:

1. Implementing the Data Management Plan in their respective WP
2. Monitoring data management activities and deadlines
3. Offering customised help and further guidance for using the DMP
4. Asking partners for missing information or clarifications
5. Providing input to the DMP deliverable documents as well as interim and final technical reports by analysing and summarising the WP-specific datasets listed in the project DMP
6. Monitoring that open results are deposited in Zenodo repository
7. Contacting the Coordinator in case of questions and ethical and / or privacy issues that may forbid publication of data

[1] https://about.zenodo.org/infrastructure/ [Accessed: 25/07/2025]

8. Ensuring that the metadata of data used and produced at WP level is made available in IFIGENEIA's DMP according to the data management policy and guidelines in a timely manner.

During the project consortium partners will be responsible for managing and curating datasets at their possession. At the project ending, the project coordinator will mandate a project data manager to take care of long-term preservation and sharing of datasets. Free of charge research data repository tools are used by IFIGENEIA project partners. The costs of data management are allocated in the project budget under T1.5 or in the relevant WPs. Additionally, partners have foreseen budget also for Open Access fees.

6 Data security

The project's data sharing and storing infrastructure – IFIGENEIA CERNBOX – is protected from unauthorised access and ensures the security and protection of all sensitive data during the whole project period and beyond as it is managed by CERN. Access is only granted upon request to people employed by partner organisations. Each partner organisation is responsible for informing the project coordinator whenever people leave their organization, so that their CERNBOX access can be removed. IFIGENEIA CERNBOX also provides data recovery functionalities to avoid accidental loss of data.

IFIGENEIA Zenodo open access repository will provide secure short-term and long-term storage of the research data since it stores data safely in CERN's cloud infrastructure. "All files uploaded to Zenodo are stored in CERN's EOS service in an 18 petabytes disk cluster. Each file copy has two replicas located on different disk servers. Metadata and persistent identifiers in Zenodo are stored in a PostgreSQL instance operated on CERN's Database on Demand infrastructure with 12-hourly backup cycle with one backup sent to tape storage once a week"[2]. Additional data security measures applied by Zenodo are:

1. "CERN Data Centre: Our data centre is located on CERN premises and all physical access is restricted to a limited number of staff with appropriate training and who have been granted access in line with their professional duties (e.g. Zendo staff do not have physical access to the CERN Data Centre) .
2. Servers: Our servers are managed according to the CERN Security Baseline for Servers, meaning e.g. remote access to our servers are restricted to Zenodo staff with appropriate training, and the operating system and installed applications are kept updated with latest security patches via our automatic configuration management system Puppet.
3. Network: CERN Security Team runs both host and network based intrusion detection systems and monitors the traffic flow, pattern and contents into and out of CERN networks in order to detect attacks. All access to zenodo.org happens over HTTPS, except for static documentation pages which are hosted on GitHub Pages.
4. Data: Zenodo stores user passwords using strong cryptographic password hashing algorithms (currently PBKDF2+SHA512). Users' access tokens to GitHub and ORCID are stored encrypted and can only be decrypted with the application's secret key.

[2] https://about.zenodo.org/infrastructure/ [Accessed: 25/07/2025]

7 Ethics

Privacy of data subjects will be secured by following closely the General Data Protection Regulation (Regulation (EU) 2016/679 of the European Parliament and of the Council)[3]. The project consortium has appropriate technical and organisational measures in place to carry out data protection during the project.

Processes that handle personal data have been designed and built with the GDPR principles taken into account. Processes provide safeguards to protect research data (e.g. using pseudonymization or full anonymization where appropriate), and use the highest-possible privacy settings by default. No person or organisation involved will unintentionally be identifiable directly or indirectly in the datasets. Any indirect reference to sensitive personal information or e.g. lines of businesses, branches or industries will be removed and destroyed after the anonymised dataset has been checked and validated.

After curation no person-related data is available publicly without explicit, informed consent, of the data subject and – if no anonymization is required – publicly available data cannot in any circumstances be used to identify a subject without additional information stored securely in a separate place. Principal investigator and processors of research data will always retain an unambiguous and individualized affirmation of consent from the data subject and the subject will always have the right to revoke her/his consent at any time.

During and after closure of the project the project coordinator will clearly disclose any datasets, which have been collected during the project and declare the lawful basis and purpose for their processing. In addition, project coordinator will state how long the data will be retained and also unambiguously declare, if it is being shared with any third parties or outside of the EEA. Data subjects of the project will have the right to request a portable copy of the data collected in a common format, and the right to have their data erased under specified circumstances.

8 Annex I – Preliminary IFIGENEIA data summary

[3] Regulation - 2016/679 - EN - gdpr - EUR-Lex

Data / dataset	Partner	Associated Work Package(s)	Origin of data	How is the data generated?	Data type	Data format	Dissemination level (PU/SEN)	Size	Utility
Scientific publications	CERN	WP3	Technical documents and presentations (including specifications) produced for scientific results concerning the LINAC/RFQ design aspects	With word-processing software (e.g. latex, word, power-point)	Reports, slides, diagrams	ASCII, pdf	PU	A few GBs	Academia, laboratories, industry
Laboratory measurements	CERN	WP3	Measurement data produced in laboratory with	With standard instrumentation tools (e.g.	Computer scripts, Tables, images, diagrams	ASCII, pdf	PU	A few TBs	Academia, laboratories, industry

			respect to hardware design (e.g. RFQ)	oscilloscopes, etc.)					
Simulation data	CERN	WP3	Simulation data produced with numerical tools with respect to beam dynamics and HW design (e.g. target)	With numerical simulation software (e.g. Xsuite).	Computer scripts, tables, images, diagrams	ASCII, pdf	PU	A few TBs	Academia, laboratories, industry
Beam measurements	CERN	WP3	Beam measurement data in existing facilities/test stands regarding source/linac beam characteristics.	With standard beam instrumentation tools (e.g. current transformers, beam profile monitors, etc.) and	Computer scripts, Tables, images, diagrams	ASCII, pdf	PU	A few TBs	Academia, laboratories, industry

				transmitted through control system to databases for analysis					
Data describes the determination of the chemical composition of archaeological materials through qualitative and quantitative analysis.	Physico-chemical Research & Archaeometry Lab – AMTH	WP2 WP3	Physico-chemical Research & Archaeometry Lab – AMTH	Micro-EDXRF (micro-Energy Dispersive X-Ray Fluorescence) spectrometry will be applied for the non-invasive analysis of archaeological samples. Instrument: Artax 400 Bruker (external beam	Report, Tables, diagrams, images	files: xlsx, spx, jpg, docx	PU (possible publication in a scientific journal)	100 – 200 Mb	Academia working – Education (Universities, Institutes etc.) Archaeological Services, Museums, Galleries, Private Cultural Heritage Organizations

				micro-EDXRF spectrometer) Spectra will be collected through Spectra 7.4 Bruker AXS, (software of Artax 400)					
Data describes the determination of the chemical composition of archaeological materials through qualitative and quantitative analysis.	Institute of Nuclear and Particle Physics – NCSR "Demokritos"	WP2 WP3	Institute of Nuclear and Particle Physics – NCSR "Demokritos"	PIXE and PIGE techniques will be applied on the established external ion beam station at the 5.5 MV Tandem Van de Graaf	Report, Tables, diagrams, images	xlsx, mca, mpa, docx, jpg	PU (possible publication in a scientific journal)	100 – 200 Mb	Academia working – Education (Universities, Institutes etc.) Archaeological Services, Museums, Galleries, Private Cultural Heritage Organizations

				accelerator. Spectra will be collected through XGLab software for the case of PIXE and MPANT for PIGE. GUPIX and PiGreco software will be used for the analysis of the data obtained.					
Description of RFQ's physics, manufacturing and applications	YFOS	WP3	CERN	direct communication	powerpoint presentation	.pdf	PU	9 MB	academia/industry

Drawings of vanes	YFOS	WP3	CERN	direct communication	image	.pdf	SEN	4,5 MB	academia/industry
Drawing of assembly	YFOS	WP3	CERN	direct communication	image	.pdf	SEN	1 MB	academia/industry
Mechanical Design, Brazing and Assembly Procedures of the LINAC4 RFQ	YFOS	WP3	CERN	online data search	paper	.pdf	PU	0,8 MB	academia/industry
RFQ Vacuum brazing at CERN	YFOS	WP3	CERN	online data search	paper	.pdf	PU	0,4 MB	academia/industry
Drawings of cutting tools	YFOS	WP3	CERN	direct communication	image	.pdf	SEN	TBD	academia/industry
3D drawing of RFQ	YFOS	WP3	CERN	direct communication	3D image	.dwg	SEN	TBD	academia/industry
Drawings of vanes and assembly	YFOS	WP3	YFOS	CAD model	CAD file	.dwg	SEN	TBD	academia/industry

Drawings of jigs for RFQ manufacture	YFOS	WP3	YFOS	CAD model	CAD file	.dwg	SEN	TBD	academia/industry
NC codes for RFQ manufacture	YFOS	WP3	YFOS	Machining code file	document	.txt	SEN	TBD	academia/industry
Jigs for RFQ manufacturing	YFOS	WP3	YFOS	YFOS manufacturing facility (CNC machine)	Physical object		PU	TBD	academia/industry
RFQ vanes	YFOS	WP3	YFOS	YFOS manufacturing facility (CNC machine)	Physical object		PU	TBD	academia/industry
Preparation and completion of the Hospital's Questionnaire on Radiopharmaceutical or Radionuclide Use	GNP	WP4– Radioisotope production and radiopharmaceuticals	Nuclear Medicine Department, GNP	Hospital Information System - SAP ERP	Numerical data	Common CSV / Excel	WP4 - SEN	TBD	Academia , healthcare, industry, Health Authorities

Communication and dissemination activities	GNP	WP2 - Education, Dissemination, Inclusion and Diversity	Program Management Office, GNP	-	Description of organization, organisational logo, picture of organisation	Common images	WP2 - PU	TBD	To project consortium and to public
Identify best Isotopes for production with LINAC and Investigate the best Ligands for development within excellence hub	UL	WP4	Questionnaires – analysis of the current use and needs in hospitals, data library and literature.	Questionnaires, data search in open literature, statistical software tools	Images, tables, diagrams, reports, computer scripts.	Microsoft apps dashboard files, Windows files (xlsx, docx, jpg, pdf, jpeg, mpx, mpj, opj, png, html)	SEN Findings may contain proprietary data that could harm company's competitive edge if disclosed prematurely. Protection of research information. Violation of data-sharing agreements.	100 Mb	Academia working in specific areas, industry within specific business segments. Sectors: Nuclear medicine, radiochemistry, radiopharmaceuticals, theranostics, radiolabeling, isotope production, quality control and assurance

									of radiopharmaceuticals.
Partners' contact details, partners social media accounts, description of partners' organisation	All partners	WP2	Partners' locations	Partners input	Names, phone numbers, emails -> text and numbers	Excel file	SEN	177 KB	IFIGENEIA consortium
Project visual identity - Brandbook	IJS	WP2	IJS's main location in Ljubljana, Slovenia	the designer's original work	Text, graphics, tables, etc. incorporated into report	PDF	PU (the designer's copy rights)	105 2 KB	IFIGENEIA consortium
Project multimedia content – videos, text, videos	All partners	WP2	Where the IFIGENEIA activities are implemented	Partners input	Videos, text, photos, etc.	Various formats	PU	TBD	IFIGENEIA consortium
Newsletter subscribers	IJS	WP2	IFIGENEIA's website	Subscribers have subscribed	Names, emails	Excel file	SEN	TBD	IJS

				to the newsletter					
Key target groups	All partners	WP2	Partners' locations	Partners input	Names of the organisations (target groups) and their address, contact info, etc.	Excel file	PU	TBD	IFIGENEIA consortium
Commercially Available Cellular Data	DKFZ	WP4	DKFZ laboratory will generate radiation biology studies with commercially available cell lines	Data was generated via running of experiments within the DKFZ lab	Data produced comprises mostly survival data for various cell lines and radiation isotopes	Common / standardized format of xls	PU=Public (publicly available)	100 MByte	Data will be relevant to academia working in specific areas of radionuclide therapy
Data set for business plan	IAS	WP5	Data sets produced for business plan and	With word-processing software (e.g. word,	Reports, slides, diagrams	ASCII, pdf	PU	A few GBs	Academia, governance, industry

			strategic investment plan	power-point)					
Inclusion strategy data	IAS	WP2	Documents and presentations (including specifications) produced for inclusion strategy	With word-processing software (e.g. word, power-point)	Reports, slides, diagrams	ASCII, pdf	PU	A few GBs	Academia, governance, industry
Presentation material in the form of DOCX, PDF and PPT files corresponding to an Accelerator School and a Master Class program in Particle Therapy, dealing with the physics	University of Cyprus	WP6 (Mentorship)	Coordinated and catalogued by the University of Cyprus IFIGENEIA group.	From the talks presented by members of the IFIGENEIA partners and other speakers, and the corresponding references.	DOCX, PDF files and PPT slides and images, tables, diagrams, reports and questionnaires.	Microsoft Office apps' files (docx, jpg, pdf, jpeg, charts, plots, html and textual)	**PU** across all the members of the IFIGENEIA consortium in the final form of presentations. Special efforts should be drawn	300 Mb	Academia working in the relevant areas of accelerators, radioisotopes, diagnostic tools and therapeutic protocols. Sectors: medical physics, nuclear medicine, radiochemistry,

mechanisms, diagnostic systems and therapeutic protocols for patients (D6.1 under AUTH and GSI respectively). Information on the Virtual Interactive Radioisotopes production unit, in the form of Simulation plots and diagrams, presenting/explaining the systems and components of the RI Production Unit (D6.2 under CERTH).							across the BiH Partners. Anonymity protection of questionnaires information.		radiopharmaceuticals, theragnostic, radiolabeling, isotope production, quality control and safety of radiopharmaceuticals.

Instructive document on source operation, low-energy beam transport line design, and radiofrequency quadrupole modelling for a radioisotope production unit	UNSA/CERN	WP3	CERN Document Server	CERN's software packages (TRAVEL, TRACE3D, SUPERFISH) and Los Alamos National Laboratory (LANL) codes; experimental measurements from the beamline using diagnostic tools (diagnostic boxes with grids and Faraday cup)	CERN note / report	Standardized CERN public note to be available on CERN Document Server	PU	10-20 MB	Academic and industry groups working on the accelerator and beamline design for low-to-medium energy beams

Educational videos and photos on sources, beamlines, and linacs for injection into a medical facility for the virtual radioisotope production unit	UNSA/CERN	WP6	CERN 2250 Accelerator Test Bench for Medical and Societal Applications via UNSA-CERN Agreement on the Sarajevo Ion Accelerator project	Standard video and photo taking on a camera and editing in video editing software (such as Blender)	Video and/or photo	.mp4 and/or .png to be available on CERN Document Server or one of the WP6 partners' websites	PU	0.5-2 GB	Students, academic, industry and medical groups working on radioisotope production facilities and medical accelerators
List of associated partners that joined the IFIGENEIA scheme via partnering with UNSA and the status of the quadrupole helix	UNSA	WP6	UNSA report	Collecting the associated agreement or letters of intent from potential partners	Table and list within a short report	Standardized report to be available on the UNSA website	PU	0.2 MB	Bosnian, Western Balkans, and European scientific and research communities looking to expand their network, in particular in the

establishment in BIH mentoring hub									field of medical accelerators
Results of the satisfaction surveys and feedback questionnaires for the participants of the mentoring activities (conferences, workshops, meetings)	UNSA	WP6	UNSA report	Collecting the feedback and satisfaction survey results and reporting them in tables and graphs	Table, graphs summarizing survey results	Standardized report to be available on the UNSA website	PU	0.5 MB	European consortia organizing similar events within their grant agreements
Results of the questionnaires on gender equality, diversity and inclusion among the partnering institutions	UNSA	WP2	UNSA report	Collecting information from the partners on their gender equality, diversity and inclusion programs	Report	Standardized report to be available on the UNSA website	PU	1 MB	Developing labs, institutes on good practices on gender equality, inclusion and diversity

Sustainability and institutional models for Excellence Hubs in Greece	REGION OF CENTRAL MACEDONIA	WP2	Stakeholder consultations, institutional mapping, policy review, RIS3 strategies	The Region of Central Macedonia generates this data through participatory stakeholder engagement processes, implemented as part of its Smart Specialisation Strategy (RIS3). Data collection includes targeted consultations, structured interviews,	Reports, policy briefs, roadmaps	PDF, Excel, DOCX	PU	~50 –80 MB	Valuable for policy-makers, public authorities, regional administrations, and institutional stakeholders involved in the long-term support, governance, and operation of research infrastructures in the field of nuclear medicine.

				and regional ecosystem mapping involving public authorities, academic institutions, research centres, and private sector actors. Input is also drawn from the activities and networks of the One Stop Liaison Office (OSLO), a regional structure that facilitates					

				collaboration between innovation stakeholders.					
D1.2 - Project Quality Provisioning & Risk Management Manual	Cosylab	WP1 T1.2	Partners	Collecting information from partners, writing documentation	Document - manual	MS Word document & PDF	SEN This document defines the consortium's internal governance, quality assurance procedures, and risk management strategies. While it does not include proprietary technical content, it reflects internal roles, escalation paths, and	40 pages	Intended for internal use by the IFIGENEIA project consortium partners, this document is specifically designed to guide project-internal planning, quality assurance practices, and risk management activities. It is relevant for project coordinators, work package leaders, quality

							operational assumptions that reflect internal agreements between consortium partners. Publishing this information at an early stage may unintentionally: 〉 Reveal internal planning logic or decision-making approaches that could be misunderstood without full		managers, and other consortium members involved in project execution and governance. If made public, the document would be of interest to project management professionals involved in the planning, execution, and oversight of technically complex R&D projects, particularly in domains similar to the IFIGENEIA initiative.

							project context; 〉 Disclose coordination mechanisms or fallback procedures that are intended for internal use only; 〉 Limit the consortium's flexibility to adapt its management processes as the project evolves.		

							To ensure internal alignment and allow for procedural refinement, the document is classified as Sensitive. The classification may be reconsidered at a later stage, if broader dissemination becomes appropriate or strategically useful.		
D3.4 - Control system project plan	Cosylab	WP3 T3.4	Partners	Collecting information from partners, writing	Document - report	MS Word document & PDF	SEN The document will contain information that certain	50 pages	Intended for internal use by the IFIGENEIA project consortium partners, this

				documentation			project partners regard as part of their intellectual property, trade secrets, and/or commerciall y sensitive know-how. Disclosure of such content could adversely affect their competitive position or infringe upon proprietary rights. Specifically, the document may include technical approaches, architectural		document is primarily aimed at system engineers, control system architects, work package leaders, and technical coordinators involved in the specification, design, and implementation of the accelerator's control infrastructure. If made public, the document would be of interest to members of the scientific community working in the field of particle accelerators,

							designs, internal methodologies, or implementation details that are not publicly disclosed and are considered strategically important by the contributing parties.		as well as to commercial and public-private organizations active in the same technological domain. This includes potential competitors or stakeholders seeking insights into system architecture strategies, integration planning, or technical coordination practices in large-scale research infrastructures.
Development of prerequisite Lab conditions	BIOKOSMOS S.A.	WP4	BIOKOSMOS S.A. laboratorie	Data search in open	Images, tables, diagrams,	Microsoft apps	**SEN** Findings may contain	100 Mb	Academia working in specific areas,

(radiation protection) for the production of the identified isotopes.			s, production facilities, data library and literature.	literature, statistical software-tools	reports, computer scripts.	dashboard files, Windows files.	proprietary data that could harm company's competitive edge if disclosed prematurely. Protection of research information. Violation of data-sharing agreements.		industry within specific business segments. Sectors: Nuclear medicine, radiochemistry, radiopharmaceuticals, theragnostics, radiolabeling, isotope production, quality control and assurance of radiopharmaceuticals.
Project communication and dissemination materials (e.g. newsletters, social media content, event reports, presentations,	SIH	WP2– Communication and Dissemination	SIS EGIZ internal team, based on project activities and outputs with colaborati	Created using tools such as Canva, MS Word, Adobe, PowerPoint, video editing software)	Text, images, presentations, reports, videos	.pdf, .docx, .pptx, .jpg, .png	PU – Public (final versions); some working documents SEN	1-5 GB	Useful for other EU-funded project communication teams, media, innovation networks institutions looking for dissemination

articles for the project's website, etc.)			on with WP2 lead IJS and other project partners (coordinated internally)	based on partner inputs and project milestones					best practices, and the wider public, public outreach initiatives
Training materials and participant feedback from mentorship activities, Accelerator School, and Master Classes	SIH	WP6 – Mentorship	Developed collaboratively by WP6 partners (AUTH, GSI, CERTH) and collected during training sessions and events	Training presentations and VR content developed by experts; feedback collected via online surveys (Google Forms, MS Forms)	Presentations, video recordings, transcripts, survey data	.pdf, .pptx, .xlsx, .mp4, .csv	SEN – Sensitive (feedback data and videos); some materials may be PU upon approval and anonymization	1-5 GB	Useful for institutions in medical training, accelerator education, and VR-based learning programs
Key Exploitable Results (KERs) analysis (radioisotopes and	TALOS	WP5-T5.1	Proposal, partners, KER methodology	Via partner inputs and characterization methodology,	Reports, Tables	Word, Excel, PDF	SEN	A few MB	Prepare cases and exploitation plans

radiopharmaceuticals production, Virtual Reality (VR) software, technology of LINAC, capacity building)				technical documents, interviews, partner development of material					
Business Plan & Investment Plan data (LINAC & lab cost structure, Staffing plan & salaries, strategic Investment Plan, market demand data-cancer, isotopes, therapies, financial data, feasibility data), private equity investors data	TALOS	WP5-T5.2	Market research, partner input, interviews, equipment supplier research, HR inputs, public reports, literature	Through cost collection & estimation, staff data, market size analysis, surveys, budget reports, staff planning and average salary benchmarks,	Reports,tables, diagramsFinancial models	Word, Excel, PDF	SEN	A few MB	Build investment case, budget & operation planning and Business Plan for private equity financing. Ensure long term continuation of project post-funding

				statistical research, meetings, financial model generated					
Sustainability short term framework	TALOS	WP5-T5.3	Internal planning and RCM input	Based on Draft Business Planning	Reports, tables,diagrams	Word, Excel, PDF	SEN	A few MB	Ensure continuation of project post-funding

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