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SUNSON project has received funding from Horizon Europe Research and Innovation Action programme under Grant Agreement n° 101083827



Concentrated Solar energy storage at Ultra-high temperatures aNd Solid-state cONversion

WP1 – Project Management and Coordination

D1.2 – Data Management Plan and Open Sourcing approach

Version 0.1

Document information

Contractual Due date: 31.05.2023

Delivery Date: 31.05.2023

Author(s): IDENER (IDE)

Lead Beneficiary of Deliverable: IDENER

Dissemination level: Public

Nature of the Deliverable: Data Management Plan

Internal Reviewers: UPM, HOLOSS, NTNU, PSA, IONV



SUNSON Key Facts

Acronym	SUNSON
Project title	Concentrated solar energy storage at ultra-high temperatures and solid-state conversion
GA n°	101083827
Starting date	01/12/2022
Duration-months	42
Call (part) identifier	HORIZON-CL5-2021-D3-03 (Sustainable, secure and competitive energy supply)
Type of Action	HORIZON-RIA' Horizon Europe Research and Innovation Action Programme'
Topic identifier	HORIZON-CL5-2021-D3-03-02 (Next generation of renewable energy technologies)
Consortium	6 organisations, all EU Member States
Model GA type	HORIZON Action Grant Budget-Based

SUNSON Consortium Partners

N.	Partner	Acronym	Country
1	Universidad Politécnica Madrid - Instituto Energía Solar	UPM	ES
2	IDENER RESEARCH & DEVELOPMENT	IDE	ES
3	Norges Teknisk-Naturvitenskapelige Universitet	NTNU	NO
4	Plataforma Solar de Almería (PSA-CIEMAT)	PSA	ES
5	IonVac Process	IONV	IT
6	Holistic and ontological solutions for sustainability	HOLOSS	PT

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Executive Summary

This document's main goal is to advise the SUNSON consortium about how to handle and manage the data that is produced during the course of the project. In particular, this paper contains details on the types of data that will be produced, the standards and accessibility of the data for verification and re-use, and the protocols for data curation and preservation. As a public document, it will also make it simple for other researchers who might be interested in using or validating the material created to identify the datasets generated inside the study.

SUNSON aims to work under a more global open scientific strategy with a cultural transition toward openness, accessibility, reusability, transdisciplinary, participatory collaboration, and a methodology driven by the benefit for society since HEU seeks to sponsor ground-breaking research. The HEU Communication, Dissemination, Open Science, and Visibility policy is upheld by SUNSON partners and is outlined in the Programme Regulation (Article 14 and 39(3)) and the General Model Grant Agreement. In light of this, it provides details about the various datasets collected and used within the project for consortium partners as well as for third parties. To manage the data related with and generated by the work of the SUNSON consortium, they will be categorised and technically described in terms of data collection, processing, and creation.

SUNSON's datasets are identified in this first version of the DMP are listed in the Annexes. The full characterisation of those datasets has been done following a template based on the FAIR principles.

It is important to remark that this document's current data management plan (DMP) is its initial version. As a result, the DMP will be a living document that is constantly updated by the project's responsible party with new information, and if relevant changes are necessary, a new version will be delivered to the European Commission by the end of the project.





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Abbreviations

Abbreviation	Definition
Consortium Agreement	CA
Data Management Plan	DMP
Dissemination, Exploitation, Communication	DEC
Dissemination, Exploitation, Communication Package - Information and Communications Technology	DEC-ITC package
Deliverable X.x	DX.x
European Commission	EC
European Union	EU
Findable, Accessible, Interoperable and Reusable	FAIR
Grant Agreement	GA
General Data Protection Regulation	GDPR
Intellectual Property	IP
Intellectual Property Rights	IPR
Milestone	MS
Open access	OA





1 Introduction

1.1 Purpose of the document

This document's purpose is to present and detail the Data Management Plan (DMP) of the SUNSON project. The DMP is a vital document that outlines the management policies for the data generated during the SUNSON project. The primary purpose of this document is to provide a detailed overview of how the project's data will be handled, stored, and shared throughout the project's lifecycle. The DMP is an essential guideline that helps ensure that data is managed efficiently and effectively while complying with relevant regulatory requirements.

In this sense, the DMP contains a wide range of information and data management policies that are critical to the success of the SUNSON project. This includes identifying data generated during the project and how this data will be collected, processed, analysed, and stored. The document also outlines data sharing and dissemination procedures, considering the project's Intellectual Property (IP) intentions. Furthermore, one of the key principles that will govern the SUNSON project's data management activities is the criteria "as open as possible, as closed as necessary." This principle recognises the importance of Open Access to data and the benefits that this can bring to the scientific community. At the same time, it acknowledges that there may be instances where data must be restricted or closed to protect intellectual property or other sensitive information.

Lastly, the DMP will also provide guidance on using data formats, metadata, and standards for data management. This will help to ensure that data is consistently formatted and can be easily shared and reused by others.

1.2 Objectives

The main objective of the DMP is to ensure that all the data gathered for the development of the project and the data generated as part of the activities is correctly managed. Furthermore, enabling the replication of the results and helping other research to go further in the same direction.

- Introduce the data life cycle and good practices of its management.
- Identify the data that will be processed and/or generated within the project.
- Detail how the data will be managed, used, stored, and treated.
- Ethical aspects.
- Open-source approach considerations.



2 Data management

2.1 Data Life Cycle

The aim of the DMP is to regulate the processes within the data life cycle, presented in Figure 1. As reflected by the figure, the data life cycle can be divided into 4 main stages.

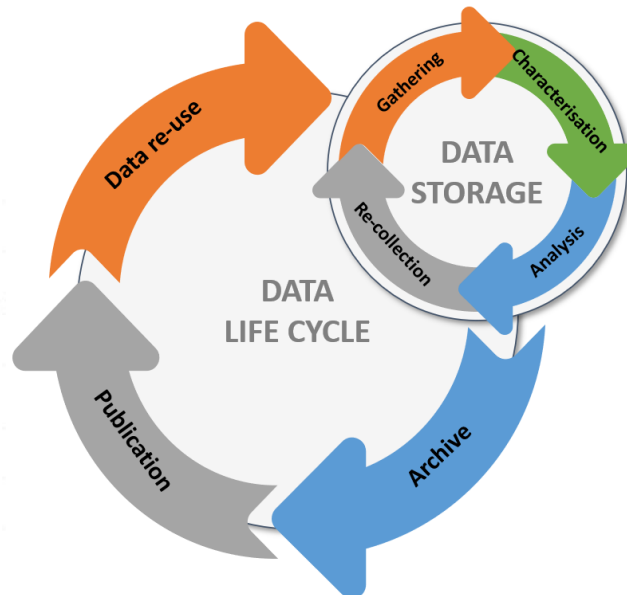


Figure 1: Data life cycle

1. **Data storage:** This step involves the safekeeping of the data for future use. This may involve the use of databases, cloud storage, or physical storage.
 - 1.1. **Data gathering and acquisition:** This is the initial step in which data is collected or obtained. The data could be in various formats such as electronic, physical, or observational.
 - 1.2. **Characterization:** In this step, the collected data is processed and organized to make it more meaningful and relevant to the research question or objective. This step involves data cleaning, formatting, transformation, and labelling.
 - 1.3. **Analysis and use:** After the data has been characterized, it is analysed to generate insights or support the research question or objective. This step may involve the use of statistical, machine learning, or other analytical methods.
 - 1.4. **Recollection:** This step involves the collection of any additional data required to fill gaps or refine the analysis, after the results evaluation analysis.
2. **Archive:** This step involves the preservation of the data in a secure and accessible manner. It may involve creating backups, version control, and long-term storage.
3. **Publication:** In this step, the research findings or data are shared with the public or a specific audience through various means such as academic papers, reports, or presentations.
4. **Data re-use:** This step involves the reuse of the data for future research or analysis. This may involve sharing the data with other researchers or organizations, subject to any ethical or legal considerations.



On this early stage of the SUNSON project execution, the consortium works in the *Data Storage* stage, and specifically on the *Data Gathering*. Therefore, this project's initial DMP offers templates for characterising the datasets produced or used inside (which consists mainly of primary, derived and simulation data)- template can be found in section 4.

2.2 Good Practices for Data Management

The considerations stated in the EU's published data management guide must be considered in the project development framework. In this regard, it is crucial to be aware of the data each organisation will produce over the project's life and to develop the appropriate standards for its management. The information acquired in the parts below is, thus, of crucial value. Some of the criteria gathered in this document to understand all project members include adhering to a convention for identifying the data, utilising a version management mode, and designating an accessible place or platform for the data. Some behaviours, such as using external memories, should be avoided in order to not compromise data security; section 5 provides further details.

Providing Open Access (OA) to data is one of the primary goals of data management. The two primary components are 1) storing publications in repositories and 2) offering OA to those publications. To comply with the proposed standard, utilising the European Union's numerous recommendations and platform rules for meeting OA requirements while creating datasets or distributing files is essential.

2.3 Data set location

A digital platform, Microsoft SharePoint, has been established to facilitate the management of project files and documents. This centralised repository allows all consortium members to create, edit, upload, and share files with their partners. This approach streamlines collaboration and ensures all members access the most up-to-date information. In addition to SharePoint, the consortium will be using Microsoft Teams to facilitate communication and the organisation of meetings. This will enable efficient and effective communication among members, regardless of location.

SUNSON website <https://www.sunson.eu/> is open to public and it is used to publish and disseminate data and public results such as Deliverables, along with publications in scientific journals.

To ensure that the project's software development efforts are well-organised and managed, dedicated repositories will be created in GitHub. By utilising this version control system, the team can effectively manage changes to the project's code and track progress throughout the development process. Furthermore, to guarantee the quality of the software developed during the project, the team will adhere to the latest standards and recommendations on software development. This will ensure the software meets the highest standards and is compatible with industry best practices.





2.4 Responsibility and roles

UPM, as coordinator of SUNSON project, will be in charge of the management of the Microsoft Teams group and SharePoint. Meanwhile, IDE as Task 1.4 leader, will be responsible for updating the plan continuously throughout the project's lifecycle. Any relevant update will be included in the periodic updates of the Project Management Plan Reports. This will ensure that the DMP reflects any changes or updates to data management requirements that may arise over time.

By taking a proactive approach to DMP maintenance. IDE will ensure that the plan is always up to date, providing clear guidelines on managing personal data and ensuring compliance with the General Data Protection Regulation (GDPR)¹. The DMP will be an essential document that outlines the project's data management procedures and provides clear guidance on properly handling all data generated during the project. In addition, IDE will ensure that the final version of the DMP reflects any updates to data management policies and practices identified throughout the project's lifecycle with consortium support.

3 FAIR Data

This section presents how the SUNSON consortium should save the information to make the data Findable, Accessible, Interoperable and Reusable (FAIR).

- **FINDABLE** principle emphasizes the importance of making research data easily discoverable and accessible to other researchers. All data files produced shall start with the name of the project "SUNSON". This can be achieved by assigning persistent identifiers, such as DOIs or URIs, to the data and providing comprehensive metadata that accurately describes the data's content and context. By doing so, researchers can easily search for and locate the data they need by using appropriate data repositories or catalogues, ultimately promoting data sharing and reuse.
- **ACCESSIBLE** principle means that data should be made openly available to both humans and machines while respecting privacy, security, and legal considerations. To achieve this, any barriers that might impede access to the data should be removed, clear instructions on accessing the data should be provided, and open standards and protocols should be utilised to facilitate seamless access. This ensures that researchers can access and use the data without any unnecessary hindrances or restrictions, while also protecting the privacy and security of individuals whose data is being shared. To be easily accessible by third parties and researchers who want to further use or reproduce the data, standardized types for file formats are used. For both open and non-open data, the aim is to preserve the data and make it readily available to the interested parties during the project and beyond.

¹ Find additional information in <https://gdpr.eu/>





D1.2 Data Management Plan and Open Sourcing approach

- **INTEROPERABILITY** principle emphasises the importance of structuring data in a way that enables it to be easily combined and integrated with other data from different sources. This involves using standardised vocabularies, ontologies, and data models that ensure data can be accurately interpreted and exchanged between different systems. Additionally, the use of open formats and APIs further promote interoperability, making it easier for researchers to access and integrate data into their own work. By adhering to these principles, data becomes more valuable and usable, allowing for more effective collaboration and knowledge discovery.
- **REUSABILITY.** To promote the reusability of data, it is essential to ensure that it is well-documented and appropriately described. This includes providing information about its origin, context, and usage rights. By establishing clear and standardized terms of use and licenses, data producers can encourage others to effectively reuse and cite the data, thereby fostering collaboration and reproducibility. This can include providing detailed documentation of the data collection process, data processing steps, and any assumptions or limitations that may apply. Additionally, standard data formats and metadata standards can further facilitate data reuse and interoperability.

SUNSON will deliver the results in the most accessible, understandable, transferable, and reusable formats. IDE is accountable for administering the project repository and ensuring compliance with the DMP and FAIR standards (Table 1).

Table 1: FAIR Principles and application in SUNSON

F	Findability. Each item deposited will be issued a persistent and unique identifier (DOI). Project records will be identified with metadata to facilitate findability (SUNSON) and ensure traceability (id ORCID).
A	Accessibility. each item will be granted either open, closed or embargoed access as per the provisions in the DMP and the IP management strategy. Reasons for close/sensitive data will be clearly explained and comply with the legitimate reasons allowed by EC.
I	Interoperability. compliance with DataCite's Metadata Schema ² ; preferably uncompressed and using character encodings (ASCII, UTF-8) and international standards: thermal solar systems (CEN/TC 312), energy efficiency (CEN/CLC/JWG 4), metallic materials (CEN/TC 459/SC), heat exchangers (CEN/TC 110), insulating refractory products (CEN/TC 187, CEN/TC 88), power electronics (CLC/TC 22X), energy application interface (CLC/TC 57).
R	Reusability. SUNSON will share produced research data, allowing scientists/researchers to replicate/validate results. Deposited data will be released with a CC BY or equivalent and retained for the repository lifetime (20 years).

² <https://schema.datacite.org/>



The SUNSON Consortium will evaluate the need to balance openness and preservation of information, commercialization, and Intellectual Property Rights (IPR), privacy and security concerns. The project will guarantee data confidentiality, accessibility, and result validation. This is contingent upon compliance with the appropriate Intellectual Property governance and always in agreement with the partners involved in the data achievement.

Consequently, a set of decision-making procedures will be considered throughout the project to maximise open access to research results and/or data without compromising commercial interests. Figure 2 refers to the decision to disseminate/exploit results and Figure 3 to the preliminary results identified and their expected dissemination/exploitation route.

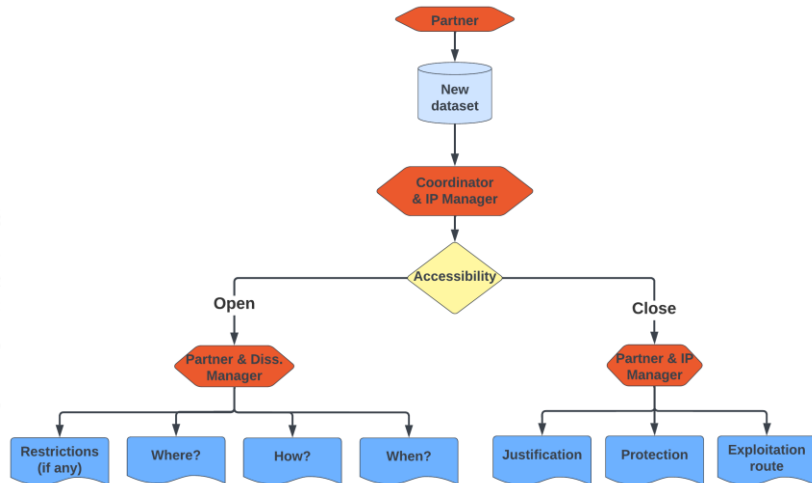


Figure 2: Decision making tree on new datasets dissemination/exploitation plan

As a result, partners will endeavour to make their non-sensitive data available in papers as Green or Gold Open Access. SUNSON will ensure financing and regulatory criteria are met, and that research data remain accurate, genuine, dependable, and comprehensive. For non-open data, IP governance for each key exploitable result will be followed and agreed among the partners, the project coordinator (UPM) and DEC manager (IDE). In this case, the reasons for restricting access to confidential or sensitive information will be disclosed and will adhere to the EC-approved legal justifications. Finally, for sensitive/personal data, they will be treated adequately according to EU regulations (i.e. GDPR).

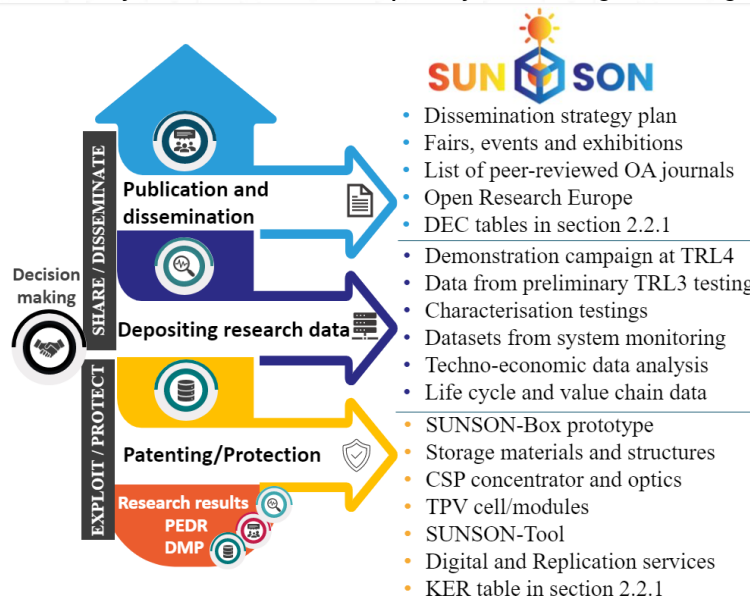


Figure 3: SUNSON preliminary results identified and decisioning on their dissemination and/or exploitation

4 Data Summary

This section summarises the data each partner generated and/or collected during SUNSON. The categorisation of the data following FAIR principles is essential for defining an effective DMP. In general terms, the source of the data can be classified into five groups, as reflected in Table 2:

Table 2: SUNSON data sources

Management	Data gathered and stored as part of the management activities of the project (WP1)
Observational	Data captured in real-time, operators' feedback, sensor readings, telemetry, images, generated in TRL3 testing of individual components (WP3-4) and the integrated prototype (WP5) at TRL4.
Experimental	PCM characterisation, CSP optics, TPV cells/module tests (WP3-4) and demo campaign (WP5)
Simulation	Data is generated by models produced at system level WP2 and component level in WP3-4.
Derived	Derived data generated from reproducible experimental datasets as inputs for modelling (WP2), environmental and economic assessments (WP6), and replicability (WP7).
Reference/canonical	Reference or canonical input data for modelling (WP2-4) and sustainability assessment databases (WP6), and DEC actions (WP7).

Data sets collected in WP2-7 will be studied to prepare for publication and sharing. A clear and common management structure will be applied to make clear: i) what and when it is manufactured and developed (complete system, CSP concentrators, TPV cell/modules, PCM materials, container/crucible); ii) what requirements, specifications, products or data is needed, and iii) who will take responsibility for the development, logistics and information transference ('Interdisciplinary workflow diagrams' presented in D1.1).

IDE has created a template to gather the produced datasets envisaged during the SUNSON project lifetime (

Table 3). By this means, the primary datasets for each WP that have been identified up to this point. Full details, characteristics and descriptions are provided in Annex I. In the revised version of the PMP Reports, further information and specifics will be included as they become available. For tracking and organisation reasons, all the datasets have been identified with the following nomenclature:

SUNSON_Dataset_WPX_PARTNER_Title



SUNSON's datasets identified in this first version of the DMP are listed below grouped by WP. The full characterisation of those datasets has been done following the

Table 3 template and are presented in Annex I.

WP1 – Project Management and Coordination

- SUNSON_Dataset_WP1_UPM_Contacts
- SUNSON_Dataset_WP1_UPM_minutes

WP2 – Integration of technologies/materials in SUNSON-Tool

- SUNSON_Dataset_WP2_IDE_EnergyForecast
- SUNSON_Dataset_WP2_IDE_RES_Simulations

WP3 – Solar to Heat conversion and storage

- SUNSON_Dataset_WP3_NTNU_ Microstructural characterization
- SUNSON_Dataset_WP3_NTNU_ Thermophysical properties
- SUNSON_Dataset_WP3_PSA_CSP-Sim
- SUNSON_Dataset_WP3_PSA_CSP-Test
- SUNSON_Dataset_WP3_IDE_PCM-TES_system_simulations

WP4 – Thermal energy to power conversion

- SUNSON_Dataset_WP4_UPM_Simulation
- SUNSON_Dataset_WP4_UPM_Epitaxy
- SUNSON_Dataset_WP4_UPM_Processing
- SUNSON_Dataset_WP4_UPM_DeviceCharacterization
- SUNSON_Dataset_WP4_UPM_ModuleCharacterization
- SUNSON_Dataset_WP4_UPM_PreliminaryTesting
- SUNSON_Dataset_WP4_IONVAC_SunsonBoxEmulator

WP5 – Flagship demonstration

- SUNSON_Dataset_WP5_PSA_CSP-Test

WP6 – Sustainability assessment and TEA

- SUNSON_Dataset_WP6_HOLOSS_LCA_Environmental
- SUNSON_Dataset_WP6_HOLOSS_LCA_Economic
- SUNSON_Dataset_WP6_HOLOSS_LCA_Social
- SUNSON_Dataset_WP6_IDE_Exergy_Analysis

WP7 – Dissemination, Exploitation and Communication

- SUNSON_Dataset_WP7_IDE_Stakeholders list
- SUNSON_Dataset_WP7_IDE_Dissemination and Communication materials
- SUNSON_Dataset_WP7_IDE_SRA



Table 3: SUNSON Dataset characterisation template

SUNSON_Dataset_WPX_PARTNER_Title		
Dataset Title	'Insert title of the data'	
Type of Data	Classification according to table 2: Management / Observational / Experimental / Simulation / Derived / Reference-canonical	
Short description	The database contains name, organisation and contact details for all project partners.	
Responsible partner	PARTNER ACRONYM	
WP	WP X	
Expected period	Month Start- Month End	
Purpose and relation with SUNSON goals		
FAIR	Findability	Format: e.g This dataset is stored in a spreadsheet (excel file '.xls.'). word file (.doc, python file .py, images jpeg; or videos mp4) Location: Sharepoint folder Containing fields: - Partner short name - Country - Name and surname - Position in the organisation - Email - Phone number - Skype ID - Teams user - Role within the project Name convention followed: SUNSON_Dataset_WPX_PARTNER_Title_YYYY/MM/DD Version numbering: date in format YYYY/MM/DD
	Accessibility	Will it be openly available? If yes, how? How will it be accessible? Any methods or software tools need for the access? Restrictions: This dataset is not publicly available. Contact list is available to beneficiaries through project intranet (TEAMS) Justification of restriction (if so): the contact list contains personal information.
	Interoperability	Data exchange and re-use ease: for instance, The .txt file will be structured in order to ensure flexibility and interoperability between the different data in the project. Standards will be considered whenever possible.
	Re-usability	Is the reusability of the data allowed? Any licenses required? Duration of the reusability. Example: This dataset can be accessed and used by partners by logging in project intranet (TEAMS)
Data security	The data collected for internal use in the project is not intended for long-term preservation. No personal information will be kept after project end	
Ethical aspects	Applicable international, EU and national law in particular, Regulation (EU) 2016/679 of the European Parliament: General Data Protection Regulation)	
Other comments	N/A	



5 Data Security

Each organisation's IT system administrators and specialists will be responsible for securely maintaining and managing the digital assets and resources of the project. As outlined in the preceding tables, specific datasets are stored on internal laptops and are already governed by established security protocols. As a result, each partner will implement appropriate security measures in compliance with their respective company policies to ensure data security.

Moreover, the security of data stored on the SUNSON shared repository's platforms will be the responsibility of UPM, as Microsoft Teams and Sharepoint belong to its directory. Therefore, the team at UPM will implement appropriate security measures to safeguard this data and ensure that it is accessible only to authorised users.

Additionally, SUNSON partners will adhere to specific processes to maintain data security throughout the project's lifecycle. This includes storing data in at least two locations to prevent data loss and limiting the use of flash drives. To ensure uniformity of the final dataset, files will be systematically labelled, enabling easy identification and tracking of the data. By following these processes, SUNSON partners will be able to mitigate the risks associated with data loss and unauthorised access, thereby ensuring the security and integrity of the project's digital assets and resources.





6 Open-source approach considerations

An open-source approach refers to the use of open-source software tools and methodologies in a particular area, such as data management planning. Open-source software is software that is released under an open-source license, which allows anyone to view, modify, and distribute the source code. This approach to software development encourages collaboration, transparency, and flexibility. This approach offers several advantages, including:

- **Cost-effectiveness:** Open-source software is often free, or available at a much lower cost than proprietary software, making it an affordable option for researchers and institutions.
- **Flexibility:** Open-source software is highly customizable, allowing researchers to tailor it to their specific needs and workflows.
- **Transparency:** Open-source software is transparent, meaning that users can review and modify the source code, ensuring that the software is trustworthy and reliable.
- **Collaboration:** Open-source software encourages collaboration and knowledge-sharing among researchers, making it easier to work together on research projects and to share data.

In the context of data management planning, an open-source approach involves using open-source software tools and platforms to create, manage, and share research data, such as those listed in section 6.2. Those platforms provide a range of features, such as data storage, data sharing, and version control, which can help researchers to organize and manage their data more efficiently.

In addition to using open-source software tools, an open-source approach for DMP also involves adhering to open standards and best practices. Such as FAIR principles which provide a framework for making research data more open and accessible. By following these principles, researchers can make their data more easily discoverable, reusable, and shareable.

Overall, an open-source approach to data management planning can help researchers to create more efficient and effective data management plans while fostering collaboration and knowledge-sharing within the research community.

6.1 SUNSON-Tool providing the DEC-ITC package and training

To reach a wide public, selected contents can be transmitted via communication tools, training, and the DEC-ITC package (which is included in the framework of WP7). The DEC-ITC package will be part openly available in the SUNSON-Tool (tool to be developed in T2.6) and aim to increase social awareness and acceptance among the Quadruple Helix (Academy, Industry, Policymakers and Society).

Within the DEC-ITC packages features there will be included the open resources generated and characterised following the data management plan. The package would include:

- Dissemination materials: publications, deliverables, conference posters, etc.
- Communication materials: videos, leaflet, brochures, etc.
- Exploitation materials: description of KER to engage stakeholders, workshop attendance, etc.
- Training activities: introduction of training materials and videos, handbooks, etc.





6.2 EU platforms - Free-of-charge dissemination and exploitation services

The European Commission offers various free-of-charge services to support your dissemination and exploitation activities³ which will be considered for the SUNSON project:

- **Open Research Europe platform:** An open access, publishing platform for scientific papers for Horizon 2020 and Horizon Europe beneficiaries, including an open peer review and article revision.
- **Horizon Results platform:** A platform for showcasing your research results, finding collaboration opportunities, and getting inspired by the results of others.
- **Horizon Results Booster:** Free consulting services including a portfolio dissemination and exploitation strategy, business plan development and go-to-market support.
- **European Standardisation Booster Service for EU Projects** (an action supported by the European Research Area HORIZON-WIDERA-2021-ERA-01 Call, managed by REA): supports Horizon Europe and H2020 projects to contribute to standardisation in Europe and beyond.
- **Innovation radar:** An initiative that identifies high-potential innovations, based on a data-driven methodology, and assists EU-funded researchers and innovators in reaching the market with their innovation.

6.3 Open access repository

Open Access Repositories (such as PubMed, Zenodo, or arXiv, for example) will be able to be located using platforms such as ROAR, OpenDOAR, OpenAIRE, and OAD. In particular, Zenodo is an EU-backed portal based on the widely used GIT version control system and the Digital Object Identifier (DOI) system. The free repository services provided by Zenodo allow peers to share and archive research data and other research outputs of any size and format, including datasets, images, presentations, publications, and software. The digital data and associated meta-data are preserved through well-established practises such as periodic backups and data replication. Each dataset uploaded is allocated a unique DOI, and therefore traceable and quotable. Metadata are associated to a specified dataset.

As a first agreement, when confidentiality allows it, Zenodo platform (<http://zenodo.org>) will be used as the main platform for long-term preservation of results and research data. Additionally, to maximise the impact range, there will be use the Zenodo repository⁴ of AMADEUS project. AMADEUS project was also coordinated by the UPM and focused on next generation materials and solid-state devices for ultra-high temperature energy storage and conversion⁵. Therefore, it is fully aligned with SUNSON activities and objectives. The idea is to coordinate this repository with sisterhood projects, such as THERMOBAT⁶ (UPM is the coordinator and NTNU is also a partner), as part of the shared synergies.

In this sense, it is a great opportunity to extend the research results and take advantage of the public already engaged to increase the dissemination impact. To adapt the new scope, the name of the repository will be changed to give reflect that it covers SUNSON project. Lastly, the manager of the repository (UPM) will provide administrative access to IDE as responsible of the data management.

³ https://rea.ec.europa.eu/horizon-europe-dissemination-and-exploitation_en

⁴ AMADEUS Zenodo repository DOI: 10.5281/zenodo.1154720

⁵ AMADEUS project: <https://cordis.europa.eu/project/id/737054>

⁶ THERMOBAT project: <https://cordis.europa.eu/project/id/101057954>





6.4 Open Publications

All peer-reviewed scientific publications arising from Horizon Europe funding must be made available in open access. This implies that publications have to be freely available online, immediately upon publication and with no restrictions on use, by depositing them on a repository.

Providing open access to peer-reviewed publications is mandatory in Horizon Europe, when peer-reviewed publications are produced, immediately at publication time under open licenses (such as Creative Commons), providing specific minimum sets of rights of reuse (CC BY or similar).

The engaged researchers will use the Green and/or Gold Open Access strategy to achieve the highest impact while being cost-effective. In those cases where the publisher does not accept the green model with no embargo period, the Gold Open Access method will be used instead. It should be noticed that publication schemes that include an embargo period before the publication is made open access are not compliant to HE rules.

EC tools and platforms (i.e., Open Research Europe⁷) can be channelled optimally to enforce other diffusion and exploitation efforts. The platform makes it easy for Horizon 2020, Horizon Europe and Euratom beneficiaries to comply with the open access terms of their funding and offers researchers a publishing venue to share results rapidly and facilitate open, constructive research discussion. All the approved articles by this platform will appear in Google Scholar.

As support material for the consortium, a list of potential scientific journals and their impact factor as well as potential conferences for the next year has been reported in the PEDRC (D7.2).

Because OA will have the following advantages, these steps will make the SUNSON project more effective in its overall impact:

- 1) improving the speed, efficiency, and effectiveness of research, as well as reproducibility and collaborations;
- 2) increasing the visibility, usage, and impact of research by making it possible for the professional, practitioner, and business communities, as well as the interested public, to benefit from the results of the project; and
- 3) receiving more citations than the average for the articles.

⁷ Open Research Europe <https://open-research-europe.ec.europa.eu/about> (accessed April 2023)



7 Ethical aspects

7.1 General Data Protection Regulation

SUNSON project is committed to adhering to the regulations set out in Regulation (EU) 2016/679, also known as the General Data Protection Regulation (GDPR)⁸, which became applicable to all European Union member countries on 23rd May 2018. To protect all data that is collected, processed, and stored within the project, the GDPR guidelines will be followed.

It is essential to understand what personal data means under the GDPR clearly. According to Art.4 of the GDPR, personal data refers to any information relating to an identified or identifiable natural person, also known as the data subject. An identifiable natural person can be identified directly or indirectly, through an identifier such as a name, identification number, location data, online identifier, or through factors specific to their physical, physiological, genetic, mental, economic, cultural, or social identity.

Moreover, Art.4 of the GDPR defines 'processing' as any operation or set of operations performed on personal data or sets of personal data, whether by automated means or not, such as collection, recording, organisation, structuring, storage, adaptation or alteration, retrieval, consultation, use, disclosure by transmission, dissemination or otherwise making available, alignment or combination, restriction, erasure, or destruction. Therefore, the SUNSON project will ensure that all data processing actions comply with GDPR guidelines, especially when personal data or imagery is present.

Norm-critical stakeholder engagement (T7.4) and societal impact analysis (T6.2) through surveys will ensure that the needs and attitudes of sub-groups in stakeholder groups are understood. Information on protected characteristics will be collected to ensure that individuals from a broad range of groups are heard. Data will be aggregated in such a way as to prevent the accidental identification of any individuals. All data collection, storage and usage activities will be conducted in compliance with GDPR.

For last, IDE, in charge of the dissemination and communications activities (WP7), has prepared a consent form (see Annex II) aligning with GDPR. This form has been completed and signed by the consortium partners participating in the project execution. The form will also be filled by external participants in workshops or organised events by the SUNSON project. The purpose of the form is to gather partners consent on sharing their names, entity affiliation, pictures, and videos in the communications activities to increase visibility and impact, as well as, for internal project management. All in all, this reinforces the demonstration of SUNSON's results and the progress of our work.

⁸https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L_.2016.119.01.0001.01.ENG&toc=OJ:L:2016:119:TOC



7.2 Secure, Robust and Trustworthy AI

As recently reflected by the European Commission in the Ethics Guidelines for Trustworthy AI⁹, is crucial to assure the proper use of the AI, even more nowadays with the exponential growth of AI-based tools. It is important to have in mind its trustworthiness. Following the guideline, the trustworthiness of the AI is based on three pillars: the AI must be lawful, ensuring compliance with all applicable laws and regulations; ethical, providing faithfulness to ethical principles and values; and robust, both from technical and social.

To guarantee a trustworthy AI, SUNSON dedicates special attention to each pillar and apply a human-centric during the development of the AI. SUNSON includes some initiatives based on AI such as the SUNSON-TOOL integration and development (WP2). IDENER will develop and deploy this AI-based tool with activities related to multidisciplinary design optimization (MDO) approach and the final integration into a smart digital tool for developing advanced prediction, optimization and replicability assessment of the SUNSON concept solution. This implies the development of information and emulation systems (Task 2.5) supporting the decision making of variable operation towards process optimization based on energy management, integration of renewable systems and the sizing of the storage. The AI will be trained using experimental processing data gathering via sensed production equipment (WP5) and from modelling and simulation results (WP2, 3 and 4). All operators of the equipment will be made aware as appropriate if the AI-system is operational and if any automated actions are to be expected. The interaction between end-user and virtual world by means of a user-interface (Task 2.6) will be in the spotlight.

⁹ European Commission, Directorate-General for Communications Networks, Content and Technology, Ethics guidelines for trustworthy AI, Publications Office, 2019, <https://data.europa.eu/doi/10.2759/346720>



8 Annex I – SUNSON datasets

SUNSON_Dataset_WP1_UPM_Contacts		
Dataset Title	Project contact list	
Type of Data	Management	
Short description	The database contains name, organisation and contact details for all project partners.	
Responsible partner	UPM	
WP	WP1 – Project coordination and management	
Expected period	M1 – M42	
Purpose and relation with SUNSON goals	Facilitate the communication between the partners and ensure the efficient execution of SUNSON project.	
FAIR	Findability	Format: This dataset is stored in a spreadsheet (excel file '.xls.'). Location: Sharepoint folder Containing fields: Partner short name - Country - Name and surname - Position in the organisation - Email - Phone number - Teams user - Role within the project Name convention followed: SUNSON_Dataset_WPX_PARTNER_Title_YYYY/MM/DD Version numbering: date in format YYYY/MM/DD
	Accessibility	Will it be openly available? <i>No</i> <u>Restrictions</u> : This dataset is not publicly available. Contact list is available to beneficiaries through project intranet (TEAMS) <u>Justification</u> of restriction (if so): the contact list contains personal information.
	Interoperability	N/A
	Re-usability	This dataset can be accessed and used by partners by logging in the SUNSON Teams group and accessing the SharePoint. It will be updated along the project duration.
Data security	The data collected for internal use in the project is not intended for long-term preservation. No personal information will be kept after project. During project duration, there will be implemented the data security approaches presented in the DMP.	
Ethical aspects	Applicable international, EU and national law in particular, Regulation (EU) 2016/679 of the European Parliament: General Data Protection Regulation)	
Other comments	N/A	

SUNSON_Dataset_WP1_UPM_minutes	
Dataset Title	Project minutes
Type of Data	Management
Short description	The database contains details on the project execution and management.
Responsible partner	UPM
WP	WP1 – Project coordination and management
Expected period	M1 – M42
Purpose and relation with SUNSON goals	Facilitate the communication between the partners and ensure the efficient execution of SUNSON project.



D1.2 Data Management Plan and Open Sourcing approach

FAIR	Findability	Format: This data is stored in a text (".pdf") Location: Sharepoint folder and shared by email after the meeting. Containing fields: Meeting purpose, partners, date, summary of the points discussed, conclusion and next steps. Name convention followed: SUNSON_WPX_MeetingTitle_YYYY/MM/DD Version numbering: date in format YYYY/MM/DD
	Accessibility	Will it be openly available? <i>No, only internal to the consortium and EC</i> <u>Restrictions:</u> This dataset is not publicly available. Minutes are available to beneficiaries through project intranet (TEAMS) and email.
	Interoperability	N/A
	Re-usability	This dataset can be accessed and used by partners by logging in the SUNSON Teams group and accessing the SharePoint. It can be accessed along the project for an update, checking meetings conclusions and points of discussion.
Data security	The data collected for internal use in the project is not intended for long-term preservation. No personal information will be kept after project. During project duration, there will be implemented the data security approaches presented in the DMP.	
Ethical aspects	Applicable international, EU and national law in particular, Regulation (EU) 2016/679 of the European Parliament: General Data Protection Regulation)	
Other comments	N/A	

SUNSON_Dataset_WP2_IDE_EnergyForecast		
Dataset Title	Energy generation forecasting	
Type of Data	Simulation	
Short description	Results of the energy generation forecasting models for RES. Part of T2.4 activities.	
Responsible partner	IDE	
WP	WP2 – Integration modelling and SUNSON tool development	
Expected period	M12 – M42	
Purpose and relation with SUNSON goals	Forecast the energy generation of SUNSON-box. Support the optimisation and the replicability options scouting.	
FAIR	Findability	Format: This dataset is stored in a spreadsheet (excel file '.xls.' or '.csv'). Location: Sharepoint folder Containing fields: energy flows, demand/generation loads and schedules Name convention followed: The "what-if" scenarios generated with the forecasting models will be stored in different folders depending on the scenarios (i.e. weather, geographic location), sub-folders depending the RES configuration replicated and different files for each sample. Scenarios and configurations of the RES to be defined. Version numbering: SUNSON_WPX_T2.4_WhatIfScenario_YYYY/MM/DD
	Accessibility	Will it be openly available? <i>Yes</i> <u>Restrictions:</u> None
	Interoperability	Data exchange and re-use ease: The results will be implemented in the execution of other tasks of SUNSON. For example, selecting the best configuration for the RES based on the scenario, or on the design of the SUNSON-Box.





D1.2 Data Management Plan and Open Sourcing approach

	Re-usability	This dataset can be accessed and used by partners by logging in the SUNSON Teams group and accessing the SharePoint. It will be updated along the project duration with the results of the simulation performed with the models.
Data security		During project duration, there will be implemented the data security approaches presented in the DMP. After the project, the results can be shared with other researchers to support their activities.
Ethical aspects		N/A
Other comments		N/A

SUNSON_Dataset_WP2_IDE_RES_Simulations		
Dataset Title		RES storage and energy conversion simulation
Type of Data		Simulation
Short description		Results of the simulations performed as part of the models developed in T2.3. Those models are expected to simulate the technical performance of SUNSON prototype in combination with RES and storage.
Responsible partner		IDE
WP		WP2 – Integration modelling and SUNSON tool development
Expected period		M06– M42
Purpose and relation with SUNSON goals		Achieve the optimal design and operation parameters of SUNSON-Box
FAIR	Findability	Format: This dataset is stored in a spreadsheet (excel file '.xls.' or “.csv”). Location: Sharepoint folder Containing fields: TBD Name convention followed: Prototype version simulated and conditions. Version numbering: SUNSON_ WPX_T2.3_RESsim_YYYY/MM/DD
	Accessibility	Will it be openly available? Yes <u>Restrictions:</u> None
	Interoperability	Data exchange and re-use ease: The results will be implemented in the execution of other tasks of SUNSON. For example, selecting the best design for the SUNSON-Box
	Re-usability	This dataset can be accessed and used by partners by logging in the SUNSON Teams group and accessing the SharePoint. It will be updated along the project duration with the results of the simulation performed with the models.
Data security		During project duration, there will be implemented the data security approaches presented in the DMP. After the project, the results can be shared with other researchers to support their activities.
Ethical aspects		N/A
Other comments		N/A

SUNSON_Dataset_WP3_NTNU_ Microstructural characterization		
Dataset Title		Experimental data from Scanning Electron Microscopy
Type of Data		Experimental
Short description		Results of microstructural characterization. Part of T3.4 activities.
Responsible partner		NTNU
WP		WP3 - Solar to Heat conversion and storage





D1.2 Data Management Plan and Open Sourcing approach

Expected period	M1 – M30
Purpose and relation with SUNSON goals	Support of Task 3.4 - Synthesis and characterisation of the Phase Change Material (PCM) and crucible selection
FAIR	Findability Format: This dataset is stored in a set of images (.jpeg) from SEM/EDS and EMPA analyses of the fabricated PCMs and sessile drop couples. The selected representative images will be compiled into a Power Point Presentation (.ppt) Location: Sharepoint folder Containing fields: TBD Name convention followed: The results from each sample will be stored in a separate folder. The file's name convention will be as follows: date (in DD-MM-YYYY format)_chemistry of the PCM/unique sessile drop experiment number _optional comment Version numbering: General folder specifying the Microstructural characterization enclosing the previously folders mentioned.
	Accessibility Will it be openly available? Yes <u>Restrictions:</u> None
	Interoperability This dataset can be accessed and used by partners by logging in the SUNSON Teams group and accessing the SharePoint. It will be updated along the project duration with the results of the simulation performed with the alloys.
	Re-usability Data exchange and re-use ease: The results will be implemented in the execution of other tasks of SUNSON. Specifically, for a selection of the best materials design for the SUNSON-Box - Task 3.6. Engineering and fabrication of the PCM-TES system
Data security	During project duration, there will be implemented the data security approaches presented in the DMP. After the project, the results can be shared with other researchers to support their activities.
Ethical aspects	N/A
Other comments	N/A

SUNSON_Dataset_WP3_NTNU_Thermophysical properties	
Dataset Title	Experimental data from Thermophysical properties
Type of Data	Experimental
Short description	Results of Thermophysical properties measurements by laser flash (thermal conductivity) or DSC (latent heat) techniques. Part of T3.4 activities.
Responsible partner	NTNU
WP	WP3 - Solar to Heat conversion and storage
Expected period	M1 – M30
Purpose and relation with SUNSON goals	Support of Task 3.4 - Synthesis and characterisation of the Phase Change Material (PCM) and crucible selection





D1.2 Data Management Plan and Open Sourcing approach

FAIR	Findability	<p>Format: This dataset is stored in This dataset is stored in a spreadsheet (excel file '.xls.' or “.csv”) exported from laboratory devices along with images (.jpg files) graphically representing experimental data. The selected representative images will be compiled into a Power Point Presentation (.ppt)</p> <p>Location: Sharepoint folder</p> <p>Containing fields: TBD</p> <p>Name convention followed: The results from each measurement technique will be stored in a separate folder. The file’s name convention will be as follows: date (in DD-MM-YYYY format)_chemistry of the PCM_ number _optional comment</p> <p>Version numbering: General folder specifying the Thermophysical properties measurements enclosing the previously folders mentioned.</p>
	Accessibility	<p>Will it be openly available? Yes</p> <p><u>Restrictions:</u> None</p>
	Interoperability	<p>This dataset can be accessed and used by partners by logging in the SUNSON Teams group and accessing the SharePoint. It will be updated along the project duration with the results of the simulation performed with the alloys.</p>
	Re-usability	<p>Data exchange and re-use ease: The results will be implemented in the execution of other tasks of SUNSON. Specifically, for a selection of the best materials design for the SUNSON-Box - Task 3.6. Engineering and fabrication of the PCM-TES system</p>
Data security		<p>During project duration, there will be implemented the data security approaches presented in the DMP. After the project, the results can be shared with other researchers to support their activities.</p>
Ethical aspects		N/A
Other comments		N/A

SUNSON_Dataset_WP3_PSA_CSP-Sim		
Dataset Title	Data from the simulation of the optical components	
Type of Data	Simulation	
Short description	Results of simulation of the optical components of the SUNSON-BOX. Part of T3.1 activities.	
Responsible partner	PSA	
WP	WP3 - Solar to Heat conversion and storage	
Expected period	M1 – M15	
Purpose and relation with SUNSON goals	Preparation of design and fabrication of the solar-optical hardware components of the SUNSON-BOX.	
FAIR	Findability	<p>Format: This dataset is stored in a proprietary format of the simulation software (.oml). furthermore, as spreadsheet (excel file '.xls.').</p> <p>Location: Sharepoint folder</p> <p>Containing fields: Solar flux, power, energy, others TBD</p> <p>Name convention followed: SUNSON_Dataset_WP3_PSA_CSP-Sim_xxx with “xxx” being an identifier when additional discrimination is needed, e.g. for concentrator, absorber, etc.</p> <p>Version numbering: date in format YYYY/MM/DD</p>
	Accessibility	<p>Will it be openly available? Yes</p> <p><u>Restrictions:</u> None</p>





D1.2 Data Management Plan and Open Sourcing approach

	Interoperability	This dataset can be accessed and used by partners by logging in the SUNSON Teams group and accessing the SharePoint. It will be updated along the project duration with the results of the simulation performed with the solar concentrator.
	Re-usability	Data exchange and re-use ease: The results will be implemented in the execution of other tasks of SUNSON. Specifically, for a selection of the best optical design for the SUNSON-Box - Task 3.2. Engineering, fabrication and coupling of the CSP optics
Data security		During project duration, there will be implemented the data security approaches presented in the DMP. After the project, the results can be shared with other researchers to support their activities.
Ethical aspects		N/A
Other comments		N/A

SUNSON_Dataset_WP3_PSA_CSP-Test		
Dataset Title		Data from the solar tests of the optical components
Type of Data		Experimental
Short description		Results of solar tests of the optical components of the SUNSON-BOX simulated in T3.1 and fabricated in T3.2. Part of T3.3 activities.
Responsible partner		PSA
WP		WP3 - Solar to Heat conversion and storage
Expected period		M18 – M27
Purpose and relation with SUNSON goals		Validation of the solar-optical hardware components of the SUNSON-BOX. When successful, the components will be integrated into the SUNSON-BOX and tested in T5.4 and 5.5.
FAIR	Findability	Format: The raw data is stored in a spreadsheet (excel file '.xls.' or '.csv'). The accompanying test-protocol will be delivered as word file (.doc). Location: Sharepoint folder Containing fields: Date, Time, DNI, Meteo data, Shutter Position, Table Position (x,y,z), Radiometer Data, others (TBD) Name convention followed: SUNSON_Dataset_WP3_PSA_CSP-Test_YYYY/MM/DD Version numbering: date in format YYYY/MM/DD
	Accessibility	Will it be openly available? Yes <u>Restrictions:</u> None
	Interoperability	This dataset can be accessed and used by partners by logging in the SUNSON Teams group and accessing the SharePoint. It will be updated along the project duration with the results of the testing performed with the solar concentration facility.
	Re-usability	Data exchange and re-use ease: The results will be implemented in the execution of other tasks of SUNSON. Specifically, for the testing of complete SUNSON-Box - Task 5.4. Demonstration campaign (TRL4) and KPI evaluation.
Data security		During project duration, there will be implemented the data security approaches presented in the DMP. After the project, the results can be shared with other researchers to support their activities.
Ethical aspects		N/A
Other comments		N/A





D1.2 Data Management Plan and Open Sourcing approach

SUNSON_Dataset_WP3_IDE_PCM-TES_system_simulations		
Dataset Title	Data from the simulations of the PCM-TES system	
Type of Data	Simulation	
Short description	Results of simulations of the PCM-TES system of the SUNSON-BOX. Part of T3.5 activities.	
Responsible partner	IDE	
WP	WP3 - Solar to Heat conversion and storage	
Expected period	M1 – M15	
Purpose and relation with SUNSON goals	Simulation and optimisation of PCM-TES system design, including aspects such as sizing limitations, charge/discharge cycles characteristics and heat transference enhancement techniques.	
FAIR	Findability	Format: This dataset is stored in the proprietary format of the simulation software (.mph). Furthermore, as spreadsheet (Excel file .xlsx), as digital images (.png, .jpg) and GIFs (.gif). Location: Sharepoint folder Containing fields: electrical output power, PCM melt fraction, temperature gradients, others (TBD) Name convention followed: SUNSON_Dataset_WP3_IDE_PCM-TES_system_simulations Version numbering: date in format DD/MM/YYYY
	Accessibility	Will it be openly available? Yes <u>Restrictions:</u> Once publication of results is openly available in scientific journals
	Interoperability	This dataset can be accessed and used by partners by logging in the SUNSON Teams group and accessing the SharePoint. It will be updated along the project duration with the simulation results performed with the PCM-TES system.
	Re-usability	Data exchange and re-use ease: The results will be implemented in the execution of other tasks of SUNSON. Specifically, for a selection of the best PCM-TES design for the SUNSON-Box - Task 3.6. 'Engineering and fabrication of the PCM-TES'.
Data security	During project duration, there will be implemented the data security approaches presented in the DMP. After the project, the results can be shared with other researchers to support their activities.	
Ethical aspects	N/A	
Other comments	N/A	

SUNSON_Dataset_WP4_UPM_Simulation	
Dataset Title	Simulation of InGaAs cells
Type of Data	Simulation
Short description	Results of the simulations performed as part of the models developed in T4.1. Those models are expected to simulate the performance of InGaAs cells with different semiconductor layers and contact configurations.
Responsible partner	UPM
WP	WP 4
Expected period	M1- M15
Purpose and relation with SUNSON goals	Provide an optimized design for metal wrap through (MWT) InGaAs TPV cell





D1.2 Data Management Plan and Open Sourcing approach

FAIR	Findability	Format: This dataset is stored in a spreadsheet (excel file '.xls' or '.csv') or image ('.pdf' or '.jpeg'). Location: Sharepoint folder Containing fields: Simulation parameters of InGaAs TPV cells Name convention followed: SUNSON_Dataset_WP4_UPM_Simulation_YYYY/MM/DD. Version numbering: date in format YYYY/MM/DD
	Accessibility	Will it be openly available? Yes <u>Restrictions</u> : Once publication of results is openly available in scientific journals
	Interoperability	The results will be used in the execution of other tasks of SUNSON. For example, selecting the best epitaxy for task 4.2.
	Re-usability	No reusability allowed, except if permission is explicitly granted.
Data security	During project duration, there will be implemented the data security approaches presented in the DMP. After the project, the results can be shared with other researchers to support their activities.	
Ethical aspects	N/A	
Other comments	N/A	

SUNSON_Dataset_WP4_UPM_Epitaxy		
Dataset Title	Epitaxy of InGaAs wafers	
Type of Data	Experimental	
Short description	Design of the InGaAs cells containing the thickness and doping level of every semiconductor layer. This is one of the results from Task 4.2 (TPV cells fabrication).	
Responsible partner	UPM	
WP	WP 4	
Expected period	M1- M15	
Purpose and relation with SUNSON goals	Provide the epitaxial growth of InGaAs TPV cells	
FAIR	Findability	Format: This dataset is stored in a spreadsheet (excel file '.xls.'). Location: Sharepoint folder Containing fields: Epitaxy details (doping and thickness) of InGaAs TPV cells Name convention followed: SUNSON_Dataset_WP4_UPM_Epitaxy_YYYY/MM/DD. Version numbering: date in format YYYY/MM/DD
	Accessibility	Will it be openly available? Yes <u>Restrictions</u> : Once publication of results is openly available in scientific journals
	Interoperability	Data exchange and re-use ease: The results will be used in the execution of other tasks of SUNSON. For example, selecting the best epitaxy for task 4.3.
	Re-usability	No reusability allowed, except if permission is explicitly granted.
Data security	During project duration, there will be implemented the data security approaches presented in the DMP. After the project, the results can be shared with other researchers to support their activities.	
Ethical aspects	N/A	





D1.2 Data Management Plan and Open Sourcing approach

Other comments	N/A
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SUNSON_Dataset_WP4_UPM_Processing		
Dataset Title	Processing of InGaAs wafers	
Type of Data	Experimental	
Short description	Recipe containing all the steps required to fabricate metal wrap through (MWT) InGaAs TPV cell (photolithography, metallization, wet etchings, etc.). This is one of the results from Task 4.2 (TPV cells fabrication).	
Responsible partner	UPM	
WP	WP 4	
Expected period	M1- M15	
Purpose and relation with SUNSON goals	Provide MWT InGaAs TPV cells	
FAIR	Findability	Format: This dataset is stored in a wordfile ('.doc' or '.pdf'). Location: Sharepoint folder Containing fields: Processing steps of InGaAs TPV Cells Name convention followed: SUNSON_Dataset_WP4_UPM_Processing_YYYY/MM/DD. Version numbering: date in format YYYY/MM/DD
	Accessibility	Will it be openly available? Yes <u>Restrictions</u> : Once publication of results is openly available in scientific journals
	Interoperability	The results will be used in the execution of other tasks of SUNSON. For example, selecting the best devices for task 4.3.
	Re-usability	No reusability allowed, except if permission is explicitly granted.
Data security	During project duration, there will be implemented the data security approaches presented in the DMP. After the project, the results can be shared with other researchers to support their activities.	
Ethical aspects	N/A	
Other comments	N/A	

SUNSON_Dataset_WP4_UPM_DeviceCharacterization		
Dataset Title	Characterization of InGaAs TPV cells	
Type of Data	Experimental	
Short description	Document containing the results obtained with different characterization techniques (Current-Voltage, Quantum Efficiency, TPV efficiency, Reflectance, etc.). This is one of the results from Task 4.2 (TPV cells characterization).	
Responsible partner	UPM	
WP	WP 4	
Expected period	M1- M15	
Purpose and relation with SUNSON goals	Provide >1 W/cm ² at 1200°C and conversion efficiency >25%.	
FAIR	Findability	Format: This dataset is stored in a word file ('.doc' or '.pdf'), spreadsheet (excel file '.xls') or Power Point ('.pptx'). Location: Sharepoint folder





D1.2 Data Management Plan and Open Sourcing approach

	Containing fields: Current-Voltage, Quantum Efficiency, TPV efficiency, Reflectance, etc. Name convention followed: SUNSON_Dataset_WP4_UPM_DeviceCharacterization_CellName. Version numbering: CellName
Accessibility	Will it be openly available? Yes <u>Restrictions:</u> Once publication of results is openly available in scientific journals
Interoperability	The results will be used in the execution of other tasks of SUNSON. For example, selecting the best devices for task 4.3.
Re-usability	No reusability allowed, except if permission is explicitly granted.
Data security	During project duration, there will be implemented the data security approaches presented in the DMP. After the project, the results can be shared with other researchers to support their activities.
Ethical aspects	N/A
Other comments	N/A

SUNSON_Dataset_WP4_UPM_ModuleCharacterization	
Dataset Title	Characterization of TPV modules
Type of Data	Experimental
Short description	Document containing the results obtained with a flash-light tester (Current-Voltage curves). This is one of the results from Task 4.3 (TPV generator module characterization).
Responsible partner	UPM
WP	WP 4
Expected period	M15- M30
Purpose and relation with SUNSON goals	Provide a module containing at least 10 interconnected cells.
FAIR	Findability Format: This dataset is stored in a spreadsheet (excel file '.xls'). Location: Sharepoint folder Containing fields: Current-Voltage curves Name convention followed: SUNSON_Dataset_WP4_UPM_ModuleCharacterization_ModuleName. Version numbering: ModuleName
	Accessibility Will it be openly available? Yes <u>Restrictions:</u> Once publication of results is openly available in scientific journals
	Interoperability Data exchange and re-use ease: The results will be used in the execution of other tasks of SUNSON. For example, selecting the best modules for task 4.5.
	Re-usability No reusability allowed, except if permission is explicitly granted.
Data security	During project duration, there will be implemented the data security approaches presented in the DMP. After the project, the results can be shared with other researchers to support their activities.
Ethical aspects	N/A
Other comments	N/A

SUNSON_Dataset_WP4_UPM_PreliminaryTesting	
Dataset Title	Preliminary testing of TPV module





D1.2 Data Management Plan and Open Sourcing approach

Type of Data	Experimental	
Short description	Document containing the output electric power generated by the TPV modules and the heat that flows out from the modules as a function of the emitter temperature. This is the results from Task 4.5.	
Responsible partner	UPM	
WP	WP 4	
Expected period	M18- M27	
Purpose and relation with SUNSON goals	Iterative improvement of the SUNSON-Box and the TPV modules.	
FAIR	Findability	Format: This dataset is stored in a spreadsheet (excel file '.xls'). Location: Sharepoint folder Containing fields: Electrical power, heat flux, emitter temperature. Name convention followed: SUNSON_Dataset_WP4_UPM_PreliminaryTesting_Conditions. Version numbering: Conditions
	Accessibility	Will it be openly available? Yes <u>Restrictions</u> : Once publication of results is openly available in scientific journals
	Interoperability	Data exchange and re-use ease: The results will be used in the execution of WP5 and to feed the SUNSON Tool WP2.
	Re-usability	No reusability allowed, except if permission is explicitly granted.
Data security	During project duration, there will be implemented the data security approaches presented in the DMP. After the project, the results can be shared with other researchers to support their activities.	
Ethical aspects	N/A	
Other comments	N/A	

SUNSON_Dataset_WP4_UPM_SunsonBoxEmulator		
Dataset Title	Box emulator	
Type of Data	Design parameters, draft, schemes and technical documentation	
Short description	Document containing the mechanical design of the SUNSON-Box emulator system. This is one of the results from Task 4.4.	
Responsible partner	IONVAC	
WP	WP 4	
Expected period	M4- M18	
Purpose and relation with SUNSON goals	Design of the SUNSON-BOX emulator system	
FAIR	Findability	Format: This dataset is stored in a spreadsheet (CAD file '.dxf' or '.stp'). Location: Sharepoint folder Containing fields: Design of the Box emulator Name convention followed: SUNSON_Dataset_WP4_UPM_SunsonBoxEmulator_XXX. Version numbering: xxx
	Accessibility	Will it be openly available? No <u>Restrictions</u> : This dataset is not publicly available and will be available to beneficiaries through project intranet (TEAMS), email, and the results derived will feed the associated Dv.





D1.2 Data Management Plan and Open Sourcing approach

		<u>Justification</u> : Sensitive and confidential data, potential to be exploited.
	Interoperability	Data exchange and re-use ease: The results will be used in the execution of task 4.5.
	Re-usability	No reusability allowed, except if permission is explicitly granted.
Data security		During project duration, there will be implemented the data security approaches presented in the DMP. After the project, the results can be shared with other researchers to support their activities.
Ethical aspects		N/A
Other comments		N/A

SUNSON_Dataset_WP5_PSA_CSP-Test		
Dataset Title	Data from the solar tests of the SUNSON-Box	
Type of Data	Experimental	
Short description	Results of solar tests of the complete SUNSON-Box designed, built, and assembled in T5.1, 5.2, and 5.3. Part of T5.4 and 5.5 activities.	
Responsible partner	PSA	
WP	WP5 - Flagship Demonstration	
Expected period	M32 – M42	
Purpose and relation with SUNSON goals	Validation of the entire SUNSON-Box hardware. The results are the primary outcome of the SUNSON project in terms of hardware.	
FAIR	Findability	Format: The raw data is stored in a spreadsheet (excel file '.xls.' or '.csv'). The accompanying test-protocol will be delivered as word file (.doc). Location: Sharepoint folder Containing fields: Date, Time, DNI, Meteo data, Shutter Position, Temperatures, Pressures, Flow Rates, Voltages, Currents, others (TBD) Name convention followed: SUNSON_Dataset_WP5_PSA_CSP-Test_YYYY/MM/DD Version numbering: date in format YYYY/MM/DD
	Accessibility	Will it be openly available? Yes <u>Restrictions</u> : Once upon its publication in scientific journals with OA.
	Interoperability	This dataset can be accessed and used by partners by logging in the SUNSON Teams group and accessing the SharePoint. It will be updated along the project duration with the results of the testing performed with the solar concentration facility.
	Re-usability	Data exchange and re-use ease: The results will be implemented in the execution of other tasks of SUNSON. Specifically, for the refining of the SUNSON-Tool - Task 5.5. Fine-tuning, upgrading and success case.
Data security	During project duration, there will be implemented the data security approaches presented in the DMP. After the project, the results can be shared with other researchers to support their activities.	
Ethical aspects	N/A	
Other comments	N/A	

SUNSON_Dataset_WP6_HOLOSS_LCA_Environmental	
Dataset Title	Environmental impact assessment
Type of Data	Environmental modelling





D1.2 Data Management Plan and Open Sourcing approach

Short description	Results of the environmental dimension performed as part of the models developed in T6.1. Results aim to examine the potential environmental impacts of SUNSON solutions using ISO14040/14044 methodology.
Responsible partner	HLOSS
WP	WP6 – Sustainability and TEA assessment
Expected period	M01– M40
Purpose and relation with SUNSON goals	Prove a significant reduction in GHG towards nearly zero-emission energy generation by means of life cycle studies
FAIR	Findability Format: This dataset is stored in a spreadsheet (excel file '.xls.' or “.csv”). Location: Sharepoint folder Containing fields: raw materials consumption, midpoints indicators such as carbon footprint, metal depletion and fossil depletion. Name convention followed: Potential environmental impacts of SUNSON solutions Version numbering: General folder specifying the version of the results.
	Accessibility Will it be openly available? <i>NO</i> Restrictions: This dataset is not publicly available and will be available to beneficiaries through project intranet (TEAMS), email, whenever it is necessary. The results derived will feed the associated Dv to the task, from which D6.6 is Public and presents the main conclusions of the analyses. Justification: on exploitation routes, confidential technical data will be examined.
	Interoperability Data exchange and re-use ease: The results will be implemented in the execution of other tasks of SUNSON. For example, T6.4
	Re-usability This dataset can be accessed and used by partners by logging in the SUNSON Teams group and accessing the SharePoint. It will be updated as prototype development proceeds during the course of the project.
Data security	During project duration, there will be implemented the data security approaches presented in the DMP. After the project, the findings might be distributed to other researchers to aid in their work.
Ethical aspects	N/A
Other comments	N/A

SUNSON_Dataset_WP6_HLOSS_LCA_Economic	
Dataset Title	Economic impact assessment
Type of Data	Economic modelling
Short description	Results of the economic dimension performed as part of the models developed in T6.1. Results aim to examine the potential economic impacts of SUNSON solutions in line with ISO14040/14044 methodology.
Responsible partner	HLOSS
WP	WP6 – Sustainability and TEA assessment
Expected period	M01– M40
Purpose and relation with SUNSON goals	Evaluate the developed system techno-economic viability





D1.2 Data Management Plan and Open Sourcing approach

FAIR	Findability	Format: This dataset is stored in a spreadsheet (excel file '.xls.' or “.csv”). Location: Sharepoint folder Containing fields: cost raw materials, cost of capital goods (machinery, facilities), cost of utilities (e.g., energy, water). Net Present Value (NPV) and the equivalent annual cost (EAC). Name convention followed: Potential economic impacts of SUNSON solutions Version numbering: General folder specifying the version of the results.
	Accessibility	Will it be openly available? NO Restrictions: This dataset is not publicly available and will be available to beneficiaries through project intranet (TEAMS), email, whenever it is necessary. The results derived will feed the associated Dv to the task, from which D6.6 is Public and presents the main conclusions of the analyses. Justification: on exploitation routes, confidential technical data will be examined.
	Interoperability	Data exchange and re-use ease: The results will be implemented in the execution of other tasks of SUNSON. For example, T6.4.
	Re-usability	This dataset can be accessed and used by partners by logging in the SUNSON Teams group and accessing the SharePoint. It will be updated as prototype development proceeds during the course of the project.
Data security		During project duration, there will be implemented the data security approaches presented in the DMP. After the project, the findings might be distributed to other researchers to aid in their work.
Ethical aspects		N/A
Other comments		N/A

SUNSON_Dataset_WP6_HOLOSS_LCA_Social		
Dataset Title	Social impact assessment	
Type of Data	Social modelling	
Short description	Results of the social dimension performed as part of the models developed in T6.2. Results aim to examine the potential economic impacts of SUNSON solutions in line with ISO14040/14044 methodology.	
Responsible partner	HOLOSS	
WP	WP6 – Sustainability and TEA assessment	
Expected period	M01– M40	
Purpose and relation with SUNSON goals	Evaluate the developed system techno-economic viability	
FAIR	Findability	Format: This dataset is stored in a spreadsheet (excel file '.xls.' or “.csv”). Location: Sharepoint folder Containing fields: forced labour, working time, health and safety indicators. Name convention followed: Potential economic impacts of SUNSON solutions Version numbering: General folder specifying the version of the results.
	Accessibility	Will it be openly available? NO Restrictions: This dataset is not publicly available and will be available to beneficiaries through project intranet (TEAMS), email, whenever it is necessary. The results derived will feed the associated Dv to the task, from which D6.6 is Public and presents the main conclusions of the analyses.





D1.2 Data Management Plan and Open Sourcing approach

		Justification: on exploitation routes, confidential technical data will be examined.
	Interoperability	Data exchange and re-use ease: The results will be implemented in the execution of other tasks of SUNSON. For example, T6.4.
	Re-usability	This dataset can be accessed and used by partners by logging in the SUNSON Teams group and accessing the SharePoint. It will be updated as prototype development proceeds during the course of the project.
Data security		During project duration, there will be implemented the data security approaches presented in the DMP. After the project, the findings might be distributed to other researchers to aid in their work.
Ethical aspects		personal data protection (if required)
Other comments		N/A

SUNSON_Dataset_WP6_IDE_Exergy_Analysis		
Dataset Title	Exergy, energy, and techno-economic analysis	
Type of Data	Derived.	
Short description	Results of the exergy analysis of the SUNSON-Box to analyse its efficiency from a thermodynamic point of view, broadening the scope and complementing the LCC from task T6.1 with production and energetic costs.	
Responsible partner	IDE	
WP	WP6 – Sustainability and TEA assessment	
Expected period	M01 – M40	
Purpose and relation with SUNSON goals	Evaluate the developed system techno-economic viability. Support of tasks T6.4 and T7.4	
FAIR	Findability	Format: This dataset is stored in a spreadsheet (excel file '.xls.' or “.csv”). Location: SharePoint folder Containing fields: energy flows, exergy flows, energy costs, exergy costs, exergy efficiencies, others TBD. Name convention followed: Exergy analysis of SUNSON solutions Version numbering: General folder specifying the version of the results
	Accessibility	Will it be openly available? No, <u>Restrictions:</u> This dataset is not publicly available and will be available to beneficiaries through project intranet (TEAMS), email, whenever it is necessary. The results derived will feed the associated D to the task, which D6.4 is Public and presents the main conclusions of the analyses. <u>Justification:</u> due to confidentiality issues, especially regarding sensitive techno-economic data.
	Interoperability	The results will be implemented in the execution of other tasks of SUNSON. Specifically, for the holistic interpretation and integration of SUNSON results in T6.4 and the replicability analysis of SUNSON solutions of Task T7.4
	Re-usability	This dataset can be accessed and used by partners by logging in the SUNSON Teams group and accessing the SharePoint. It will be updated as prototype development proceeds during the course of the project.
Data security	During project duration, there will be implemented the data security approaches presented in the DMP. After the project, the results can be shared with other researchers to support their activities.	
Ethical aspects	N/A	





D1.2 Data Management Plan and Open Sourcing approach

Other comments	N/A
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SUNSON_Dataset_WP7_IDE_Stakeholders list		
Dataset Title	Data list of the identified stakeholders for SUNSON innovations	
Type of Data	Information	
Short description	A list with the identified stakeholders, contact and relevant data for exploitation, dissemination and communications of results, related to WP7.	
Responsible partner	IDE	
WP	WP7 – Dissemination, Communication and Exploitation	
Expected period	M24 – M42	
Purpose and relation with SUNSON goals	Stakeholders information to exploit, disseminate and communicate the project. Also, contact to invite them to the SUNSON workshops and events.	
FAIR	Findability	Format: data is stored in a spreadsheet (excel file '.xls.') and/or word file (.doc) Location: Sharepoint folder Containing fields: Stakeholder name, company, sector, contact, interests, events attending, type of relationship, market sector and company info. Name convention followed: SUNSON_Dataset_WP7_IDE- Stakeholders list_YYYY/MM/DD Version numbering: date in format YYYY/MM/DD
	Accessibility	Will it be openly available? <i>No, only for internal use</i> <u>Restrictions:</u> It may content some GDPR
	Interoperability	This dataset can be accessed and used by partners by logging in the SUNSON Teams group and accessing the SharePoint. It will be updated along the project duration resulting from the T7.1, T7.2 and T7.3 activities.
	Re-usability	Data exchange and re-use ease: For preparation of events and exploitation reports within WP7.
Data security	During project duration, there will be implemented the data security approaches presented in the DMP. After the project, the results can be shared with other researchers to support their activities.	
Ethical aspects	Applicable international, EU and national law in particular, Regulation (EU) 2016/679 of the European Parliament: General Data Protection Regulation	
Other comments	N/A	

SUNSON_Dataset_WP7_IDE_Dissemination and Communication materials	
Dataset Title	All material (articles, text, news, videos, figures) that becomes public through dissemination, training and communications actions for SUNSON innovations
Type of Data	Communication, dissemination and training materials
Short description	A list with the identified stakeholders, contact and relevant data for exploitation, dissemination and communications of results, related to WP7.
Responsible partner	IDE
WP	WP7 – Dissemination, Communication and Exploitation
Expected period	M1 – M42
Purpose and relation with SUNSON goals	Communication tools and materials, dissemination publications, training webinars to disseminate and communicate the project.





D1.2 Data Management Plan and Open Sourcing approach

FAIR	Findability	<p>Format: various formats depending on the material (document .doc; physical and digital materials .pdf; videos .mpg, .mp4, .avi; pictures .jpeg, .jpg, .png, .tiff, .gif)</p> <p>Location: Sharepoint folder available for all partners, SUNSON website, CORDIS, Zenodo for the scientific community.</p> <p>Containing fields: Stakeholder name, company, sector, contact, interests, events attending, type of relationship, market sector and company info.</p> <p>Name convention followed: SUNSON_Dataset_WP7_IDE Dissemination and Communication materials_YYYY/MM/DD</p> <p>Version numbering: date in format YYYY/MM/DD</p>
	Accessibility	<p>Will it be openly available? Yes</p> <p><u>Restrictions:</u> IPR will be considered when openly publish figures, videos, schemes of the SUNSON innovations, not to interfere with potential patents or other exploitation interests. GDPR regulations are also considered and permission for publication is asked for consent to the involved partners.</p>
	Interoperability	<p>This dataset can be accessed and used by partners by logging in the SUNSON Teams group and accessing the SharePoint. It will be updated along the project duration resulting from the T7.1, T7.2 and T7.3 activities. The content for the SUNSON-Tool will be discussed with the WP2 leader.</p>
	Re-usability	<p>Data exchange and re-use ease: For preparation of events and exploitation reports within WP7.</p>
Data security	<p>The data will be developed for PUBLIC use in the project execution and will be stored and available in public channels such as the website, social media, press releases, scientific journals, conference proceedings, YouTube and the SUNSON-Tool.</p>	
Ethical aspects	<p>Applicable international, EU and national law in particular of Horizon Europe proposals, all marked with EC emblem and disclaimer. Regulation (EU) 2016/679 of the European Parliament: General Data Protection Regulation. IPR will be considered when openly publish figures, videos, schemes of the SUNSON innovations, not to interfere with potential patents or other exploitation interests.</p>	
Other comments	N/A	

SUNSON_Dataset_WP7_IDE_SRA	
Dataset Title	Data from replicability analysis
Type of Data	Derived
Short description	A list of results derived from the Scalability and Replicability Analysis performed during task T7.4 using the SUNSON-Tool.
Responsible partner	IDE
WP	WP7 – Dissemination, Communication and Exploitation
Expected period	M01 – M42
Purpose and relation with SUNSON goals	Increase the application range of SUNSON solutions to other production scales and areas such as electricity storage, hydrogen production and industrial process heat.





D1.2 Data Management Plan and Open Sourcing approach

FAIR	Findability	<p>Format: This dataset is stored in a spreadsheet (excel file '.xls.' or “.csv”). Location: SharePoint folder Containing fields: Thermal-to-electric conversion efficiency, solar-to-thermal conversion efficiency, overall solar-to-electric conversion efficiency, economic factors (i.e. CAPEX, CAPEX, ...); others . Name convention followed: Scalability and Replicability Analysis of SUNSON solutions SUNSON_Dataset_WP7_IDE- SRA Version numbering: version of the results in date mode YYYY/MM/DD</p>
	Accessibility	<p>Will it be openly available? No, but the results derived from it will be presented in D7.4 (PU) and presents the main conclusions of the analyses. <u>Restrictions:</u> This dataset is not publicly available and will be available to beneficiaries through project intranet (TEAMS), email, whenever it is necessary. The results derived will feed the associated D to the task. <u>Justification:</u> due to confidentiality issues, especially regarding sensitive techno-economic data.</p>
	Interoperability	<p>The results will be implemented in the execution of other tasks of SUNSON. Specifically, for the holistic interpretation and integration of SUNSON results in T6.4 and the replicability analysis of SUNSON solutions of Task T7.4</p>
	Re-usability	<p>This dataset can be accessed and used by partners by logging in the SUNSON Teams group and accessing the SharePoint. It will be updated as prototype development proceeds during the course of the project.</p>
Data security	<p>During project duration, there will be implemented the data security approaches presented in the DMP. After the project, the results can be shared with other researchers to support their activities.</p>	
Ethical aspects	N/A	
Other comments	N/A	





9 Annex II – GDPR Consent form

CONSENT FORM

Responsible: IDENER, as Dissemination, Exploitation and Communication manager, will produce a set of communications resources and materials for the SUNSON project.

Purpose: we would like to share your names, entity affiliation, pictures and videos in our communications to increase visibility and impact, as well as, for internal project management. It helps to demonstrate the results and the progress of our work.

Legitimation: Processing and use of data necessary for the professional activity legitimised by the EU General Data Protection Regulation*.

Data addressees and duration: By accepting this form, you permit us to use your data/visual material in our open communications for the project's duration (in principle, planned for 42 months, from December 2022 to June 2026), and for as long as the project website, SUNSON-Tool and communication channels remain active after the project ends (min. 1 year).

Full name	
Job position	
Institution	
Country	
Email	

What will the data/visual material be used for?

The consent will allow the publication in the following sources:

-**Presentations:** SUNSON internal and external presentations

-**Websites and communications tools:** SUNSON website and/or intranet, *SUNSON-Tool, DEC-ITC package*

-**Social media:** SUNSON social media pages [*Twitter, LinkedIn, YouTube or similar*]

-**Publications:** SUNSON leaflets, posters, roll-ups, videos, newsletters and other marketing materials

-**Print and online media:** National, regional and local papers; magazines and news sites

-**Television and radio:** National and regional television; national, regional and local radio

Can I remain anonymous?

Please tick this box if you DO NOT want to be featured in imagery or video footage

Are there any identifying features/sources you DO NOT want to be included in our communications work?

Please let us know if there are any ways in which you do NOT wish to be represented or described:

Consent agreement:

Please sign this form to confirm your agreement and to permit your data to be used by SUNSON consortium for the above purposes. Thank you for being so helpful!

Signature:

Date:

***General Data Protection Regulation (GDPR):** The information, personal data, and visual materials provided will strictly be used for professional purposes in our communications work. We will not circulate this form to any other organisation outside the SUNSON consortium without your permission. Furthermore, we will not store your data for longer than the duration of the project implementation. You have rights to access, modify or suppress de data share. You have the right to withdraw consent at any time, by contacting SUNSON coordination and IDENER (info@idener.es).

Find additional information in <https://gdpr.eu/>

