SUSNANOFAB

Grant Agreement No. 882506

Data Management Plan

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Abbreviations and Acronyms

Acronym	Description
API	Application Programming Interfaces
ARD	API Reference Documentation
DMP	Data Management Plan
GDPR	EU General Data Protection Regulation
ORDP	Open Research Data Pilot
SDK	Software Development Kit
WP	Work Package

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Contents

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Executive Summary

This document is a deliverable of the SUSNANOFAB project - Integrated EU Strategy, Services and International Coordination Activities for the Promotion of Competitive and Sustainable Nanofabrication Industry, which is funded by the European Union's Horizon 2020 Programme under Grant Agreement #882506.

Nanofabrication has the potential to address major socio-economic challenges, from better and affordable health care to cleaner energy and transports, improved consumer goods and higher living standards. Nanofabrication enables the production of multifunctional devices with unique properties for a vast range of applications, thus having a profound impact on a multitude of industrial sectors. The SUSNANOFAB project proposes an integrated strategy at a European Level that articulates the whole value-chain, aiming at the promotion of a competitive and sustainable nanofabrication industry.

This deliverable is performed in WP1 – Project Management, which general objective is to efficiently manage and coordinate the project and consortium to ensure the progress of the project towards its goals. WP1 specific objectives are:

- To provide efficient management and administration of the project, while fulfilling all legal and EC requirements.
- To overall coordinate the Work Packages to monitor the progress of the project in completing tasks and achieving deliverables and milestones.
- To manage the communication between all stakeholders.
- To provide effective data management.

The purpose of this document is to provide a plan for managing the data processed during the project life time and beyond. The DMP will describe the data management cycle for all the datasets to be processed under the project.

Following the EU´s guidelines regarding the DMP, this document may be updated - if appropriate - during the project lifetime.

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1. Introduction

This document is the Deliverable 1.1 "D1.1 – Data Management Plan" (henceforth referred to as D1.1) of the SUSNANOFAB project. The main objective is to provide the plan for managing all da data processed under the scope of the project. The SUSNANOFAB project participates in the Open Research Data Pilot (ORDP), which enables open access and reuse of research data generated by Horizon 2020 projects.

The DMP will describe the data management cycle for all the datasets to be processed under the project, and will cover:

- The purpose of the data processed and its relation to the objectives of the project.
- The types and formats of data that will be processed by the project.
- The re-use of existing data and the procedures for the re-use.
- The origin of the data.
- The handling of data during and after the project.
- The methodology and standards to be applied to the data management

The document is structured as the following:

- Section 2 describes the summary of the datasets processed under the project.
- Section 3 describes the FAIR data principles applied to the project.
- Section 4 presents the methodology used to create the DMP plans regarding the data processed within the project, including data acquisition, data storage and backup, and data categories and taxonomies.
- Section 5 describes the provisions adopted for data security standards.
- Section 6 describe the provisions and adopted measures for the processing of personal information in the project implementation.
- Section 7 draws conclusions and sets future goals.

2. Data Summary

The SUSNANOFAB Project will generate and process a significant set of data. Most of the data processed under the project will serve the SUSNANOFAB Digital Platform and the integrated map of relevant stakeholders and their linkages to existing initiatives, infrastructures and services. The overview of the datasets is listed in table 1 below. The list is indicative and allows estimating the data that the SUSNANOFAB will process. The list may be adapted (adding or removing datasets) in the course of the project.

#	Dataset	Origin	WP	Format
1	SUSNANOFAB Stakeholders contacts database	Primary data	5	.xls
2	SUSNANOFAB Digital Platform users database	Primary data	5	.xls
3	Survey data	Primary data	2 and 5	.xls and .txt
4	Interview data	Primary data	2	.xls and .txt
5	EPPN pilots data	Publicly available data	2 and 5	.xls
6	EPPN Platform users data	Secondary data	5	.xls
7	H2020 Nanotech-based data	Publicly available data	2 and 5	.xls
8	Digital Innovation Hubs data	Publicly available data	2 and 5	.xls
9	KETs Mapping data	Publicly available data	2 and 5	.xls
10	Funding opportunities data	Publicly available data	2 and 5	.xls

Table 1 - Datasets overview

There are three types of origin of data identified in the datasets processed by the SUSNANOFAB:

Primary data: means original data collected by the project partners for a specific purpose.

Secondary data: means data that has been captured for another purpose than the purpose that is being used. Secondary data are data that is being reused, usually in a different context.

Publicly available data: means information publicly available, which can be freely accessed, used and reused.

Table 2 includes a detailed description and the purpose for processing each dataset.

#	Dataset	Description and Purpose
1	SUSNANOFAB Stakeholders contacts database	**Description**: Contact data from the stakeholders of the SUSNANOFAB Project, including first and last name and e-mail address. **Purpose**: the purpose of processing data under this operation is the subscription of the project´s newsletter to communicate publications, events and other activities from the SUSNANOFAB project, which may include the promotion of services, contests, innovation and technology transfer, participation in surveys and questionnaires and other communication and dissemination activities.
2	SUSNANOFAB Digital Platform users database	**Description**: To be part of the SUSNANOFAB network, it will be necessary to create a user account. Following the principle of data minimization, the minimum personal data will be requested at this stage. User data for the registration that will be mandatory are: First and last name, e-mail account and country. Additional data that can be completed by the users are: date of birth, gender, city, phone number, picture, and other information to complete the personal profile, such as education, skills and work experiences information, which can be made public or not, depending on the user preferences. **Purpose**: The purpose of processing data under this operation is to provide users with the possibility to operate, manage, maintain and enhance the SUSNANOFAB Platform. The purposes also include providing users access to the project's activities, publications, announcements of events, services and contests, and participation in surveys and other activities related to the nanofabrication ecosystem.
3	Survey data	**Description**: Data collected in a survey regarding users' needs and preferences for the development of a comprehensive and robust nanofabrication based platform. **Purpose**: The main purpose of the data collected in the survey is to develop the Report on the User Requirements of the Digital Platform, which will set the basis of the structure, functionalities, databases and documents to be available in the repository of the SUSNANOFAB Platform. This is part of a co-creation process with stakeholders, aiming to provide a unique and centralized tool that combines all the relevant

		nanofabrication data spread in different sources and make it available in an open and interoperable format.
4	Interview data	**Description**: Data collected in interviews with experts in the nanofabrication ecosystem to identify the most relevant opportunities for the integration of nanofabrication to the new European high-value industrial ecosystem. **Purpose**: The main purpose of processing the interview data is to identify the drivers and challenges that affect the integration of nanobased solutions, including economical, technological, societal and policy and regulatory factors. The purpose also includes the identification of exemplary products and/or services types that integrates nanotechnology. The final result of the interview data will contribute to the development of a Map of the nanofabrication landscape and a list of exemplary products.
5	EPPN pilots data	**Description**: Data from EU funded pilot projects and other initiatives classified according to six different categories defined under the Value Chain classification adopted by the EPPN Project: 1. Registry information: the contact data to identify, locate an communicate with the pilot plant 2. Market data: information regarding the main market(s) actually targeted by the pilot plant 3. Product data: to identify which is the pilot output in terms of products, but also the pilot inputs. 4. Process data: information on the process involved in the pilot plant 5. Value data: definition of the overall business model of the pilot plant and related IP 6. Side Capabilities: Identification of the ancillary activities supporting the pilot plant such as market analysis, LCA, Characterization etc. **Purpose**: The purpose of re-using the data collected in the EPPN platform is to capitalise on the outcome of the project and strengthen the technology uptake across Europe in an open data ecosystem, where access to relevant and dynamic nanofabrication data is provided.
6	EPPN Platform users data	**Description**: Registration data from users of the EPPN Platform may be re-used to create a SUSNANOFAB user account, if the user agrees on. To capitalise the EPPN users, bringing the ones interested in the nanofabrication ecosystem to the SUSNANOFAB Platform. The portability of data will be available.

		Purpose: The purpose of re-use registration data of the EPPN Platform is to facilitate the access to the SUSNANOFAB Platform and enhance the stakeholders' network.
7	H2020 Nanotech-based data (CORDIS)	**Description**: Data from the CORDIS database screened to provide the EU funded projects in the nanofabrication field. **Purpose**: To provide the users of the platform relevant information on nanobased EU funded projects.
8	Digital Innovation Hubs data (Digital Innovation Hubs Catalogue)	**Description**: Data collected from the Digital Innovation Hubs Catalogue of Competence Centers that provide infrastructures and services in the nanofabrication area. **Purpose**: To provide relevant information on infrastructures and services in the nanofabrication ecosystem to the SUSNANOFAB stakeholders.
9	KETs Mapping data (KETs tool)	**Description**: Data of KETs Technology Centers across Europe. **Purpose**: To provide relevant information on infrastructures and services in the nanofabrication ecosystem to the SUSNANOFAB stakeholders. Also, to centralize all the relevant information of infrastructures that provide nanofabrication solutions in a central point, the SUSNANOFAB Platform.
10	Funding opportunities data (EU Funding and Tender Opportunities)	**Description**: Data of funding opportunities from the EU funding & tender opportunities portal in the nanofabrication area, mainly focused on grants under the Horizon 2020 Framework Programme. **Purpose**: To make available to the SUSNANOFAB stakeholders relevant information on funding opportunities in the nanofabrication ecosystem, aiming at fostering networking and collaboration among the network.

Table 2 - Datasets description and purpose

3. FAIR Data Management

The Data Management Plan is a key element for a good data management in a project. This DMP is based on the guidelines from the European Commission on FAIR Data Management in Horizon 2020[1]. FAIR stands for findable, accessible, interoperable and re-usable.

The SUSNANOFAB Project will generate and process a significant amount of data. The generation and processing of these datasets will be collaborative among all the partners in the consortium.

This DMP will identify and categorize the type of data that will be processed under the scope of the SUSNANOFAB Project. Processing of data means all the operations performed on data, including by manual or automated means. It includes the collection, recording, structuring, storage, alteration, consultation, use, disclosure, alignment, restriction, erasure or destruction of data.

3.1 Making data findable, including provisions for metadata

One of the main goals of the SUSNANOFAB project is the development of an Open Digital Platform to provide a unique and centralized tool that combines all the relevant nanofabrication data spread from different sources and make it available to all interested parties in an open and interoperable format.

Metadata means "data about data". It is structured information that describes, explains, locates, or otherwise makes it easier to retrieve, use, or manage an information resource[2]. The adoption of a good metadata management will ensure the project keeps the quality of data, so users know it can be trusted.

To achieve that, a good management of all datasets is mandatory, including the harmonisation of categorisation and taxonomy of data. SUSNANOFAB will adopt the taxonomy standards available to build its datasets, combining the work previously developed in the EPPN Project with other EU current standards from EU organisations, such as EUROSTAT, EU DG-GROW and NACE codes.

The datasets processed by the SUSNANOFAB will have appropriated metadata compiled, which will provide a summary of the characteristics of a dataset. A good metadata record enables the user of a dataset or other information resource to

[1] H2020 Programme Guidelines on FAIR Data Management in Horizon 2020. Version 3.0. 26 June 2016. Available at: https://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf

[2] Riley, Jenn. Understanding Metadata: What is Metadata, and What is it For?: A Primer. : NISO, 2017. Available at: https://groups.niso.org/apps/group_public/download.php/17446/Understanding%20Metadata.pdf

understand the content of what they are reviewing, its potential value and its limitations.

3.2 Making data openly accessible

Datasets that are described as "publicly available data" in table 1 will be made openly accessible by default. The datasets classified as primary and secondary data are confidential and may include personal data. Details on the processing of personal information will be further explored in section 6.

The datasets that are openly accessible by default will become available through the SUSNANOFAB Open Digital Platform, upon free of charge registration. The SUSNANOFAB consortium aims at delivering a platform with a safe and reliable free flow of data.

3.3 Making data interoperable

The SUSNANOFAB platform aims at bringing together the outcomes of existing EU funded projects and initiatives and ultimately strengthen the technology uptake across Europe in an open data ecosystem where access to dynamic data is provided. For that end, web services will be designed and deployed envisaging a simpler and automated use of different datasets through the correct and secure employment of APIs and avoiding the sub-optimal use of information gathered under funded projects.

For having an automated connection through a web service, the project should have access to API reference documentation (ARD). It helps the SUSNANOFAB project to understand how to use other side API. Code Samples, SDKs, and API references should be provided by the data owners. The project will make sure that the other data sources have these references available. Without having it, the connection to other data sources could become impossible or too expensive.

Making data interoperable to allow the systems and services to exchange and consume data among each other is a key element to achieve the goals of the project. The SUSNANOFAB consortium will put special attention to the use of standardised data relying in established vocabularies to facilitate widespread cross-platform data exchange and interoperability among multiple digital services.

The adoption of controlled vocabularies in descriptive metadata fields to support consistent, accurate, and quick indexing and retrieval of relevant data is foreseen in the data management, particularly in the datasets to be available in the open digital platform.

Keywords will be used for indexing and subject headings of data and metadata. As controlled vocabularies change within different disciplines, these keywords may be updated during the course of the project to increase the interoperability of the project's data and metadata. In order to ensure the interoperability, all datasets will use the same standards for data and metadata capture and creation.

Interoperability between databases will be made, whenever possible, through the use of APIs. The use of APIs to bring together different networks around a common digital umbrella is expected to strongly contribute to the creation of a valuable nanofabrication ecosystem and improve the access to reliable information to the stakeholders.

Data categories, vocabulary and taxonomies to be adopted by the SUSNANOFAB data management is further explained in the methodology section (Section 4).

3.4 Re-use of data

The re-use of publicly available data will be one of the core functions of the SUSNANOFAB platform. Gathering the information regarding the nanofabrication ecosystem that is already available in different sources and bringing it together to a single place to promote the access to nanofabrication infrastructures and to enhance the integration of nanobased solutions by the industry is one of the main expected results of the project.

In order to extract the maximum value out of available data and to provide stakeholders access to large and diverse datasets, the project aims at gathering under the same digital platform access to different datasets. The use of APIs intend to address the constraints underlying access to data. The SUSNANOFAB consortium will define and design the relevant string (a proper and adjust key-words for search statement) for connecting to other data pools. All the measures to mitigate risks of disclosing confidential data and to minimise lock-in effects will be put in place. Traceability and clear identification of data sources will also be a precondition to re-use and transfer data among different platforms.

4. Methodology

The methodology section of the present DMP will address the acquisition of data, data storage and backups and categories and taxonomies of data to be adopted by the SUSNANOFAB project.

4.1 Data acquisition

Data managed under the SUSNANOFAB will be acquired through different actions, according to its origin, as defined in table 1.

Primary data: Datasets framed under primary data origin will be collected based on informed consent from the stakeholders/users. The stakeholders' contacts database and the digital platform users' database includes personal data and have their own privacy statements developed. Data will be collected from the stakeholder/user in an appropriate form and will be kept confidential with all security measures in place. Survey and interview data will also be acquired directly from the stakeholders/users upon their acceptance in participating in such activities (surveys and interviews). Although the interview and surveys do not foresee the collection of any personal data, part of the information may be kept confidential. Anonymization can be considered as an alternative. The categorisation, analysis and interpretation of the results of the surveys and interviews will be made public in the deliverables of the project.

Secondary data: The dataset framed under the secondary data category is the EPPN Platform users' data. These data will be acquired upon request and informed consent of the stakeholder/user of the EPPN platform. It comprehends the possibility of having the data of the registration of the EPPN user automatically transfer to create the user account in the SUSNANOFAB digital platform. The data portability will be carried out safely and securely, without affecting the usability of such data.

Publicly available data: Most of the datasets to be processed under the SUSNANOFAB project are publicly available data. The data portability will be carried out in a safe and secure way, without affecting the usability of such data. These datasets will be acquired, whenever possible, through the use of web services and APIs. Web services will be developed to facilitate and automate the use the identified datasets through the correct and secure employment of APIs and avoiding the sub-optimal use of information.

4.2 Data storage and backups

Datasets will be managed closely with clear responsibility and the SUSNANOFAB consortium will be made accountable for ensuring that data management procedures are followed. Data will be held securely within the SUSNANOFAB database with adequate provision for their long-term care.

Procedures for the backups and recovery of data, defining the frequency and reliability will be adopted by the controllers of each processing operation. The

controller must ensure the adoption of appropriate organisational and technical measures to guarantee data storage and backups.

4.3 Data categories and taxonomies

The definition of the categories, vocabulary and taxonomies to be adopted by the SUSNANOFAB is a key aspect to achieve the interoperability between databases, to adopt a common language, and to guarantee possibilities of growth of the platform.

The data taxonomy will provide a unified view of the data in the platform, and more important: it will allow common terminologies and semantics across multiple systems and databases.

The data categories to be used on the SUSNANOFAB platform comprises the taxonomies used in EU organizations, EU statistic frameworks and will also be composed from deliverables to be developed during the project.

At this stage, not all of the data categories and taxonomies can be defined. But it is important to emphasize the value of defining an effective and comprehensive data categorisation to organize the datasets and the metadata to be processed in the project, and mainly in the platform.

For the open digital platform development, some categories of data will be re-used from the EPPN, especially in the user and entity level descriptions. The adoption of the same vocabulary will allow the interoperability and the maximization of the use of data already collected and categorised.

Activity sectors: With the objective of facilitating the interoperability between both platforms, the categories of the activities sector is the same adopted by the EPPN. The list is the same adopted by the KETs Observatory for the Market Sectors.

Activity Sectors
Aeronautics & space
Automotive transportation
Chemical Industry
Construction & building sector
Consumer goods/products
Energy
Environment
Food
ICT industry (including electronics, computer and communication related products)
Measurement
Medical & Healthcare
Production technology (machinery/equipment/automation)
Textile
Others

Table 3 - Activity Sectors

Entity types: The classification of the entity types to be adopted is the following:

Entity types
GOV - Government Sector
PUB - Public Bodies
HES - Higher Education and Universities
REC - Research Organisations
PRC - Private Profit Sector
PNP - Private Non-Profit Sector
SME - Small and Medium Enterprises
LE - Large Enterprise
OTH - Other Entities

Table 4 - Entity Types

Key Enabling Technologies: The Key Enabling Technologies classification to be adopt is the KETs Observatory indication for KETs taxonomy and its following sub-categorisations:

Key Enabling Technologies
Nanotechnology
Advanced materials
Photonics
Micro- and nanoelectronics
Industrial biotechnology
Advanced manufacturing technologies

Table 5 - Key Enabling Technologies

Subcategories for Nanotechnology
Nanomedicine
Nanomembranes
Nanostructured coatings
Nanoparticles, Nanowires and tubes
Nanoemulsions and pigments
2D materials

Table 6 - Subcategories for Nanotechnology

Subcategories for Advanced Materials
Electronic and optical functional materials
Environmental materials (e.g. recycling, resource efficiency, less impact, CO2 capture/utilisation)
Industrial materials (incl. Catalysts, membranes, adhesives, filters)
High performance materials (strong, light weight, resistant)
Materials for energy storage and generation
Smart and multifunctional materials (incl. Phase change, shape memory, self-healing, self-manufacturing)
Surface engineering and coatings

Table 7 - Subcategories for Advanced Materials

Subcategories for Photonics
Displays (LCD, plasma)
Photodetectors (solar cells, photo-diodes, photo-transistors)
Optical fibres
Laser based applications
Intelligent sensor-based equipment
Lightning (LED, OLED)
Optical communication and networks
Optical component & systems

Table 8 - Subcategories for Photonics

Subcategories for Micro- and nanoelectronics
Quantum technology
Optoelectronics (optical networks, optical sensors)
Outside system connectivity (communication, data transfer, wifi)
Power electronics
Printed/flexible electronics
Equipment technology
Memory and storage
Analogue and mixed signal devices (µ-wave, RF, THz)
Computing (low power computing, high performance computing, new computing (non von Neumann, beyond CMOS, beyond Moore))
Heterogeneous components & more than Moore (MEMS, NEMS, sensors, transducers)
Heterogeneous integration/embedded systems

Table 9 - Subcategories for Micro- and nanoelectronics

Subcategories for Industrial biotechnology
Vitamins
Polymers, bioplastics
High value food & feed additives
Enzymes
Amino acids
Antibiotics
Biobased chemicals
Biofuels

Table 10 - Subcategories for Industrial biotechnology

Subcategories for Advanced manufacturing technologies
Smart Manufacturing / Industry 4.0
Robotics / Human machine interaction
Process industry (processing of novel materials, structures, etc.)
Monitoring and control
High performance computing / cloud-based simulation services
Additive manufacturing
High-performance production (flexibility, productivity, precision and zero defect)
High-performance, high precision processing

Intelligent/ sensor-based equipment

Table 11 - Subcategories for Advanced manufacturing technologies

Nanofabrication services: The list of nanofabrication services will be an outcome of the deliverable D2.3 – Report on existing relevant services and infrastructures. It will be the starting point for the planning and deployment of brokerage services; and also the categorisation adopted in the services to be available in the SUSNANOFAB platform.

Nanofabrication products: In the same way as the nanofabrication services, the list of nanofabrication products will result from the mapping of the landscape of nanofabrication in target sectors and a list of exemplary target products.

5. Data security

To guarantee the trust of the stakeholders in the project and in the open digital platform, the security of data will be ensured by the SUSNANOFAB consortium. As the platform will grow and gain popularity among the stakeholders, it may attract undesirable players. To avoid any breach of security, a holistic security approach will be adopted aiming at protecting the pillars of information security (confidentiality, integrity, availability).

To avoid any data breach risk, a procedure will be implemented to evaluate and solve any potential security incident, including the assessment of risks of such incident. Should any security incidents occur, it will be immediately reported to the controller of the processing operation. All steps necessary to minimise negative consequences will be put in place. If the breach is regarding personal data, its owners will be promptly informed about the information lost and about the nature of the data breach, as well as the actions are taken.

Security measures will include secure protocols (HTTPS and SSL), login procedures, as well as protection regarding bots and other malicious attacks such as CAPTCHA technologies.

The consortium will guarantee that all partners ensure they have in place appropriate technical and organisational measures to protect against unauthorised or unlawful processing of data, including personal data, against accidental loss, destruction, or damage.

6. Personal Data Protection

On all issues that concern the processing of personal data, the SUSNANOFAB project is committed to complying with the highest standards, including the requirements set forth in the EU General Data Protection Regulation (GDPR).

Two of the listed datasets included in this DMP will include the processing of personal information: SUSNANOFAB stakeholders' contacts database and SUSNANOFAB digital platform user's database. The project will not process any special category of personal data.

The SUSNANOFAB methodology for processing personal data follows an accurately defined lawful basis. It will set a positive framework for SUSNANOFAB stakeholders' data protection, ensuring the confidentiality and security of their personal data. Furthermore, it will guarantee that the stakeholders are informed and in control of their personal information at all times.

The processing of personal information under the project will be in compliance with the principles defined in the GDPR, as detailed below:

- **Principle of lawfulness, fairness and transparency** (article 5(a) of the GDPR): Personal data will be processed lawfully fairly and in a transparent manner in relation to the data subject.
- **Principle or purpose limitation** (article 5(b) of the GDPR): Personal data will be collected for specified, explicit and legitimate purposes, and will not be processed for any further purposes than the ones described in SUSNANOFAB Privacy Statements.
- **Principle of data minimization** (article 5(c) of the GDPR): Personal data will be adequate, relevant and limited to what is necessary in relation to the purposes which they are processed.
- **Principle of accuracy** (article 5 (d) of the GDPR): Personal data will be accurate and, where necessary, kept up to date; every reasonable step will be taken to ensure that personal data that are inaccurate, having regard to the purposes for which they are processed, are erased or rectified without delay.
- **Principle of storage limitation** (article 5 (e) of the GDPR): Personal data will be kept in a form which permits identification of data subjects for no longer than is necessary for the purposes for which the personal data are processed.
- **Principle of integrity and confidentiality** (article 5 (f) of the GDPR): Personal data will be processed in a manner that ensures appropriate security, including protection against unauthorised or unlawful processing and against accidental loss, destruction or damage, using appropriate technical or organisational measures.

The processing operation of the personal data for the two datasets (stakeholders' database and platform users' database) will adopt two privacy statements. Both Privacy Statement follows the same structure, and the difference between them is the data processed, the purpose, and the controller of the operation.

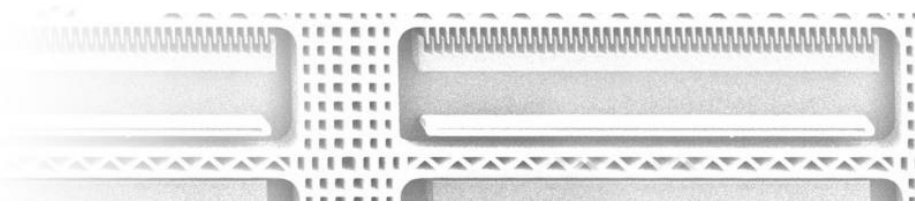
The privacy statements include an introduction of the SUSNANOFAB project and the identification of the partners; the purpose of the data processing operation, the personal data processed under the operation, the legal basis for processing, the security measures in place to protect the database, who will be the recipient of the data, provision for access, rectification and removal of data, and time limit for storing the data. Both Privacy Statements are available in Annex 1 and 2 of the present DMP.

7. Conclusions

This DMP set the framework of an effective management of the data processed under the SUSNANOFAB project. It defines the datasets to be processed, its purposes, format, origins, and procedures for acquisition, as well as methodology and standards that could be anticipated in this stage of the project.

In order to enable an exceptional management of data in the project, this document may be updated with the addition or removal of datasets, and to include further taxonomies to be adopted during the project development.

The SUSNANOFAB project is committed to following the guidelines from the European Commission on FAIR Data Management in Horizon 2020, as well as ensuring that the highest standards policies on data management are in line with the SUSNANOFAB Project Management Plan.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement Nº 882506.

Annex I

PRIVACY STATEMENT

DATA PROCESSING OPERATION: 'SUSNANOFAB STAKEHOLDERS CONTACTS DATABASE'

1. Introduction

The SUSNANOFAB Project has received funding from the European Union´s Horizon 2020 Research and Innovation Programme under Grant Agreement nº 882506. The SUSNANOFAB Project aims to work on all nanofabrication technological and non-technological issues of the nanofabrication value chain, facilitating interactions among stakeholders. The global target of SUSNANOFAB project is to put in place an integrated concerted action on nanofabrication sustainable in the long term. At strategic level the project will find a common strategy to enable all pre-competitive conditions for successful market uptake of nanofabricated products and solutions. This will be reached using a structured road mapping methodology and involving external experts in Coordination Groups. At operational and end-users' level, the project will provide affordable services and easy access point to infrastructures and knowledge to EU stakeholders, and in particular to SMEs. This will be reached using different integrated methodologies such as the organisation of a large set of training and brokerage workshops and services and the development of a Digital Platform, which will perform in an interoperable manner with ongoing platforms and initiatives.

The SUSNANOFAB Consortium is composed by the following partners:

1. RINA CONSULTING SPA (RINA-C), the Coordinator
2. INTERNATIONAL IBERIAN NANOTECHNOLOGY LABORATORY (INL),
3. FUNDACION TECNALIA RESEARCH & INNOVATION (TECNALIA),
4. UNIVERSITY COLLEGE CORK - NATIONAL UNIVERSITY OF IRELAND, CORK (TYNDALL),
5. COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES (CEA),
6. NANOTECHNOLOGY INDUSTRIES ASSOCIATION (NIA),
7. CENTRE TECHNIQUE INDUSTRIEL DE LA PLASTURGIE ET DES COMPOSITES (IPC),
8. ONVEGA AB (ONVEGA),
9. TECHNISCHE UNIVERSITAET WIEN (TUW),
10. FUNDACION IDONIAL (IDONIAL),
11. GEORGIA TECH RESEARCH CORPORATION (GTRC),
12. Baylor University (BAYLOR),
13. BROWN UNIVERSITY (BROWN).

2. Purpose

The purpose of this data processing operation is: subscription of newsletters; publications and events announcements; dissemination of the SUSNANOFAB activities; information about the SUSNANOFAB project, services and contests; to promote innovation and technology transfer; to send survey forms and other communications activities.

3. Description of the data processing operation

The Personal Data is stored in a database of SUSNANOFAB Consortium named "SUSNANOFAB Stakeholders Contacts Database".

4. Data processed

The data processed, including personal data, contain the following: complete name, place of work, department and position held, and e-mail address.

5. Controller of the processing operation

The INTERNATIONAL IBERIAN NANOTECHNOLOGY LABORATORY (INL), is responsible for the management of the data processed under this operation.

6. Legal Basis

The processing of personal data is required to contact and receive information regarding the activities developed by the SUSNANOFAB Project. Therefore, not providing the required personal data or not accepting the privacy statement concerning this data processing operation will render it impossible to register, submit or receive information regarding said activities. In accordance with the Regulation UE no. 2016/679 (General Data Protection Regulation), where applicable, as well as any other legislation or regulatory requirements in force from time to time which apply to each Party relating to the use of personal data, the SUSNANOFAB Consortium assures that the personal data obtained from your submission will be incorporated into a record, property of the SUSNANOFAB Consortium, having implemented all security measures.

7. Security Measures

The SUSNANOFAB Consortium shall ensure that it has in place appropriate technical and organisational measures to protect against unauthorised or unlawful processing of Personal Data and against accidental loss or destruction of, or damage to, Personal Data, appropriate to the harm that might result from the unauthorised or unlawful processing or accidental loss, destruction or damage and the nature of the data to be protected, having regard to the state of technological development and the cost of implementing any measures.

8. Recipients of the data

The SUSNANOFAB Consortium will have access to the personal data, as well as the project´s contractors and, if requested, the Program Managing Authorities (H2020).

Contractors are defined as service providers engaged by the SUSNANOFAB Consortium to perform specific tasks related to the execution of the SUSNANOFAB Project. Contractors shall have access to personal data on a specific need-to-know basis, they shall be made aware of this privacy statement and they shall undertake obligations no less onerous than those contained in this statement.

Personal data will not be used for other purposes than those described above. Except for the situations referred to in the previous paragraphs they will not be disclosed to any third parties.

9. Legality of processing

Processing is necessary for the performance of the tasks carried out on SUSNANOFAB Project, under Grant Agreement nº 882506.

10. Provision, access and rectification of the data

Each person has the right to access his or her own personal data and the right to correct any inaccurate or incomplete personal data, as well as to request the removal of his or her personal data, which will be implemented within 10 working days after your specific request will be deemed legitimate. Queries concerning the processing of personal data may be addressed to the following email: contact@susnanofab.eu

11. Time limit for storing data

Records shall be retained for a period of up 5 years after the project is terminated, or until the request for removing the personal data from our database.

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement Nº 882506.

Annex 2

PRIVACY STATEMENT

DATA PROCESSING OPERATION: 'SUSNANOFAB DIGITAL PLATFORM USER'S DATABASE'

1. Introduction

The SUSNANOFAB Project has received funding from the European Union´s Horizon 2020 Research and Innovation Programme under Grant Agreement nº 882506. The SUSNANOFAB Project aims to work on all nanofabrication technological and non-technological issues of the nanofabrication value chain, facilitating interactions among stakeholders. The global target of SUSNANOFAB project is to put in place an integrated concerted action on nanofabrication sustainable in the long term. At strategic level the project will find a common strategy to enable all pre-competitive conditions for successful market uptake of nanofabricated products and solutions. This will be reached using a structured road mapping methodology and involving external experts in Coordination Groups. At operational and end-users' level, the project will provide affordable services and easy access point to infrastructures and knowledge to EU stakeholders, and in particular to SMEs. This will be reached using different integrated methodologies such as the organisation of a large set of training and brokerage workshops and services and the development of a Digital Platform, which will perform in an interoperable manner with ongoing platforms and initiatives.

The SUSNANOFAB Consortium is composed by the following partners:

1. RINA CONSULTING SPA (RINA-C), the Coordinator
2. INTERNATIONAL IBERIAN NANOTECHNOLOGY LABORATORY (INL),
3. FUNDACION TECNALIA RESEARCH & INNOVATION (TECNALIA),
4. UNIVERSITY COLLEGE CORK - NATIONAL UNIVERSITY OF IRELAND, CORK (TYNDALL),
5. COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES (CEA),
6. NANOTECHNOLOGY INDUSTRIES ASSOCIATION (NIA),
7. CENTRE TECHNIQUE INDUSTRIEL DE LA PLASTURGIE ET DES COMPOSITES (IPC),
8. ONVEGA AB (ONVEGA),
9. TECHNISCHE UNIVERSITAET WIEN (TUW),
10. FUNDACION IDONIAL (IDONIAL),
11. GEORGIA TECH RESEARCH CORPORATION (GTRC),
12. Baylor University (BAYLOR),
13. BROWN UNIVERSITY (BROWN).

2. Purpose

The purpose of this data processing operation is to provide, operate, manage, maintain, and enhance the SUSNANOFAB Platform and allow users to make use of the Platform. The purposes include communication of the project publications, events announcements, dissemination of the SUSNANOFAB activities; information about the

SUSNANOFAB project, services and contests; to promote innovation and technology transfer; to send survey forms and other communications activities.

3. Description of the data processing operation

The Personal Data is stored in a database of SUSNANOFAB Consortium named "SUSNANOFAB Platform Database".

4. Data processed

The data processed, including personal data, contain the following: complete name, nationality, place of work, department and position held, and e-mail address.

5. Controller of the processing operation

The ONVEGA AB, is responsible for the management of the data processed under this operation.

6. Legal Basis

The processing of personal data is required to contact and receive information regarding the activities developed by the SUSNANOFAB Project. Therefore, not providing the required personal data or not accepting the privacy statement concerning this data processing operation will render it impossible to register, submit or receive information regarding said activities. In accordance with the Regulation UE no. 2016/679 (General Data Protection Regulation), where applicable, as well as any other legislation or regulatory requirements in force from time to time which apply to each Party relating to the use of personal data, the SUSNANOFAB Consortium assures that the personal data obtained from your submission will be incorporated into a record, property of the SUSNANOFAB Consortium, having implemented all security measures.

7. Security Measures

The SUSNANOFAB Consortium shall ensure that it has in place appropriate technical and organisational measures to protect against unauthorised or unlawful processing of Personal Data and against accidental loss or destruction of, or damage to, Personal Data, appropriate to the harm that might result from the unauthorised or unlawful processing or accidental loss, destruction or damage and the nature of the data to be protected, having regard to the state of technological development and the cost of implementing any measures.

8. Recipients of the data

The SUSNANOFAB Consortium will have access to the personal data, as well as the project´s contractors and, if requested, the Program Managing Authorities (H2020).

Contractors are defined as service providers engaged by the SUSNANOFAB Consortium to perform specific tasks related to the execution of the SUSNANOFAB Project. Contractors shall have access to personal data on a specific need-to-know basis, they shall be made aware of this privacy statement and they shall undertake obligations no less onerous than those contained in this statement.

Personal data will not be used for other purposes than those described above. Except for the situations referred to in the previous paragraphs they will not be disclosed to any third parties.

9. Legality of processing

Processing is necessary for the performance of the tasks carried out on SUSNANOFAB Project, under Grant Agreement nº 882506.

10. Provision, access and rectification of the data

Each person has the right to access his or her own personal data and the right to correct any inaccurate or incomplete personal data, as well as to request the removal of his or her personal data, which will be implemented within 10 working days after your specific request will be deemed legitimate. Queries concerning the processing of personal data may be addressed to the following email: contact@susnanofab.eu

11. Time limit for storing data

Records shall be retained for a period of up 5 years after the project is terminated, or until the request for removing the personal data from our database.

Acknowledgements

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no. 882506 (SUSNANOFAB). The content of the publication is the sole responsibility of the author(s). The European Commission or its services cannot be held responsible for any use that may be made of the information it contains. Project website: http://susnanofab.eu/.