



SUSnanofab

Towards a competitive and sustainable nanofabrication industry



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 882506. This publication reflects only the author's views and that the European Union is not liable for any use that may be made of the information contained therein.

—● WHY SUSNANOFAB

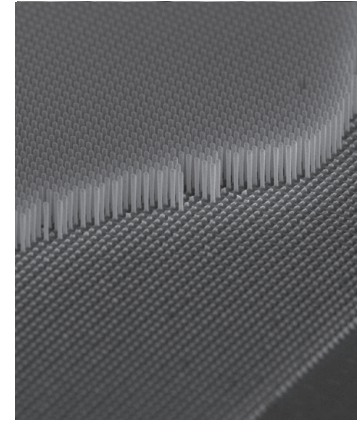
Nanofabrication has the potential to address major socio-economic challenges, from **better and affordable health care to cleaner energy and transports, improved consumer goods and higher living standards.**

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 vast potential of nanofabrication is undeniable, and it must be optimized.

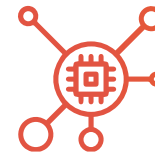


—● HOW IT WORKS



SUSNANOFAB proposes an **integrated strategy** at a European level that **articulates the whole value-chain** and facilitates **interactions among stakeholders**, aiming at the promotion of a competitive and sustainable nanofabrication industry.

—● WHAT IS SUSNANOFAB

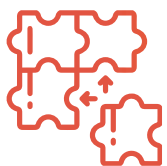


SUSNANOFAB is a concerted and long-term sustainable **action on nanofabrication** that will establish a robust network that **tackles the missing links** between policy, infrastructure, expertise and industry requirements worldwide.

At a strategic level, the project is committed to **delivering an EU-wide Strategic Roadmap on Nanofabrication** with international cooperation activities.

At an operational and end-user level, the project will develop an **Open Access Digital Platform** that interoperates with current platforms, projects and other initiatives at the European level.

The **SUSNANOFAB Digital Platform** will provide:



A **match-making tool** for technology providers and potential customers (**access to infrastructures, brokerage and training services**)



A centralization and harmonization of the **available data and make it accessible** to all interested parties.

STRATEGIC LEVEL



Roadmap for an EU wide strategy on nanofabrication



CG1

Nanofabrication aspects from design to manufacturing upscaling



CG2

Environmental Sustainability, Health & Ethics



CG3

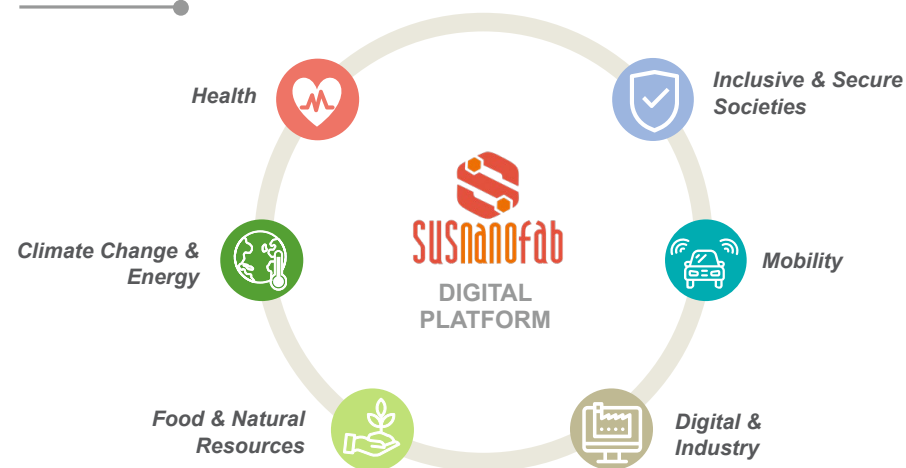
Future skills & Capabilities

DIGITAL PLATFORM



- EU Database with access to Multiple Networks
- Cooperation on standardisation activities
- Promotion of best practises
- Brokerage services
- Training services
- Support activity

DIGITAL PLATFORM: END-USERS LEVEL



SUSNANOFAB MAIN ACTIVITIES

- **Analyse** the nanofabrication **ecosystem**;
- **Activate** three **Cooperation Groups (CG)** of **European and International Stakeholders**;
- **Develop** and **validate** a **participatory roadmap** that identifies and prioritises future common research, standardisation and cooperation actions. The roadmap will have a **strong international dimension**, leveraging on US-EU collaboration.
- **Develop** a **digital platform** leveraging from existing platforms and avoiding redundancy;
- **Identify knowledge & skills gaps**
- **Evaluate training needs**, design and **implement training activities**;
- **Plan** and deploy **networking** and **brokerage services**.



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HOW TO BE ENGAGED

- › **By participating in project events**
- › **Join a SUSNANOFAB Cooperation Group**

CG1 - Nanofabrication Aspects from Design to Manufacturing Upscaling

- › Research and innovation agenda focusing on innovative nanofabrication technologies for SUSNANOFAB target products covering all relevant steps of the value chain.
- › Identification of actions that require an international dimension to address existing gaps in the development and uptake of common approaches in design, modelling, characterisation and testing focusing on nanofabrication.
- › Recommendations for new standards on nanofabrication technologies.



CG2 - Environmental and Sustainability issues, Health and Ethics in a Life Cycle Perspective

- › Identification of EU research and innovation actions on the economic, environmental and health-related sustainability assessment of target SUSNANOFAB products.
- › Identification of actions that require an international dimension to address the existing gaps in the nanosafety research and knowledge uptake by all the stakeholders, as well as in the development and diffusion of combined environmental, social and economic life cycle assessments.
- › Identification of actions where nanofabricated products and approaches will address current ethical issues and promote social inclusiveness within EU and international countries.
- › Recommendations for new standards in the CG area.

CG3 – Future Skills and Capabilities

- › Identification of EU research and coordination actions targeting different levels of education, from high school to university degrees, masters PhDs up to workforce training courses, focusing on the identified nanofabrication educational needs.
 - › Identification of actions that require an international dimension to address the existing gaps in nanofabrication skills and education. Such actions may take the form of novel student and workforce exchange programmes, common nanofabrication curricula for masters and degrees etc.



KEEP IN TOUCH!

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Start Date: March, 1st 2020

Duration: 36 Months



PARTNERS:



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