WORKSHOP

Virtual Session

May 4th 2021, 14:00 – 17:30
Satellite event from **EuroNanoForum 2021**

"Open Innovation Test Beds as a Service to the Industry"

SETTING THE SCENE | Advanced Materials is a crucial Key Enabling Technologies (KET), for Europe's competitiveness. They contribute towards giving EU industries the competitive edge they need for industrial leadership in global markets and promise breakthroughs to solving global challenges and achieving a circular, resource efficient and climate-neutral EU economy. The materials development cycle is long and entails several steps such as characterisation, modelling, processing, upscaling and engineering, including a lengthy assessment in industrial environments.

To enable uptake by industry, especially SMEs and start-ups, the Horizon 2020 Framework Programme has supported the creation of an open innovation ecosystem in advanced materials. The Commission has invested approximately 250 million euro in **Open Innovation Test Beds** (OITBs) with the aim to bring nanotechnologies and advanced materials within market reach by providing access to demonstration and upscaling facilities as well as advisory services to advance technologies from laboratory validation to prototypes in industrial environments.

This open innovation ecosystem aims at gathering all the relevant actors while covering all relevant enablers and services needed for innovation based on new materials, therefore reducing technological risk thus attracting more investors and cutting the time to market.

Currently there are OITB projects running in six technology domains:

- Lightweight nano-enabled multifunctional materials and components
- Safety Testing of Medical Technologies for Health
- Nano-enabled surfaces and membranes
- Bio-based nano-materials and solutions
- Functional materials for building envelopes
- Nano-pharmaceuticals production

Additionally, three Open Innovation Test Bed projects on materials characterisation and three on material modelling contribute to setting the foundation for a European ecosystem.

WORKSHOP OBJECTIVE | The objective of the workshop is to take stock from current policy initiatives and open innovation test beds in order to get new ideas to support the Advanced Materials European Innovation Ecosystem in the context of Horizon Europe. OITBs, related clustering initiatives and end-users will have the opportunity to share their experience, expectations and new ideas to bring nanotechnologies and advanced materials within the reach of companies and users.

Registration: https://www.euronanoforum2021.eu/satellite-events

This project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under the grant agreement no. 862156, project FlexFunction2Sustain

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TARGET AUDIENCE | OITBs, Industry, Industry Associations, other projects likely to integrate results to OITB service portfolio and the European Commission)

May 4th 2021 | 14:00 – 17:30	
15' **14:00 – 14:15**	**Opening Session** • **Peter Dröll** | *European Commission DG RTD, Head of Prosperity Directorate*
10' **14:15 – 14:25**	**What Is an OITB and How Does It Make Industries' Life Easier?** • **Rudolf Fryček** | *AMIRES, CEO*
50' **14:25 - 15:15**	**Expectations of Users Towards an OITB** **Moderator:** • **John Fahlteich** | *Fraunhofer FEP, Research Group Leader* **Speakers:** • **Marlos Silva** | *SONAE, Director R&D and Incentives* • **Quentin Pankhurst** | *RCL - Resonant Circuits Ltd., Business Director* • **Johannes Maui Jepsen** | *Stryker, Project Engineer R&D* • **Joana Paiva** | *iLof, CTO* • **Florian Schmitt** | *i3 Membrane, CTO* **Time for Q&A**
15:15 – 15:25	***10 min break***
55' **15:25 – 16:20**	**Open Innovation Test Beds as a Service to the Industry (Part I)** **Moderator:** • **Marina Dias** | *INL, Business and Strategic Relations* **Speakers:** • **Angel del Pozo** | *Biokeralty, Deputy Manager of Programs Strategy* **OITB:** Safe-N-Medtech - Safety testing in the life cycle ofnanotechnology- enabled medical technologies for health • **Ulrich Froriep** | *Fraunhofer ITEM, High-Performance Center Translational Biomedical Engineering* **OITB:** MDOT - Medical Device Obligations Taskforce • **Andrea Haiek** | *CIDETEC, Responsible of GMP unit* **OITB:** TBMED - A testing bed for the development of high-risk medicaldevices • **Carlos del Castillo** | *ECCS – The European Convention for Constructional Steelwork, Project Manager* **OITB:** NewSkin - Innovation Eco-system to Accelerate the Industrial Uptake of Advanced Surface Nano-Technologies • **John Fahlteich** | *Fraunhofer FEP, Research Group Leader*

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	OITB: FlexFunction2Sustain - Open Innovation Ecosystem for Sustainable Nano-functionalized Flexible Plastic and Paper Surfaces and Membranes • **Martin Smolka** | *Joanneum Research, Researcher and Project Coordinator* **OITB:** NextGenMicroFluidics - Next generation test bed for upscaling of microfluidic devices based on nano-enabled surfaces and membranes **Time for Q&A**
16:20 – 16:25	***5 min break***
55' **16:25 – 17:20**	**Open Innovation Test Beds as a Service to the Industry (Part II)** **Moderator:** • **Marina Dias** | *INL, Business and Strategic Relations* **Speakers:** • **Sandrine Lebigre** | *IPC, Head of R&D Program - High Added ValueProducts* **OITB:** OASIS - Open Access Single entry point for scale-up of Innovative Smart lightweight composite materials and components • **Zachary J. Davis** | *Danish Technological Institute, Team Manager* **OITB:** LEE-BED - Innovation test bed for development and pro-ductionof nanomaterials for lightweight embedded electronics • **Luca Magagnin** | *Politecnico di Milano, Full Professor* **OITB:** LightMe - An Open Innovation Ecosystem for upscaling production processes of lightweight metal alloys composites • **Eduard Piqueras** | *EURECAT Technology Center, EU Programmes* **OITB:** FormPlanet - Sheet metal forming testing hub • **Philippe Azais** | *CEA, Deputy head of CEA programme, Energy Storage Solutions and Flexibilities* **OITB:** TEESMAT - Open Innovation Test Bed for Electrochemical Energy Storage Materials • **Franz Pirker** | *AC2T research, Business Development Manager* **OITB:** i-TRIBOMAT - Intelligent Open Test Bed for Materials Tribological Characterisation Services **Time for Q&A**
10' **17:20 – 17:30**	**Final Notes** • **John Fahlteich** | *Fraunhofer FEP, Research Group Leader*
17:30	**End of Meeting**

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