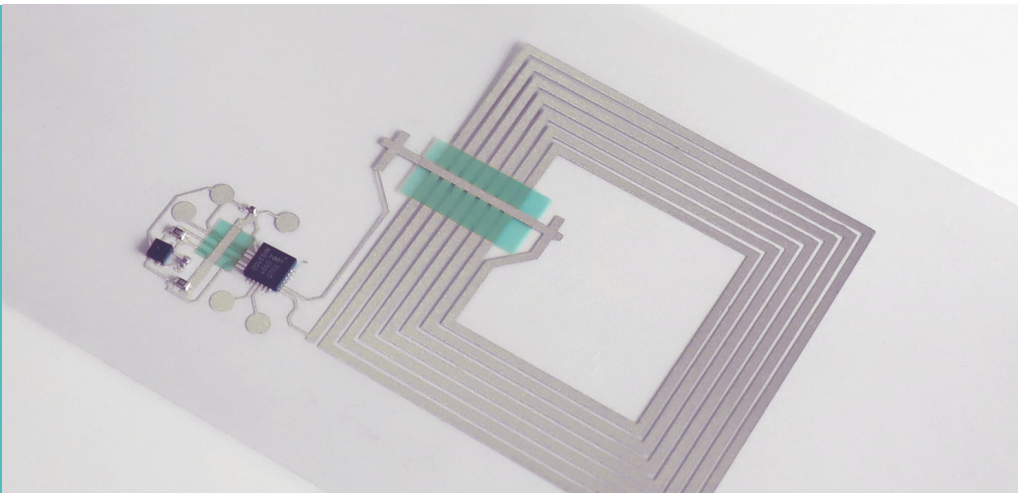


OPEN SESSION

June 20, 2022
12:00 h. - 13:30 h.



Safety Services Open Session: LEE BED project



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 814485.

June 2022

In the **printed electronics industry**, there is a strong push towards the use of nanomaterials instead of micromaterial-based pigments, due to their superior electrical performance, lower processing temperatures and reduced material consumption. This transition will **lead to cheaper, more versatile, and sustainable integration of electronics into products**.

In addition, **the digitisation of the European industry (Industry 4.0)** through digital production systems, such as electronic inkjet printing, additive manufacturing, robot-assisted electronic labelling, laser processing, stereolithography and others, **requires the development of multifunctional nanomaterials**. This is a bottleneck in the progress towards the modernisation of the European industry that LEE-BED, funded by the **Horizon 2020 programme**, will help to address.

The main objective of LEE-BED, in which ITENE participates, **is to bring together the best technology and research centres and leading companies in Europe in order to establish an open innovation platform** to accelerate the development and production of integrated electronic systems.

Safety is one of the key aspects to be considered when incorporating these nanomaterials. In this sense, **ITENE offers safety services in the framework of the LEE BED project that aim to support companies in the printed electronics sector using nanomaterials** in the identification of key points regarding standardization, regulatory compliance, and safety-related issues (risk assessment -involving occupational exposure and toxicological profiling services- and risk mitigation).

Objectives:

Show the safety services offered within the LEE-BED project for printed electronics companies that are using nanomaterials, both in terms of materials and processes:

- Screening studies to determine the toxicological profile of the products.
- Studies to assess occupational exposure to nano-objects, their aggregates, and agglomerates in the workplace.
- Experimental analysis of the effectiveness of personal protective equipment and technical risk management measures (e.g., ventilation).
- Definition of safe design methods for the reduction of toxicity and exposure.
- Advice on legislative compliance.

Addressed to:

In the course of Phase III, ITENE is organising an Open Session focused on Safety Services, addressed to:

Companies of

- The printed electronics sector.
- Nanoparticle manufacturers.
- Formulators of inks, adhesives and composites based on nanoparticles.
- Electronic circuit printers with products containing nanoparticles.

Free attendance upon registration at:

<https://attendee.gotowebinar.com/register/7578439293452934927>

More information:

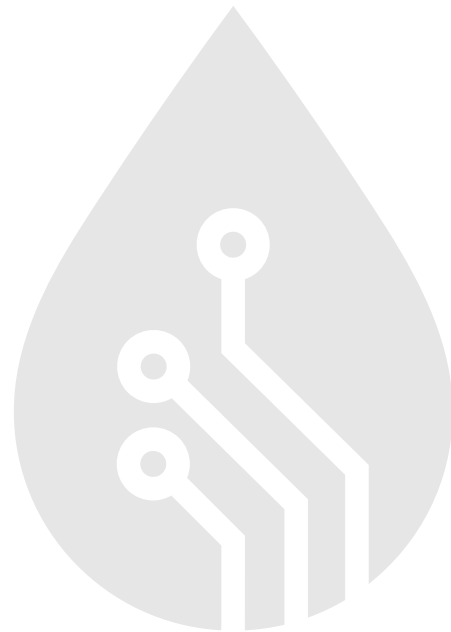
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RESEARCH
CENTER

ITENE

PROGRAMME

- 12:00 - 12:10** **Welcome - Introduction to ITENE** | Carlos Monerris - ITENE
- 12:10 - 12:20** **Introduction to the LEE BED Project** | Inmaculada Lorente - ITENE
- 12:20 - 12:30** **Pre-Safety Assessment: Phase I** | Helena Prima - ITENE
- 12:30 - 12:40** **Standardisation and Safety Services: Phase III**
▪ Regulatory Compliance Analysis
| Arantxa Ballesteros - ITENE
- 12:40 - 13:00** **Standardisation and Safety Services: Phase III**
▪ Risk Assessment: occupational exposure services
| Helena Prima - ITENE
- 13:00 - 13:15** **Standardisation and Safety Services: Phase III**
▪ Risk Assessment: (eco)toxicological profiling services: in silico e in vitro
| Arantxa Ballesteros - ITENE
- 13:15 - 13:30** **Remarks Questions Closure** | All



Organised by:



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