



LEE-BED

Bring your ideas and concepts to market using lightweight, flexible, printed electronics

Steps to be part of LEE-BED and to benefit from the whole eco-system



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

Pilot Line

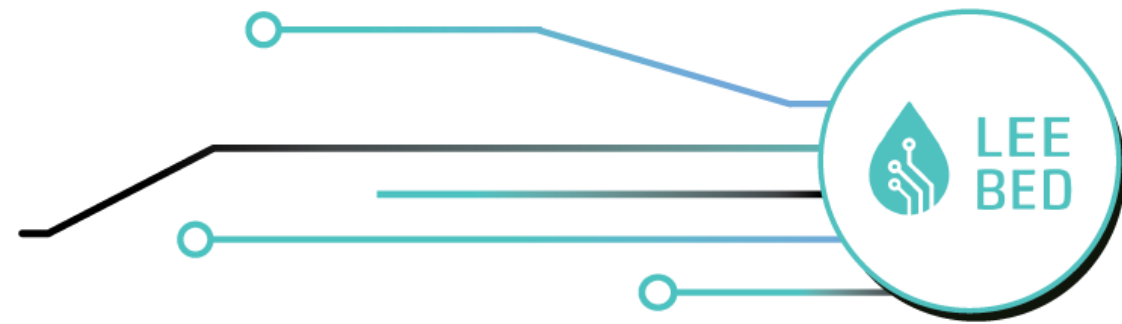


LEE BED is a single entity made up of RTOs and companies across the Printed Electronic supply chain. It brings together expertise to help you innovate regardless of where your product is in the supply chain



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LEE BED Pilot Line



LEE BED's purpose is to de-risk your innovations by identifying opportunities and mitigating risks early.

The whole printed electronic supply chain and other stakeholders, such as regulatory and standards organisations, can benefit from LEE BED.



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Markets who will benefit

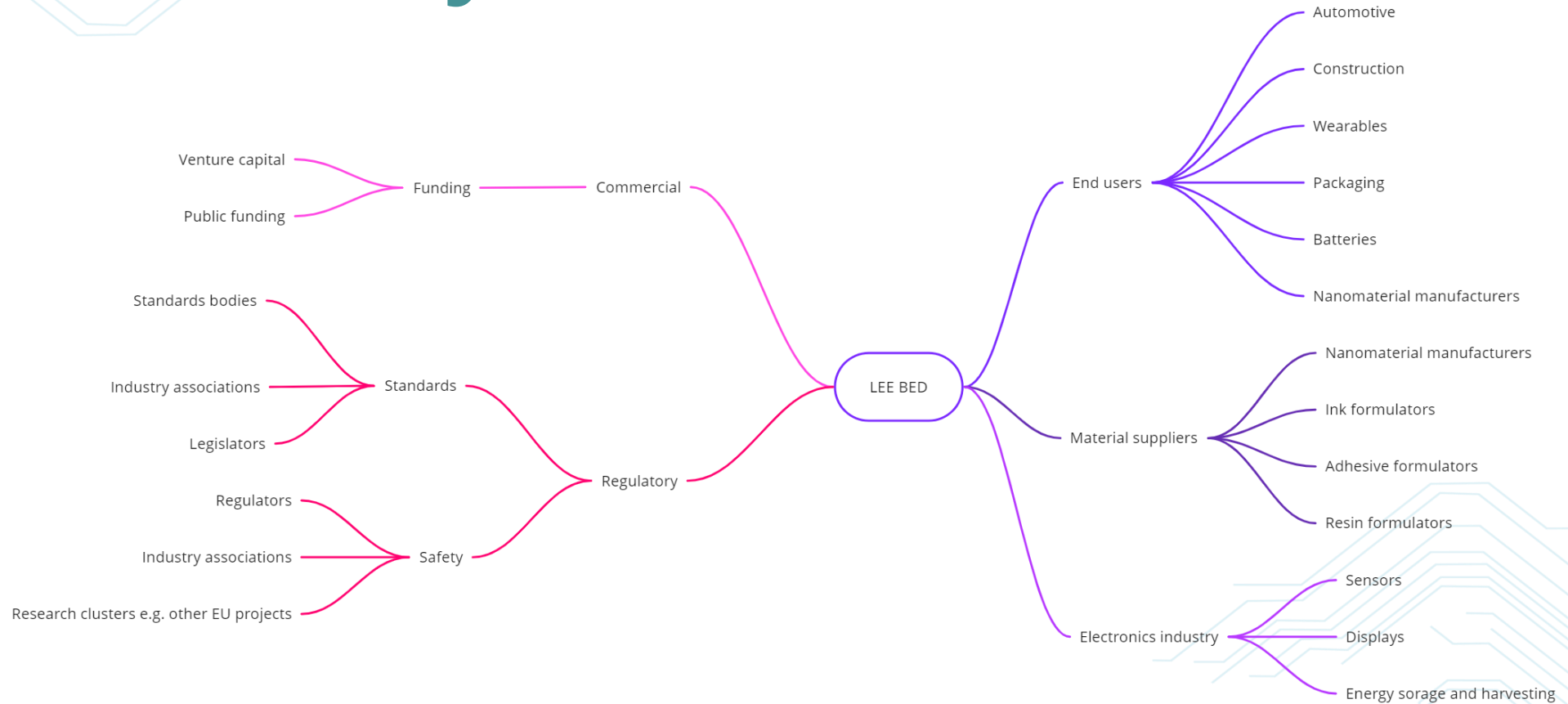
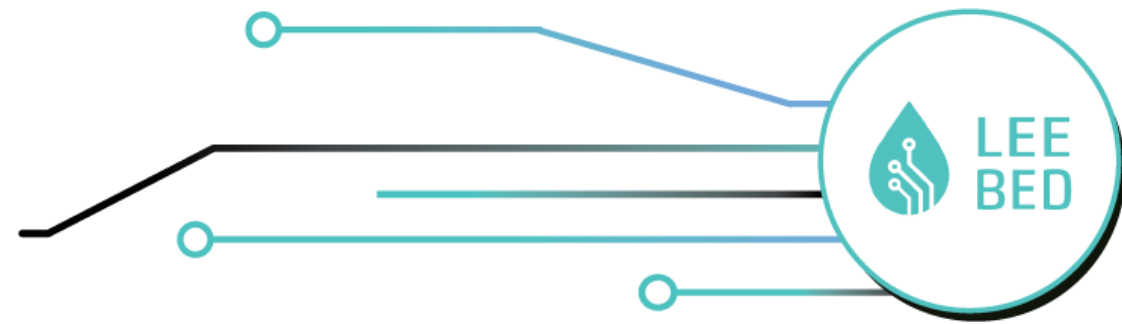


Market	Example sub-markets
Total printed electronics	Lighting, RFID, wearables, IoT, energy, displays, healthcare technology, sensors
Automotive	Displays, lighting, heating, sensors IoT.
Construction	Sensors, IoT, energy
Wearables	IoT, sensors
Packaging	Sensor, IoT and displays
Nanomaterials	Conducting or functional nanomaterials
RFID and NFC tags	Antenna and conducting materials
Printed batteries	Sensors, IoT, energy storage materials



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The PE 'eco-system'



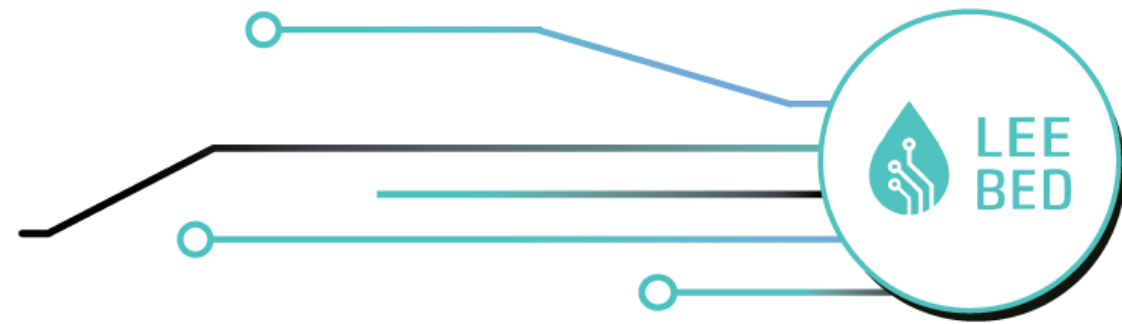
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LEE BED Phase 1

New ideas can be assessed on technical, economic and safety criteria before any experimental work starts.

This de-risks your project and allows provides the correct focus for the experimental work that will follow.

Once assessed you will be moved to the correct part(s) of the Phase 2 experimental pilot line

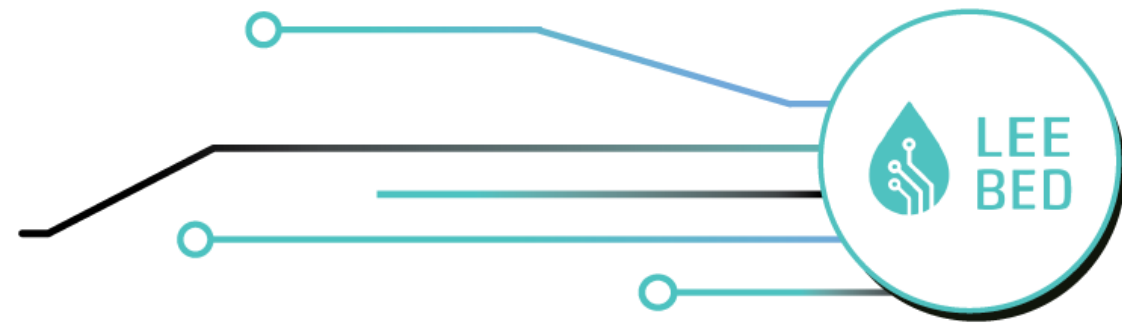


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LEE BED Phase 2

The Phase 2 pilot line will involve you working with technical experts across different parts of the supply chain. For example:

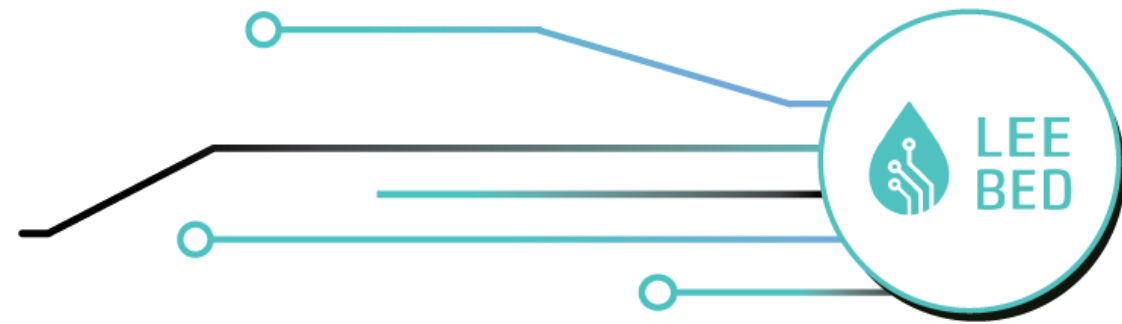
- Nanomaterial producers may find themselves working with experts in formulation and component production to test their new materials.
- Device manufacturers may consult with nanomaterial experts on new functional materials, and with experts in design and test of printed components.



LEE BED Phase 3

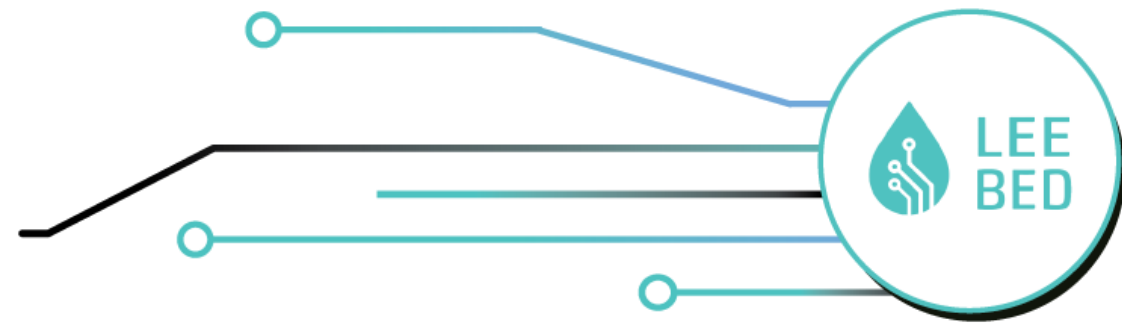
The Phase 3 pilot lines will help you identify the next steps in your product. Helping you:

- Secure your IP
- Identify investors
- Define regulatory framework you will need to work within.
- Assess life cycle of your product.



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LEE BED process



Working across an innovation supply chain is complex.

However, LEE BED provides expertise that can guide you through this.

To make it easy for you to engage LEE BED has a **Single Entry Point**.

www.lee-bed.eu



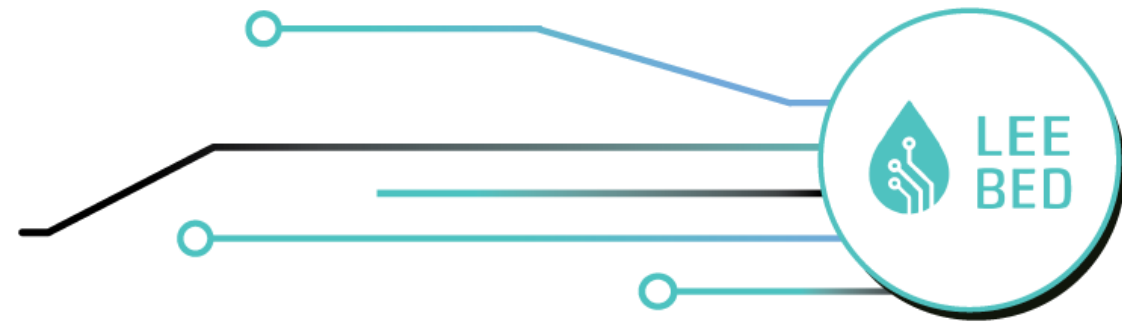
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The Single Entry Point

To simplify your interaction with LEE BED we have created the **Single Entry Point**.

Here you are asked to complete a simple **User Requirement Sheet (URS)** in as much detail as you can.

This includes what your product is, your ambitions for it, and a problem statement.



1. Initial information

a) The end user story

As a ...

Example: construction company

I want to ...

Example: use live structural monitoring in critical construction elements

So that ...

Example: material fatigue can be detected before critical damage to structures occurs.

b) Development scope

Please specify the material(s), formulation(s) and/or printed component(s) to be developed.

Example: full development of device, including all necessary materials

Some of the auxiliary components in the frame of the project might be realised by using standard components. Following this questionnaire, an overview over the so called "system architecture" will be developed between you and your associated project manager (PM) to define minimal viable product (MVP) including clear boundary/interfaces of functions that are needed but not necessarily part of this project.

c) Keywords

Name up to 5 keywords that describe your use-case.

Example: market sector, your idea ...

d) How did you learn about Lee-Bed?

- Lee-Bed website
- Lee-Bed event
- Personal contact with LEE-BED partner

if so, please state which:

- Other

if so, please state which:

2. Product

a) Purpose of product

Describe the purpose of the product.

Example: The purpose of the product is to assess if building elements are showing fatigue or degradation

b) Functionality

Describe initial considerations or key requirements known, regarding functionality. Please be as quantitative as you can.

Example: Vibration or strain values to be sampled directly at selected points and transferred to a base station

c) Dimensions

Describe the requirements concerning dimensions if applicable. Insert drawing(s) if available.

*Sensor element X*Y mm Z mm thick, wires..., power and transmitter box....*

d) Usability

How should the interface with the product look like/ be like for the end-user/ customer?

Example: The product should be simple and intuitive to use. It should be clear to see how it is supposed to function without using IFU or ...

e) Aesthetics

What is the aim of the "expression" of the product to suit the customer?

Example: The appearance must give confidence in the Product as e.g. durable or if it is disposable, it should not appear to be wasteful of natural resources, product will be directly visible for users or not, etc.

f) Enclosure

What product system will the electronic device be embedded in?

Example: the product system is a container for ...; specification on IP 55 and temp limits...



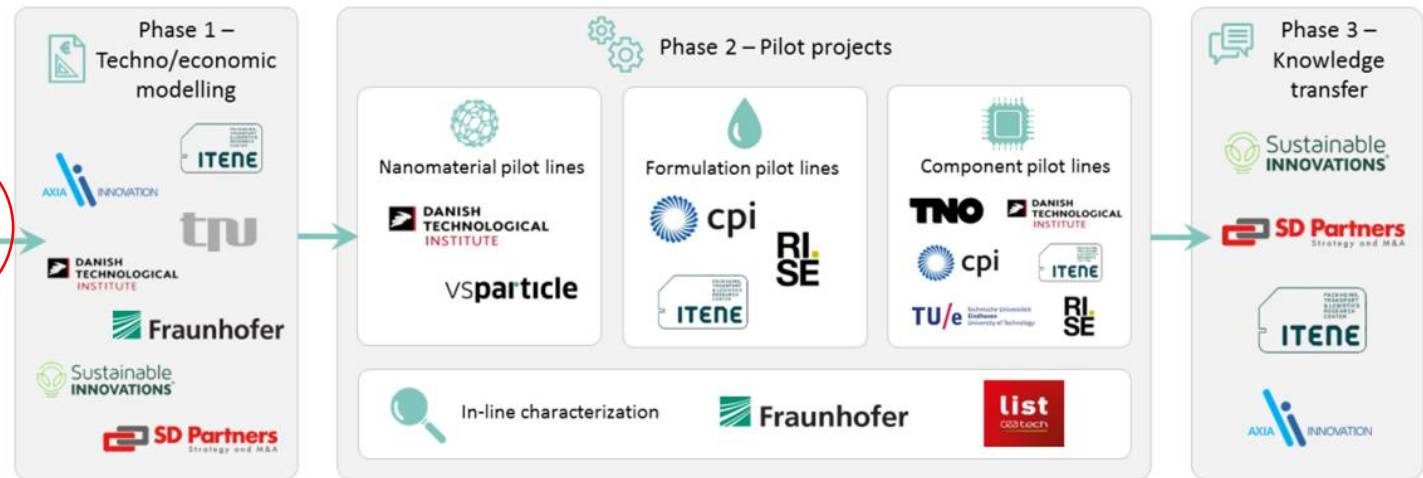
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The Single Entry Point



The URS will be used to direct you to a relevant technical expert who can help define your problem in more detail, determine whether LEE BED can help you, and take you through the Phase 1 process.

You are here.



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Visit LEE-BED and get
started today

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