

Industrial Cases

SWAROVSKI

DECORATIVE INTELLIGENT SURFACES

- Embedded environmental sensing
- Wireless communication
- Flexible backlighting



FUNCTIONAL AUTOMOTIVE DASHBOARD

- Embedded touch sensing
- Embedded lighting
- Compatible with injections moulding and thermal forming processes



INTELLIGENT LABELLING

- Embedded temperature & humidity sensing
- Anti-counterfeiting
- Wireless communication



STRUCTURAL MONITORING

- Embedded temperature and vibrations sensing
- Wireless communication
- Autonomous for more than 20 years
- Compatible with pultrusion processes

Partners



DANISH
TECHNOLOGICAL
INSTITUTE



Open Innovation Test Bed for development and production of nanomaterials for lightweight embedded electronics

Bring your ideas and concepts to market through LEE-BED's three industrial phases, which will allow you to work with the leading European research and technology organizations and industry within nanomaterials, nano enabled formulations and digital printing



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

Join the LEE-BED community today at
www.lee-bed.eu or contact us at
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About LEE-BED

LEE-BED is an open innovation test bed (OITB), which has been funded by Horizon 2020. The project's aim is to form a sustainable OITB, which can service European industry within the field of embedded and printed electronics.

Through LEE-BED's single entry point, **www.lee-bed.eu**, stakeholders will get access to specialized services and pilot lines. LEE-BED will bring ideas to market through three industrial phases, consisting of:

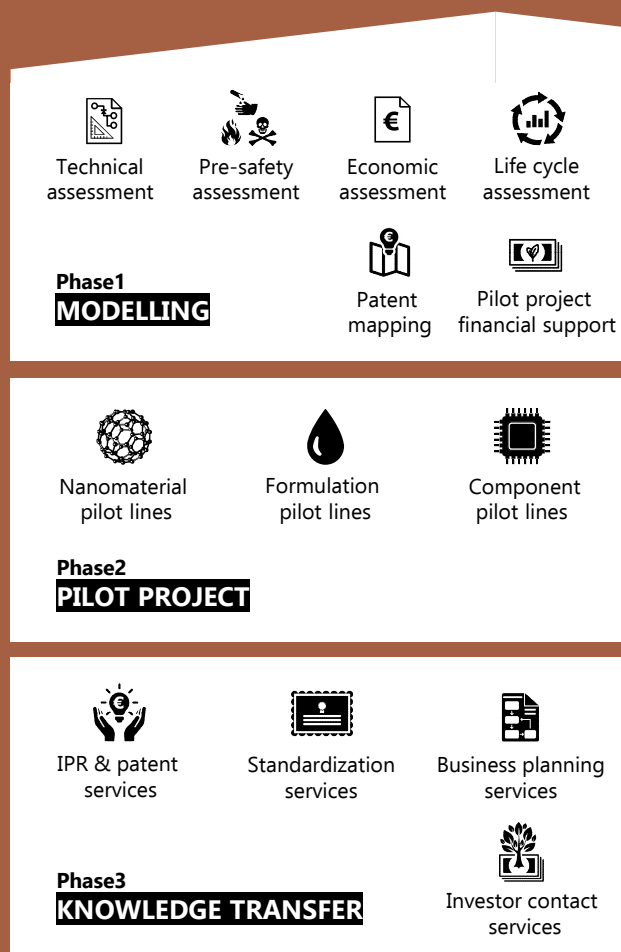
 **Phase1
TECHNO/ECONOMIC MODELLING**

 **Phase2
PILOT PROJECT**

 **Phase3
KNOWLEDGE TRANSFER**

The project started in 2019, with development of services and upgrading of existing pilot lines. We are looking for industrial stakeholders to join our community and be first in line to exploit the LEE-BED concept.

LEE-BED CONCEPT Step by step



Access to state-of-art pilot lines



Nanomaterial pilot lines

- High throughput development line
- Supercritical flow pilot lines
- Solvothermal batch pilot lines
- Gas phase material generator



Formulation pilot lines

- High throughput screening line
- Nano enabled ink pilot lines
- Nano enabled adhesive pilot lines
- Nano enabled composite pilot lines



Component pilot lines

- R2R digital ink-jet printing pilot lines
- 3D multi-material printing pilot line
- R2R SMD pilot line
- Smart packaging pilot lines

