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# OASIS

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Open Access Single entry point for  
scale-up of Innovative Smart lightweight  
composite materials and components

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# OASIS Project

The OASIS project aims at fulfilling market potential of nano-enabled multifunctional lightweight products by:

- Gathering the manufacturing capacity of 12 pilot lines from nanoparticles to final product.
- Establishing a thorough service offer for associated technical & business development
- Granting direct access to the whole ecosystem through a Single Entry Point, for easier access especially for SMEs.

Oriented towards enhanced polymer-matrix composites and aluminium, the pilot lines cover the whole manufacturing chain from nanoscale structures in unprocessed form, to intermediate products with nanoscale features and finally nano-enabled products. So, as to provide full support to interested companies, the new "Open Innovation Test Bed" will also offer complementary

technical (modelling, characterization, toxicology, life cycle assessment) and non-technical services (business innovation coaching, business planning, access to private capital). These modular services will be provided to companies, particularly to SMEs, to gain access to unique facilities and knowledge without high capital investment. Such support is particularly needed at the crossroads between three KETs (nanotechnologies, advanced materials and advanced manufacturing and processes) and in an era of multifunctional products when wide scope of know-how is needed for pre-production or industrial low-medium volume production.



# OASIS Services

## TECHNICAL SERVICES:

- **Design, modelling and simulation**
  - Design supported by theoretical predictive materials models, the multi-physics modelling of the materials and components' smart functionalities and associated simulation services. Modelling of relationships between materials structure and properties at nano- and micro-scales.
- **Process-product engineering**
  - Engineering services that facilitate reaching production to an industrial scale and improving competitive advantage in facilities, such as capacity increase, productivity, online quality, traceability, and the methodology and tools used for the conceptual design for upgrading or develop materials facilities, processing techniques and products
- **Testing and characterisation**
- **Environmental, nano-safety, and regulatory assessment**
  - Including recycling, LCA and standardisation aspects.

## NON-TECHNICAL SERVICES:

- **Business support and coaching to SMEs**
  - Validating the Unique Value Proposition and relevant business model, analyzing competition and customer feedback.
- **Access to finance**
  - Identifying the most relevant funding for each democase (include public and private funding) and networking and clustering activities.
- **Dissemination and marketing**

