



INDTECH2018

Innovative industries for smart growth

29-31 October, 2018
Vienna, Austria

www.indtech2018.eu

[@IndTech2018](https://twitter.com/IndTech2018)

#IndTech2018

PILLAR 3

Session 3.1

Industrially Oriented Infrastructures

Ane Irazustabarrena

TECNALIA

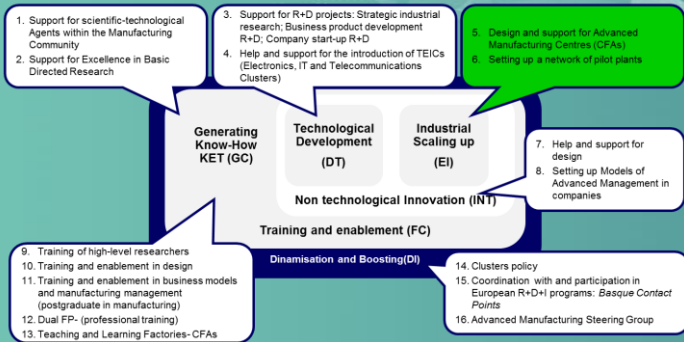
30 October 2018



INDUSTRIALLY oriented INFRASTRUCTURES

- New technologies should be demonstrated and validated in real environments
- It is necessary to create industrially-oriented infrastructures, - including pilot lines, test beds and innovation hubs, which will help European businesses (SMEs) deploy these technologies.

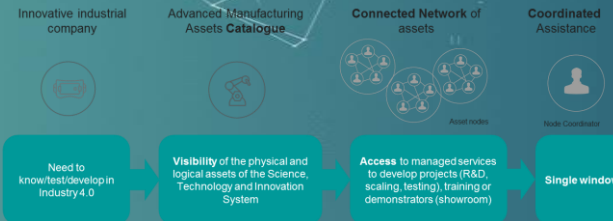
Test Beds/ Pilot Plants ADVANCED MANUFACTURING STRATEGY. INSTRUMENTS TO SUPPORT R&D&I



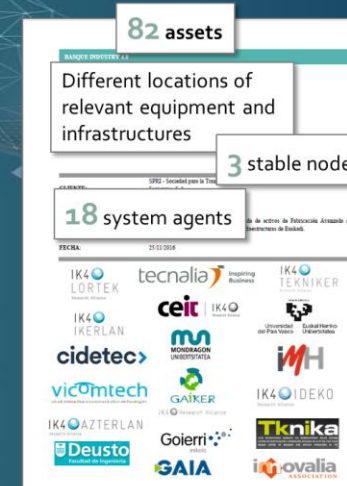
Connected network of Advanced Materials and Manufacturing assets

basque digital innovation hub

The aim of the network is to provide easy and efficient cost access to the Basque industrial fabric, especially to SMEs, to innovative and excellent scientific-technological capabilities in the advanced manufacturing environment, enabling it to evolve and be more competitive.



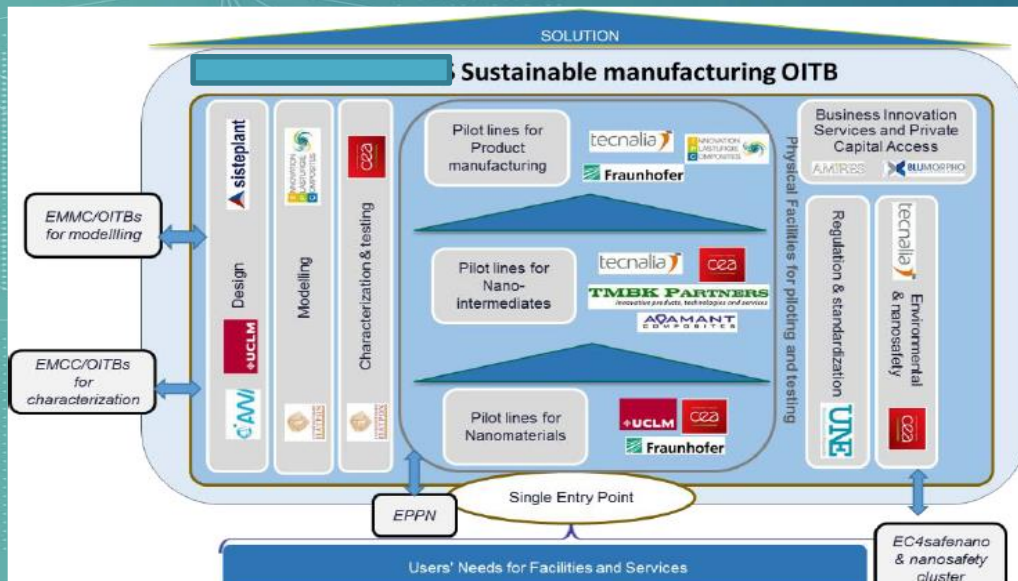
Basque Digital Innovation Hub Connected Asset Network



To date, an Initial "Catalog of Assets" has been built with agents of the System: Technology Centers, Business Associations, Universities, Education Centers

- Capitalization:** taking advantage of investments already made
- Excellence:** provision of state-of-the-art technologies
- Connectivity:** means to connect to a digital network platform
- Multisectoriality:** ability to operate for several sectors
- Testing:** possibility to test a process / service
- Integration:** accessible to various types of agents (applicants, manufacturers, R&D centers, universities, FP centers, etc.)
- Internationalization:** connectable with other European hubs by reference
- Sustainable:** with energy efficiency, less environmental impact

- Build a European network of industrially-oriented infrastructures to ensure rapid technological transformation and uptake in Europe's industry (SMEs).



HORIZON 2020

INDUSTRIALLY oriented INFRASTRUCTURES

PLATFORM ▾ Open access pilot plants for sustainable industrial scale nanocomposites manufacturing based on buckypapers, doped veils and preregs
Access: OPEN

IZADI ▾ Injection moulding, casting and coating PILOTS for the production of improved components with nano materials for automotive, construction and agricultural machinery

INSPIRED ▾ Industrial Scale Production of Innovative nanomaterials for printed Devices.

TOUCHSCREEN

Targets:

- Safe and sustainable nano-enabled products
- Process Repeatability
- Metrology
- High production volumes

Impact:

- Industrial uptake
- Regulatory framework
- EHS circumvention

Research activities:

1. On-line high information content process analytical technology (PAT)
2. Automation of production
3. Model-based predictive control systems.

Carbon Nanotubes

Buckypapers CNT Doped non-woven Veils CNT treated prepreg

EUROPEAN UNION

- Including services for upscaling, characterisation, modelling and prototyping, risk and regulatory assessment and support, according to a gap analysis and prioritisation at European level.

INDUSTRIALLY oriented INFRASTRUCTURES

Key aspects:

- SPECIFIC PROGRAMME TO SUPPORT OPEN INDUSTRIAL INFRASTRUCTURES.
- COORDINATION OF REGIONAL PROGRAMMES
- TECHNOLOGICAL VOUCHERS (mainly by SMEs).
- EUROPEAN CATALOGUE OF INFRASTRUCTURES
- AWARENESS TO INFORM SMES.
- NETWORKING ACTIVITIES AMONG INFRASTRUCTURES
- NON TECHNOLOGICAL SERVICES
- SUSTAINABILITY OF THE SERVICES
- SINGLE ENTRY POINT

INDUSTRIALLY oriented INFRASTRUCTURES

Thank you for your Attention!!!

Ane.Irazustabarrena@tecnalia.com

