



Horizon 2020 Work Programme for Research & Innovation 2018-2020



BUILDING AN OPEN INNOVATION ECO-SYSTEM

Søren BØWADT-Deputy Head of Unit

Advanced Materials and Nanotechnologies •

DG Research & Innovation – Industrial Technologies

Research and

EuroNanoForum, Bucharest

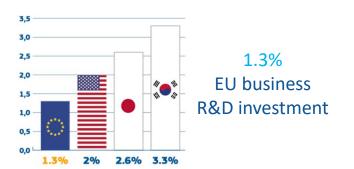
4 June 2019

While benefiting from world-class research and strong industries...

Our knowledge and skills are our main resources.

- \rightarrow 7% of the world's population
- → 20% of global R&D
- \rightarrow 1/3 of all high-quality scientific publications

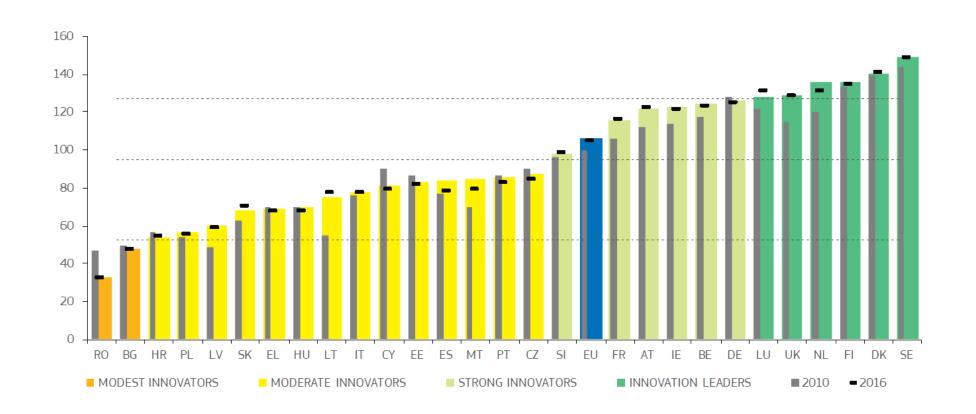




...Europe fails to transform leadership in science into leadership in innovation and entrepreneurship



European Innovation Scoreboard 2018 Summary Innovation Index





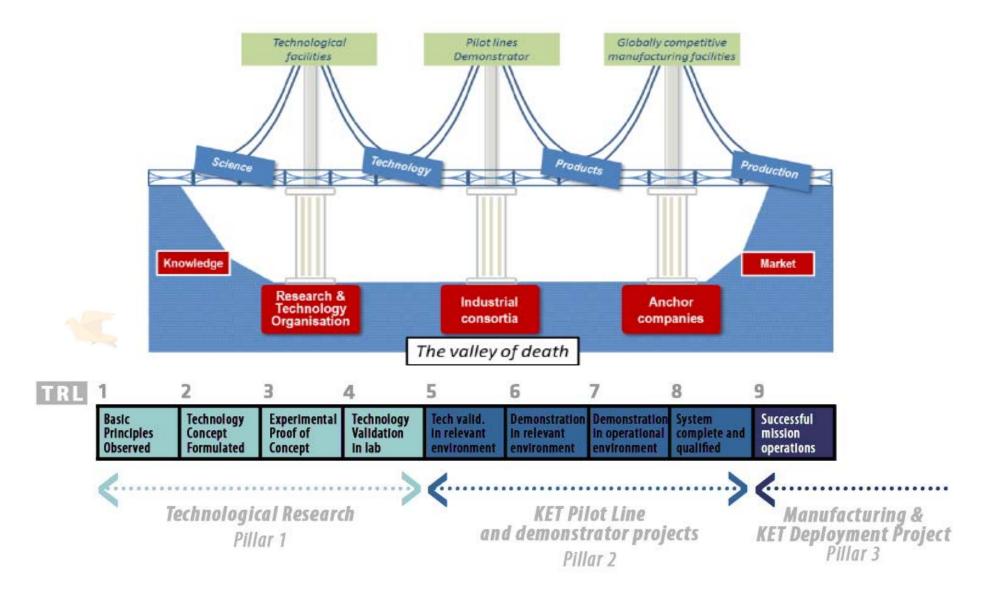
RATIONALE

- ➤ Testing and validation of new technologies essential before commercialisation.
- ► Speed and complexity of innovation is increasing and high capital investment are needed SMEs and industrial start-ups cannot afford investing in own infrastructures.

Availability and access to state of the art technology infrastructures, whether public or private, is essential to accelerate technology diffusion and access to emerging markets



Crossing the valley of death



Overcoming the Challenge of Upscaling: Reduction of Technological Risk & attract investments

MARKET

Energy, Construction, Heath... (Industrial Sectors)

Lightweight materials, Surfaces and Membranes, Bio-Based... (Cross-Cutting Technologies)

ENGINEERING & UPSCALING (TRL 4 to 7)

Pilots

Characteris ation

Modelling

Checking conformity with regulatory frame and standards

Nanotechnology and Advanced Materials









Soren BOWADT Deputy Head of Unit

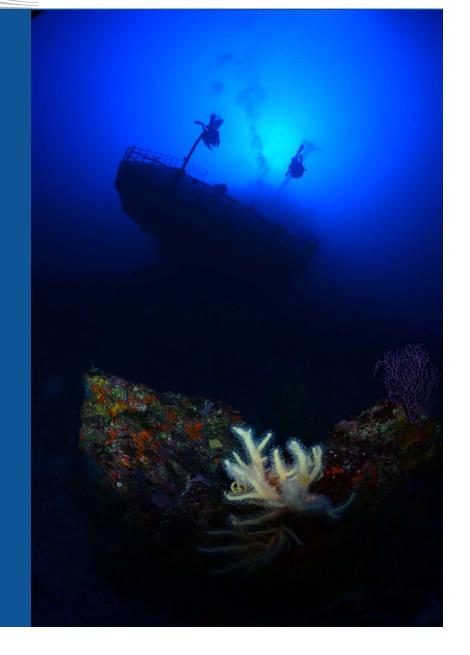
European Commission DG Research & Innovation Advanced Materials and Nanotechnology

COV2 05/105 1049 Brussels/Belgium +32 229-94203

soren.bowadt@ec.europa.eu

About Horizon 2020

http://ec.europa.eu/research/horizon2020/



Further information

Horizon 2020: http://ec.europa.eu/research/horizon2020/index_en.cfm

Key Enabling Technologies, R&I website:

http://ec.europa.eu/research/industrial_technologies/index_en.cfm

Participant Portal - Funding Opportunities and support services : http://ec.europa.eu/research/participants/portal/desktop/en/home.html

National Contact Points in your country (NMP)

http://ec.europa.eu/research/participants/portal/desktop/en/support/national_c
ontact_points.html#c,contact=country/sbq//1/1/0&+person.last_name/desc

National Contact Points website - webinars, presentations, guidance : http://www.nmpteam.eu/

Research Enquiry Service:

http://ec.europa.eu/research/index.cfm?pg=enquiries

CORDIS database with EU funded research projects:

http://cordis.europa.eu/projects/home_en.html

