

KET*



INNOVATE
TOGETHER

Focus on () Key Enabling Technologies - nanotechnologies, advanced materials, advanced manufacturing and processing*

27th June 2019 - Strasbourg - FRANCE

Workshop 4 - Foundations for tomorrow's industry

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BE on KET* 360° INNOVATE TOGETHER

I. Excellent Science

ERC

FET

Marie-Skłodowska-Curie

Research Infrastructures

II. Industrial Leadership

LEIT

Leadership in enabling and industrial technologies:

ICT, Nanotechnology, Materials, Biotechnology, Manufacturing and Processing, Space

Access to risk finance

Innovation in SMEs

III. Societal Challenges

Health, Demographic Change and Wellbeing

Food Security, Sustainable Agriculture,...Bioeconomy

Secure, Clean and Efficient Energy

Smart, Green and Integrated Transport

Climate Action, Environment, Resource Efficiency,...

...Inclusive, innovative and reflective societies

Secure Societies,...

Spreading Excellence and Widening Participation

Science with and for Society

JRC

EIT

Some names are shortened

NMBP work programme 2020

Foundation for tomorrow`s industry

- Open innovation test beds (OITB) **(NMBP)**
- Materials characterisation and computational modelling **(NMBP)**
- Governance, science-based risk assessment and regulatory aspects **(NMBP)**
- Industry commons **(NMBP)**

Transforming european industry

- Factories of the future **(FOF)**
- Biotechnology **(BIOTEC)**
- Medical technology innovations **(NMBP)**

Industrial sustainability

- Sustainable process industry **(SPIRE)**
- Clean energy through innovative materials **(NMBP)**
- Energy-efficient buildings **(EEB)**

Call – building a low-carbon, climate resilient future

- Next-generation batteries **(BAT)**
- A large-scale Initiative on future battery technologies **(BAT)**

Call – competitive low-carbon and circular industries

- Circular economy **(NMBP)**
- Sustainable process industry **(SPIRE)**

Foundation for tomorrow's industry

Objectives work programme 2018-2020:

- Laying the foundations for tomorrow's industry in Europe
- Create jobs and growth through an innovation ecosystem for the design, development, testing, and upscaling of advanced materials and nanotechnologies
- 20 Open Innovation Test Beds for materials development and upscaling in six technology domains
- 4 OITBs for materials characterisation
- Contribution to the focus area on Digitising and Transforming European Industry and Services - DT

Foundation for tomorrow`s industry

1.1 Open innovation test beds

DT-NMBP-04-2020: Open Innovation Test Beds for nano-enabled bio-based materials (IA)

DT-NMBP-05-2020: Open Innovation Test Beds for materials for building envelopes (IA)

DT-NMBP-06-2020: Open Innovation Test Beds for nano-pharmaceuticals production (IA)

1.2 Materials characterisation and computational modelling

DT-NMBP-11-2020: Open Innovation Platform for Materials Modelling (RIA)

NMBP-35-2020: Towards harmonised characterisation protocols in NMBP (RIA)

1.3 Governance, science-based risk assessment and regulatory aspects

1.4 Industry Commons

DT-NMBP-39-2020: Towards Standardised Documentation of Data through taxonomies and ontologies (CSA)

DT-NMBP-40-2020: Creating an open market place for industrial data (RIA)

Open Innovation Test Beds

- minimum requirements:
three physical facilities (e.g. pilot lines) in three different member states or associated countries
- taking into account European regions wishing to build or improve their capacity
- close cooperation to ensure complementary service offerings
- Creation of networks of excellence along the value chain

Open Innovation Test Beds

Aim:

- Advancement of already existing pilot lines and test beds of the private-sectors – stronger orientation on the industrial need
- One-stop-shop for new material concepts from the first prototype to the industrial use
- Including further service offerings (e.g. characterisation, modelling und market analysis)
- Five years after funding period: annual turnover equal or higher than four times the funding amount.
- Business Case necessary

NMBP work programme 2020

Call opening:	03.07.2019
Deadline stage 1/2:	12.12.2019
Deadline full proposals	05.02.2020
Deadline stage 2/2:	14.05.2020
Project start:	not later than eight months after deadline

Format of this work shop

pitch to highlight, discuss and develop new project ideas/concepts on Key Enabling Technologies – NMBP at international level

Who is presenting?

What expertise or project idea?

Which topic?

Who or what is needed?

5-7 min per pitch

Up to 3 min of questions