



#InvestEUresearch

BOOSTING INNOVATION FOR EU INDUSTRY: Industrial Infrastructures & Open Innovation Ecosystems

OPEN INNOVATION TEST BEDS AND OPPORTUNITIES

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Research and
Innovation

Boosting Innovation for EU industry

What?

- The "Boosting Innovation for EU industry" tour is a series of 3-4 events in different locations in Europe to raise awareness on the opportunities for researchers and innovators in the member states and reach out to local citizens/communities.
- Occasion to discuss Open Innovation Test Beds, Digital Innovation Hubs, Centers for Key Enabling Technologies (KETs and regional centers) and more.

Why?

- Transition from Horizon2020 to Horizon Europe.
- Encourage local innovation or technology transfer nodes to attract new actors, increase networking opportunities and deploy best practices in attracting newcomers.



Objectives



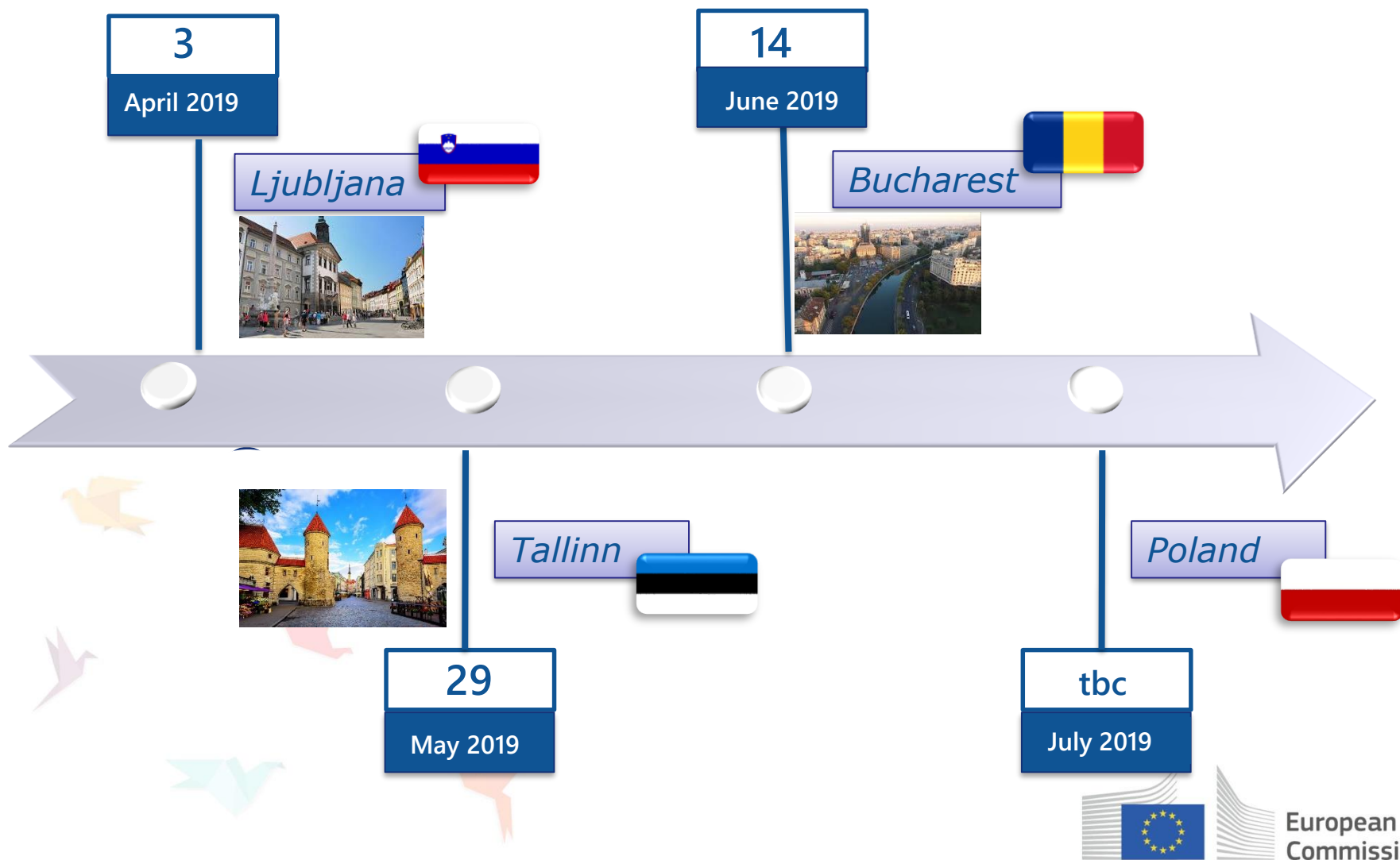
Discuss boosting innovation in Europe through a pan-European innovation industrial ecosystem **with local players and Commission Services concerned (RTD, REGIO, GROW, CNECT and JRC)**

Present different EU national and regional **initiatives** to support innovation, access to industrial infrastructures, financial support to boost innovation beyond 2020

Showcase several **excellent examples** of innovation support with special emphasis on the targeted countries and link them to the needs of the local industry.

Networking and matchmaking

Events Timeline



Open Innovation and Technology Infrastructure



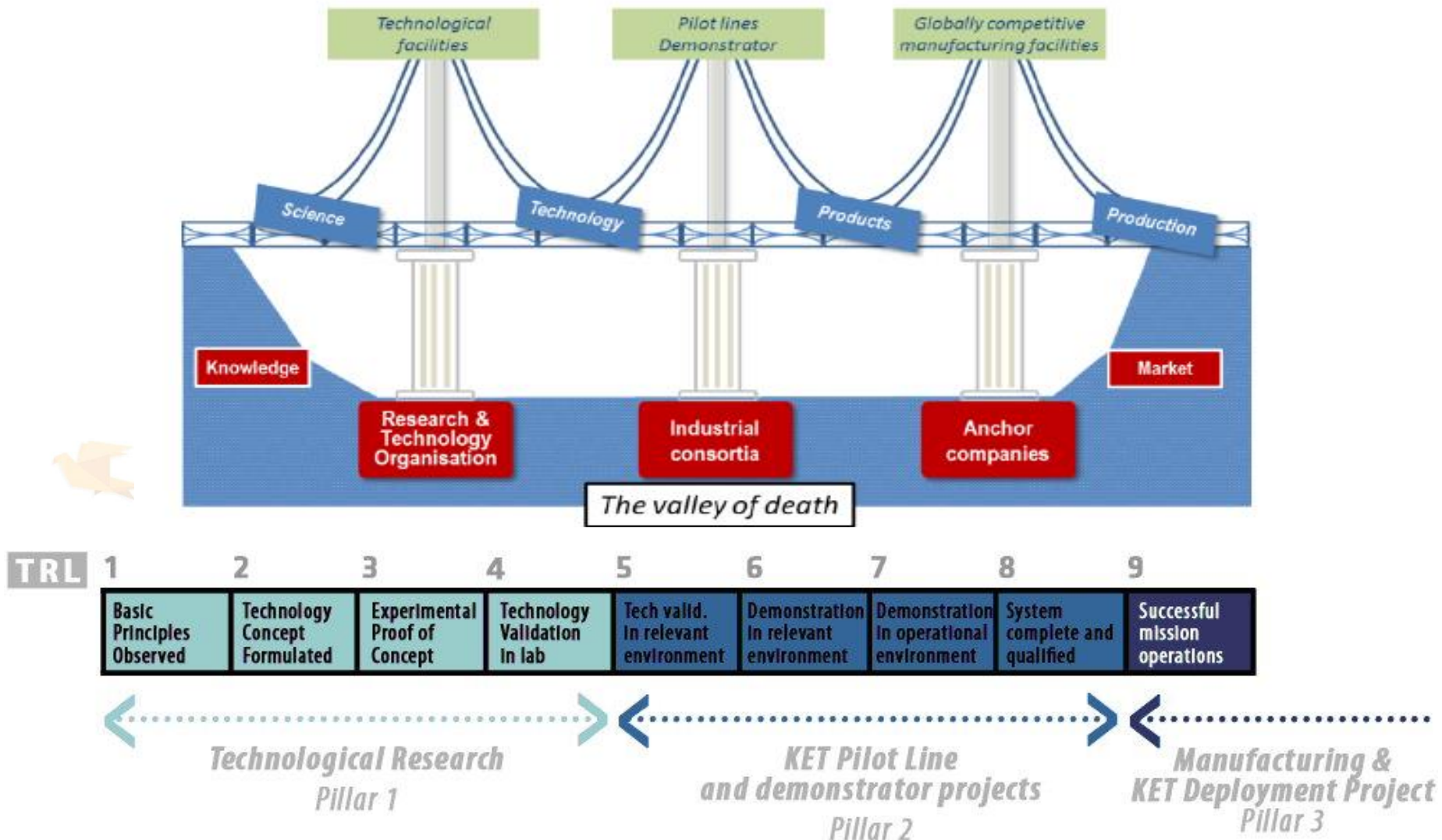
Open Innovation Test Beds

RATIONALE

- **Testing** and **validation** of new technologies essential before **commercialisation**.
- **Speed** and **complexity** of innovation is increasing and **high capital investment** is needed. SMEs and industrial start-ups cannot afford to invest 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



National Initiatives: the example of Testbed Sweden

Budget

Inaugurated in **2014** with an initial budget of 500 MSEK,

- 50% through ERDF, Sweden's Innovation Agency (Vinnova) and regional public grants

- 50% through bank loans guaranteed by five industrial partners

Testbed Sweden: <https://www.vinnova.se/en/m/testbed-sweden/>

AstaZero: <http://www.astazero.com/>

Support

The Vinnova support was made through the Swedish Strategic innovation programme for Vehicles, allowing SMEs, start-ups and universities to use the infrastructure

Customers

A large proportion of their customers are small and medium-sized companies and universities who are responsible for approximately 30% of their revenues

EU-Added Value

Each test bed will:

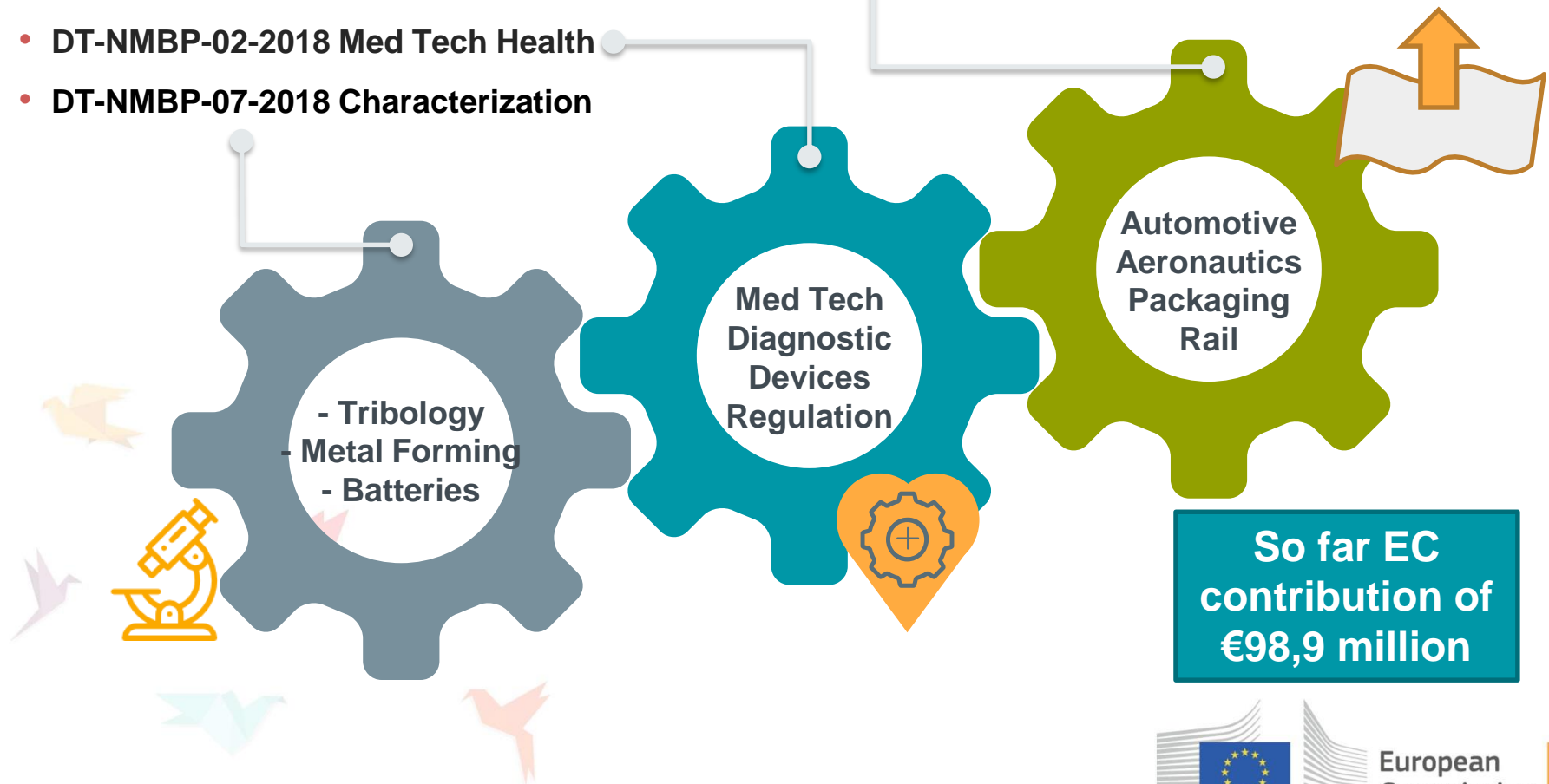
- **Offer access from the EU and outside**
- **Reduce costs for accelerating materials production**
- Harmonise conditions for materials upscaling, characterisation and modelling to improve internal market access
- **Increase return on investment in materials research**
- Provide information on EU regulations, making the materials development process more efficient
- **Easier marketability of products in Europe (e.g. non-European products to be tested in accordance to EU regulations to enter the market)**

20 OITBs planned in 6 domains

- **Lightweight nano-enabled multifunctional materials and components**
- Safety Testing of Medical Technologies for Health
- **Nano-enabled surfaces and membranes**
- Bio-based nano-materials and solutions
- **Functional materials for building envelopes**
- Nano-pharmaceuticals production

Open Innovation Test Beds – 10 projects started in 2019

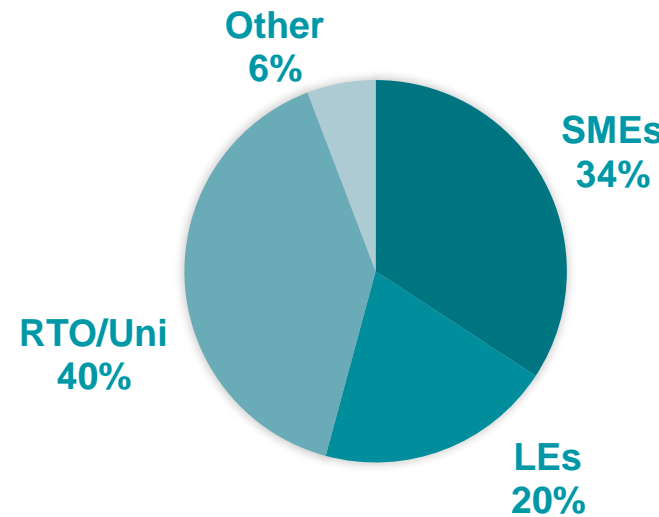
- DT-NMBP-01-2018 Lightweight
- DT-NMBP-02-2018 Med Tech Health
- DT-NMBP-07-2018 Characterization



Open Innovation Test Beds – 10 projects starting early 2019

Current participation
reflects offers from
most of Europe...

...but services open
to all of Europe!



% of Participants by Type

Open Innovation Test Beds – Future Calls

> EUR 250 million is planned over NMBP WP2018-2020

- DT-NMBP-01-2018 Lightweight
- DT-NMBP-02-2018 Med Tech Health
- DT-NMBP-07-2018 Characterization
- DT-NMBP-04-2020: Bio-based
- DT-NMBP-05-2020: Building envelopes
- DT-NMBP-06-2020: Nano-pharmaceuticals

2018

2020

2019

- DT-NMBP-03-2019 Surfaces and membranes

For more info:

http://ec.europa.eu/research/participants/data/ref/h2020/other/guides_for_applicants/h2020-im-ac-innotestbeds-18-20_en.pdf

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_contact_points.html#c,contact=country/sbg//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



Thank you!

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<http://ec.europa.eu/horizon-europe>