



**UNIMORE**  
UNIVERSITÀ DEGLI STUDI DI  
MODENA E REGGIO EMILIA

# **Opportunità di partecipazione della JRU – MIRRI-IT al Programma Horizon 2020**

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**Modena  
13 Novembre 2017**

# Joint Research Unit

Un gruppo di lavoro stabile basato su un accordo di collaborazione fra diverse entità legali; sono riconosciute dalla normativa europea dei Programmi Quadro della Ricerca Europea, ma non configurano di per sé un autonomo soggetto di diritto.

Le JRU raccolgono partners a livello nazionale per la realizzazione di progetti in una determinata area di ricerca

**MIRRI-IT:** facilitare la collaborazione tra gli aderenti e consentire il rafforzamento della presenza italiana a livello europeo.

# In Horizon 2020

*JRUs do not have a separate legal personality, but form a single research unit where staff and resources from the different members are put together to the benefit of all. Though lacking legal personality, they exist physically, with premises, equipment, and resources individual to them and distinct from 'owner' entities.*

A member of the JRU that is the beneficiary and another member of the JRU contributing to the action may be called “linked”

the second one is not a beneficiary of the GA and

has to be identified (Article 14 GA “IMPLEMENTATION OF ACTION TASKS BY LINKED THIRD PARTIES”)

- Legal link to the beneficiary implies a collaboration that is not limited to the action/project
- Third party with a legal link to a beneficiary is NOT beneficiary, but it is allowed to participate fully in the action and receive EU funding.

# Microorganism communities for plastics bio-degradation

- The Problem:
  - To identify novel biotechnological approaches to be applied for the sustainable biological degradation of mixtures of recalcitrant and degradable plastics
  - Friendly and sustainable solutions for managing the waste of plastics mixtures based on the use of communities of microorganisms with a set of complementary enzymes
- The microbial organisms will turn plastic mixtures into chemical constituents facilitating mineralisation, composting of otherwise recalcitrant and toxic polymers and facilitating production of high value products. Polymers such as polystyrene can also be included in the proposals.

# Microorganism communities for plastics bio-degradation

Proposals should:

- produce cocktails of enzymes using communities of microorganisms capable of degrading mixtures of biodegradable and currently non-biodegradable plastics into more basic chemical constituents;
- use a multidisciplinary approach based on biotechnology;
- create high value products and valorise mixed plastic waste.

This topic is part of the **EU-China flagship initiative** *on Biotechnology for Environment and Human Health*.

Start at TRL 3 and achieve TRL 5

EUR 5 million - Max 2 proposals approved

Opening: 16 Oct 2018

Deadline: 24 Apr 2019

# Anti-microbials and animal production

- The Problem:
  - the emergence and spread of microbes that resist anti-microbial treatment
  - anti-microbial resistance (AMR) is responsible for an estimated 25 000 deaths yearly and over EUR 1.5 billion of healthcare costs and productivity losses in the EU alone
- A. [2018] Rethinking management of health of farmed animals (RIA) – 31 Oct 2017 - 13 Feb 2018 (First Stage)
- B. [2019] Alternatives to anti-microbials (RIA) – 16 Oct 2018 - 23 Jan 2019 (First Stage)

# Anti-microbials and animal production

- Proposals should liaise with other relevant EU projects and initiatives such as JPI AMR
- develop options for reducing the use of anti-microbials in farming (scope A);
- develop alternative intervention measures (from TRL 5-6 to TRL 7 (scope B)).
- EUR 6million



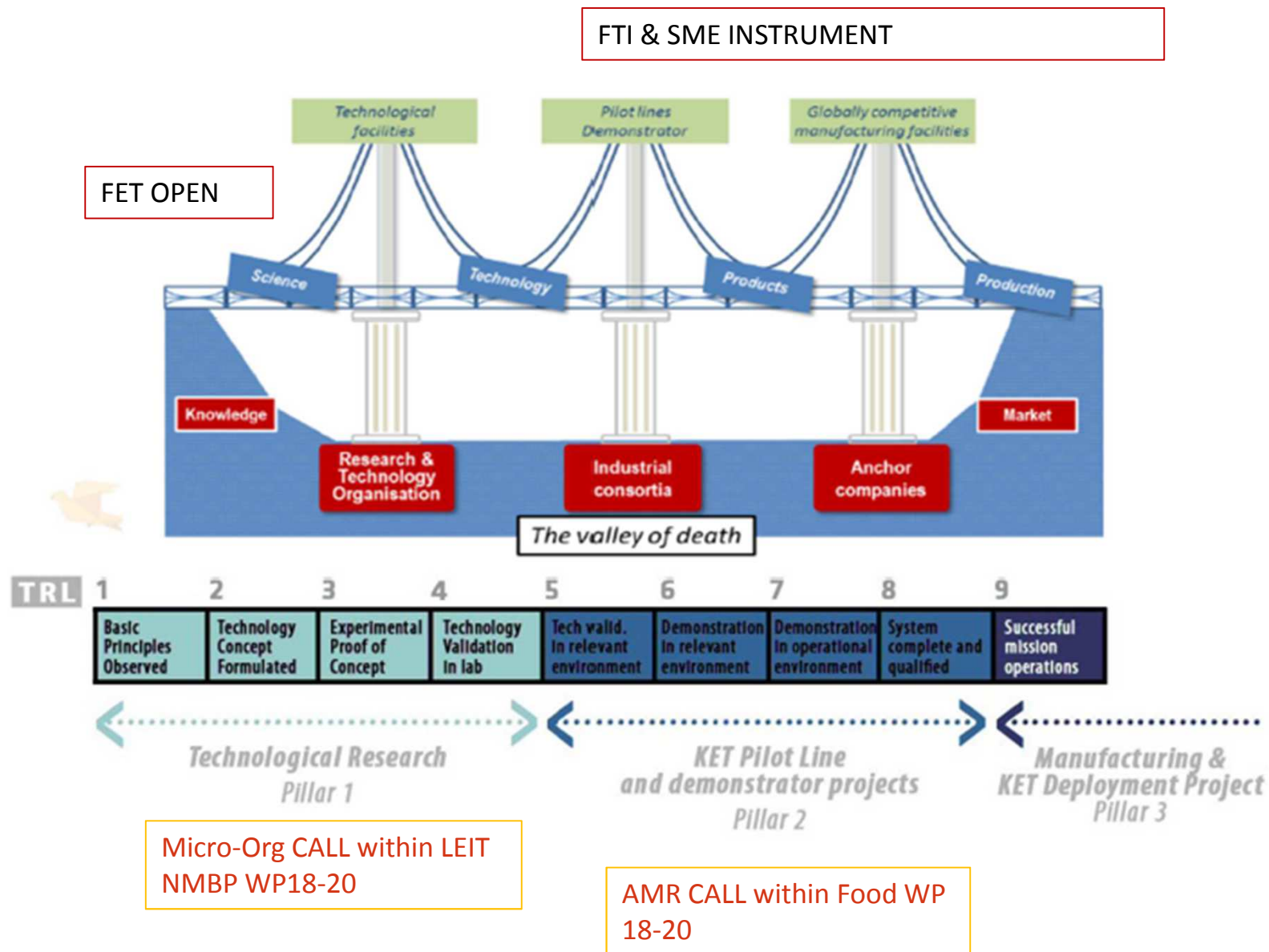
## European Innovation Council

Pilot Initiative supporting *innovators* developing *breakthrough innovations* with the potential to create *new markets and boost jobs, growth and prosperity* in Europe.

- Instrument:
  - **SME Instrument:** Close-to-market and scale-up projects of a single SME or a consortium of SMEs;
  - **Fast Track to Innovation:** Close-to-market projects of consortia with 3 to 5 entities. Industry **must** participate. Interdisciplinary approaches encouraged.
  - **FET Open:** Early-stage, science and technology research by consortia exploring novel ideas for radically new future technologies that challenge current paradigms and venture into the unknown



# Innovation - Crossing the Valley of Death



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**THANK YOU**