

## DRAFT

### Implementation scheme for 'KETs and MultiKETs initiatives' in Horizon 2020

#### 1- KETs & multiKETs initiatives: funding lines within Horizon 2020

In Horizon 2020, both single KET and multiKETs initiatives will be supported under different strategic pillars (funding boxes).

A- Within the 'Industrial Leadership' pillar, KETs are managed under the "*Leadership in Industrial and Enabling Technologies*" chapter. The Commission proposal intends to allocate an overall support of ca. 6.663 B€ to all KETs activities:

- Already existing single KETs programmes, managed under the responsibility of two DGs (ex : microelectronics and photonic s programmes are within DG INFSO with an expected support level of 1.7 B€ in Horizon 2020; advanced materials, nanotechnology, processing (advanced manufacturing systems) and industrial biotech lie with the responsibility of DG Research & Innovation)
- Horizon 2020 introduces for the first time a new approach to KETs by having "cross-cutting KETs" activities, which will be managed under a joined governance structure including the relevant services (INFSO, RTD, ENTR and possibly REGIO). This governance body will decide together on a multi-annual work programme for cross-cutting KETs and ensure linkages to societal challenges applications of KETs. The level of support lies at 30% of the overall KETs budget (ca. 2.2 B€).

B- Within the 'Societal Challenges' pillar, it has been communicated that KETs appear in:

- all the Societal Challenges (but without further precision).

#### 2- KETs and multiKETs initiatives: content

The multi-annual work programme for cross-cutting KETs projects will focus on mainly 2 activities:

- **Prototyping, testing, demonstrating, experimental development, piloting:** set up of new equipment and processes for an advanced technology; including design, fabrication and test of prototypes to **increase the technological capability of European Industry**

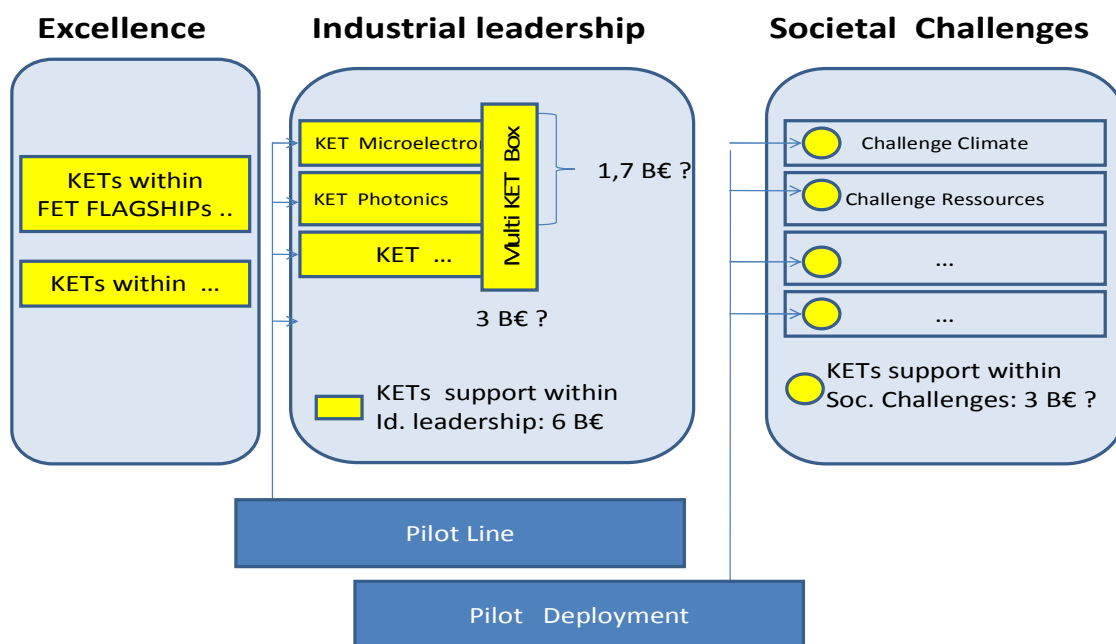
- **PILOT DEPLOYMENT:** pioneer deployment of KETs based new products, systems and services; to provide the technological and product building blocks to **accelerate the emergence of new markets with high societal impact; whilst at the same time creating and / or strengthening European value chains.**

#### 3- Proposal:

With regard to the structure of H2020, the implementation scheme is proposed as follows:

- **Prototyping, testing, demonstrating, experimental, piloting** activities would be supported within single KET and cross-cutting KETs programmes, within the 'Industrial Leadership'/LEIT programme
- whilst
- PILOT DEPLOYMENT actions will be supported within 'Societal Challenges' programmes.

This is represented conceptually in the figure below:



Significant KET or multiKETs projects might contain both pilot line and pilot deployment actions. In this case they will have to answer to both 'Industrial Challenges' and 'societal challenges' programmes for support.

It is therefore important that appropriate mechanisms for coordination of the overall European KETs initiatives are put in place; in particular with regard to the selection process of these calls, respectively by 'Industrials leadership' and 'Societal Challenges'.

#### 4. Summary:

It is recommended that to achieve the full implementation of the recommendations of the High level Group on Key Enabling Technologies, that:

- A strong programme for PILOT LINE research and development activities would be initiated within single KET and MultiKETs boxes, within the 'Industrial Leadership' LEIT programme and
- Each Societal Challenge programme should pro-actively identify opportunities to use European KET technology building blocks in solutions to their challenges and support their deployment within Europe to further strengthen European value chains capable of responding to European societal challenges.