

HORIZON 2020

The Innovation Dimension

Marrakesch, 11.06.2014

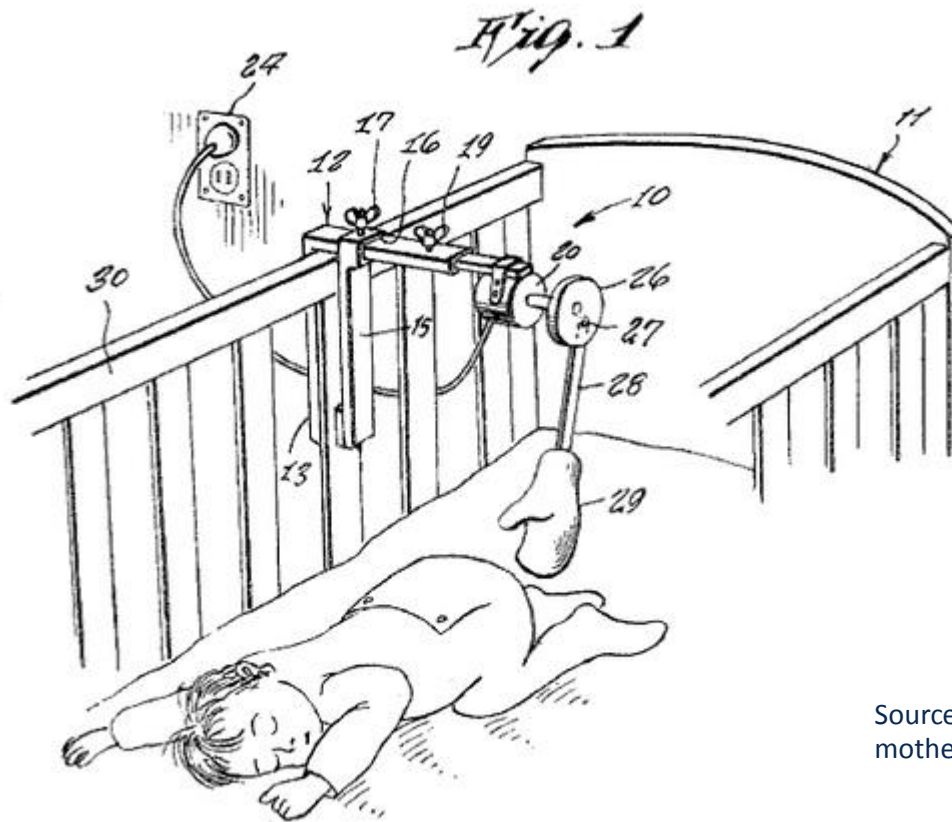
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HORIZON 2020, An Overview

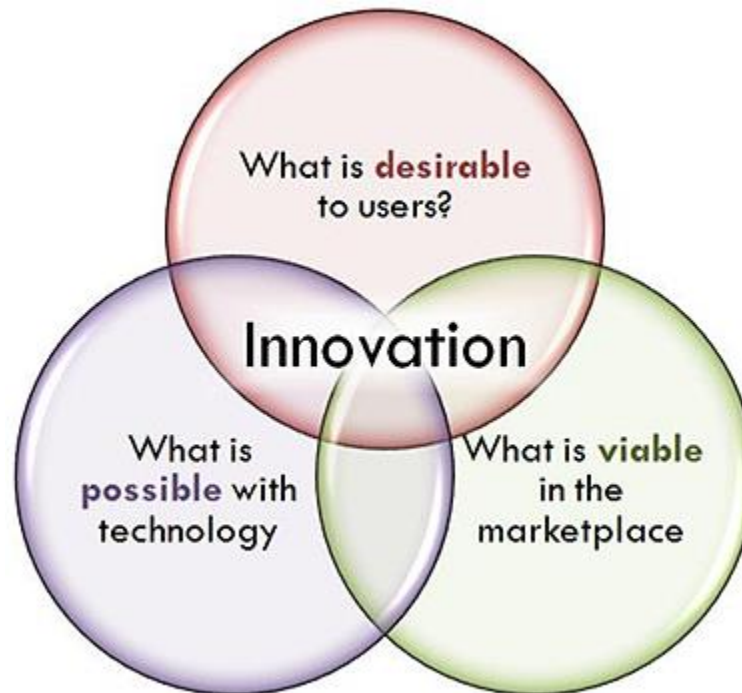
This session aims at providing a comprehensive overview of how the innovation dimension should be successfully and effectively included in research proposals, particularly in those having a strong international connotation and addressing main societal challenges in the region (water, food, energy, health etc). Further, the issue of public-private partnerships, including SMEs, will be addressed and an envisaged project (Vallis Solaris) be presented.

Difference between Invention... (Baby patting machine)



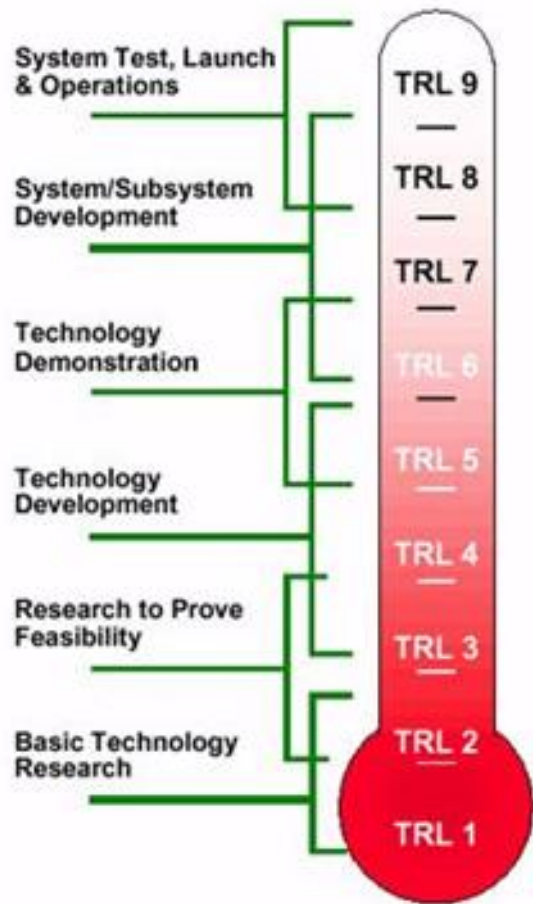
Source: <http://www.futilitycloset.com/2008/04/15/the-mother-of-invention/>

...and an Innovation



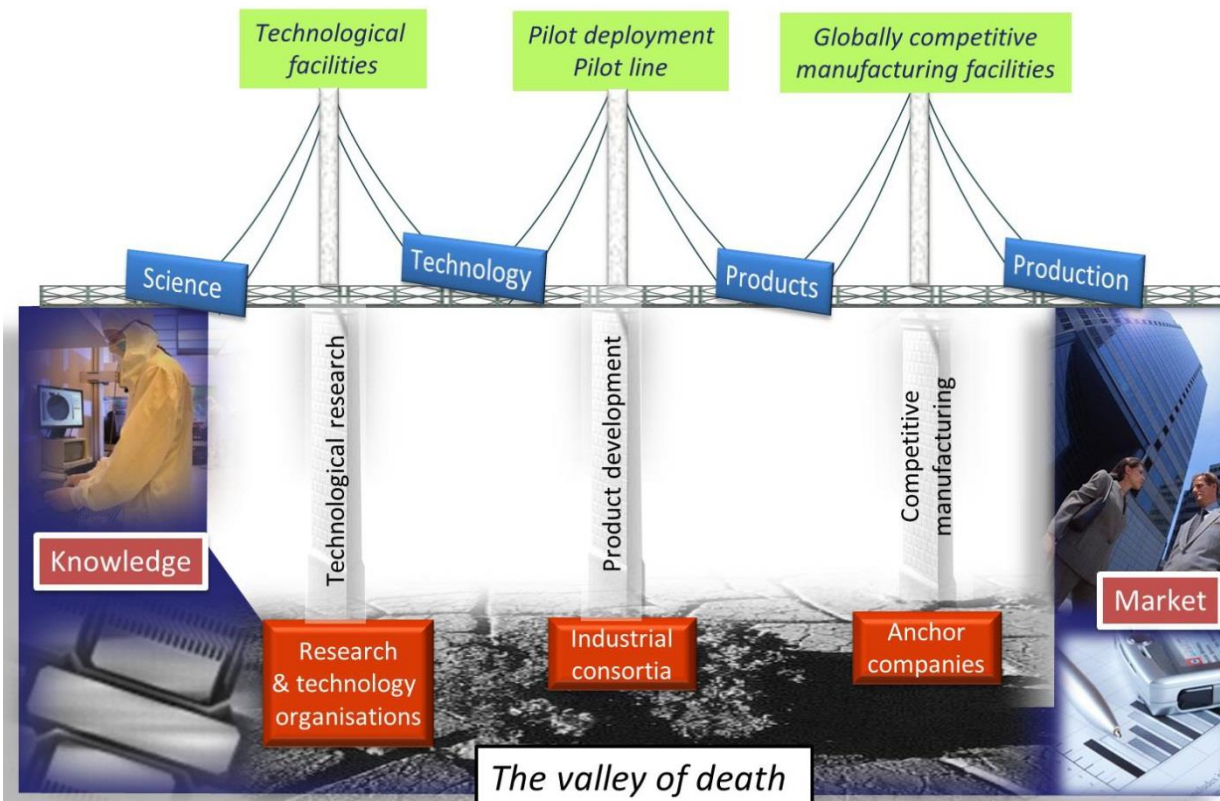
Source: <http://http://www.guerrillaonline.com/cs/Importance-of-Innovation-78.htm>

How to see where you are on the way to a product



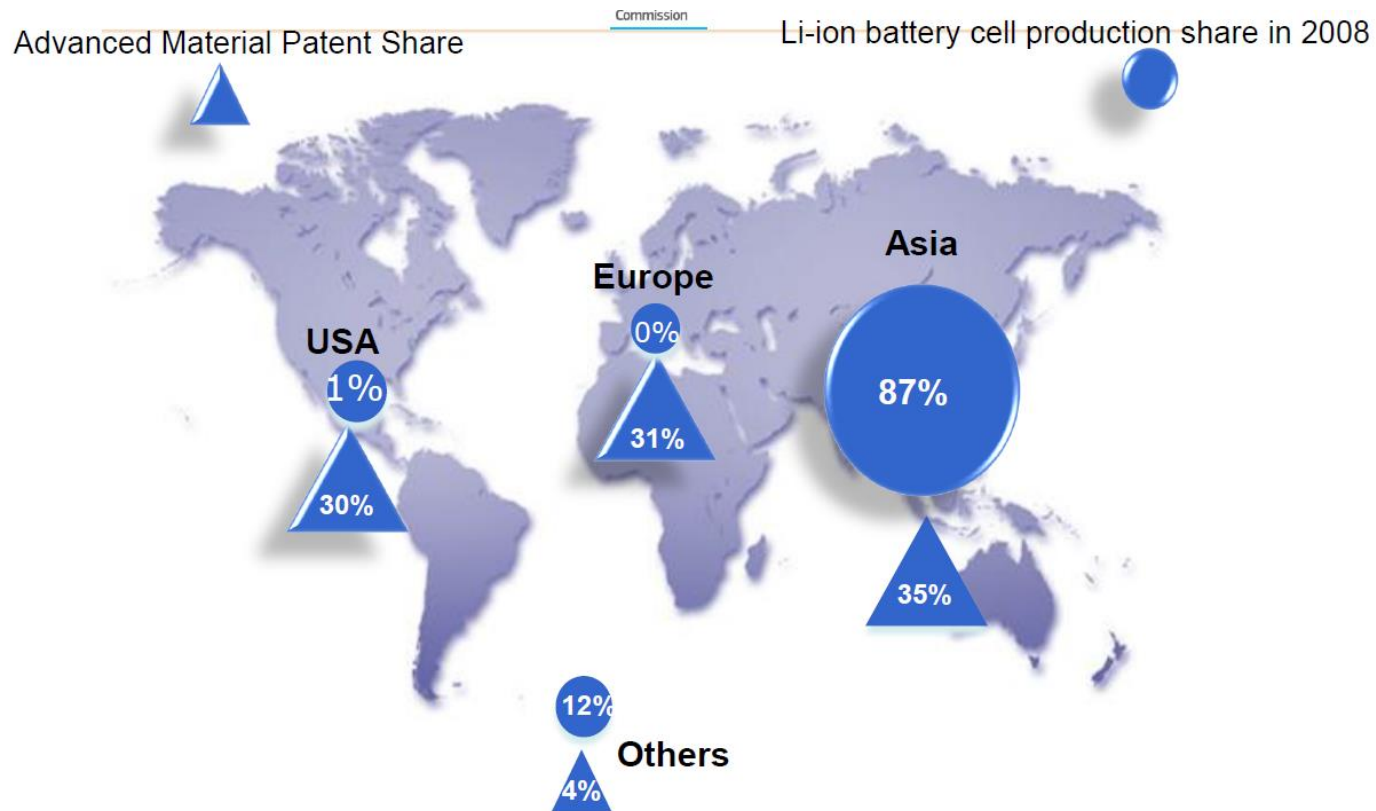
Technology readiness levels (TRLs) are measures used to assess the maturity of evolving technologies (devices, materials, components, software, work processes, etc.) during their development...Generally speaking, when a new technology is invented ...it is not suitable for immediate application. Instead, new technologies are usually subjected to experimentation, refinement, and increasingly realistic testing. Once the technology is sufficiently proven, it can be incorporated into a system/subsystem.

EC & Innovation: Horizon 2020 view (I)



Quelle: EC

EC & Innovation: Horizon 2020 view (II)



Source: European Competitiveness Report 2010, European Competitiveness in Key Enabling Technologies (TNO/ZEW), CGGC, Lithium-ion Batteries for Electric Vehicles: THE U.S. VALUE CHAIN, October 2010

Research and

EC & Innovation: Horizon 2020 view (III)

E.g.: Developing new technologies to solve societal problems

*Reducing dependence on critical resources and energy;
customising healthcare; critical components of energy
technologies; clean water; waste avoidance and recovery;
towards the circular economy (environment)*

Innovation in Horizon 2020 in practice - proposal -

1. Excellence

1.1 Objectives

1.2 Relation to the Work Programme

1.3 Concept and approach

1.4 Ambition

- Describe the advance your proposal would provide beyond the state-of-the-art, and the extent the proposed work is ambitious. Your answer could refer to the ground-breaking nature of the objectives, concepts involved, issues and problems to be addressed, and approaches and methods to be used.
- Describe the innovation potential which the proposal represents. Where relevant, refer to products and services already available on the market. Please refer to the results of any patent search carried out.

Innovation in Horizon 2020 in practice - proposal -

2. Impact

2.1 Expected impacts

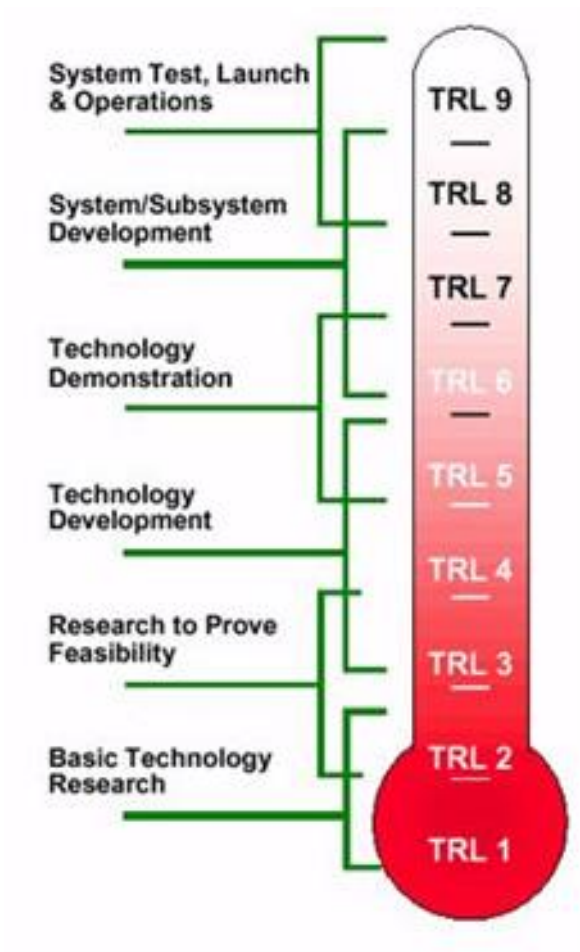
- Describe how your project will contribute to:
 - o the expected impacts set out in the work programme, under the relevant topic;
 - o improving innovation capacity and the integration of new knowledge (strengthening the competitiveness and growth of companies by developing innovations meeting the needs of European and global markets; and, where relevant, by delivering such innovations to the markets;
 - o any other environmental and socially important impacts (if not already covered above).

...

2.2 Measures to maximise impact

a) Dissemination and exploitation of results

Horizon 2020 – Innovation level in Call texts



- the workprogrammes include information what TRL should be achieved at the end of the project
- partly information on what TRL the project should start

Innovation in Horizon 2020 in practice - call text -

Topic: Closing the research and innovation divide: the crucial role of innovation support services and knowledge exchange

...

Scope: Projects should involve actors from science and agricultural practice and facilitate the exchange on existing knowledge on innovative approaches in agriculture, the supply chain, and rural areas. They should help to put existing research into practice and capture creative ideas from the grassroots-level. Methods for generation of innovation-driven research should be promoted taking into account the diversity of European regions, farming and agro-food systems.

...

Expected impact:

Improved flow of information and knowledge between academia and practitioners in particular on agricultural and forestry practices and innovations
increased exchanges between European regions on innovative matters; new funding formats enhancing innovation-driven research; more efficient methods for innovation support services

Innovation in Horizon 2020 – why to participate

- **Creation of new knowledge**
- **Cooperation across borders**
 - **countries AND**
 - **Science**
- **Application of knowledge**
- **Capacity building**
-



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Thank you for your attention!

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