Key enabling technologies Tapping into the potential of hightechnologies

Michel CATINAT CLORA – 25 Mai 2011



The KETs Initiative

The KETs Communication

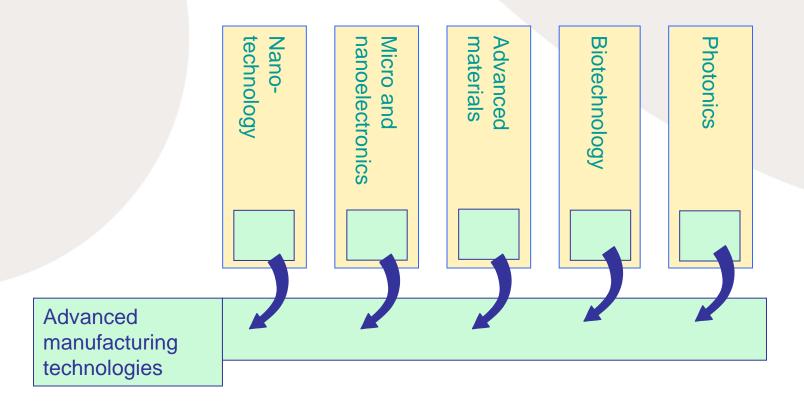
- Despite good R&D capacities in KETs, the EU is less successful in capitalising on these results.
- A more strategic approach is required to deploy these technologies in the EU.

Communication on Key Enabling Technologies – Sept 2009



- Identifies the KÉTs that strengthen the EU's industrial and innovation capacity to address the societal challenges ahead
- Proposes a set of policy measures to improve the related framework conditions.

Five Key Enabling Technologies + 1



Importance of KETs on the EU policy agenda

Europe 2020 and its flagship initiatives

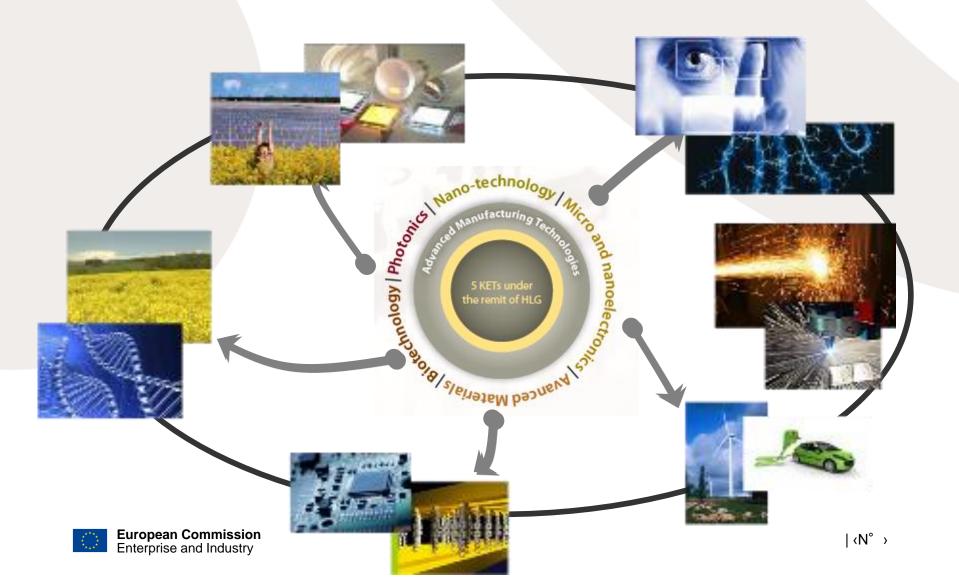


Digital Agenda

- Nanotechnology
- Micro- & Nano-electronics
- Photonics
- Advanced Materials
- Biotechnology
- Advanced Manufacturing Systems

Key Enabling Technologies

The basis for product solutions to address societal challenges



Case Example: the electric car



The High-Level Expert Group on KETs

High Level Expert Group on KETs

27 High Level Group members

+ Sherpa Group + Technology-specific Working Groups

Mission of the KETs HLG

- To assess the competitive situation of the relevant technologies in the EU with a particular focus on industrial deployment and their contribution to address major societal challenges;
- To analyse in depth the available public and private R&D capacities for KETs in the EU;
- 3. To propose **specific policy recommendations** for a more effective industrial deployment of KETs in the EU.





The HLG's composition

27 members nominated in a personal capacity with the following composition:

President

Industry

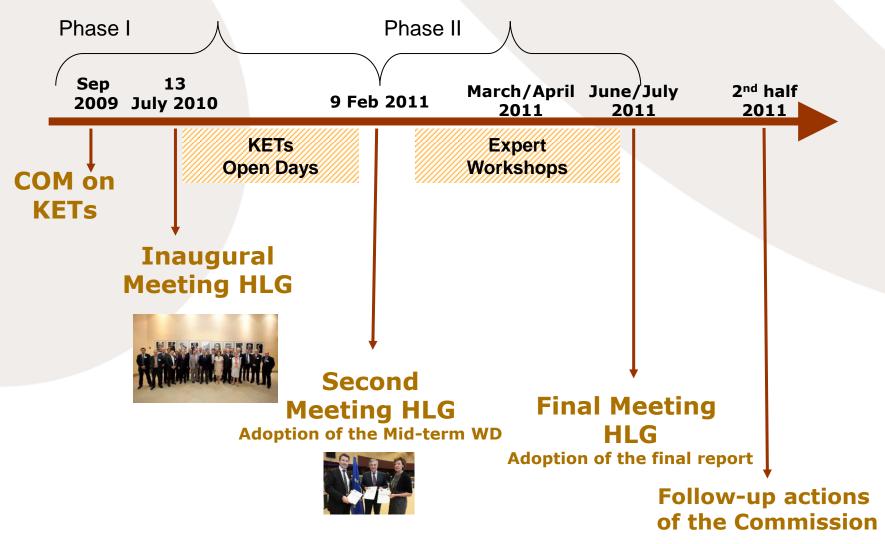
Research

Member States

Others

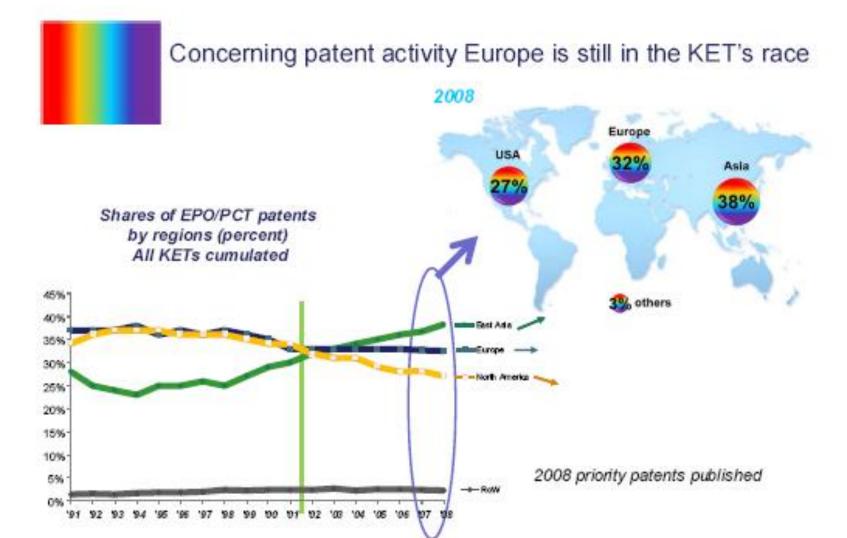
- 14 representatives of the relevant European industries (5 KET areas; carbon capture and storage; advanced manufacturing systems)
- 3 representatives of downstream industries.
- 4 representatives of the applied research community (RTOs)
- 3 representatives of Member States, which have strong R&D and industrial capacities in KETs.
- 1 representative of the EIB with experience in venture capital.
- 1 representative of SMEs

HLG Timeline



Preliminary findings

The mid-term working document

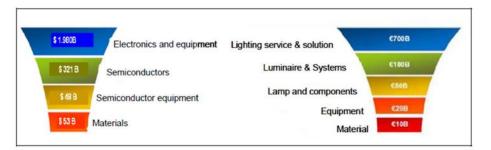


Source: European Competitiveness Report 2010, European Competitiveness in Key Enabling Technologies (TNO/25W), TKM/2011.

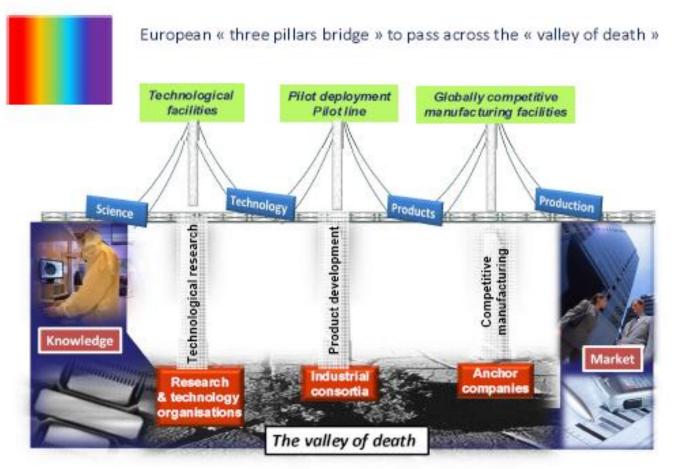
An integrated approach to KETs

- KETs feed into many different value chains in very heterogenous ways
- KETs are strategic all along value chains
- A single and integrated approach to KETs is needed





Problem analysis: the valley of death



Building the bridge

1. Technological Research

Transforming ideas into technologies (proof of concept, IPR)

2. Product Development

 Allowing the transformation of KETs into innovative products by putting prototyping, pilot lines and market replication facilities into place

Globally Competitive Manufacturing Facilities

 Maintaining and creating European production facilities which are globally competitive (in terms of product volumes and pricing)

What potential impacts on the HLG report on KETs?

CSF

- An integrated industry driven approach to KETs
- An emphasis on technological reasearch, technological platforms and pilot lines
- Rules (value added correctness, IPR)
- Co-financing

Structural Funds

- KETs and smart specialisation
- Rules
- BEI
 - Loans and Risk Sharing Finance Facility (RSFF)
- Skills



Thank you!

Contact

European Commission

DG Enterprise and Industry

Unit D3: ICT for Competitiveness & Industrial Innovation

B-1049 Brussels

E-mail: entr-kets-open-days@ec.europa.eu

HLG website:

http://ec.europa.eu/enterprise/hlg_kets.htm