

Knowledge and Innovation Communities (KICs)

KICs **distinguish** themselves from mere networks through a number of features, most notably their:

- Smart funding model. The EIT funding to KICs is maximum 25% of their total overall budget. It catalyzes 75% of financial resources from a wide range of public and private partners: national/regional funding; EU (non-EIT) funding (e.g. EU R&D funding or structural funds); private funding; participant's own resources.
- Innovative approach to education: KICs are nurturing Europe's main innovation asset: its High Talent People. EIT provides new career paths between higher education and the private sector, and innovative schemes for professional development. Entrepreneurship is a key component of the EIT KICs education programmes through which world-class researchers and students are equipped with the knowledge and attitudes to turn ideas into new business opportunities.

What is in for manufacturing ?

EIT is expected to launch a call for a **Knowledge and Innovation Community (KIC) on Added Value Manufacturing (AVM)** in 2016*.

According to the EIT's Strategic Innovation Agenda, a KIC on AVM is expected to provide added value and contribute to a manufacturing renaissance in Europe.

* Decision made at the trialogue meeting of 25/6/2013

What is in for manufacturing ?

Fully in line with the priorities of Horizon 2020, a KIC on AVM will:

- Mobilise investment and long-term commitment from the business sector
- Contribute to the development and deployment of more sustainable, resource-efficient and competitive manufacturing
- Bring significant impact at regional level by fostering the creation of interconnected regional clusters with local transfers and collaboration
- Increase the availability of a highly qualified workforce which is sufficient in quality as well as in numbers
- Reshape the education landscape in manufacturing, by creating closer links between employers and education providers
- Facilitate interaction and promotion of trans-disciplinary skills and competences

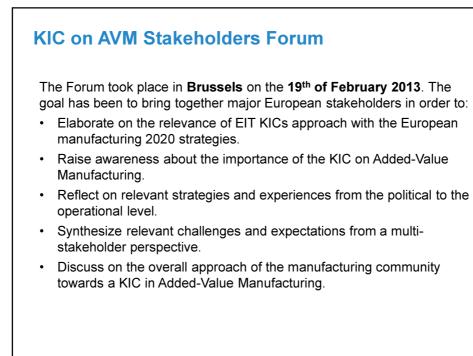
Towards a KIC on AVM

Within this context, the **MANUFUTURE** European Technology Platform and the European Factories of the Future Research Association (**EFFRA**) decided to further investigate the relevant interests of the manufacturing community and elaborate accordingly an approach towards a KIC on AVM

- Creation of a KIC Task Force
- Organization of a Stakeholders Forum

KIC on AVM Task Force

- Currently around 40 members mainly from EFFRA / Manufuture community
- Contributing in content build-up, dissemination and political contacts
- Participation on a volunteer basis
- Interactions so far mainly through e-mail communications and web meetings
- · Coordinated by Prof. George Chryssolouris



KIC on AVM Stakeholders Forum

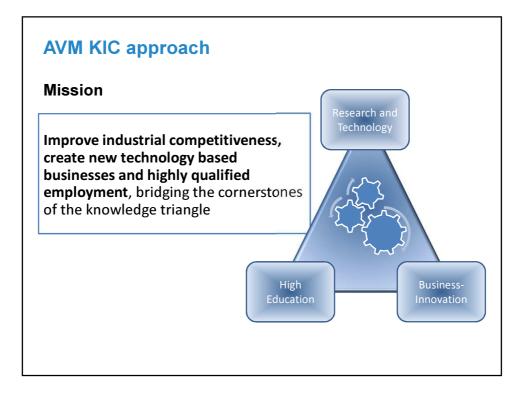
- The forum has been considered to be a big success
- More than 70 participants from 15 countries, including manufacturing community stakeholders, MEPs, representatives of the EC, national and regional authorities, the EIT KICs, related associations, and academic/research organizations
- **6 MEPs** joined the event, contributing with very interesting speeches or interventions. All voiced their strong support to the KIC
- European Commission's DG RTD, DG CONNECT and DG ENTR were also represented in the Forum with 10 Officers, including 3 Heads of Units (DG RTD G2, DG ENTR A4, DG ENTR B3)
- Representatives of industry, research and education agreed that the KIC model can provide the required skills to facilitate innovation
- KIC Task Force members proposed and elaborated some relevant ideas, methodologies and tools for the KIC on AVM, as a basis for discussion

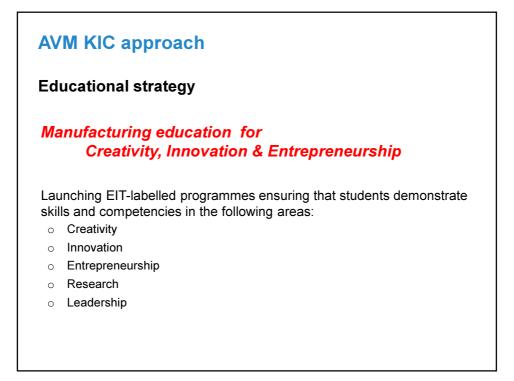
AVM KIC framework concepts

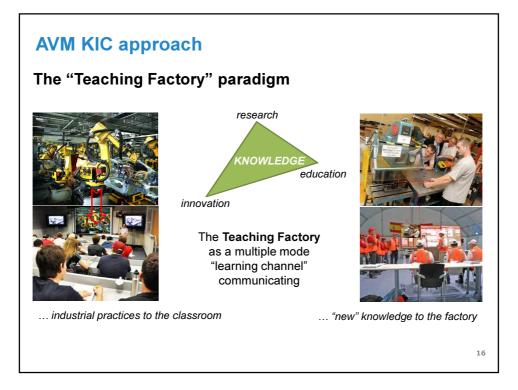
- Fully in line with Europe 2020 strategy, a key societal goal for the KIC on AVM would be a fundamental impact on "Growth and Jobs".
- KIC is critical for providing the **needed skilled graduates** & employment with long-term careers, which makes a clear link to the FoF initiative.
- The KIC on AVM can make a significant contribution to the goals for the reindustrialization of Europe as long as it becomes a 'skilled workforce factory'.
- Following EIT's orientation, the KIC on AVM would strategically work towards a manufacturing education for creativity, innovation & entrepreneurship.

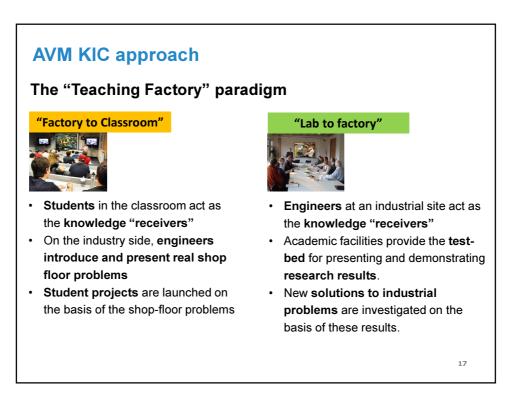
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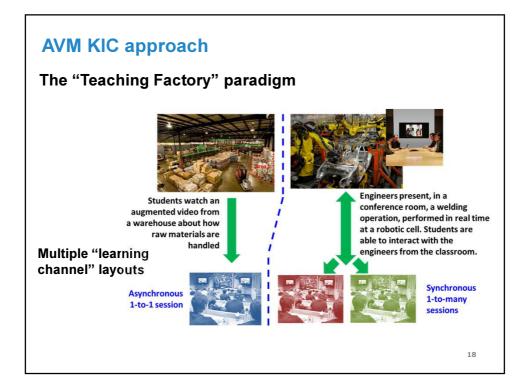
- The **Teaching Factory** concept has been suggested as a relevant flagship paradigm for the seamless integration of manufacturing research, innovation and education activities (a **knowledge triangle** perspective) within the KIC.
- The **industrialization of knowledge** would be the strategic hybrid business perspective of the KIC, addressing both the stimulation of product / process innovation in large manufacturing firms & SMEs and the creation of new business through spin-offs and start-ups.



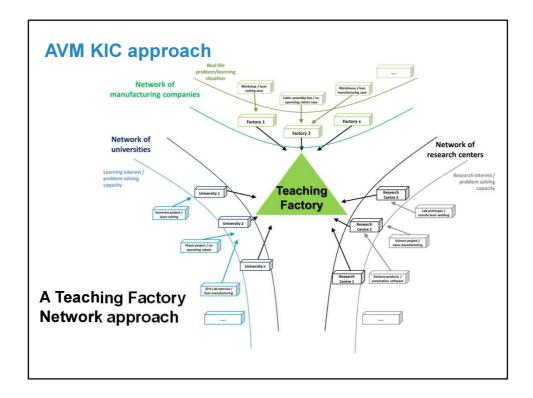


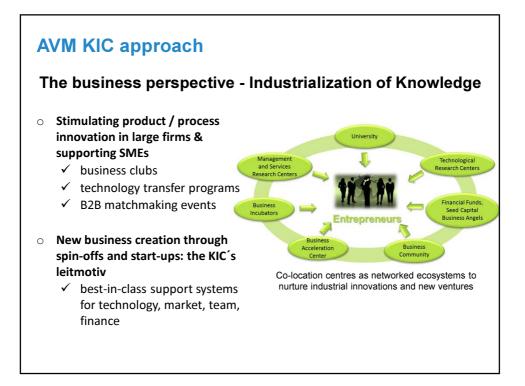


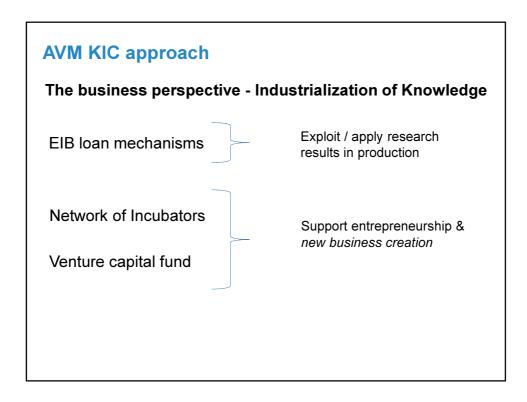


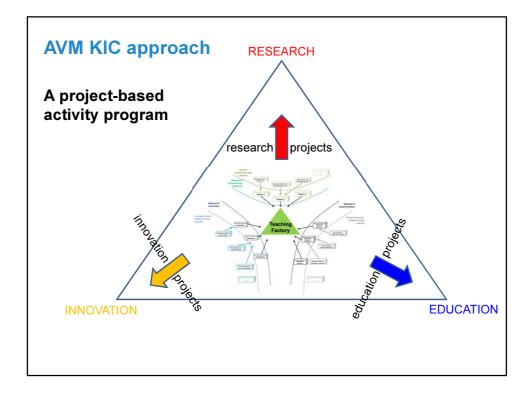


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Benefits to SMEs

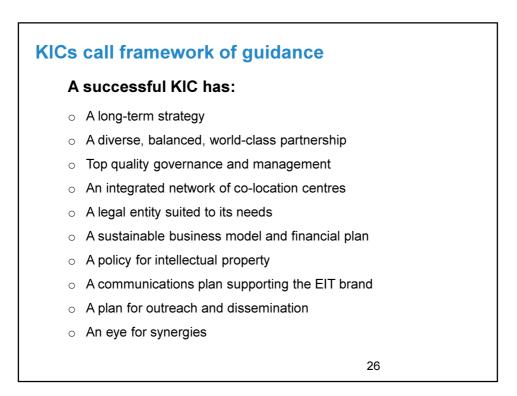
- Bring SMEs close to new technologies and research concepts.
- Provide access to research and industrial facilities throughout Europe.
- Outsourcing of knowledge intensive research.
- Test and learn about new concepts with low investment risk.
- Attract young talents/engineers.
- Influence education by forging high-quality engineers for long-term competitiveness.
- KIC as a forum for interaction and promotion of trans-disciplinary skills and competences, particularly for the combination of multiple key enabling technologies.

Outlook

On-going activities include:

- The elaboration of the KIC approach by integrating / synthesizing inputs and contributions from all interested stakeholders, e.g. through a number of workshops that are currently being organized in several countries with the participation of local stakeholders
- The considerations for the involvement of the key actors in the proposal preparation and submission (e.g. co-ordination, consortium, etc.)
- Planning for KIC Task Force web / physical meetings





The EIT funding model

- The EIT funding model seeks to leverage and align innovation investment. Therefore the EIT financial contribution on average does not exceed 25% of a KIC's overall funding.
- The non-EIT funding may include KIC partners' own revenues and resources, but also public funding at national, regional and EU level, in particular the – current and future – Structural Funds and the Framework Programme for Research and Innovation.
- The EIT financial contribution to the KIC is provided primarily in the form of a grant for action, which may cover, up to 100% of the total eligible costs of KIC added-value activities (KAVA) – that is, activities contributing to the integration of the Knowledge Triangle of research, innovation and higher education; this includes establishment, administrative and coordination activities of the KICs, and contributing to the overall objectives of the EIT.
- The other KIC activities, so called KIC Complementary Activities (KCA) not
- financed by the EIT grant, must contribute to the implementation of the long term strategy of the KIC.

