

EIT Conference YOUTH & ENTREPRENEURSHIP- DRIVERS OF INNOVATION

19-21 October 2011 - Krakow, Poland

Knowledge and Innovation Communities (KICs): overview

What are Knowledge and Innovation Communities (KICs)?

- ✓ A KIC is a highly integrated, creative and excellence-driven partnership which brings together the fields of education, technology, research, business and entrepreneurship, in order to produce new innovations and new innovation models that inspire others to emulate it. They are to become key drivers of sustainable economic growth and competitiveness across Europe through world-leading innovation. The KICs will be driving effective “translation” between partners in ideas, technology, culture, and business models, and will create new business for existing industry and for new endeavours.
- ✓ KICs are legally and financially structured entities of internationally distributed but thematically convergent partners. These partners involve key actors from the three sides of the knowledge triangle: research, higher education, and innovation-entrepreneurship-business. KICs build innovative webs of excellence across the knowledge triangle with the intention of addressing key societal challenges. KICs must address a long-term horizon of 7 to 15 years, but with short-, mid- and long terms objectives that follow the mission of the KIC.

Who is part of a KIC?

- ✓ KICs bring together different people working together across the innovation web. Key actors include: businesses (including SMEs); entrepreneurs; research and technology organisations; higher education institutions; investment communities (private investors and venture capital); research funders, including charities and foundations; local, regional and national governments.
- ✓ According to the EIT Regulation, the activity of a KIC must involve at least three independent partner organisations. The partners must be established in at least three different EU Member States and must include at least one higher education partner and one private company. With the intention of strengthening the innovation capacity, KICs may also include non-Member State partners.
- ✓ The KICs involve businesses, research and higher education institutions.

What is the link between the EIT and the KICs?

- ✓ The KIC is the independent but operational part of the EIT, which puts the innovation web into practice. The EIT combines a bottom-up and a top-down approach: it caters for the need of coordination and strategic orientation through its central structures (top down), while providing for a maximum of autonomy in the delivery through the KICs (bottom up). The relationship between the KICs and the EIT is organised on a contractual basis, leaving a great degree of autonomy to the KICs to define their own legal status, internal organisation and working methods.
- ✓ KICs have substantial overall autonomy to define their internal organisation and composition, which must, nevertheless, be aligned to its objectives and the needs of the partners. The status could vary from a consortium agreement to an independent legal entity, but must be consistent with financing requirements and operational autonomy.

EIT Conference YOUTH & ENTREPRENEURSHIP- DRIVERS OF INNOVATION

19-21 October 2011 - Krakow, Poland

Knowledge and Innovation Community: Climate-KIC

Climate-KIC vision

- ✓ to lead the world toward low-carbon prosperity – Climate-KIC will help innovators capitalise on new business opportunities driven by Europe's first mover response to climate change.
- ✓ to create an emerging climate-change innovation space – Climate-KIC will build the critical mass and forge alliances among existing businesses and new businesses with the aim of creating partnerships that jointly cover all elements of emerging value chains.
- ✓ to capitalise on public-private synergies to induce innovation – Climate-KIC will help governments and public agencies to develop effective policy frameworks and to pioneer early introduction of climate change products and services in collaboration with the private sector.

Climate-KIC community

To meet the climate challenge and deliver innovative business and technology solutions, Climate-KIC initiates creative partnerships between dynamic companies from Europe, the best European academic institutions and the public sector. Launched in December 2009 just one week after the 15th session of the UNFCCC Conference of Parties in Copenhagen, Climate-KIC is now well established with five Climate-KIC national centres in: Paris (France), London (UK), Zurich (Switzerland), Berlin (Germany), Randstad area (The Netherlands) and a centre in Brussels (Belgium) which coordinates the six regional implementation and innovation communities.

Climate-KIC addresses four important markets:

- ✓ 1/ *Climate-KIC Education*

Attracts and develops future climate entrepreneurs and change agents – Climate-KIC's education and training programmes will instill climate-change entrepreneurship into hundreds of top students and leading practitioners every year by combining climate change science and entrepreneurship with a strong programme of learning-by-doing and of exposure to Climate-KIC innovation activities.

- ✓ 2/ *Climate-KIC Innovations*

Creates promising new collaborations and pioneers new value-chain configurations – Climate-KIC is developing a dynamic and open innovation network in addition to managing an integrated network of community partnerships in which partners play a leading role in shaping directions for climate innovations.

- ✓ 3/ *Climate-KIC Pathfinder*

Creates new pathways to low-carbon prosperity by fostering the conditions for ongoing innovation – Climate-KIC identifies markets and necessary framework improvements for removing systematic obstacles to climate innovations and replicates best practices within the Climate-KIC city partners, regions and beyond.

- ✓ 4/ *Climate-KIC Entrepreneurs*

Builds platforms to connect and support the wider climate entrepreneurship community – Climate-KIC is designed around five geographical clusters that provide local innovation infrastructure for students, young entrepreneurs, R&D centres and venture capital investors. In addition, the Climate-KIC regional network facilitates knowledge and best practice sharing with a large group of climate entrepreneurs.

EIT Conference YOUTH & ENTREPRENEURSHIP- DRIVERS OF INNOVATION

19-21 October 2011 - Krakow, Poland

Knowledge and Innovation Community: EIT ICT Labs

Overview

- ✓ EIT ICT Labs breeds entrepreneurial ICT top talent via the transformation of higher education to promote creativity and entrepreneurial spirit.
- ✓ EIT ICT Labs community speeds up ICT innovation by bringing people together from different countries, disciplines and organizations via mobility programs and co-location centers.
- ✓ EIT ICT Labs generates world-class ICT business via broader and faster industrialization of research results.

Vision & Mission

EIT ICT Labs is a new initiative intended to turn Europe into the global leader in ICT innovation. It aims to fulfill this mission by establishing a new type of partnership between leading companies, research centres, and universities in Europe.

- ✓ Vision: ICT Innovation is our key enabler to enhance the quality of life for everyone.
- ✓ Mission: Turn Europe into a global leader in ICT Innovation

Thematic Action Lines

In this day and age ICT has advanced as a key enabler in many different business sectors. It is expected that this development will continue in the future with ICT developing its full potential.

EIT ICT Labs created Thematic Action Lines which are the thematic orientations they focus on in their work. They address key societal issues in a number of selected areas for which ICT can bring forward significant improvements. Each Thematic Action Line is coordinated through a specific Node. These six focus areas are:

- ✓ Smart Spaces
- ✓ Smart Energy Systems
- ✓ Health & Wellbeing
- ✓ Digital Cities of the Future
- ✓ Future Media and Content Delivery
- ✓ Intelligent Mobility and Transportation Systems

Nodes and Co-location Centres

- ✓ Berlin, Eindhoven, Helsinki, Paris Stockholm

EIT Conference YOUTH & ENTREPRENEURSHIP- DRIVERS OF INNOVATION

19-21 October 2011 - Krakow, Poland

Knowledge and Innovation Community: KIC InnoEnergy

Overview

- ✓ KIC Inno Energy was designated as a Knowledge and Innovation Community by the EIT's Governing Board on the 16 December 2009 in Budapest and the priority area which this KIC addresses is sustainable energy.
- ✓ A world class alliance of top European players with a proven track record. 8 companies, 7 research institutes and 13 universities and business schools are joining – covering the whole energy mix. Six regionally bundled European co-location centres make up the consortium. These centres are "Benelux", "Iberia", "Alps Valleys", "Sweden", "Poland Plus" and "Germany".
- ✓ Each of the six KIC InnoEnergy co-location centres (CC) coordinates one important energy topic for all partners:
 - CC Alps Valleys: Sustainable Nuclear and Renewable Energy Convergence
 - CC Benelux: Intelligent Energy-efficient Buildings and Cities
 - CC Iberia: Renewables (Wind, CSP, Photovoltaics, Wave and Tidal Energy)
 - CC Germany: Energy from Chemical Fuels
 - CC Poland Plus: Clean Coal Technologies
 - CC Sweden: European Smart Electric Grid and Electric Storage
- ✓ KIC InnoEnergy aims to become the Energy Faculty for Europe that closely integrates all corners of the knowledge triangle of research, higher education and innovation. Right from the start KIC InnoEnergy plans first class education of 1500 Master and PhD students.

Need of new technologies for sustainable energy and a climate-neutral Europe

- ✓ KIC InnoEnergy's challenge is to create a sustainable, save and low carbon energy supply for Europe. By closing the innovation gap and boosting innovation in Europe KIC InnoEnergy comprises 28 top European players in industry, research institutes, universities and business schools. KIC InnoEnergy is about securing Europe's global competitiveness in the field of energy technologies. Close networking of all partners shall speed up commercialization and generate new energy products.

Installation as a European Company

- ✓ Clear structure allows for a lean management and the measurement and evaluation of the targeted output
- ✓ KIC InnoEnergy SE is run like a business through a flexible and effective organisational structure and with a sound and monitored business plan, focused on results. The annual budget of KIC InnoEnergy amounts to about EUR 110 million in 2011 and will increase continuously in the following years. About one quarter will be funded from other sources with substantial contribution from the KIC InnoEnergy partners. The EIT will finance KIC InnoEnergy in a first phase with about EUR 30 million annually.