

12.00-12.30. Keynote Speaker, Dr Stephan Szuppa  
European Institute of Innovation & Technology, ICT Labs German Node, Germany

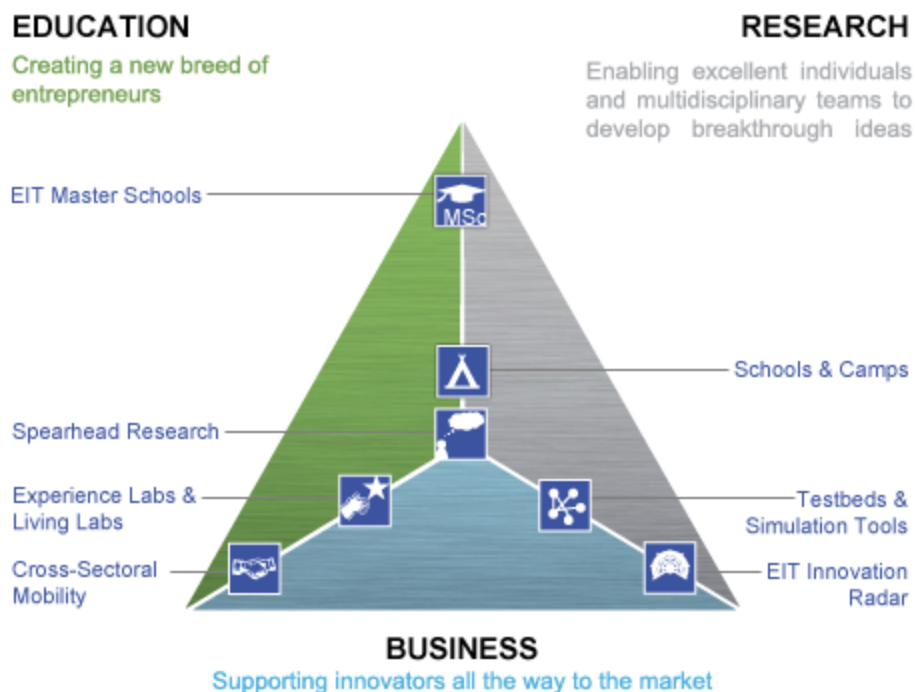
## **"From Top Innovations to focus setting in Education - new competences in Smart Energy Systems"**

### **Short Introduction of EIT ICT Labs vision and mission**

The new founded European Institute of Innovation and Technology consists of 3 Knowledge and Information Communities (KIC): the Climate KIC, the KIC InnoEnergy and the EIT ICT Labs. It aims to fulfil this mission by establishing a new type of partnership between leading companies, research centres, and universities in Europe.

Innovation in Information & Communication Technology (ICT) is the key enabler to enhance the quality of life for everyone. EIT ICT Labs is an initiative intended to turn Europe into the global leader in ICT innovation.

EIT ICT Labs breeds entrepreneurial ICT top talent via the transformation of education to promote creativity and entrepreneurial spirit. The community speeds up ICT innovation by bringing people together from different countries, disciplines and organizations. EIT ICT Labs aim to generate world-class ICT business via broader and faster industrialization of research results.



***Innovations in Smart Energy Systems – and its implications to Education***

*The paradigmatic change from the fully controllable classical power grid to the distributed area sources of alternative energy sources – such as wind and solar – as well as the bi-directional load management for E-Cars call for radical innovations and an intelligent Energy Systems - the so called “Smart Grid”. Information and Communication Technologies is the “key enabler” for innovations and new business in Smart Grid resulting in a fast growing market in Europe, U.S. and Asia for new ICT based products, services and solutions.*



*Fast growing markets for Energy Systems already lead to a shortage of well qualified experts for Smart Energy Systems. The Smart Grids requires a new combination of competencies in the education systems. Classical electrical and mechanical engineering will be combined with specific competencies in system design and selected ICT technologies such as data management, cloud computing and IT security.*

*After a short introduction of the European Institute of Innovation and Technology the presentation aims to stimulate the discussion on the right competencies and education methods based on the example of fast growing Smart Energy Systems.*