

EIT ICT Labs – Smart Energy Systems workshop

Helsinki – 31st of August 2010

Introduction from EIT Labs Chairman Heiko Lehmann

EIT ICT Labs Work program: Strategy and Content (Martti Mantyla – CSO)

- EIT ICT labs aims at facilitating innovation in Europe by 3 approaches: research, education and innovation
- Strategy: collaborate between the nodes of the EIT ICT labs (cooperation and integrated activities / people)
- Thematic area anatomy
 - Leader + Coordinator
 - Share a master school program
 - Thematic core research program
 - Share of mobility program
- Question: where will the money come from?
 - It is unclear, in 2011, EIT should have 60M euros, and we have to decide how to use them. Maybe 30% will go to thematic area research. Even EIT does not have ideas, it is us who have to define our own way to spend money. For research, we can fund FP7 preparation for example. But by now, if we submit a FP7 project, we are at the same level as any other candidate.
 - How to deal with in-kind contribution?
- There are no hard deliverables yet. It is our role to define what we want
- A hard issue is how to deal with IPR...
- Creation of spine-off is a strong indicator that we have to prioritize

Defining thematic area – some guidance (René Rohrbeck – EIT)

- See the slides, there are good to understand EIT
- The goal of EIT is to catalyst innovation into the market. Eu is not sure that all the funding they give is worth to bring innovation into the market. EIT, with few funding, and additional funding from partner, should leverage the innovation transfer to the market.

Thematic area (Heiko Lehmann)

- The job for today is to start from an ongoing projet, or a proposal and find the good collaboration, and then define the challenges

Identified new project areas (Sebastian Knab)

- The challenges were already defined in the previous meetings (Munich and Berlin):
 - Future scenarios and experience lab: create a favorable economic climate for deploying smart energy systems. They explore new scenarios, simulate and integrate them into platforms.
 - Smart grid management: create a network of labs (virtual smart grid laboratory), make the grid system scalable and increase their lifetime (robustness, evolution, etc)
 - E2E smart energy and green ICT: ICT for green energy and make ICT consume less energy (E2E bandwidth provisioning control). We need hardware, systemic network integration, integration of load adaptive ICT network

Challenge III discussion: E2E smart grid and green ICT

- This thematic is related to optimizing ICT, whatever type of ICT : network operator, web, etc. A story to describe is written to describe the challenge, see the slides. It consists in finding an interface between the ICT and electricity networks, and make them aware one of each other. It is also about adapting ICT to the current energy supply
- We should look at all the levels: system level, integrated circuit, etc
- See greetouch.org, which look at the minimum energy consumption we could reach theoretically
- See the projects from Fraunhofer, very interesting.
- Standardize a layer between the ICT network and the Electricity network
- Remark: lot of projects focus on making ICT greener, but only few on using ICT technics for energy saving (such as use the same technic defined for ICT and adapt them to electricity)
- Be careful to have good people with electricity field
- Every switch should be a sensor that send information to your electricity controller to know the exact usage of your electricity
- The electricity needs an end to end protocol
- Convergence: ICT will manage the power grid / energy system, and on the other hand, the electricity availability will dictate the ICT
 - Schneider developed a power plugged that is able to send the information about the usage of the plug
- They will build the most energy efficient data center here, with a space reserved for testbed and research (see Pekka Palm)
- Transfer a phone call from one operator to another depending on the devices that are available
- Ideas that emerged (challenges – what is common / missing from the on-going projects)
 - Power grid, clean slate, blueprint
 - Community convergence ICT – Smart grid
 - Energy consumption usage information harvesting
 - Consumption transparency: make user aware of his own consumption
 - Data mining, privacy. A solution could be to empower users with their data, and let them make the anonymisation they

- need
 - - not mentionned - : evolution of protocols and devices ? standardization?
- Instruments
 - Set up common testbed to have a benchmark on devices
 - Have a master school on ICT integrated energy
 - Lot of workshops have been proposed (also to join an existing energy conference and propose a workshop labeled EIT, or co-organize a conference IEEE and EIT)
 - Have workshop to define what could be in the FP8 program, because some people participate to the programs
 - They gathered all the ideas and should send this later on to all participants.

Conclusion

- They look forward for contribution, so it is free to us to be more involved. The benefice (funding) is not clear yet however.
- They must send a proposition to EIT by mid-october
- Next meeting will be in Paris
- They will be working with 60M euros for 2011
- We should invite energy people

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