



eit

Knowledge &
Innovation
Community

EIT ICT Labs





EIT ICT Labs – State of Affairs

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CEO EIT ICT Labs



National ICT Research Directors Forum, Budapest, April 12, 2011



ICT is drastically changing our lives



The way we connect



The way we travel



The way we work



The way we age healthily

Blending of digital & physical world



Today

Tomorrow



EIT ICT Labs' mission is to turn Europe into a global leader in ICT Innovation

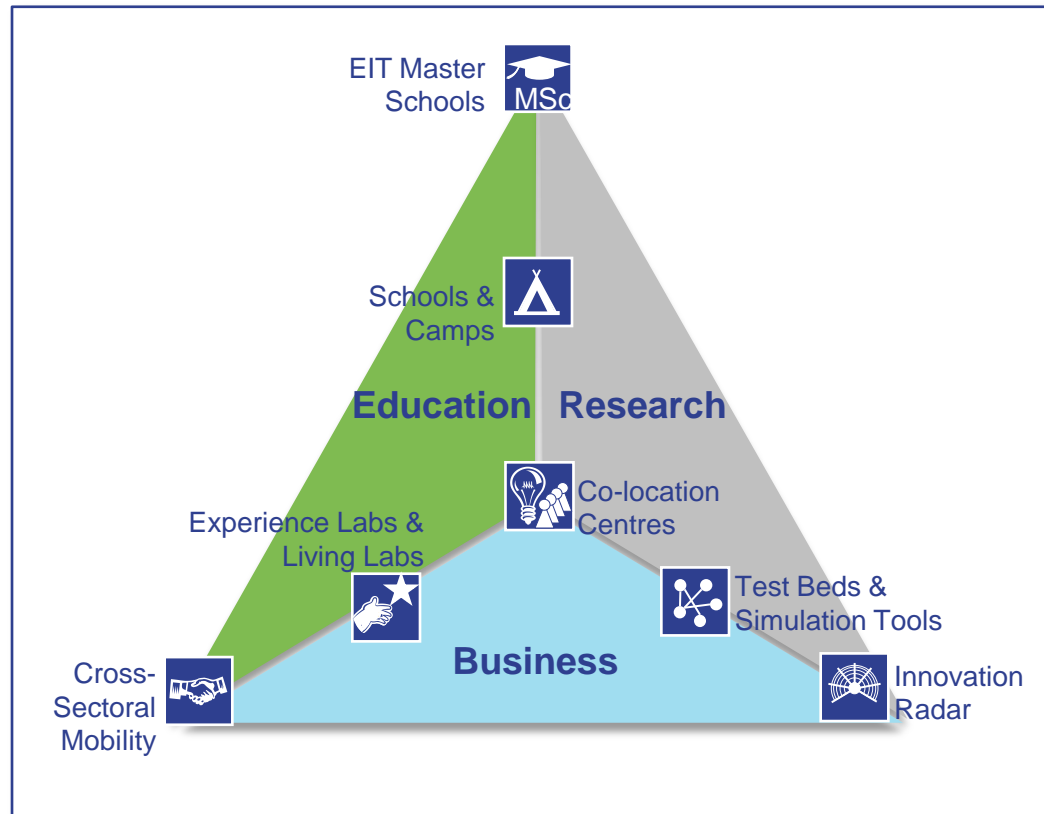
Breed entrepreneurial ICT top talent via the transformation of higher education to promote creativity and entrepreneurial spirit

Speed up ICT innovation by bringing people together from different countries, disciplines and organizations via mobility programs and Co-location Centres

Generate world-class ICT business via broader and faster valorisation of research results



Our strategy integrates all dimensions of the Knowledge Triangle





EIT ICT Labs operates from 5 core nodes and 3 associate nodes

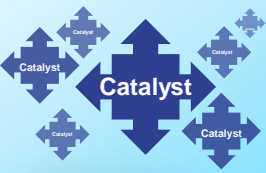




-  EIT ICT Labs Node
-  Associated Partners





EIT ICT Labs Management Agenda 2011

Get Organized – Get Recognized

| | | |
|---|---------------------------------------|--|
|  | Innovation catalysts | Develop innovation catalysts in Education (e.g. Master School), Research (e.g. European experimentation platforms) and Business (e.g. Technology Transfer) |
|  | Co-location Centres | Launch and scale up Co-location Centres and their national networks in the EIT ICT Labs Nodes |
|  | Action Lines | Launch a number of selected thematic- and competence-guided action lines |
|  | Processes | Deploy strategic, financial, and administrative processes at KIC and Node levels to ramp up EIT ICT Labs to the intended scale and give it the means to succeed in its mission |
|  | Marketing & Communications | Launch and establish the EIT ICT Labs brand by focused external and internal marketing and communications |
|  | Relationships | Develop working relationships with regional, national, and European research, education, and innovation programs |



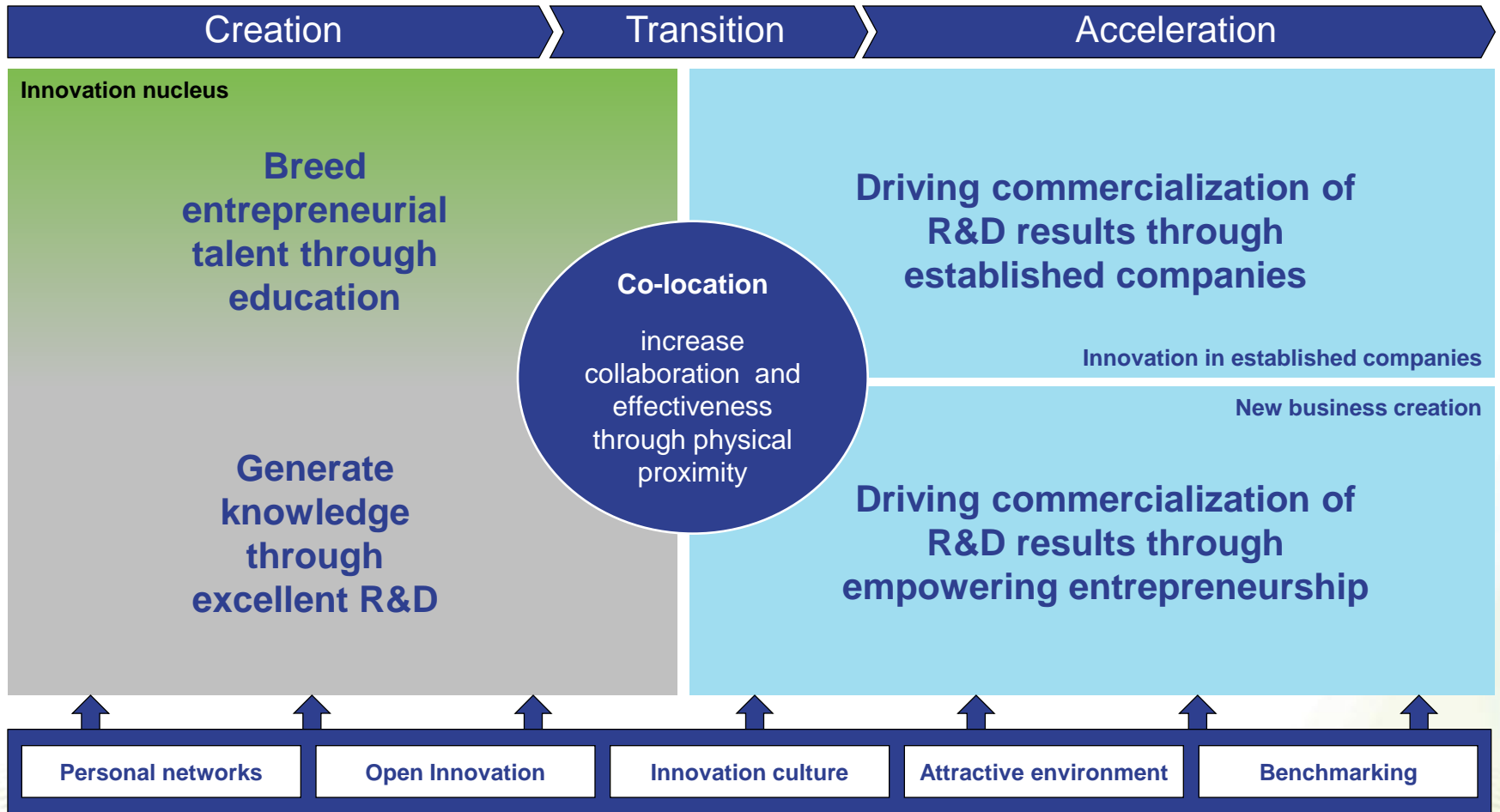
Co-location Centres will play a catalysing role in the execution of our activities



- Physical meeting and project space for EIT ICT Labs activities
- Nodes are connected through quality video-conference equipment
- Focal point for the national partner network
- Venue for local and KIC-level events

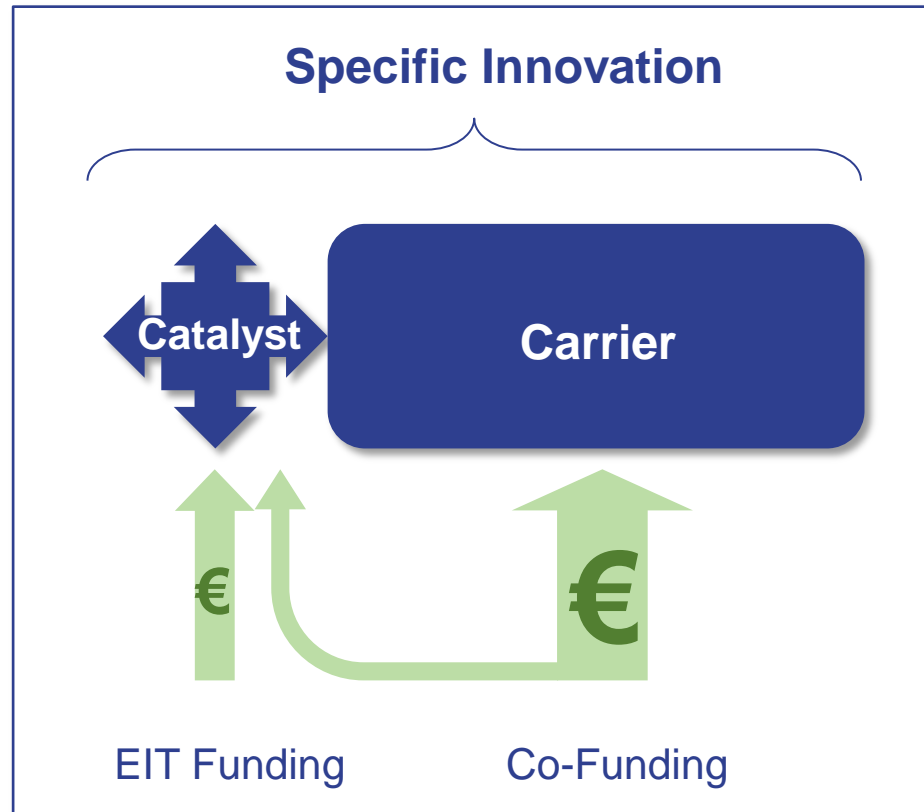


Our framework drives innovations to the market



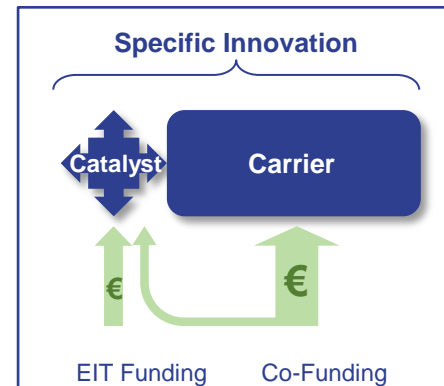


The Catalyst-Carrier model is key in our approach

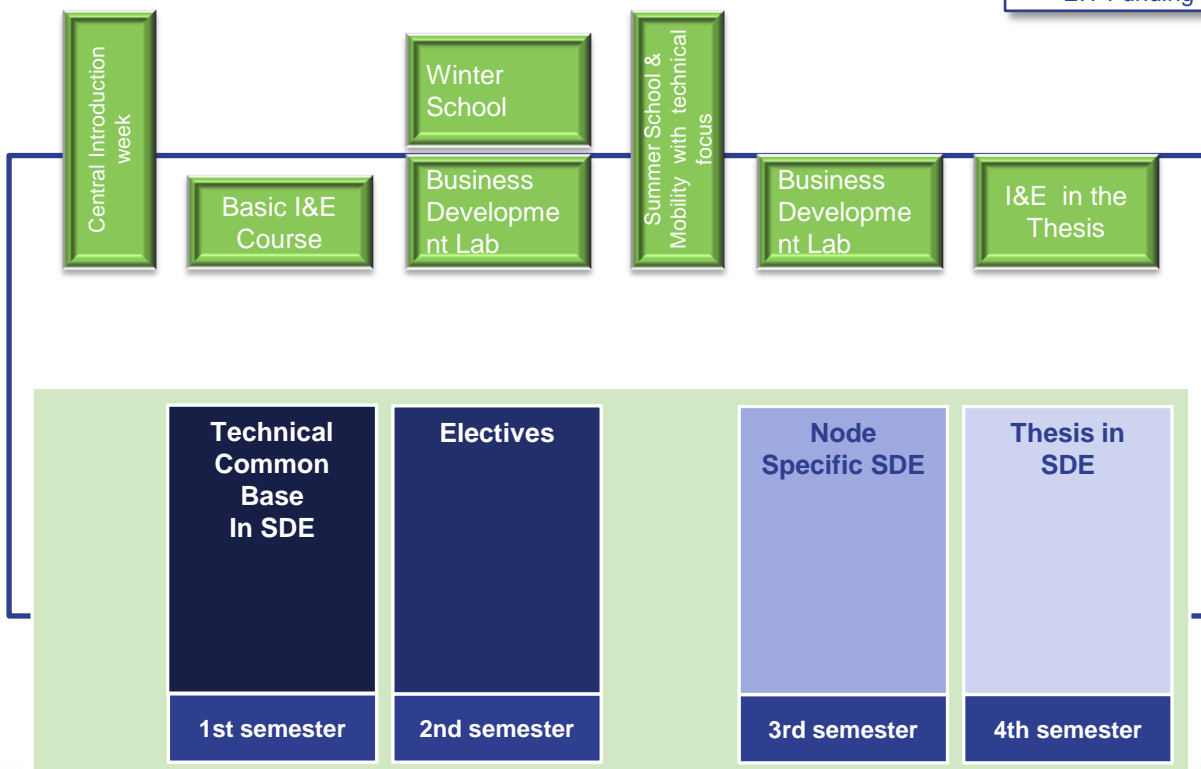




Education Example: SDE Master Program



I&E Modules



Carrier

Technical SDE Program



Our Thematic Action Lines bring ICT innovation to specific markets



Smart Spaces

- **intelligent environments** that facilitate everyday practices
- create **richer user experiences** & enhance the users' awareness of **local opportunities** in a resource and cost efficient way



Smart Energy Systems

- increasing **energy efficiency** via ICT enabled **power grids**
- energy efficient ICT solutions - **green ICT**



Health & Wellbeing

- Development of ICT enabled services supporting a cost effective sustainable **healthy lifestyle**
- **ambient assisted living**



Digital Cities of the Future

- ICT enabled solutions in the areas of **security, pollution, transportation, and resource management** (e.g. water).



Future Media and Content Delivery

- Development of **powerful and open ICT infrastructure**, capable of delivering rich data-intensive media and content storage services, at competitive costs, across administrative domains, ensuring quality of service

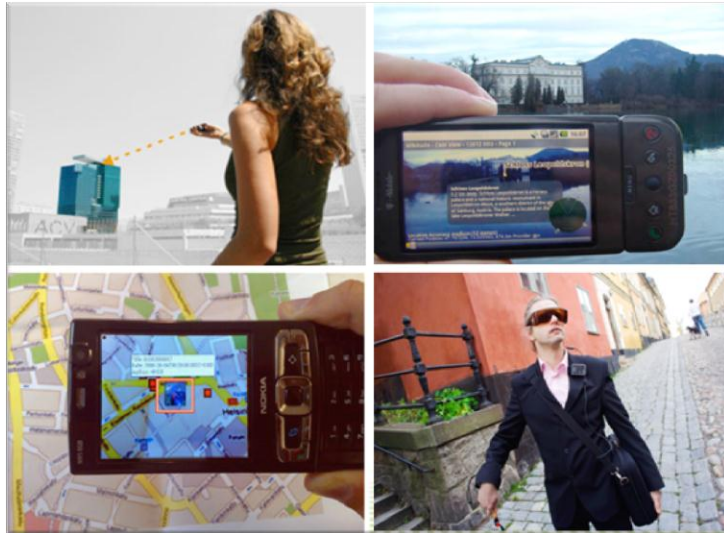


Intelligent Transportation Systems

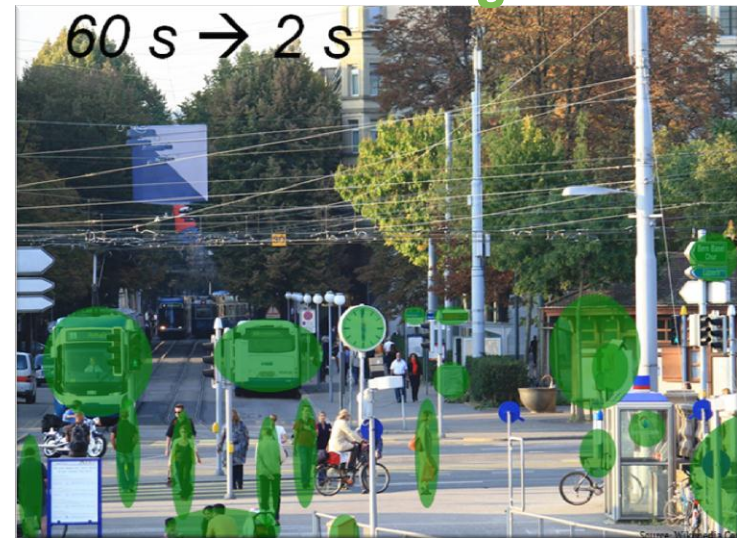
- **Services** for people using all kinds of **transportation systems**

Smart Spaces addresses the challenges of intelligent environments

Cyber Physical Interaction

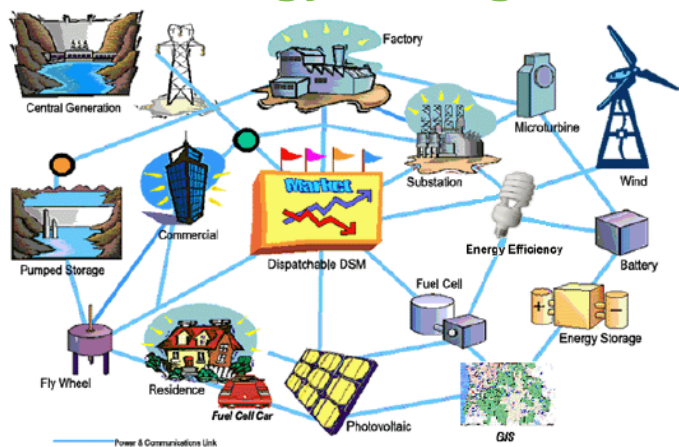


Near Real-Time Event Handling



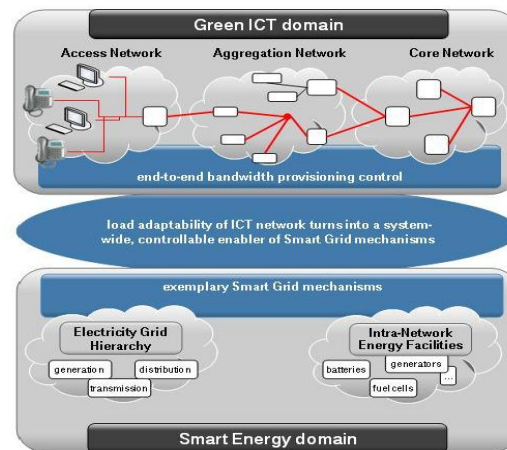
Smart Energy Systems addresses the challenges of Smart Grid & Green ICT

Smart Energy Management



- Future Scenarios & SES Experience Labs
- Smart Grid Management (Technical & Control Systems)

Green ICT Management



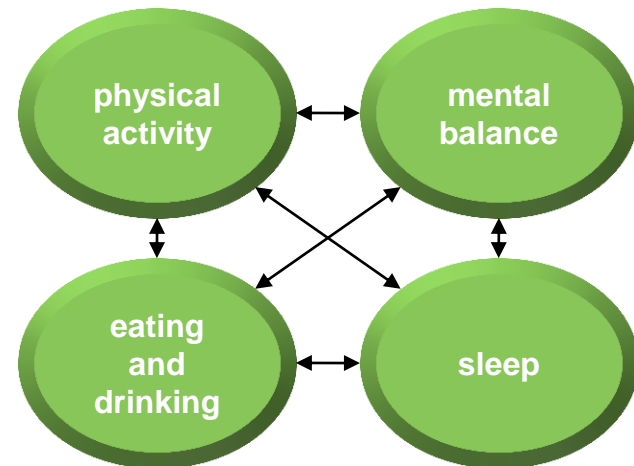
- End-to-End Smart Grid & Green ICT Management

Health and Wellbeing addresses primary prevention for HWB

The threats of today's demanding society

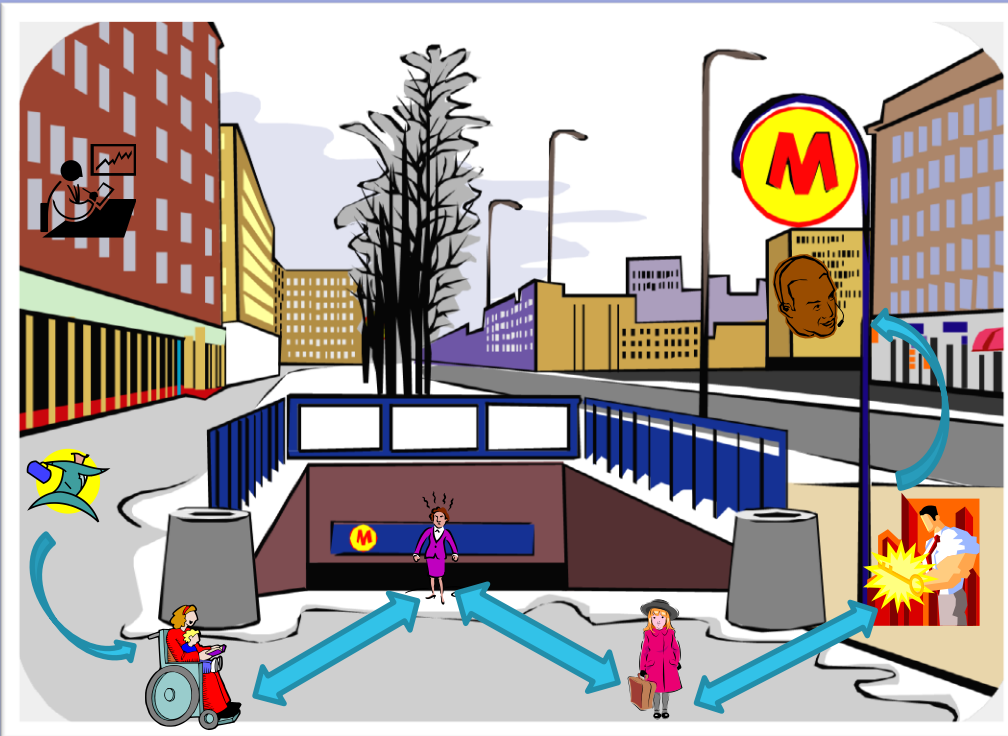


Empowering people to find balance and assume responsibility for their health





Digital Cities will provide Citizen-Centric City environments



Enabling the city space to become more democratic towards a citizen centric model

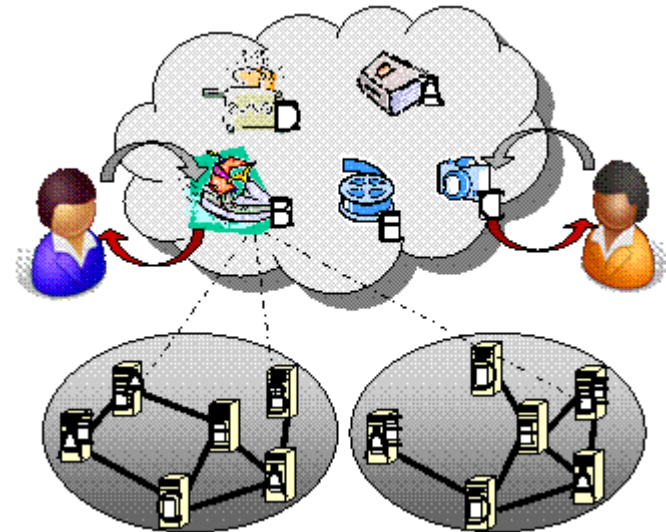


Future Media and Content Delivery addresses the challenges of bringing media and content to the consumer

Rich future media to and from any device



Cost effective content delivery







Intelligent Transport Systems addresses opportunities and challenges of mobility



Safe Mobility
Sustainable Mobility
Autonomous Mobility
Affordable Mobility



Our Education Action Lines breed entrepreneurial ICT talent

| | | |
|---|-------------------------|---|
|  <p>MSc</p> | Master School | EIT labeled M.Sc. educational programs with integrated I&E module |
|  <p>PhD</p> | Doctoral School | EIT labeled PhD educational programs with deeply embedded I&E content |
|  <p>Post-doc Program</p> | Post-doc Program | Program for embedding entrepreneurial post-docs in business environments (start 2012) |
|  <p>Outreach Program</p> | Outreach Program | Program for spreading education catalysts outside EIT ICT Labs (start 2012) |



EIT ICT Labs Master School Structure



Joint ICT Labs Master School Coordination and Master School Office

- Monitoring **quality assurance** and **accreditation**
- Coordinating program and **catalyst development**
- Coordination of technical programs with **thematic areas** of EIT ICT Labs
- Joint global **marketing** and **outreach**
- Joint stake-holder **integration**, **internship** and **mentorship** programs
- Joint **recruitment**, student **selection**, and provision of **scholarships**

Digital
Media
Technology
program

Embedded
Systems
program

Internet
Technology
&
Architecture
program

Distributed
Systems
and
Services
program




Security
and Privacy
program

Human
Computer
Interaction
Design
program

Service
Design and
Engineering
program







Our Research Action Lines generate world-class know-how in exploitable form

| | | |
|--|--|---|
|  | Computing in the Cloud | Service technologies (IaaS, PaaS, SaaS), storage systems, testbeds, business models |
|  | Internet Technologies and Architectures | Traffic management, content/information-centric network, autonomic networking, energy, ad-hoc networks, Internet of things, virtualization, business models, security |
|  | ICT-mediated Human Activity | Usability, social media experience, multimodal user interfaces, new search engines |



Our Business Action Lines promote innovation both on the entrepreneurial and the industrial path

| | | |
|---|--|--|
|  | New Business Creation | Integrated support for new research-based, market driven ventures |
|  | Innovation in Established Companies | Integrated support for intrapreneurship |
|  | Market & Consumer Insight | Investigating future customer needs |
|  | Co-located Innovation | Planning the infrastructure and utilisation of our Co-location Centres |

Entrepreneurship Support System

„Supporting and nurturing SMEs and academic entrepreneurs to grow on the European level“



Business Club

“Enhance networking across organizational boundaries”



Entrepreneurs Club

„Creating a platform for pitching business concepts to Venture Capitalists with a particular focus on our Thematic Areas“



Technology Transfer Program

„Increasing the flow of technologies from academia to industry and between small, medium and large companies“



Access to Finance

„How to access risk capital at the nodes?“
“Should EIT create an own fund?“



Business Modelling

„Identifying value in the marketplace and business models to bring research results to the market.“



EIT Innovation Radar & Foresight Studies

„Creating a common outlook on the future of ICT“
“Creating cohesion and a strong community across nodes and partner organizations”



Office Space 2.0

„Planning and installing a common and state-of-the-art office infrastructure in our co-location centers“



Populating Our Co-location Centres

“Create an inspiring environment for collaboration”





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