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Knowledge &
Innovation
Community

EIT ICT Labs





EIT ICT Labs Vision on the Future Internet

PARADISO Conference, September 8, 2011, Brussels

Willem Jonker - CEO





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



We operate from five Co-location Centres that 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



Co-location centres bring together our partners

Berlin

Deutsche Telekom Laboratories

DFK FhG

Eindhoven

NIR ICT

PHILIPS

novay
NETWORKED INNOVATION

Helsinki

A? Aalto University

NOKIA

Paris

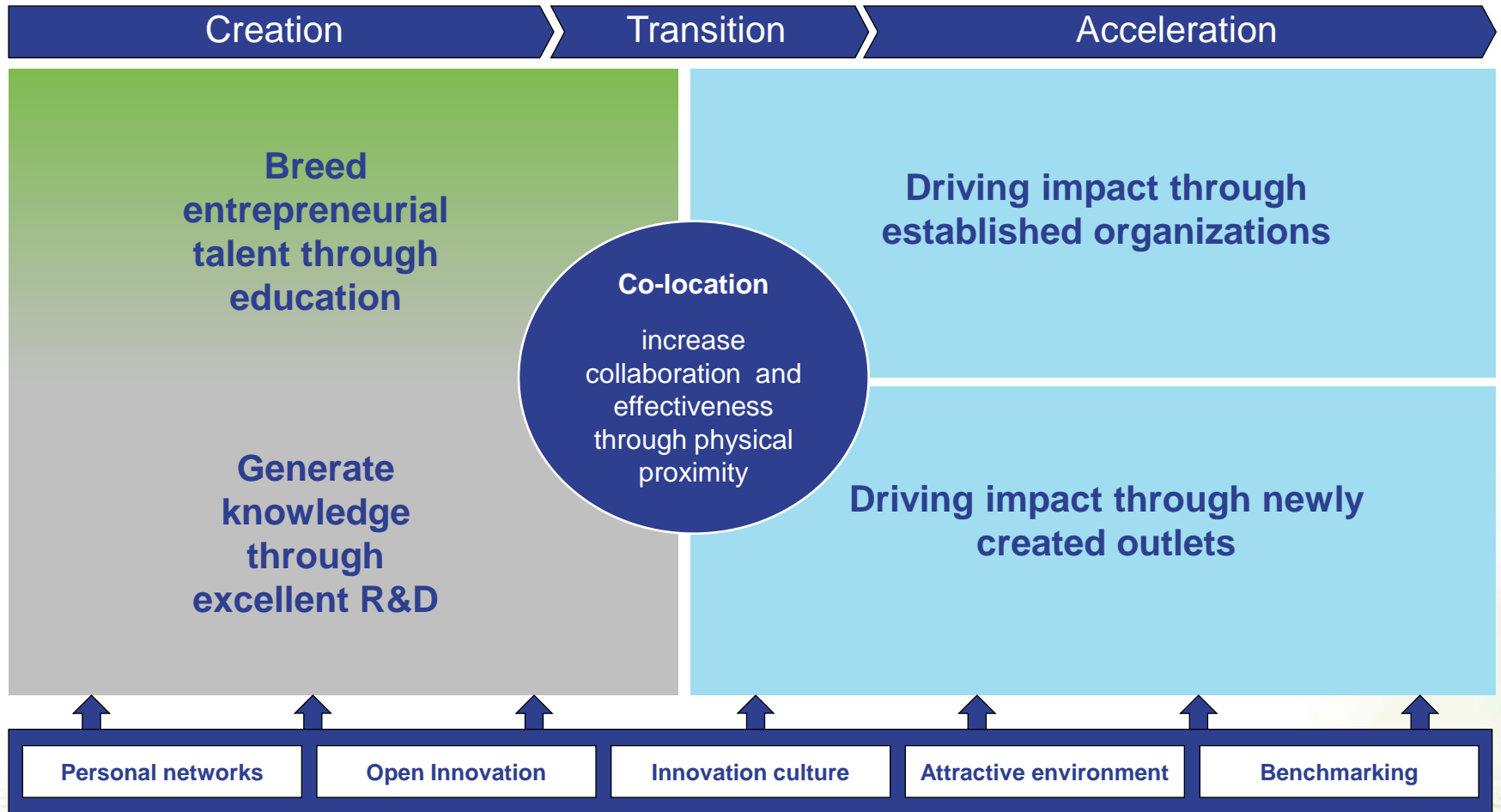
UPMC UNIVERSITÉ PARIS-SUD 11

Stockholm

SICS

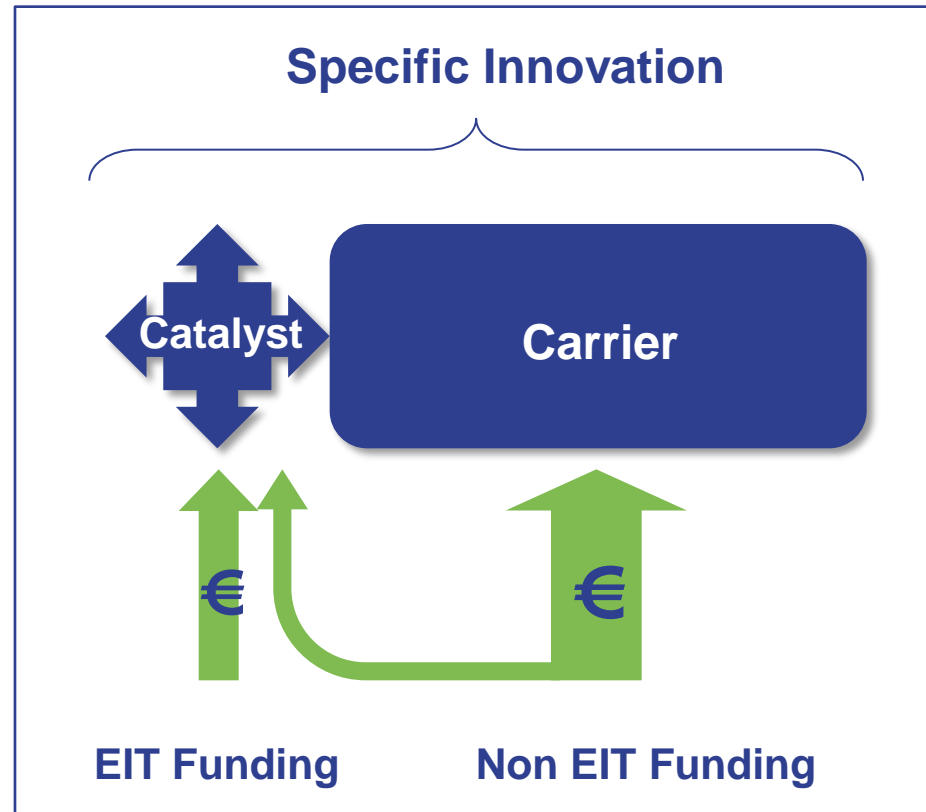


Our Education / Research / Business Innovation Framework focuses on bringing solutions to people





The Catalyst-Carrier model is key in our approach





We execute our business plans through focused Action Lines

Our Thematic Action Lines bring ICT innovation to specific markets

	Smart Spaces	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> increasing energy efficiency via ICT enabled power grids energy efficient ICT solutions - green ICT
	Health & Wellbeing	<ul style="list-style-type: none"> Development of ICT enabled services supporting a cost effective sustainable healthy lifestyle ambient assisted living
	Digital Cities of the Future	<ul style="list-style-type: none"> ICT enabled solutions in the areas of security, pollution, transportation, and resource management (e.g. water)
	Future Media and Content Delivery	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Services for people using all kinds of transportation systems

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Our Education Action Lines breed entrepreneurial ICT talent

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

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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
	Cyber-Physical Systems	Architectures, Model based development, context awareness
	Privacy	Accountability, Identity, Sensor, Location, Social Networks

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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

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Future Internet: a playground for innovation

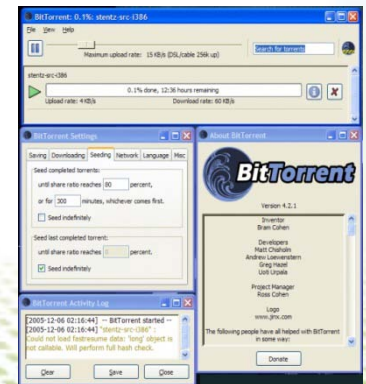
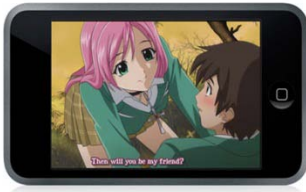
- Increasing heterogeneity



- Mobility and episodic connectivity



- Dissemination of real time data: content is King !





EIT ICT Labs vision: Future Internet as a key enabler to make computing as a utility

The Cloud as a federated infrastructure



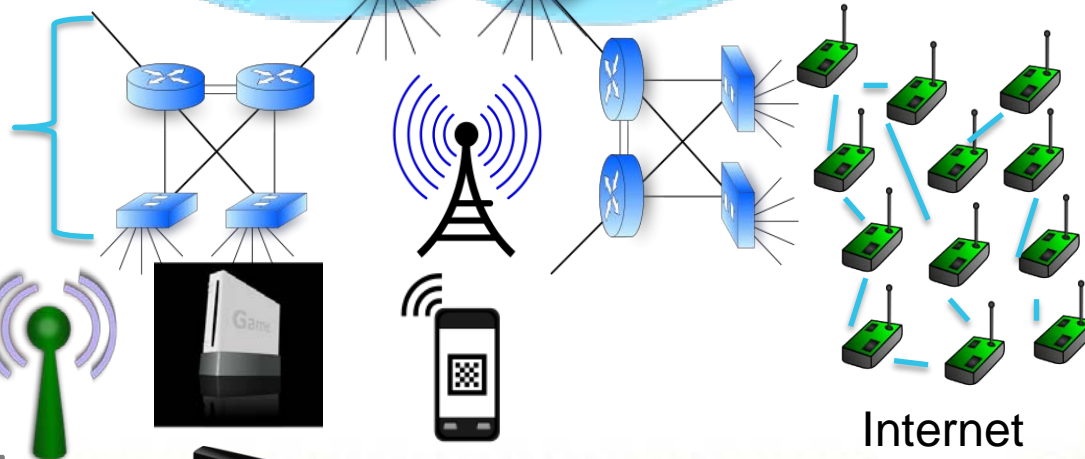
Datacenter



Datacenter

Computing
in the Cloud

Software defined
Information-centric
networks



Wireless
Networks

Internet
of
Things

Internet
Technologies &
Architectures



Internet Technologies & Architectures: a research action line to generate innovation

Increasing Internet complexity

Number & variety of applications, services & connected devices

Complexity in data, control & management planes

Acceptance by operators, service providers & end users

Challenges for the Future of Internet

Internet Technologies & Architectures RAL

Multiservice Networks

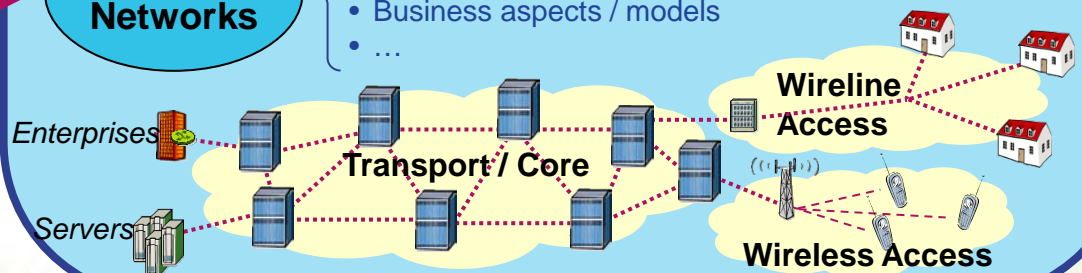
- Traffic / Application management
- Network / Service integration
- Content / Information-Centric Networking
- Sensor Networks / Internet of Things

Efficient Networks

- Multi-technology cooperation / integration / convergence
- Network Virtualization
- Autonomic Networking, Self-* mechanisms, Ad-hoc networks
- Green Networks and Networking

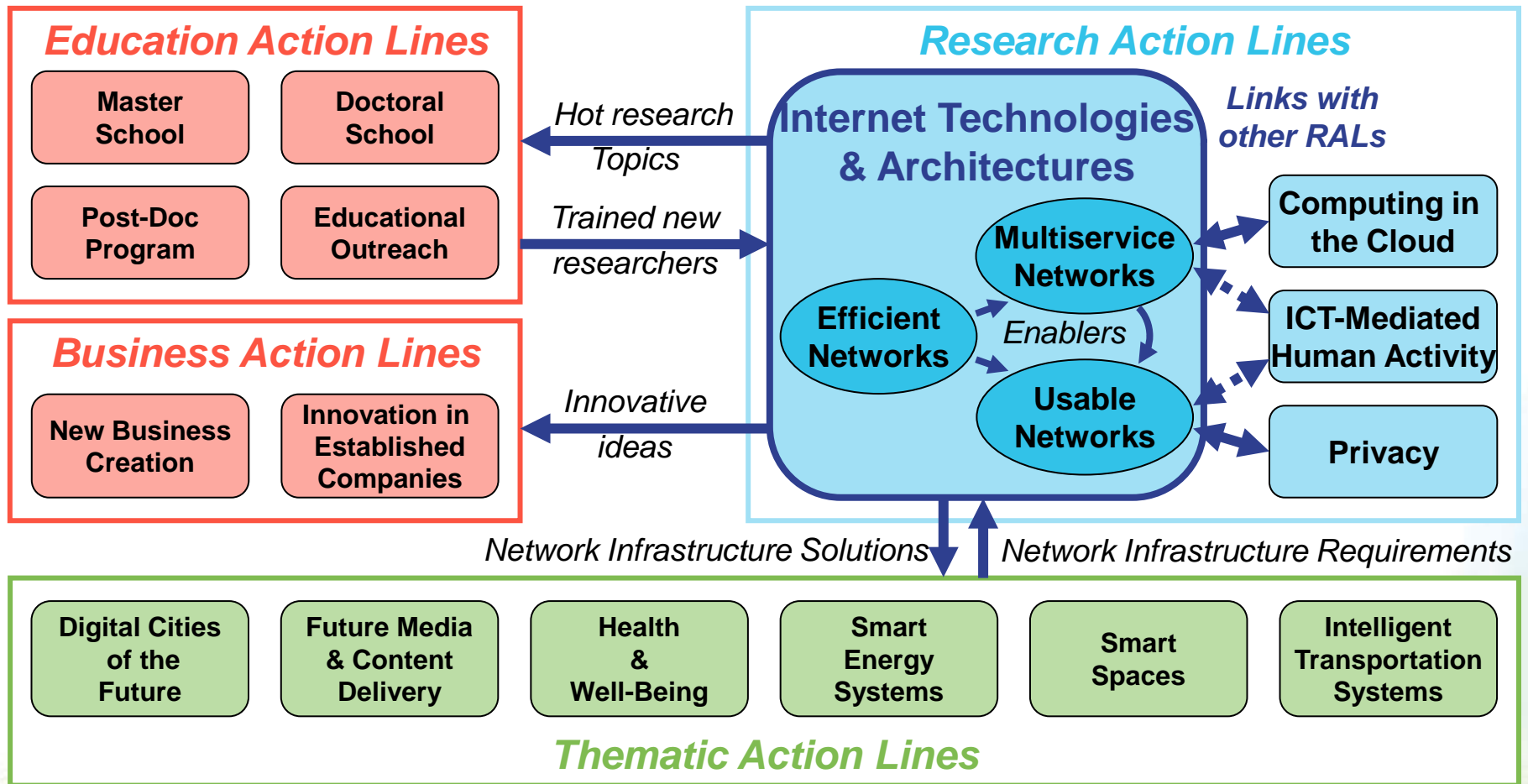
Usable Networks

- Network security
- Network robustness and trustability
- Business aspects / models
- ...





Internet Technologies & Architectures Relationship with other Actions Lines





Specific Innovation Activities

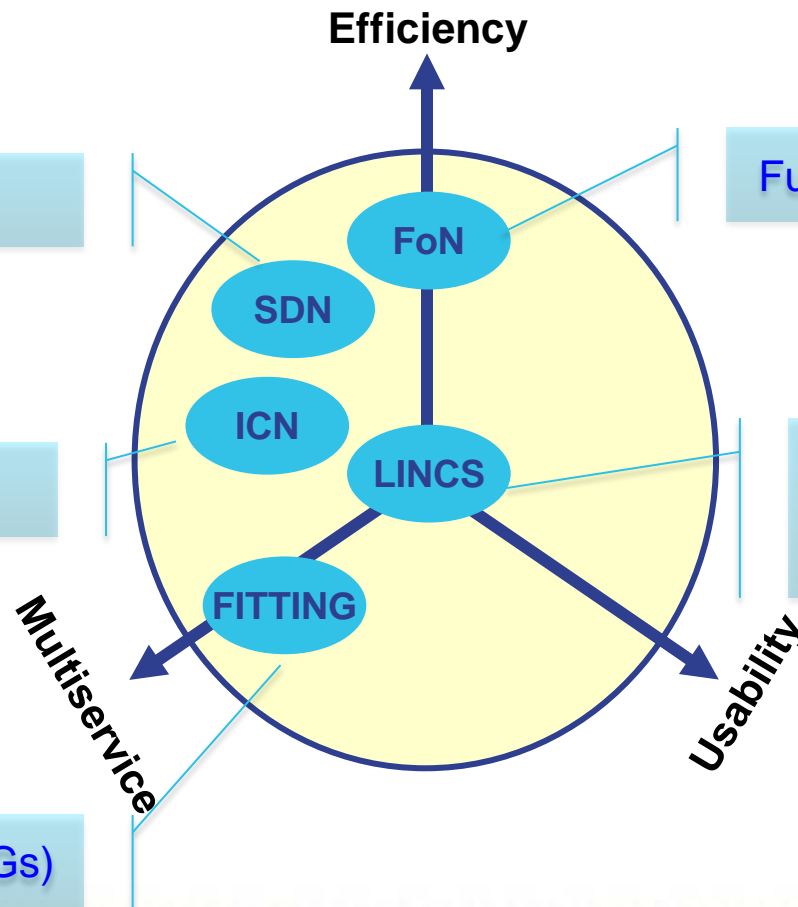
Software Defined
Networking

Fundamental of Networking

Information Centric
Networking

Laboratory of Information,
Networking and
Communication Sciences

Future Internet (of ThINGS)

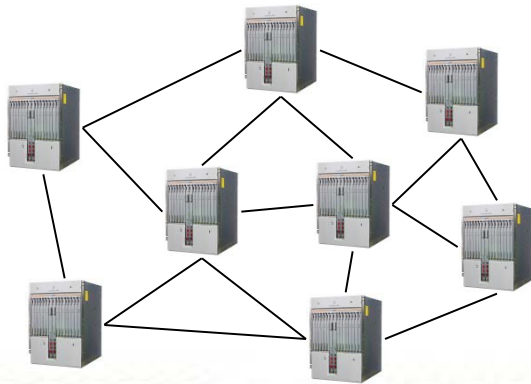


Information-centric networking

Today's Internet

focuses on
Conversations between Hosts

Host-centric abstraction
Who to communicate with

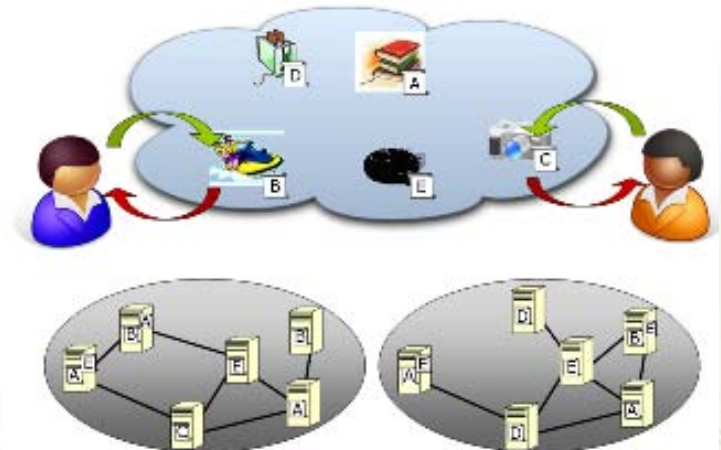


evolution

Information-centric network

focuses on
Dissemination of Information objects

Information-centric abstraction
What to communicate





EIT ICT Labs Partner Event June 29th/30th, Eindhoven [more](#)

Location: Home

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Search

EIT ICT Labs

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Turn Europe into a global leader in ICT Innovation

HOME

- ABOUT US
- VISION & MISSION
- OUR APPROACH
- EDUCATION
- RESEARCH
- BUSINESS
- ACTION LINES
- INNOVATION
- NODES
- PARTNERS
- MEDIA
- CONTACT
- ALL EVENTS
- ALL NEWS
- INTRANET ACCESS
- IMPRINT

The EIT ICT Labs - What is it about?

An interview with the CEO Prof. Dr. Willem Jonker. [click to play video ...](#)



NEWS

EIT ICT Labs at the Innovation Ecosystems Summit at Stanford
July 11, Stanford University, USA
[more](#)

Green Communications first spinoff company from the Paris Node
Green Communications is a spinoff company from Paris XI and UPMC... [more](#)

Visit us on on our website:
www.eitictlabs.eu

Summer Schools 2011

Efficient Open Innovation

EIT ICT Labs Partner Event
June 29th/30th, Eindhoven [more](#)

Populating the CLC / Office 2.0 meeting





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