



A Cross-ETP Vision for an Innovative Digital Europe



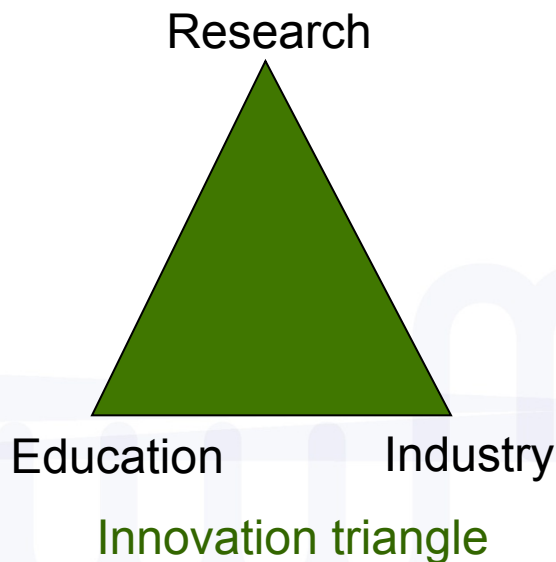
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What innovation means for ETPs ?

Innovation is transforming ideas and research into services and products that add value and have a positive impact on people, users, consumers and the society.



ETPs membership covers the innovation triangle

Recommendations (1/2)

A FUNDING PROGRAMME DEDICATED TO THE ICT SECTOR

Strengthen ICT sector with a dedicated and increased funding program at European level. Agenda-driven and challenge-driven research shall be balanced through a single source of funding based on existing PPP, IP, STREP and CSA instruments. The focus shall be given to innovation on ICT service infrastructures and the building blocks to enable the provision of new services and usage.

INNOVATION PARTNERSHIPS

Build EU Innovation Partnerships through ETPs and our Innovation catalysts; including business schools, venture academies and mentors, coaching professionals, non-profits and art, design and technology social entrepreneurs.

SUPPORT SMES IN RESEARCH

Improve access to public funding and research programmes for innovative SMEs, create research programmes suitable for SMEs, simplify instruments, increase technical, admin and financial supports and sharing best practices.

Recommendations (2/2)

SIMPLIFICATION OF THE CURRENT SYSTEM

Establish a bridge between the cooperation programme and the Competitiveness and Innovation Programme (CIP) and drive pre-commercial public procurement. In research and innovation, EC shall support both a top down approach involving end-users and knowledge creation.

STANDARDS DEVELOPMENT

Encourage standard development to allow easiest market access and create a consistent European data privacy legal framework.

A MAJOR ROLE FOR A COMMON XETP VISION

The EC as well as the public sector should introduce accompanying measures to realize the common xETP vision for an innovation Digital Europe such as public procurement which could play a major role.

Main ICT Research areas



**NETWORKED
& ELECTRONIC
MEDIA**

A connected and smarter society			
Connecting transport	Connecting the energy and environmental monitoring sectors	Connecting health applications	Connecting 'things'
<p>Networking technologies have been a key enabler in the development of Intelligent Transport Systems, providing a more effective and efficient use of road infrastructure.</p> <ul style="list-style-type: none"> - Urban and road traffic control; - Efficient trip management; - Vehicle-to-vehicle (V2V) and vehicle-to-infrastructure (V2I) communications; - The mobile office - Security, trust and privacy and resilience 	<p>The ability to securely collect data and disseminate information while staying conformant to numerous policies, providing widespread access to a knowledge data base and an efficient means of monitoring quality of the environment for the general public is of significant importance to society.</p> <ul style="list-style-type: none"> - Monitoring environmental parameters - Providing the means to have alarms e.g. in case of floods, fires, volcanoes eruptions, etc. - Efficient resources management - Technology waste 	<p>Health informatics and telemedicine are among the key areas of innovation in the health and social services sector.</p> <ul style="list-style-type: none"> - Future wireless diagnostic and disease management systems; - Hospital consultation and emergency scenarios; - Assistive technologies; - Well-being and personalisation. 	<p>Connected things will be able to provide information that will enrich existing content.</p> <ul style="list-style-type: none"> - Online content storage - 3D videoconferencing - Tele-immersion

A knowledge society		
Content availability	User interfaces and immersive experiences	User and usage data
<p>The amount of new audio-visual content created by professional, "prosumers" or anybody is increasing rapidly (User Generated Content).</p> <ul style="list-style-type: none"> - Finding truthful content; - Quality content available to all (young, elderly, people with or without special needs). 	<p>With an aging population, the shift towards intuitive user interfaces, 3D and beyond HD experiences opens up many new opportunities for business.</p> <ul style="list-style-type: none"> - Connected TV as an open platform; - New applications and services to the home. 	<p>The next challenge is to make it easy for Internet users to access in a secured way the massive quantity and diversity of information available on the Internet with the best quality while preserving digital rights when they apply.</p> <ul style="list-style-type: none"> - A user-centric Internet of services; - Access to all types of information (health, transportations, pictures, music, movies, power, sensors, social....)

Key ICT S&T Areas to deliver the cross-ETP vision

NETWORKED
& ELECTRONIC
MEDIA

- Boost access networks bandwidth
- Provide true ubiquitous personal mobile broadband
- Provide trusted and resilient services across heterogeneous networks using fixed, broadcast, mobile terrestrial and satellite networking technologies – ultimately leading to The Future Internet
- Support the connection of billions of sensors, actuators and smart items
- Advance generic software and services technologies – as the basis for advanced services in the Future Internet
- Build the basis for the Future of Media more immersive, more personalised, more collaborative, anything, anywhere, anytime on any device (ATAWAD)
- Continue to evolve the European Regulatory Environment in support of an Innovative Digital Europe.
- Foster a next generation of digital Skills and Education

Conclusion

- **This document is supported by all European Technology platforms in the domain of ICT (Net!Works, NEM, NESSI, ISI and Photonics 21) with each ETP having contributed its complementary area of ICT expertise into one integrated vision.**
- **The document describes this vision and major related scientific and technical (S&T) innovation areas as well as provides further recommendations and actions at European level to deliver it and realize impact on an Innovative Digital Europe.**
- **The cross--ETP stakeholders are firmly convinced that public initiatives, such as the European Commission's ICT Framework Programs, should continue to be part of the EU's Common Strategic Framework Horizon 2020, as they form a powerful and effective instrument to profoundly foster European research, development, and innovation activities to address sustainable growth and respond to the societal challenges.**

Thank you

