



NESSI

**The European Technology Platform for
Software and Services**

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<http://www.nessi-europe.com/>

- ▶ In some domains research has a vital role to play in addressing major technological, economic, or societal challenges. Here, **European Technology Platforms will provide a means to foster effective public-private partnerships involving as appropriate public research, industry, financial institutions, users, regulatory authorities and policymakers**, and this will deliver the impetus to **mobilise the research and innovation effort and facilitate the emergence of “lead markets” in Europe.**
- ▶ In essence, technology platforms will be mechanisms to **bring together all interested stakeholders** to develop a long-term vision, create a coherent, dynamic strategy to achieve that vision, and steer its implementation.

- ▶ Communication from the Commission
- ▶ “Investing in research: an Action Plan for Europe” – Chapter 3.2
- ▶ COM(2003)226 final

- ETPs have proven to be key instruments to achieve those goals.
- 38 ETPs are currently running, and some already support Horizon 2020 topics: ICT, Energy, Transport, etc.
- <http://cordis.europa.eu/technology-platforms/>

Individual ETPs

Bio-based economy	Energy	Environment	ICT	Production and processes	Transport
EATIP	Biofuels	WssTP	ARTEMIS	ECTP	ACARE
ETPGAH	EU PV TP		EUROP	ESTEP	ERRAC
Food for Life	TPWind		ETP4HPC	EuMaT	ERTRAC
Forest-based	RHC		ENIAC	FTC	Logistics
Plants	SmartGrids		EPoSS	SusChem	Waterborne
FABRE TP	SNETP		ISI	Nanomedicine	
TP Organics	ZEP		Net!Works	ETP-SMR	
			NEM	Manufuture	
			NESSI		
			Photonics 21		
Cross ETP Initiatives					
Nanofutures					
Industrial Safety					

- ▶ A **Strategic Research and Innovation Agenda** will form a crucial part of the strategy to optimise the contribution of research to the process.
- ▶ Technology platforms should also address both the technical and nontechnical barriers to and requirements for the optimal development, deployment and use of technologies, such as regulations, standards, financial aspects, social acceptance, skills and training needs, etc., while taking into account the relevant Community policies.

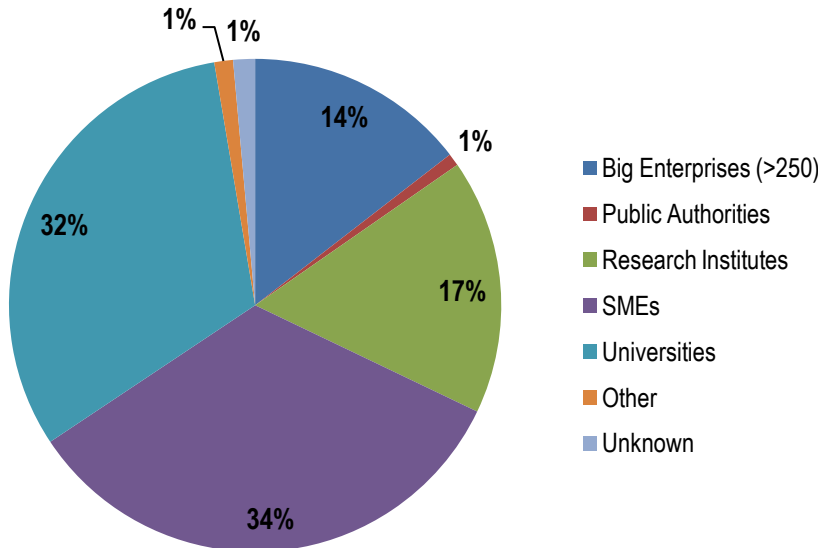
- Support the European Commission in implementing Innovation Union and Horizon 2020.
 - Provide open innovation platforms that mobilise industry and other actors to identify research and innovation bottlenecks and facilitate knowledge circulation;
 - Develop research and innovation agendas related to the challenges and priorities identified in Horizon 2020, indicating the activities to support transition from R&D to pilot and industrial scale production and giving due attention to the global value creation chain;
 - Work in partnership with Member States and Member State based platforms.
- This will require ETPs to be innovative and market focused with a clear application to societal challenges.

A mission

- ▶ **Framing the future** of the service oriented economy
- ▶ Guaranteeing **competitiveness** in Europe through ICT innovation
- ▶ NESSI partners have recognised that no single company can or should harness the power of such an environment

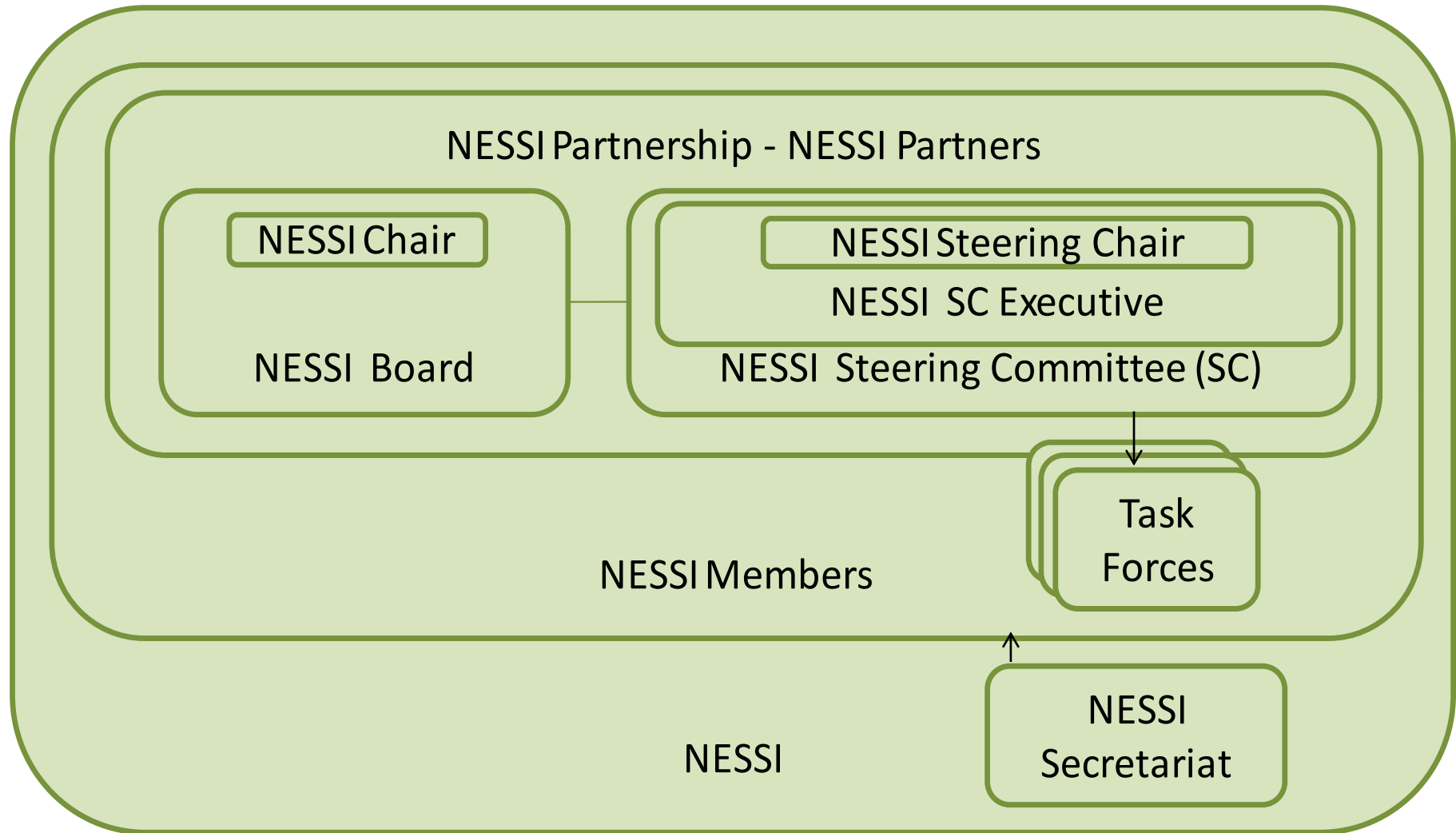
The challenge

- ▶ Transform the internet to **combine technologies, services and usages**
- ▶ Ensuring that services can be provided to all, citizens and businesses alike, in safe, secure, reliable, extensible and scalable environments



Membership

- ▶ NESSI represents the Software and Services IT industry for the members and partners towards the Commission and other stakeholders on future technology, industry and economical/business developments in the domain



NESSI publications, position and white papers:

- ▶ Accreditation by the European Commission as ETP for Horizon2020 – July2013
- ▶ **NESSI Strategic Research and Innovation Agenda (SRIA) - April 2013**
- ▶ **NESSI Manifesto and Prospectus – May 2013**
- ▶ ETP self-assessment form – April 2013
- ▶ Work Programme 2014 input paper – Jan 2013
- ▶ Big Data White Paper – Jan 2013
- ▶ Cloud White Paper – Jul 2012
- ▶ Position paper on Horizon 2020 – May 2012
- ▶ xETP position paper on Horizon 2020 – May 2012
- ▶ Contribution to the European Commission public consultation on Cloud, Software and Services – April 2013
- ▶ Factories of the Future position paper/input paper – May 2013
- ▶ **Cloud Computing position paper – 2014**
- ▶ **Software Engineering White paper – 2014**
- ▶ **Big Data cPPP - 2014**



SRIA Main Focus Areas

- ▶ Objective: propose key R&I priorities for and recommendations concerning implementation of the first Work Programme of Horizon 2020
- ▶ Process: the SRIA is the result of a systematic review of the ICT section of the Horizon 2020 Industrial leadership priorities. Input was collected from:
 - ▶ Former NESSI SRA (2011)
 - ▶ On-line consultation of NESSI Members
 - ▶ Face-to-face consultation at NESSI Members' day
 - ▶ NESSI Steering Committee
- ▶ Dissemination:
 - ▶ Communicated to a number of pre-defined relevant decision makers and other stakeholders
 - ▶ Follow-up meetings and continuous dialogue on the research priorities put forward in the SRIA



7 main focus areas addressing 3 ICT activity lines and 1 Societal Challenge:

- ▶ **Next generation computing:**
 - ▶ New ways to increase software performance and energy-efficiency

- ▶ **Future Internet:**
 - ▶ Quality in cloud-based heterogeneous service scenarios
 - ▶ Services benefiting from Programmable Networks
 - ▶ Service usage in a fast changing business world
 - ▶ Collaborative Service Engineering based on convergence of software and data

- ▶ **Content technologies and information management:**
 - ▶ Integration of Big Data Analytics into Business processes

- ▶ **Inclusive, innovative and secure societies**
 - ▶ Trust and security for global digital infrastructures and services

Each focus area is structured across 4 main components (which mimic typical Work Programme text):

▶ Technology outlook for 2015

The next Work Programme of Horizon 2020 will result in calls published end of 2013 and hence projects starting roughly a year later. Hence, R&I priorities have to address 2015 technology landscape!

▶ Objective

This part outlines the main challenges and expected achievements in the given focus area.

▶ Research & Innovation priorities (R&IP)

The R&IPs describe what technologies should be researched and in what way in order to reach the objectives described above.

▶ Impact:

The last section outlines the benefits that will be brought about both for the technology sector itself as well as for Europe as a whole, its citizens and its business sector

- ▶ This section provides recommendations on:
 - ▶ how to secure high commitment from all types of participants (incl. SMEs)
 - ▶ for both types of actions: research as well as innovation

- ▶ It is divided into 3 parts:
 - ▶ **Project Selection:**
Recommendations on project selection include Open Calls, Strict Proposal templates or SME-friendly evaluation

 - ▶ **Project Implementation:**
Recommendations on project selection include more flexibility, possibility of 2-step or incremental projects

 - ▶ **Project Instruments:**
Recommendations on instruments include innovation prizes and SME-oriented schemes such as Eurostars.

- ▶ NESSI Members' Day 2012 in Warsaw
- ▶ NESSI presentation at the European Data Forum 2013
- ▶ NESSI preparations for ICT2013
- ▶ NESSI Summit in May 2014
- ▶ **NESSI Member's and International Cooperation Day: 20-21 Nov in Bellaterra (Barcelona):**
 - ▶ **Presentation of TPs in Europe:**
 - ▶ **NESSI – Software & Services**
 - ▶ **NEM – Media and Content**
 - ▶ **Networld 2020 – Communications**
 - ▶ **PLANETIC – Spanish ICT-based TP**
 - ▶ **Presentation of INCO projects around ICT**
 - ▶ **Preparation of proposals for H2020 April 2015**

- ▶ 1. Get **access to new knowledge and information of strategic character**, improving the technological basis of the SMEs.

- ▶ 2. Enable the **adoption of the services strategy**: A merging pot that compiles the know-how of all companies developing services.

- ▶ 3. Contribute to **remove the bottlenecks that prevent SMEs to get involved into RTD programmes**.

- ▶ **4. Help SMEs at expressing and covering their research needs and interests** and allowing better mapping of SMEs potentialities and role in RTD fields.
- ▶ **5. Boost the SMEs participation on the research and development** of the future steps (future internet, internet of the objects, etc).
- ▶ **6. Improve their businesses** through the delivery of innovative solutions in a vast spectrum of industrial and service sectors: Aerospace, Defense, Automotive, Energy, Health, etc.

- ▶ **7. Set up valuable partnerships with key industrial and service sectors in Europe.** Establish contacts of strategic interest (large companies), share the technological and industrial risks of SMEs.
- ▶ These issues are very relevant to SMEs, a key factor for economic growth and job creation. SMEs contribute to Europe's major challenge to preserve competitiveness through the delivery of products and processes underpinned by innovation in the global marketplace.

- ▶ SMEs have the opportunities to get profit of and participate to NESSI initiatives: e.g. **Elaboration of the SRIA**: There is an open invitation to become part in an active community in the world in building the SRIA, based on open contribution mechanisms that will ensure that the SRA meets the requirements of the user community, incorporate the best open technologies, and trigger research with concrete and applicable results.

- ▶ Through the participation in the NESSI initiatives, SMEs will influence and build the service architecture of the future, increase the technological content of their services and boost their competitiveness in a global market: new potential markets and business opportunities.
- ▶ NESSI allows the creation of effective trans-national networks of technology-based SMEs having similar or complementary needs, the networking to combine strengths, the access to knowledge, skills, technology and facilities available within the EU and the access to market opportunities.

- ▶ <http://www.nessi-europe.com/>