



“EECA Cluster Final Conference” Collaboration with NESSI

Athens Technology Center <http://ilab.atc.gr/>

Agenda

- **Introduction:** Yannis Kliafas, Athens Technology Center SA
- **Cluster's Community Building activities & common interests/priorities:** Andreas Kalligeris Skentzos, Athens Technology Center SA
- **IBM activities & priorities:** David Bernstein
- **Singular Logic activities & priorities:** Stelios Pantelopoulos
- **InnoGage activities & priorities:** Daniel Van Lerberghe
- **International Cooperation: how to foster international cooperation between NESSI & the EECA countries:** Andreas Kalligeris Skentzos, Athens Technology Center SA

Introduction



- Purpose of the Event
 - Discuss on the future cooperation between the European Technology Platforms (ETPs) and the EECA region, namely on the common R&I priorities, the factors hindering this collaboration as well as actions to overcome them;
 - Facilitate networking among EU and EECA ICT teams.
- Session aim: Open discussion on
 - Validating the common research areas among the ETPs & the EECA region
 - Factors hindering active involvement of EECA ICT teams in the ETPs' activities

Cluster's Community Building
activities & common
interests/priorities



Survey in EECA countries



Preparation of two questionnaires (one-NESSI related) & distribution to EECA partners/experts

Collection and import of data in a specific Data Repository

Processing of data collected
Consolidation of the results

Analysis of priorities in EECA



NESSI Priorities surveyed in:

- Armenia
- Azerbaijan
- Belarus
- Kazakhstan
- Moldova
- Ukraine
- Uzbekistan

H2020 Priorities surveyed in:

- Armenia
- Azerbaijan
- Belarus
- Kazakhstan
- Moldova
- Ukraine
- Uzbekistan
- Russia
- Georgia



NESSI Priorities in EECA



Global View			
NESSI Priorities	1 high	2 moderate	3 limited/none
Smart Cyber-Physical Systems	21%	41%	38%
Cognitive Systems	30%	50%	20%
Smart System Integration	36%	54%	11%
Cloud Computing	33%	38%	29%
Software Technologies	51%	33%	16%
Media and Content	23%	55%	23%
Privacy, security and trust	34%	36%	30%

Most Relevant Topics

- Software Technologies
- Cloud Computing
- Privacy Security & Trust
- Smart System Integration
- Cognitive Systems
- Media and Content
- Smart Cyber-Physical Systems



Key Industries in 9 EECA countries

Key Industries	GDP/Employment Contribution	Investment Absorption	Exports contribution	Government Guidelines
Energy related sectors (primary or secondary production)	4	3	4	2
Electricity, Gas Production & Distribution	7	-	-	2
Food Production	8	-	-	2
Metallurgy	5	-	1	1
Transport & Telecommunications	7	6	1	3
Textile & clothing industry	2	-	-	
Agriculture	4	1	-	3
Machinery production	2	-	-	2
Construction & Real Estate	6	5	1	3
Financial Services	-	-	-	
Electrical, Electronics (including ICT)	-	-	-	9
Social Services (Health, Public and Education)	9	-	-	9

H2020 priorities for EECA

H2020 Domains	NESSI Priorities	Energy Related Sectors	Social Services (health, public and education)	Electricity, Gas Production & Distribution	Food Production	Metallurgy	Textile & Clothing industry	Machinery production	Construction & Real Estate	Transport & Telco	Agriculture	Financial Services	E&E (incl. ICT related)
A new generation of components & systems (Smart Cyber Physical Systems, ...)	Smart Cyber Physical Systems	x		x	x	x	x	x	x	x	x		x
Advanced Computing and Cloud Computing	Cloud Computing		x										
Future Internet (5G, Networking, Software Technologies, CAPS)	Software Technologies									x		x	x
Content (Big Data, Media, Learning, Creativity)	Media and Content	x	x	x		x	x	x	x	x	x	x	x
Robotics and Autonomous Systems	Cognitive Systems				x	x	x	x	x		x		
Key enabling technologies (Photonics, Micro & Nano electronics)	Software Technologies						x	x					x
Factories of the Future	Smart System Integration	x		x	x	x	x	x					x

ICT in Horizon 2020

Glimpse in the NESSI related part of the 2017 Work-Programme

ICT11: Collective Awareness Platforms for Sustainability and Social Innovation

- **Innovation Actions 9M€ Deadline: 25/4/2017**
 - pilots of Collective Awareness Platforms (CAPs) demonstrating new forms of bottom-up innovation and social collaboration exploiting digital hyper-connectivity and collaborative tools based on open data, open knowledge, open source software and open hardware, harnessing crowdsourcing or crowdfunding models.
- **Coordination & Support Actions 1M€ Deadline: 25/4/2017**
 - to coordinate and support the CAPs initiative and the
 - underlying broader digital social innovation constituency, by identifying links and synergies
 - among different projects, and ensuring visibility and contacts at European and international
 - level.

ICT14: Cross-sectorial and cross-lingual data integration and experimentation

- **Innovation Actions 27M€ Deadline: 25/4/2017**

- Data integration activities will address data challenges in cross-domain setups, where similar contributions of data assets will be required by groups of EU industries that are arranged along data value chains. The actions include the operation of shared systems of entity identifiers, the definition of agreed data models, support for multilingual data management, data brokerage schemes and the definition of agreed processes to ensure data quality and the protection of commercial confidentiality and personal data.
- Data experimentation incubators should address big data experimentation in a cross-sectorial, cross lingual and/or cross-border setup. This setup should include access to data in different domains and languages, appropriate computational infrastructure, and open software tools. The incubator should make these available to the experimenters. The incubators are expected to address the technical, linguistic, legal, organisational, and IPR issues, and provide a supported environment for running the experiments. The proposal will define the selection process of the experimenters running the data activities for which financial support will be granted.

ICT15: Large Scale Pilot actions in sectors best benefitting from data-driven innovation

- **Innovation action: 25M€ Deadline: 25/4/2017**
 - Large Scale Pilot actions should address domains of strategic importance for EU industry and carry out large scale sectorial demonstrations which can be replicated and transferred across the EU and in other contexts.
 - Large Scale Pilot actions are expected to exhibit substantial visibility, mobilisation, and commercial and technological impact. Proposals should demonstrate that they have access to appropriately large, complex and realistic data sets.

ICT16: Big Data PPP: Research addressing main technology challenges of the data economy

- **Research & Innovation Actions 31M€ Deadline: 25/4/2017**
 - Software stacks designed to help programmers and big data practitioners take advantage of novel architectures in order to optimise Big Data processing tasks;
 - Distributed data and process mining, predictive analytics and visualization at the service of industrial decision support processes;
 - Real-time complex event processing over extremely large numbers of high volume streams of possibly noisy, possibly incomplete data.

ICT17: Support, industrial skills, benchmarking and evaluation

- **Research & Innovation Actions 2M€ Deadline: 25/4/2017**
 - The benchmarking action will identify specific data management and analytics technologies of European significance, define benchmarks and organise evaluations that allow following their certifiable progress on performance parameters (including energy efficiency) of industrial significance. The benchmarking and evaluation schemes will liaise closely with data experimentation/integration (ICT-14) and Large Scale Pilot (ICT-15) projects to reach out to key industrial communities, to ensure that benchmarking responds to their real needs and problems, and to provide a basis for measuring the success of the PPP.

Thank you!

