



The PICTURE project, ICT R&I priorities in EaP, areas of cooperation

With the EU PICTURE project participants

Yerevan, September 26,2013







THEME 1: PICTURE PROJECT

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PICTURE:

Policy dialogue in ICT to an upper level for reinforced EU-EECA cooperation



- FP7 project, EC-funded
- International cooperation support action
- Start: 01/12/2011
- Duration: 30 months
- Target groups: National ICT stakeholders, ICT R&D organisations and companies,
- Target countries: Armenia, Azerbaijan, Belarus,
 Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia,
 Tajikistan, Turkmenistan, Ukraine, Uzbekistan

The **overall aim** of the PICTURE project is to engage the EU and EECA stakeholders from across research, academia, industries, government and civil society to enrich and **support the EU-EECA ICT Policy Dialogue**, and to reinforce **strategic partnerships** between EU and EECA ICT organizations









Project objectives



Reinforced strategic partnerships with the EECA countries and international dimension of the EU ICT research programme

Enrich and support the policy dialogue between EU and EECA

Strengthen s partnerships k EU and organizations

strategic between EECA Facilitate interactions between EU and EECA ICT communities through organizations of joint events and joint EU-EECAR&D initiatives









Picture thematic working groups

SUPPORT TO POLICY DIALOGUE



Total experts number: 33

Working groups -WG



Policy dialogue



Components, computing systems & networks



Content technologies & information management



consortium partners+ 3 external experts



2 consortium partners + 8 external experts



5 consortium partners + 10 external experts



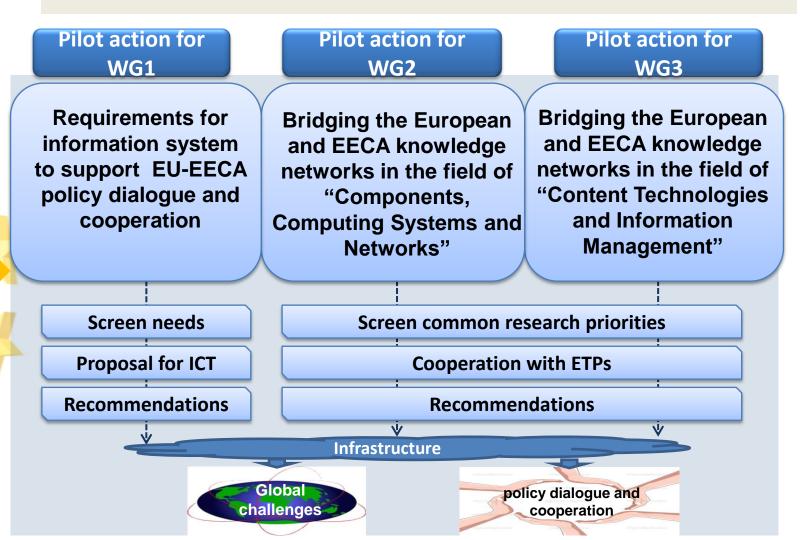






Pilot actions

STRENTHENING OF THE COOPERATIVE RESEACH LINKS









Key Intermediate results

Support to policy dialogue

- Three working groups created
- ICT priorities in EECA countries updated

ICT stakeholders networking, events and synergy

- 2 Workshops of the POLICY DIALOGUE Working group
- Workshops of the Content technologies and information management Working group + 1 Workshop of the Components, computing systems, and networks Working group
- Info-day co-organisation, Kiev, May 2013
- Info-day co-organisation, Yerevan, September 2013

Strengthening of cooperative research links

- Roadmap for the ICT EU-EECA collaboration published
- Three pilot actions are in active implementation
- Outcomes in the EECA countries (emerging collaboration with European Technology Platforms...)









Next steps

Support to policy dialogue

 Exchange with three thematic working groups members on STRENTHENING OF THE COOPERATION EU-EECA RESEACH LINKS

ICT stakeholders networking, events and synergy

Workshop of the WG2 (yesterday)

Strengthening of cooperative research links

- Implementation of pilot actions in cooperation with ETPs
- Networking and brokerage session ICT 2013 in Vilnius







How can we help ICT specialists?

Activities/Tools

ICT Specialists

Networking and Brokerage events

Participate (next: Erevan and Vilnius!)

EECA ICT newsletter

Publish your success story

EU and EECA ICT events

Learn about the most relevant ICT EU and EECA events (on the website)

3 WGs groups

Make suggestions to the members

Integration to European Networks

Use our support / coaching

EECA ICT Competence Platform

Consult profiles of 2500 ICT EU and EECA experts/ research centers (become one of us!)

Complementary to NCPs!









TO BE CONNECTED WITH PICTURE

http://www.eeca-ict.eu

- Learn about Project!
- Ask for assistance!
- Follow our progresses
- Find a partner!
- Info-day slides published











THEME 2:

ICT R&I priorities in EaP countries and areas of cooperation

Speakers
Tatyana Lyadnova and
Givi Kochoradze









EU-EECA R&D collaboration. Background

EECA ICT Clustering projects

Different consultancy tools:

- √ competence platform
- ✓ cooperation potential studies
- ✓ documents analysis http://www.eeca-ict.eu/

Consultations:

- ✓ with different stakeholders
- ✓ workshops
- ✓ panel discussions

- Consultation Workshops on ICT priorities in each EaP country (2010)
- Interviews with high-level ICT experts
- Joint panel discussion Final Conference EECA ICT Cluster (2011)







EU-EECA R&D collaboration. Further development by PICTURE project

PICTURE team continues the efforts of the three clustering projects, bringing ICT collaboration between EU and EECA at the upper level.

Common EECA ICT Priorities were updated (2012):

•Actions of project partners:

- conducted consultations with key ICT actors
- national authorities
- analyzed new national strategic documents



- specified ICT priorities for most countries
- added new ICT priorities correlated with current trends in EU, in the world
- Selection criteria of priorities by project partners:
- $\bullet \rightarrow (1)$ country high level expertise in this topic, critical mass of top level researchers;
- (2) importance to address these topics for the EECA countries' economic and social developments, help EECA countries to face major socio-economic challenges;
- •→(3) supporting the competitiveness of industry, to ensure leveraging by the EU budget of private spending;
- •->(4) development of interoperable solutions and standards...







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The National ICT R&D Priorities in EaP

"Updated report about the EECA ICT priorities" developed

http://www.eeca-ict.eu/useful information&active

Each EaP country presented:

- The basis on which the update of national ICT R&D priorities has been done
- General information about the ICT sector in the country
- List of national ICT R&D priorities
- ICT competences as extracted from the EU-EECA ICT competence platform
- ICT R&D areas recommended for cooperation with the EU







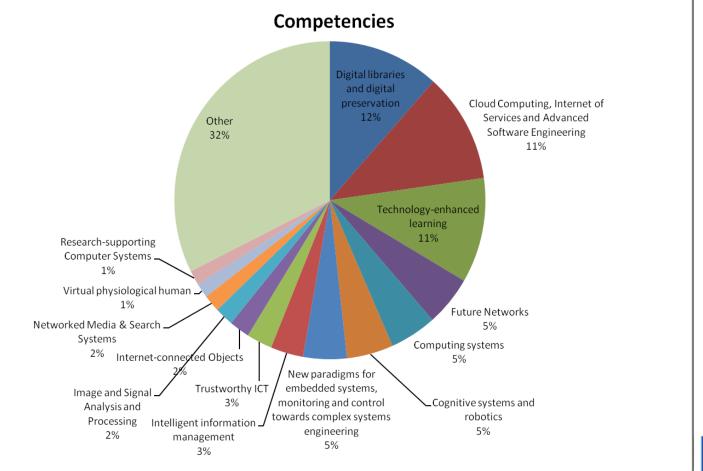
EU-EECA ICT Competence Platform (1)

http://www.eeca-ict.eu/competence

Objective:

a) indentify a 'critical mass of researchers'

<u>Distribution of ICT competences of EECA ICT specialists:</u>



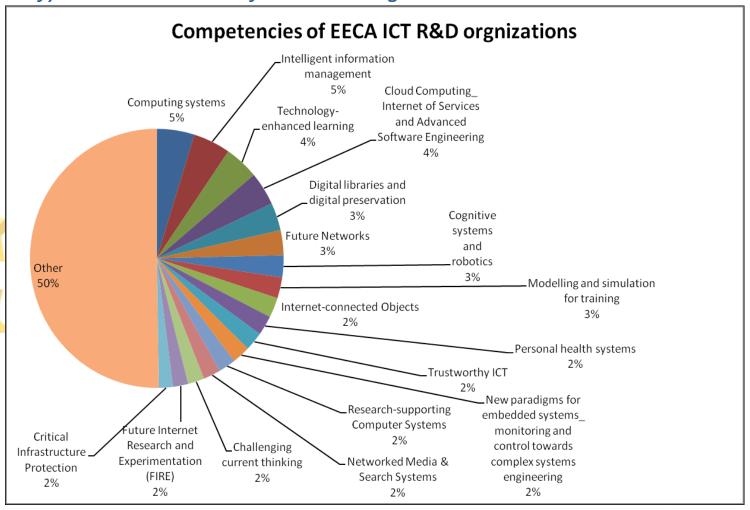




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EU-EECA ICT Competence Platform (2)

b) indentify a 'critical mass' of research organisations









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EU-EECA ICT Competence Platform (3)

Top 20 ICT domains with highest total ratings in the EECA region

#	Domain	Rating
1.	Cloud Computing, Internet of Services and Advanced Software Engineering	140
2.	Computing systems	140
3.	Digital libraries and digital preservation	140
4.	Technology-enhanced learning	140
5.	Future Networks	136
6.	Intelligent information management	136
7.	Cognitive systems and robotics	133
•••		•••
20.	Mathematical Foundations of Information Security	98







List of R&D areas with highest potential for cooperation

•				
Armenia	 Computing systems Intelligent information management, Security, Trustworthy ICT Technology-enhanced learning Components, Systems, Engineering Digital libraries and digital preservation Organic photonics and other disruptive photonics technologies e-Health 			
Azerbaijan	 Cloud Computing, Internet of Services and Advanced Software Engineering Cognitive Systems and Robotics Nanoelectronics Technology Computing Systems Digital Libraries and Digital Preservation Intelligent Information Management and Technology-Enhanced Learning e-Health ICT Solutions for governance and policy modelling ICT systems for Energy Efficiency 			







List of R&D areas with highest potential for cooperation

Belarus	 GRID and Cloud Computing, High-performance computing, Supercomputing Digital Libraries and Digital Preservation Nanoelectronics Technology, Microelectronics, Components Photonics Internet of Services, Future Internet e- Health ICT for Governance and Policy Modelling, Intelligent Information Management
Georgia	 Geo-Spatial Technologies ICT for energy efficiency Technology-Enhanced Learning Personal Health Systems Nanoelectronics Technology Internet of Services, Software & virtualization Intelligent Information management Photonics







List of R&D areas with highest potential for cooperation

Moldova	 Computing Systems Internet of Services, Software & Virtualization Digital libraries and digital preservation Technology-Enhanced Learning Intelligent information management Nanoelectronics Technology
A	7. ICT for Patient Safety
Ukraine	
	1. GRID and Cloud Computing, High-performance computing, Supercomputing
1	2. Electronic governance (e-governance), Intelligent Information Management
	3. Internet of Services, Future Internet, Future Networks
	4. Microelectronics, Microsystems and smart miniaturised systems
N .	5. Cognitive Systems and Robotics
	6. Technology-Enhanced Learning
	7. Digital Libraries and Content
	8. Electronic Health (e-Health)

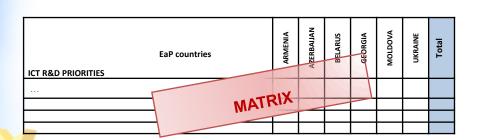








Summary of cooperation potential study



The table with EaP countries' ICT priorities helped to indentify the ones with similar formulations

- ICT-priorities: the most significant common ICT-domains for EaP countries:
 - Internet of Services, Future Internet, Grid and Cloud Computing, total sum 8
 - Nanoelectronics Technology and Microelectronics Components, Photonics, total sum 8
 - Digital Libraries and Content, Digital libraries and digital preservation, total sum 5
 - Technology-Enhanced Learning, total sum 5
 - Electronic governance and Intelligent information management, total sum 9
 - ICT for Health (e-Health, Personal Health Systems, ICT for Patient Safety), total sum 6







picture

Recommended ICT R&D topics for EU-EaP collaboration

Proposed topics:

- Main ICT priorities specified in the national R&D programmes of the EaP countries
- Directed at developing ICT solutions to address the major societal challenges both in EaP and EU27
- Relevant to the main Challenges of the **new H2020**
- Directed towards the development of basic ICT technologies/infrastructures
- The EaP assets: high-level expertise in these topics + critical mass of high-level researchers

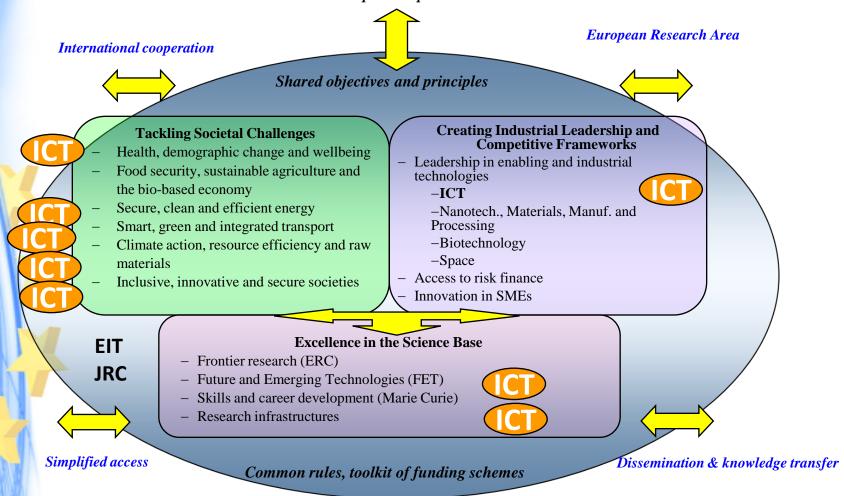
Topic 1:	GRID and Cloud Computing
Topic 2:	ICT for e-learning and digital information services
Topic 3:	Nanoelectronics Technology, Microelectronics Components
Topic 4:	Electronic governance (e-governance), including Intelligent information management
Topic 5:	Advanced technology for e-Health





Horizon 2020 – Objectives and structure

Europe 2020 priorities











Concluding remark

PICTURE project final goal is:

- to support the creation of a collaboration environment
- to keep all elements that constitute EU-EECA cooperation under continuous dialogue and review







Thank you for your attention!





