Objective 1.4

Trustworthy ICT

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Unit F5 - Trust & Security
Setting the scene - The Digital Wave
Setting the scene
Growing Information Society!

Car/Railway

Mobile

Office/Factory

Intranet Information
IC Card

Home
Outdoor
Street/Shop

DVC
STB
Game Machine
Map Information
E-Tower

Digital contents

IEEE International Symposium, 06-08/06/2011
Security, Privacy, Trust in the Information Society

- Complexity, ease of use
- Role of end-users
- Society-protecting business models

Technology & Innovation

- Global ICT - national “frontiers”
- “Economics of security”
- Policies for privacy-respecting T&I?

End-Users & the Society

- Security
- Protection of human values
- Transparency, accountability
- Auditing and Law enforcement

Trustworthy Information Society?

Policy & Regulation

IEEE International Symposium, 06-08/06/2011
Trustworthy ICT Research Stakeholders

- Security, Dependability & Trust
- Critical Infrastructures
- Software & Services
- End-User and Societal Aspects
- Networking
- Regulators
FP7 Cooperation Programme: 32,413 M€
The 10 Themes

- ICT: 9050; 28%
- Health: 6100; 19%
- Energy: 2350; 7%
- Environment: 1890; 6%
- Transport: 4160; 13%
- Socio-economics: 623; 2%
- Food, …; 1935; 6%
- NMT: 3475; 11%
- ICT Security & Trust: 1400; 4%
- Space: 1430; 4%
- Security: 1400; 4%

Total 50,521 M€
Trust and Security: 58 projects
of FP7 Call 1 and Call 5

Network infrastructures
- 4 projects
- 7 projects
- 40M€

Identity management, privacy, trust
- 8 projects
- 60M€

Services infrastructures
- 4 projects
- 48M€

Critical Infrastructure Protection
- 9 projects
- 20M€

Enabling technologies
Biometrics, trusted computing, cryptography
- 4 projects
- 27M€

Networking, Coordination and Support
Research roadmaps, metrics and benchmarks, international cooperation, coordination activities
- 4 projects
- 5M€

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Trust and Security in the Digital Agenda for Europe

low trust = low use

- Digital single market
- Interoperability and standards
- Trust and security
- Very fast Internet
- Research and Innovation
- E-skills
- Social challenges
Challenge 1
Pervasive and Trustworthy Network and Service Infrastructures

Call 8
80 M€

Call 8
70 M€

Call 8
25 M€

Call 8
160 M€

1.1 Future Networks
1.2 Internet of Services & Cloud Comp.
1.3 Internet connected Objects
1.5 Networked Media & Search Systems
1.4 Trustworthy ICT
1.6 Future Internet Research & Experimentation

Future Internet PPP

Call FI
90 M€

Call 7
30 M€

Call 7
70 M€

Call 7
20 M€

Call FI
20/07/10 – 02/12/10
Call 7
28/09/10 – 18/01/11
Call 8
26/07/11 – 17/01/12

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FP7-ICT Call 8: 1.4 Trustworthy ICT

- Heterogeneous networked, service and computing environments
- Trust, eIdentity and Privacy management infrastructures
- Data policy, governance and socio-economic ecosystems
- Networking and coordination activities

80 m€

70 M€
Min. 50% IPs
Min. 30% STREPs

Max. 10 M€
NoE, CSA

26/7/2011 – 17/1/2012

IEEE International Symposium, 06-08/06/2011
Objective 1.4 Trustworthy ICT

Target outcomes

a) Heterogeneous networked service and computing environments
   - Trustworthy Architectures and protocols
   - Trustworthy Future Internet
   - Virtualisation and other techniques for protection, assurance, ..
   - Metrics and tools for quantitative security
   - Enabling technologies (languages, biometry, crypto, ..)

b) Trust, eID and Privacy management Infrastructures
   - Trust assurance
   - Privacy infrastructures
   - Management of ID claims (usability, privacy, control)

c) Data policy, governance and socio-economic ecosystems
   - Management and governance frameworks for trust and security policies; Technology supported socio-economic frameworks.
   - Multi-polar security governance; Tools for trust measurement

d) Networking and Coordination Activities
   - Stimulating and organising interplay technology-law-society-economy
   - Promoting standards, certification, best practices
   - Coordination national RTD activities

Expected Impact

- Industrial competitiveness – Trustworthy ICT
- Support to users - Confidence, usability and acceptance
- Demonstrable improvements – Large scale networks, network attacks and security incidents
- Significant contribution (Trustworthy Infrastructures, interoperability and standardization, usability and acceptance
- Coordination of research

Remember: The Workprogramme text is the official reference for the call
Trustworthy Information Society

- Ecosystem of digital communication, data processing & service infrastructures
- With trustworthiness in its design & respect for human & societal values & cultures
- Ensure strong interplay with legal, social & economic research
Trustworthy Information Society
ecosystem of digital communication, data processing & service infrastructures
respect for human & societal values & cultures
ensure strong interplay with legal, social & economic research

a) heterogeneous networked, service & computing environments

trustworthy polymorphic future internet
metrics & tools for quantitative security
evirtualisation & other techniques

trustworthy architectures & protocols

enabling technologies
Trustworthy Information Society ecosystem of digital communication, data processing & service infrastructures respect for human & societal values & cultures ensure strong interplay with legal, social & economic research

a) heterogeneous networked, service & computing environments

b) Trust, eIdentity & Privacy management infrastructures

privacy infrastructures trust architectures, protocols & models management of identity claims

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Trustworthy Information Society ecosystem of digital communication, data processing & service infrastructures

- Respect for human & societal values & cultures
- Ensure strong interplay with legal, social & economic research

- Heterogeneous networked, service & computing environments
- Trust, eIdentity & Privacy management infrastructures
- Data policy, governance & socio-economic ecosystems

- Management and governance frameworks for trust and security policies
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- Tools for trust measurement

Technology supported socio-economics frameworks

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Trustworthy Information Society ecosystem of digital communication, data processing & service infrastructures

- respect for human & societal values & cultures
- ensure strong interplay with legal, social & economic research
- heterogeneous networked, service & computing environments
- a) trust, eIdentity & Privacy management infrastructures
- b) Data policy, governance & social & economic ecosystems
- c) networking & Coordination activities
Don’t forget impact! ICT Work Programme 2011 - 2012
Objective 1.4 Trustworthy ICT

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The Take Away

• Opportunity to...
  - Update research lines
  - Expand our constituency (new players)

• Beyond state-of-the-art
  - Future trends / long term innovation
  - Pursue exploitable outcomes and ensure contribution to expected impact

Towards Call 8
  - Information days
  - Organise workshops yourself!
  - We might organise preparatory workshops
  - Know ongoing/former projects and initiatives
FP7 trust and security
The path

Call 8
- 2011
- 80 M€
- 25 projects

Call 5
- 2011
- 90 M€
- 25 projects

Call 1
- 2011
- 110 M€
- 33 projects

FP8
- 2011
FI-PPP
- 2011
DAE
- 2011
EU R&D on Trustworthy ICT

aiming at ...

- An Influential Trust & Security community in Europe
- A competitive Trust & Security industry contributing to trustworthy ICT
- To support policy

Research

Industry

Policy

Let’s do it together...!
Unit F5 - The team

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Head of Unit

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Vice HoU

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Head of Sector

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Digital Agenda

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ICT Proposers Day, Budapest, 19/05/2011
For more information

FP7
cordis.europa.eu/fp7/ict/

Trust & Security
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