ICT-PSP Call 3
Work Programme 2009 - Theme 7
Internet Evolution and Security (incl. RFID)

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Trust and Security

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Networked enterprise and radio frequency identification
Objective 7.1: A European infrastructure for secure information management

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Trust and Security
Data collection and use in the interest of the citizen

for **business**, to provide personalized innovative applications and services

for **citizens**, to better communicate and interact, improve the quality of their life (Web 2.0)

for **governments** again, to provide public security (protection against crime or terrorism, border-control, protection of critical infrastructures, etc.)

**trust, user-control, privacy, security proportionality of data storage/use?**
Challenges for upcoming RTD for a Trustworthy Information Society

• **Technology**
  - Cyber-threats, cyber-crime
  - The Future of the Internet
  - Complex ICT Systems and Services underpinning Critical Infrastructures

• **Users and Society**
  - Trust, accountability, transparency
  - Identity, privacy and empowerment
  - Creativity, Usability
  - Human values and acceptance
ICT Work Programme 2007-08
33 new FP7 projects in Security & Trust

Network infrastructure
- 4 Projects: 11 m€
- 3 Projects: 9.8 m€

Identity management, privacy, trust policies
- 4 Projects: 22.5 m€
- 1 Project: 9.4 m€

Critical Information Infrastructure Protection
- 9 Projects: 20 m€

Enabling technologies for trustworthy infrastructures
- Biometrics, trusted computing, cryptography, secure SW
- 4 Projects: 16 m€

Coordination Actions
- Research roadmaps, metrics and benchmarks, international cooperation, coordination activities
- 4 Projects: 3.3 m€

110 M€
Previous ICT PSP Calls
Trust & Security

ICT PSP Call 1
- **PrivacyOS** thematic network
- 332,000€ funding, 17 partners
- www.privacyos.de

ICT PSP Call 2
- Thematic network on biometrics currently under negotiation
Focus and outcomes

• Integration of available technologies for secure information management systems
• Piloting deployment in public administrations and private organisations

Rationale

• Many technologies for data & privacy protection exist
• Insufficient deployment, leading to data leakage, loss & theft
• International standards exist

Main expected outcomes

– functional pilot, possibly with applications in different areas
– under typical real-life conditions; transferable deployment principles; best practices
– contributing to convergence across European organisations
Conditions and characteristics

- Integration of available security technologies, techniques, tools, policies and procedures into a functional pilot
- Technologies such as encryption, single sign-on, strong authentication, role definition, distributed data storage
- Combine best available technologies and practices, European convergence
- Economic viability for real-life deployment
- Public-private partnerships, solution and service providers in ICT security, public admin, private data controllers
Expected impact

- Towards operational and comprehensive secure information management in daily work environments
- Limit information loss; limit unintended use of information; promote accountability
- Increase trust in eServices

Instrument & funding:
- One pilot project, type B, up to 3 M€ funding
- Minimum 4 eligible legal entities (Member States or associated)
- Typical duration 24-36 months, with 12 months pilot operating service
Objective 7.2: Strengthening SME competitive advantage through RFID implementation

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Background

- **Policy**
  - Communication COM(2007) 96
  - Recommendation on Privacy, Data Protection and Information Security Aspects

- **RTD**
  - ICT in FP7 → from RFID to the “Internet of Things”
  - CERP Cluster
  - European technology platform (ETP): EPoSS

- **Innovation**
  - ICT Policy Support Programme (PSP) in CIP

- **Standardisation**
  - Cooperation with standardisation bodies
    - ETSI, CEN/CENELEC, EPCglobal...
Part 2: RFID in ICT PSP

- Competitiveness and Innovation programme (CIP)
  - Theme 7: Internet Evolution and Security (including RFID);
  - Objective 7.2: Strengthening SME competitive advantage through RFID implementation.

(One pilot type B, budget EUR 3M)
RFID in ICT PSP (1)

• Theme 7
  – Internet Evolution and Security (including RFID)

• Objective 7.2
  – Strengthening SME competitive advantage through RFID implementation

• Funding Instrument: Pilot Type B

• It is intended to support one pilot action (3M Euro)
RFID in ICT PSP (2)

To showcase and accelerate the take-up of RFID technologies among European SMEs

• Enhance SMEs competitiveness
• New product and service creation
• Widespread use of the RFID value chain
• Add value for society, citizens and organisations
• Build on FP7 RTD (e.g. open source ASPIRE)
• Lower cost of ownership for SMEs
Conditions and characteristics (1)

- Pilot in sectors of broad public interest
  - Healthcare, safety, environment,
  - Administration, transport, logistics, event management ...
- Pilot implements entire value chain
  - Specification, re-engineer value creation, end-to-end services,
  - Impact on competitiveness and productivity gains, privacy and authentication issues.
Conditions and characteristics (2)

- Technological innovative pilots
  - Passive, active and/or sensor tags
  - RFID and/or emerging Internet of Things

- Pilot participation
  - Minimum of 4 countries
  - Include relevant stakeholders to form visible and comprehensive showcases
  - Pilots associating public authorities preferred
  - As high as possible SME participation
Conditions and characteristics (3)

• Pilot length
  – Pilot should be operational for > 9 Months
  – Whole pilot project approx. 24 Months

• Pilot outcome
  – Specification, implementation and validation reports
  – Awareness raising and promotion material
  – Good practices report & website
  – Business plan beyond end of project
Conditions and characteristics (4)

• Pilot management
  – Measurable pilot success indicators
  – Ensure interoperability
  – Contribute to relevant standards
  – Build on best practices
Expected impact (1)

- Accelerate take-up of RFID by SMEs
- Analysis of driving forces to RFID adoption
  - Competition (efficiency, competitive advantages...)
  - Legislation (traceability, e-pedigree ...)
  - Customer mandates (retail, logistics...)
- Fostering SME demand for RFID technologies
  - Wider markets for suppliers RFID solutions
  - More innovative SMEs
Wrap up: IoT in Fp7 and in PSP

- Framework 7 work programme 2008 - 2009
  - Challenge 1: Pervasive and Trustworthy Network and Service Infrastructures
  - Objective 1.3: Internet of Things and Enterprise environments.
    (IP/STREP EUR 35 M and CSA EUR 2 M Timing: ICT Call 5)

- Competitiveness and Innovation programme (CIP)
  - Theme 7: Internet Evolution and Security (including RFID); Objective 7.2:
    Strengthening SME competitive advantage through RFID implementation.
    (One pilot type B, budget EUR 3M)