

# EU funded research is keeping up trust in digital society

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## Cybersecurity Strategy of the EU: An Open, Safe and Secure Cyberspace (2013)

#### **Some Principles:**

- Protecting fundamental rights, freedom of expression, personal data and privacy
- A shared responsibility to ensure security

#### Some elements:

- Strong and effective legislation
  - (proposed) NIS Directive
- Develop industrial and technological resources for cybersecurity
  - Fostering R&D investments and innovation

# IT Security is just the tip of the cyber-iceberg IT SECURITY

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# PRIVACY TRUST



# The big picture – Calls in FP7 & CIP (I)

- FP7-ICT-2007-1 (90M€):
  - Identity management and privacy enhancing tools
  - Security and resilience in network infrastructures
  - Security and trust in dynamic and reconfigurable service architectures
  - Trusted computing infrastructures
- **FP7-ICT-SEC-2007-1** (20 M€) Critical Infrastructure Protection
  - **CIP-ICT-PSP-2008-2 (2,5 M€)** Biometrics + Identity Management
- FP7-ICT-2009-5 (90M€)
  - Technology & Tools, Mobile Devices and Smartphones
  - Trustworthy Network Infrastructures, Cloud Security
  - Trustworthy Service infrastructures, Privacy Management
- FP7-ICT-2011-8 (80 M€)
  - Data policy, governance and socio-economic ecosystems
  - Heterogeneous networked, service and computing environments
  - Trust, e-identity and privacy management infrastructure







## The big picture – Calls in FP7 & CIP (II)

- **CIP-ICT-PSP-2012-6** Fighting Botnets (7,8 M€)
- FP7-ICT-2013-10 (35,8 M€)
  - Security and privacy in cloud computing
  - Security and privacy in mobile services
  - Development, demonstration and innovation in cyber security
- CIP-ICT-PSP-2013-7 Website Security and Biometrics (4 M€)
- Joint Calls with Brazil (2011), Japan (2013) and Australia (2013) – (5,5 M€)



In total:





### **101 R&D Projects for 334 M€ EU funding**



### **Top recipients countries** (above 1M€)

- 1. Germany 49.4 M€
- 2. France 28.9 M€
- 3. Italy 22.2 M€
- 4. United Kingdom 18.2 M€
- 5. Spain 18.1 M€
- 6. Austria 12.4 M€
- 7. Netherlands 12.0 M€
- 8. Switzerland 11.8 M€
- 9. Norway 9.9 M€
- **10.** Belgium 9.5 M€
- **11. Greece 7.7 M€**
- 12. Denmark 5.6 M€
- 13. Sweden 4.5 M€
- 14. Portugal 3.5 M€
- **15. Estonia 3.2 M€**
- **16.** Israel 3.1 M€
- **17.** Ireland 3.0 M€
- **18.** Hungary **1.7** M€
- **19.** Finland **1.6** M€

Total: 232 M€



**Privacy** (keeping up with digital society)

Data is the currency



**Growing user awareness** 

#### From research to market opportunities

**Technology to complement legislation in Europe** 



## (research to empower users)

#### New approaches on privacy:

PICOS (social networks) PRIMELIFE (comprehensive view)

#### **Privacy in new applications:** PCAS (mobile) TCLOUDS, PRACTICE (cloud) ABC4TRUST (credentials)

# **Deployment and Innovation:**

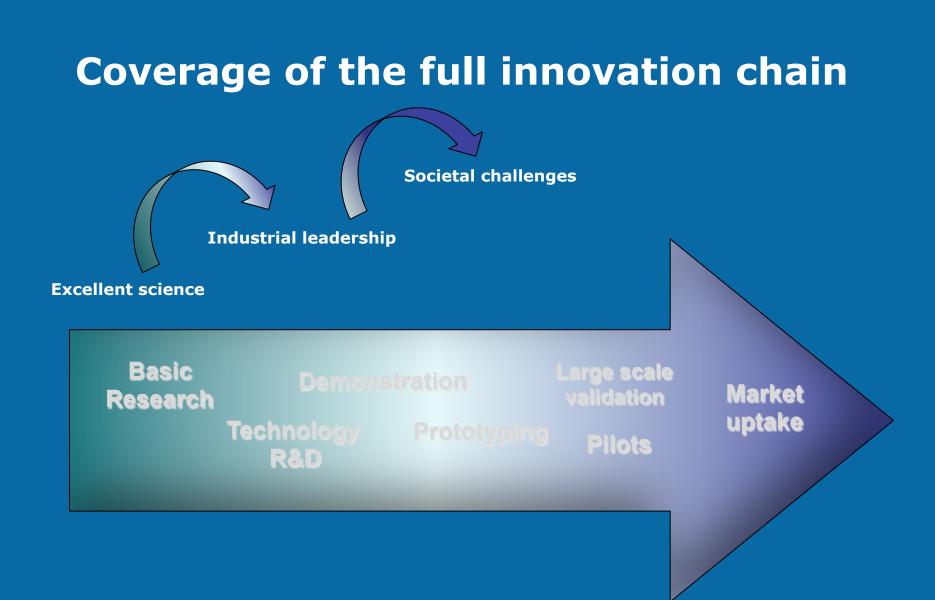
PIDaaS (private identity as a service) DS 2014-1 Privacy



THE EU FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION









### Calls in 2014/15

#### LEIT (40 M€) Technology Building blocks in Security - 2014:

- Cryptography
- Security-by-Design

e.g. project WITDOM (empoWering prIvacy and securiTy in nontrusteD envirOnMents")

#### Societal Challenge 7: Digital Security (97M€): 2014: (47 M€)

- Privacy
- Access Control
- Risk management and assurance models
- **2015:**
- The role of ICT in Critical Infrastructure Protection
  - Information driven Cyber Security Management
  - Trust eServices
  - Value-sensitive technological innovation in Cybersecurity



## What stays: success stories

#### **European support to:**

- Spin-offs and Start ups
- Academic Research
- Support European Champions to test new waters
- Better protection of users





## What remains to be done – challenges for H2020

# From world-class research to market innovation

**Europe competing globally** 

**Industrial Policy** 

**User trust in ICT** 





#### **Questions?**

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