






**Global Forum 2003**  
**Connecting businesses & communities**

**Session 4: Security & Privacy**



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## OUTLINE

- The Policy context for the EU R&D.
- Why do we need to act on security in Europe.
- The EU initiatives in information security.
- eEurope 2005 & ENISA.
- Ambient Intelligence & security.
- Outcome of IST Call 1.

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## Policy Context for the EU R&D



**ERA: European Research Area**  
 FP6, Eureka, COST, National RTD Programmes  
 ... towards a Single Market for Research

**Enlargement**  
 The candidate countries are full partners in FP5.

**Other policies**  
 Single Market, Single Currency, Security of Europeans, Sustainable Development, ...

**eEurope**  
 Broadband access, e-business, e-government, **security**, skills, e-health, ...

"EU: Largest Knowledge-based economy by 2010"

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## Why do we need to act on security in Europe?

- 75% of European companies had no security strategy in 2002.
- In 2002, IT security investments in Europe touched 5 billion dollars (up 25% compared to 2001), i.e. only 1.8% of the overall IT investments.
- 18% of companies spent less than 1% in IT security.
- 10% of companies have just 1 person in charge of security and 45% have between 2 to 5 people.
- 50% of European companies identified the "underestimation of core business risks" as the major obstacle for investments in IT security.
- Security is not strategic yet for 2 companies out of 3.

*Source: IDC/Bull survey conducted in 2002 with IT Division of 250 European companies with more than 1000 employees. Over 1000 companies were contacted*

**To promote trust and confidence, there is an urgent need for a collective effort to develop a "culture of security"**

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## EU Activities on Information and Network Security

### Regulatory Framework

- Electronic Signature Directive
- Data protection in electronic communications
- Council Resolution on Information & network security
- Council Resolution on EU approach to a culture of security
- Prop. Regulation of EP and Council establishing ENISA
- Framework Decision on attacks against information systems
- Framework Decision on combating terrorism

### Policy

- **eEurope 2005**
  - Cybersecurity Task Force
  - 'Culture of security'
- **Commission -JAI**
  - Dublin convention (1997)
  - EURODAC Regulations (2000, 2002)
  - Biometrics in travel documents
- **International Fora**
  - OECD
  - GBDe,
  - Council of Europe,
  - G8...
- **e-TEN**

### R&D Activities

- **Trust & Security in FP5**
  - 59 R&D projects on security
  - 16 R&D projects on dependability
  - A Joint EU-US task force on R&D for CIP
- **R&D in information security key in FP6**

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## Three angles for actions on security Policy

### PREVENT

*NETWORK & INFO SECURITY*

### PROSECUTE

*CYBERCRIME & TERRORISM*

### PROTECT

*PRIVACY AND DATA PROTECTION*

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## eEurope 2005: Secure Information Infrastructure

- **Establish a Cyber Security Task Force - by mid 2003**
  - supported by Member States and Industry
  - centre of competence on security issues

COM(2003) 63 final "Proposal for a Regulation of the EP and of the Council establishing the European Network and Information Security Agency"
- **Develop a 'culture of security' - end of 2005**
  - develop good practice and standards
  - report on progress issued end 2003
- **Secure communications between public services**

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## The European Network and Security Agency (ENISA)

- **A centre for information security for both MSs and EU institutions**
- **ENISA would:**
  - increase co-operation and information exchange between different stakeholders in the MSs
  - contribute to a higher level of information security on the internal market
  - foster the development of a culture of network and information security in Europe
- **ENISA would build on and leverage existing capability and resources in Member States.**

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**The vision: Ambient intelligence**

**Around us ...**

**Products and equipment at the service of individuals**

**... inside us ?**

**Micro-capsule**

Temp. Sensor, pH Sensor, Chemical Sensor, Micro Syringe, Micro Optics, Micro pump, Fixing Mechanism, Tissue Compatible Material, RF-Coaxial Module, DC/DC Converter, Minibattery, Signal Processor, System-on-Chip, extension/contraction Mechanism, Wireless Power Trans. Module, Hardness Sensor, Micro Gripper

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**Ambient Intelligence: the trends**

**IST today**

- PC based .....
- "Writing and reading".....
- "Word" based information search...
- Low bandwidth, separate networks
- Mobile telephony (voice).....
- Micro scale.....
- Silicon based.....
- eServices just emerging.....
- Only 5% of global population on-line..

**"Ambient Intelligence" tomorrow**

- "Our surrounding" is the interface
- Use all senses, intuitive
- Context-based knowledge handling
- Infinite bandwidth, convergence, ..
- Mobile/Wireless full multimedia
- Nano-scale
- + new materials
- Wide adoption (eHealth, eLearning, ...)
- >70% of world-wide population on line

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**A strategy towards Ambient Intelligence**

- To encourage excellence in R&D so that Europe is in a strong posture to exploit the Aml paradigm.
- To continue to resolve security issues within the present paradigm.
- To research and develop applications and services:
  - that can bridge the present paradigm and the new paradigm;
  - that can contribute to EU policies, in particular in areas not addressed elsewhere in the FP6 IST priority.

**There is a difficult balance to strike between these three major strategic goals**

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**IST Priority Call 1:  
2.3.1.5 Towards a global dependability and security framework**

- 89 proposals- 21 IP, 9 NoE, 51 STREP...
- 15 selected projects covering all topics (except CIP and DRM) - long-term RTD (Aml) and innovative applications (e.g. smart cards using biometrics)
- Total EU funding: ~76 millions of euro
- Next call in 2005.

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 **WEB sites** 

 [www.cordis.lu](http://www.cordis.lu)  
[www.cordis.lu/ist](http://www.cordis.lu/ist)  
[www.cordis.lu/rtd2002](http://www.cordis.lu/rtd2002)

 **IST helpdesk**  
Fax : +32 2 296 83 88  
E-Mail : [ist@cec.eu.int](mailto:ist@cec.eu.int)

Instruments: <http://www.cordis.lu/rtd2002/fp-activities/instruments.htm>  
EoI: <http://www.cordis.lu/fp6/eoi-instruments/>

IRG Workshop on T&S <http://www.cordis.lu/ist/events/workshops.htm>  
ISTAG papers: [ftp://ftp.cordis.lu/pub/ist/docs/istag\\_kk4402464encfull.pdf](ftp://ftp.cordis.lu/pub/ist/docs/istag_kk4402464encfull.pdf)  
Roadmap projects: <http://www.cordis.lu/ist/ka2/rmapsecurity.html>  
T&S Workshops: <http://www.cordis.lu/ist/ka2/rtpolicyconf.htm>

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