



Identity: Privacy and Security for the citizen in the Information Society

CFP 2004

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Institute for Prospective Technological Studies (IPTS) Seville, Spain

<http://www.jrc.es>

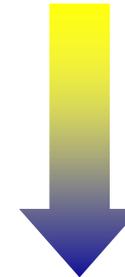
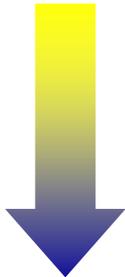
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Background & Drivers

- Security & Privacy : key challenges in the European Information Society.
- The balance between privacy and security is being shifted both by emerging ICTs and by governments' actions in response to rising crime and terrorism.
- Identity : a single umbrella for privacy and security matters
- The role of technology as an instigator of change & as a bearer of solutions.



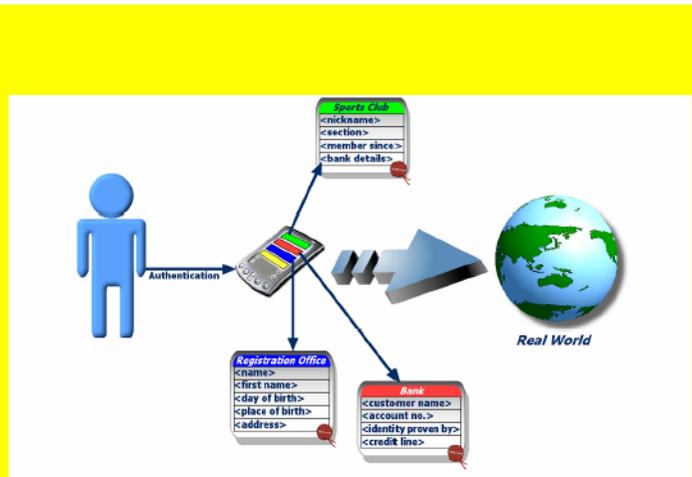
A *prospective* study on security and privacy carried out by DG JRC-IPTS for the Committee on Citizens' Freedoms and Rights, Justice and Home Affairs (LIBE) of the European Parliament.

The study

European citizen's every day life in the future Information Society

Who I am ?

Identity Management Systems – (IMS)



RFID
DNA-sniffers
Bio-implants

Where I go ?

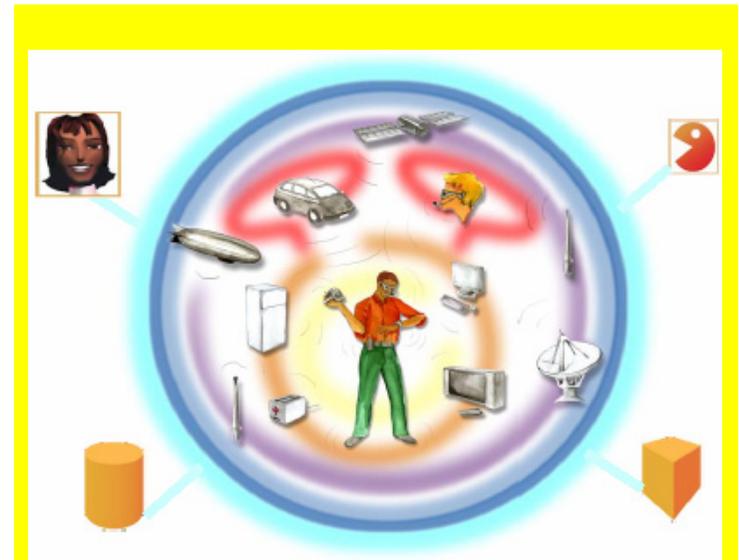
Location-based Services – (LBS)



Differential GPS
Augmented GPS
3G, 4G, WIMAX...

Where I live?

Virtual Residence in Ambient Intelligence (Aml) environment



Digital Territory
Virtual Residence
Critical Domestic Infrastructure



Why Identity ?

- **Identity** : unifies privacy and security issues under one umbrella
- **A product of social interactions which define a Society**

Emerging European
Information Society



The future of identity

- **two major processes at stake for identity:**
 - A building process
 - An identification process

- **the Issue:**

Erosion of time and space borders



A lack of continuity,
Disruptive situations

- **the Challenge:**

Bridge the growing gap between a physical subject and the information which defines that subject's identity.

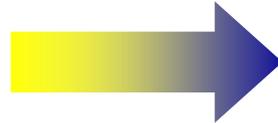
Policy Issues: security & privacy

➤ Security shifts :

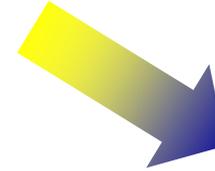
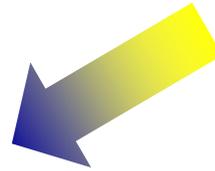
Sept 11



Need for real time control



Probabilistic evidences



From conclusive evidences gathering to intelligence gathering

From crime prosecution to crime reduction

➤ Privacy shifts :

The tools

- Privacy protection
- Data protection

The targets

- Vertical abuses
- Horizontal abuses

➤ New technologies:

- Dual use technologies ?
- Double edged technologies ?

Policy Issues: the balance

- Sept 11 initiatives should be temporary and limited, evaluation of their efficiency is needed
- Strike an appropriate longer-term balance between security and privacy required for the growth of the EIS
- The need to educate and raise the awareness of the citizens as to new threats.
- Extend the scope of current EU privacy regulation to cover 'horizontal effects'.
- The need to legally define the concept of 'virtual residence' (digital territory)
- The need for development, standardization and diffusion of new digital evidence tools (so as to facilitate their use in judicial processes and before a court of justice).
- Proactive integration under the umbrella of the existing regulatory framework
- Threats posed by new technologies may give rise to technology specific regulation in cases where the general privacy and/or data protection provisions are deemed insufficient



A new digital Territory

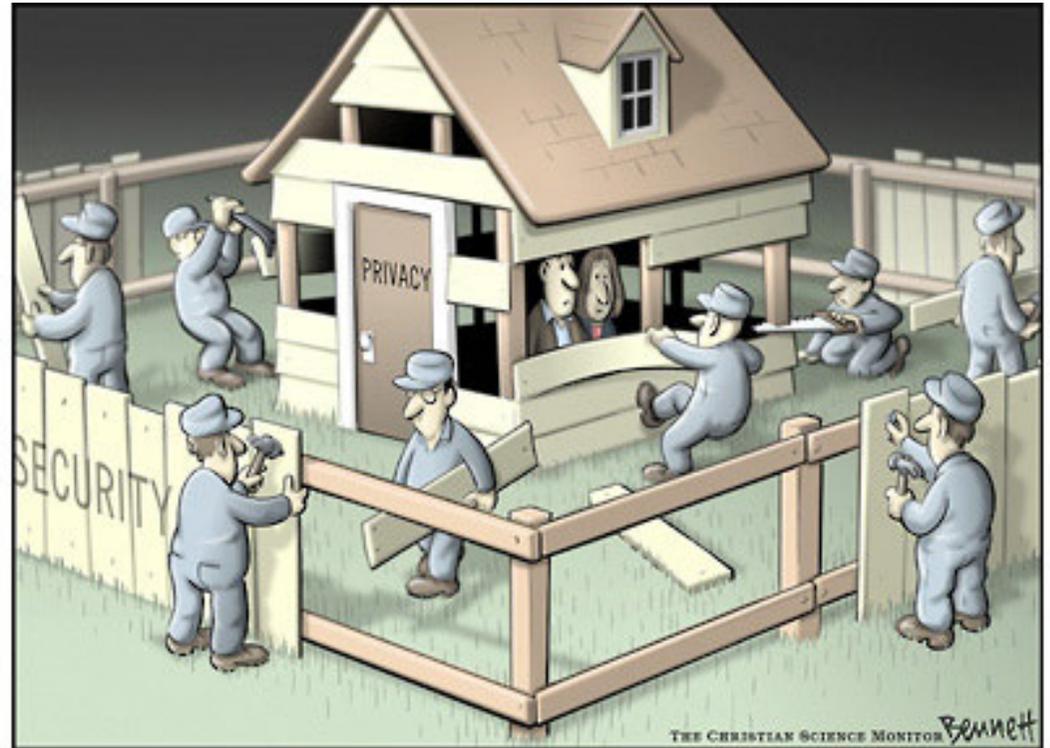
Ambient Intelligence Space

➤ **Definition:**

Integration and migration of technologies, infrastructures, applications and services across different Aml environments (home, car, airport, neighbourhood, etc..)

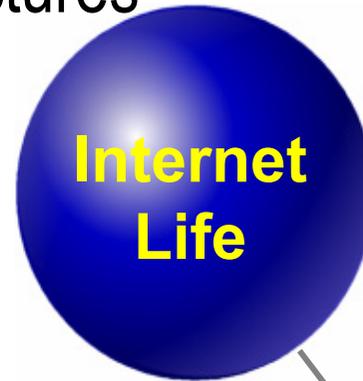
➤ **An ambivalent space:**

- Ubiquitous and intelligent user-friendly interfaces
- A major threat of an “always on” surveillance
- From an access point situation to a sphere of presence



A: Virtual Residence in Aml

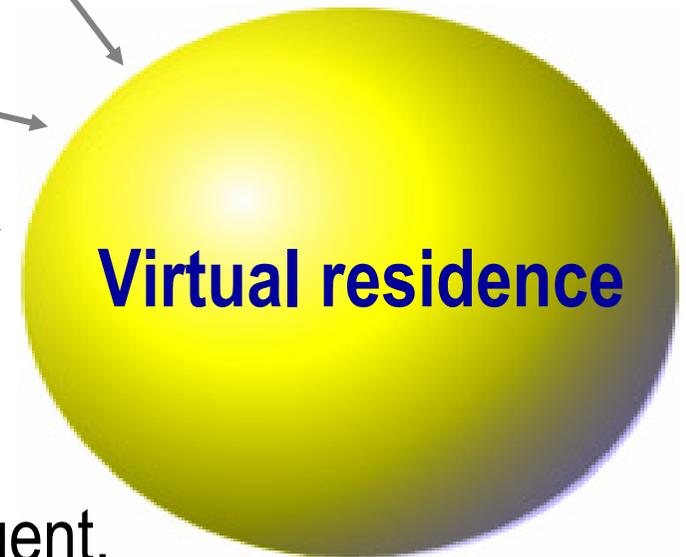
- Home/critical domestic infrastructures
- Smart home
- Ubiquitous computing
- Health at home



- Personal or family Web-site
- identity platform
- personal data
- Life online



- Physical mobility (Maria)
- Digital mobility. (Intelligent agent, avatars cf. car)
- interoperability





B: A crime scene





Thank you !

Any Questions ?

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