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The future of identity in an e-Society

Concepts and Issues

3rd Annual Consult Hyperion Digital Identity Forum
12 & 13 of November, London

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ipts Institute for Prospective Technological Studies

DG-JRC-European Commission

ICT Unit

The Institute for Prospective Technological Studies (IPTS) is one of 7 Research Institutes of the European Commission, making up the Joint Research Center (JRC)

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2

EU Initiatives

- **Creating a Safer Information Society by Improving the Security of information Infrastructures and Combating Computer-related Crime January 2001**
- **Network and Information Security: Proposal for a European Policy Approach, June 2001**
- **eEurope2005 Action Plan initiated during the Spanish Presidency**

Cybersecurity group Activities

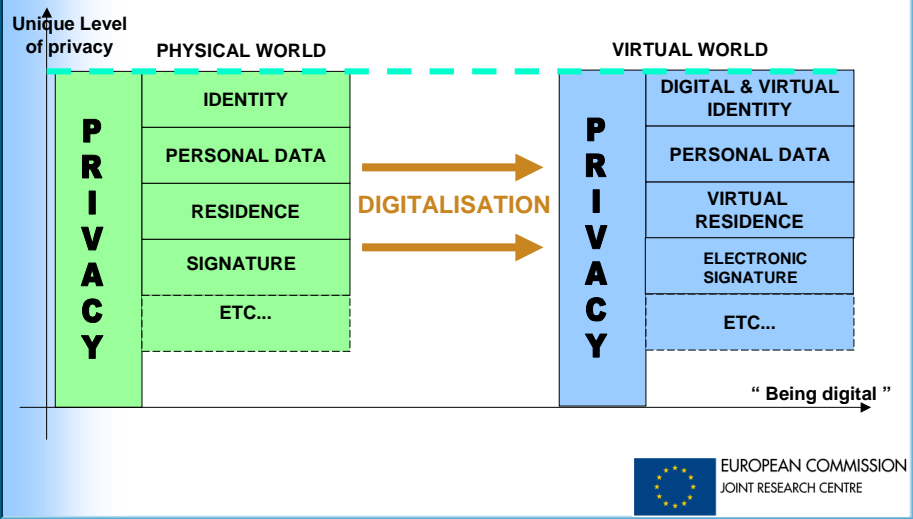


General observations I

Why Identity as a line of research ?

- A tool to manage and preserve the balance between privacy and security.
- Growing number of gates and doors in the virtual world
- ID will become the main vehicle for the cyber-citizen.

General observations II



Identity

Socio-psychological Identity

Identity is characterised by aspects such as:

- Permanency
- Unity
- Physical reality

Identification process is based on :

- What you are
- What you know
- What you have
- What you do

Procedural Identity

A collection of formalised characteristics, which enable identification and authentication necessary for social and economic relations, as well as dealings with the authorities.



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Identity in an e-Society ?

- Permanency → - Disruptive situations
- Unity → - Fragmented identity
- Physical characteristics → - Virtual and multiple identities



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The Future of Identity for IPTS

- An exploratory workshop Dec 2001.
- IMS Study
- FIDIS : a network of experts for FP6 activities
(preparatory workshop January 2003)



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9



New Definitions of Identity

- Identities vary with context
(political/social/contractual spheres)
 - Physical(contractual-social internal/external)
 - Digital
 - Partial
 - Virtual + Multiple
 - Cyber or Cy-borg + inter-linked machine brains



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10

Technology Drivers

	<i>Importance</i>	<i>Likeliness</i>
1.	ID management	(3)
2.	Localisation Services	(1)
3.	Security Technologies	(2)
4.	Distributed Computing	(4)
5.	Bio-ICT Technologies	(7)
6.	Application Technologies	(6)
7.	Agent Technologies	(5)
8.	Nano Technologies	(8)



Socio-Economic Issues (importance)

1. Privacy
2. Applications (e-commerce/Transaction Costs)
3. Community building
4. Crime and personal security
5. Migration / Mobility
6. E-Governance / Rethinking politics
7. National Security
8. Education
9. Digital Divide / exclusion - inclusion
10. Fun factors (games, community, etc...)
11. Intellectual Authorship



Regulatory Issues (importance)

1. *a. Defining new legal entities
b. Guaranteeing privacy and data protection*
2. *Finding new ways of harmonizing international cooperation*
3. *Rules for technology supply*
4. *Institutionalizing the precautionary principle*



Identity Management System

- Objective

Produce a comparative study on existing and emerging IMS in order to anticipate significant impacts in the mid-term future (legal environment, competitive technological solutions).

- Agenda

December 2002 - July 2003

- Deliverables

End of April : Interim Report
End of July : Final Report.



Requirements for future IMS

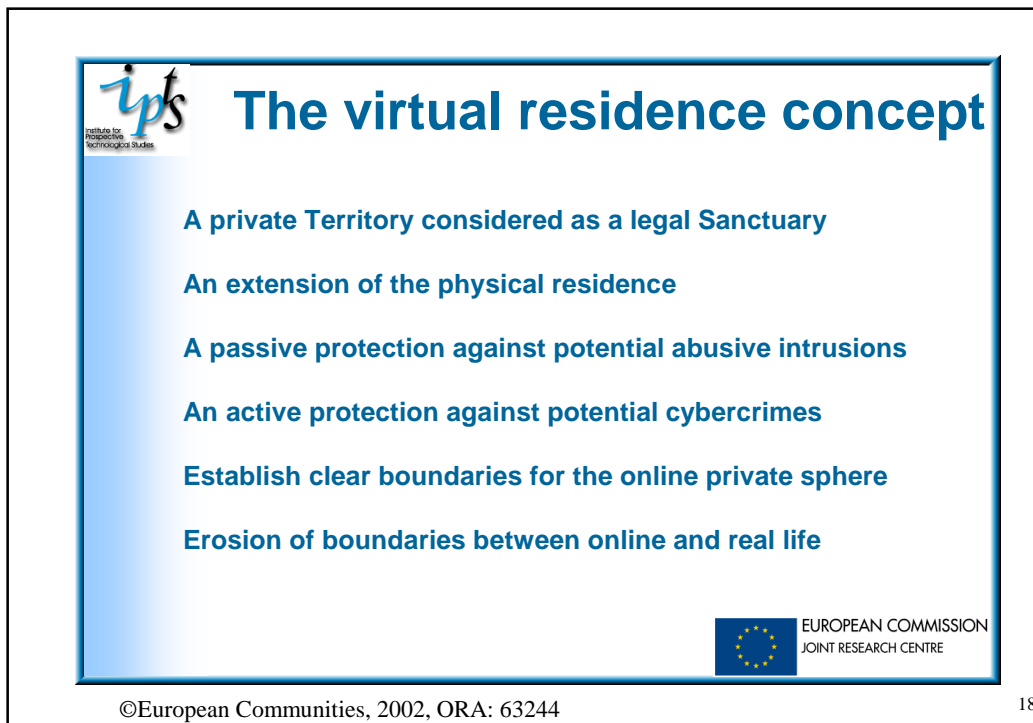
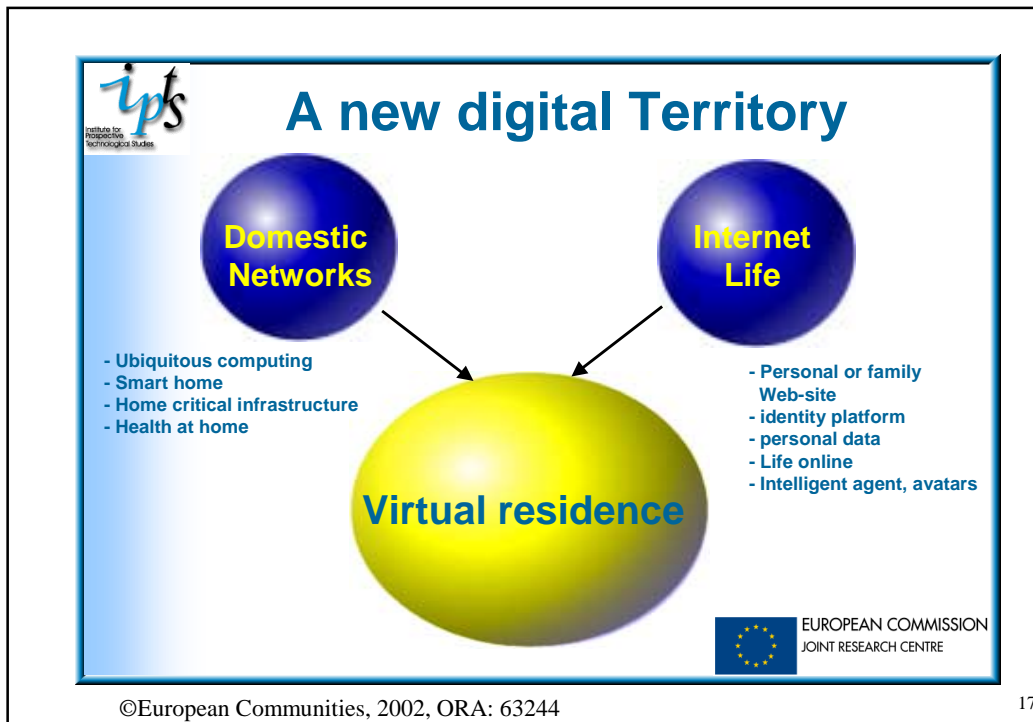
- Allow multi-purpose usage
- Offer new services.
- Reduce the level of risk, and thus create a trustworthy environment.
- Propose an acceptable balance between privacy and security requirements



The Ambient Intelligence Space

- Definition: The ISTAG Group
- Dark side scenario (Echelon)
- Mobility (Localisation services)
- Virtual residence







Questions ?

[Http://cybersecurity.jrc.es](http://cybersecurity.jrc.es)

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