Future of ***ID***entity in the ***I***nformation ***S***ociety

A FP6 Network of Excellence

ISOIEC ITU-T FIDIS Work Shop on Identity Management Standards
Luzern, Schwiez (30th September 2007)

Hans Hedbom
Karlstad University
www.fidis.net

The initial challenge: "Identity" is changing

- IT puts more HighTech on ID cards
  - Biometrics to bind them closer to a human being
  - Chips to add services (such as a PKI)
- Profiles may make the „traditional" ID concept obsolete
  - People are represented not by numbers or ID keys any more but by data sets.
  - Identities become "a fuzzy thing".
- New IDs and ID management systems are coming up
  - Mobile communication (GSM) has introduced a globally interoperable „ID token": the Subscriber Identity Module
  - Ebay lets people trade using Pseudonyms.
- Europe (the EU) consider joint ID and ID management systems
  - European countries have different traditions on identity card use
  - Compatibility of ID systems is not trivial
- ...

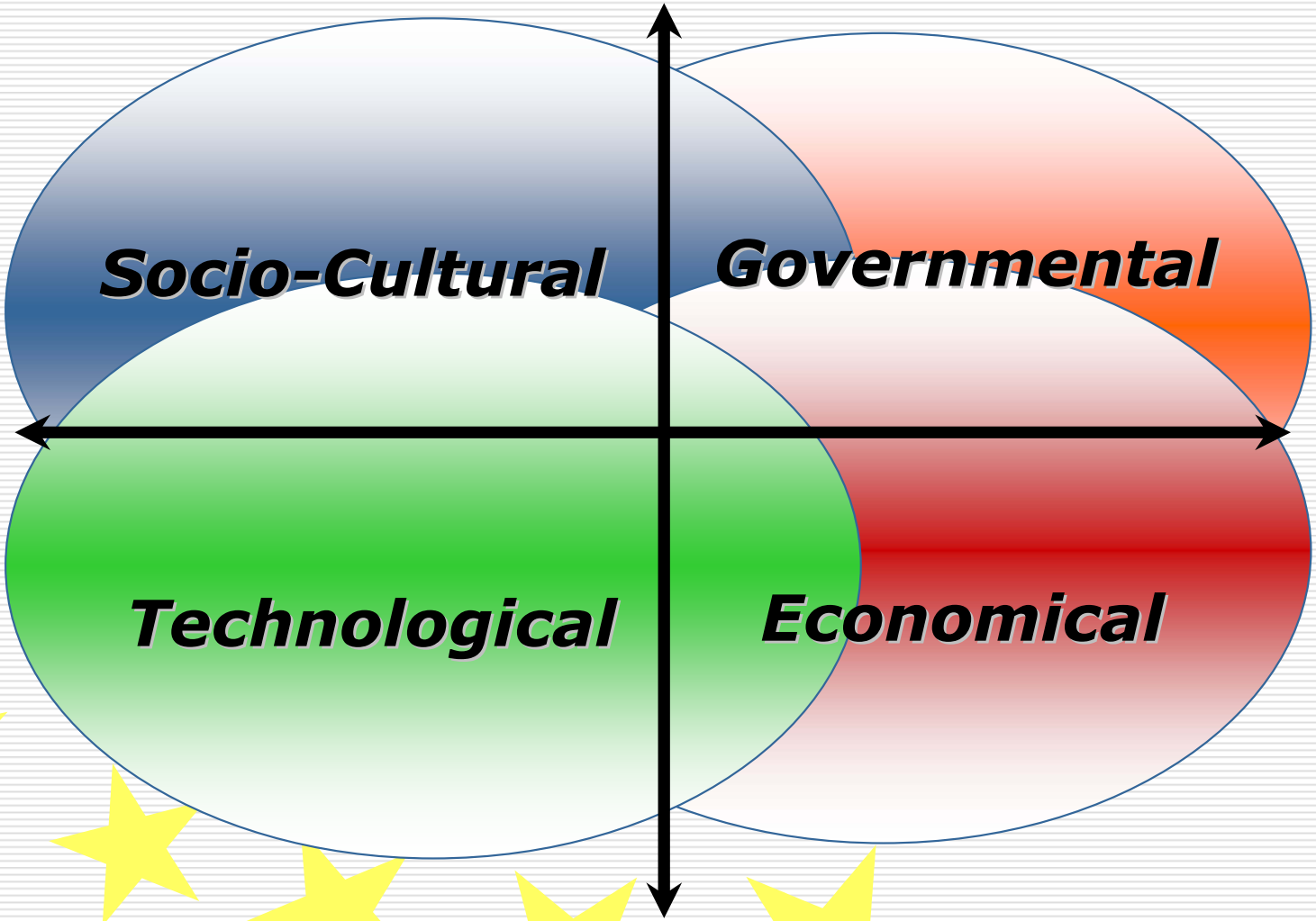
Future of Identity in the Information Society (FIDIS)

- ***Vision:*** Europe will develop a deeper understanding of how appropriate identification and ID management can progress the way to a fairer European information society.

- **Why an EU FP 6 Network of Excellence?**
  - Consequences of "new" IDs are unclear
  - "Change" Trends come from different fields and disciplines
  - Joint work will promote the European Information Society

- ***What can FIDIS offer?***
  - A collection of Information
  - Coordinated expert publications (Deliverables available at www.fidis.net)
  - Supporting the scene
    - Research Institutions
    - Scientific Communities
    - Standardisation Bodies (ISO/IEC JTC 1/SC 27/WG 5, ETSI, ITU-T,…)
    - Decision makers

Interdisciplinary aspects of Identity Management (and of IT Security and Privacy)

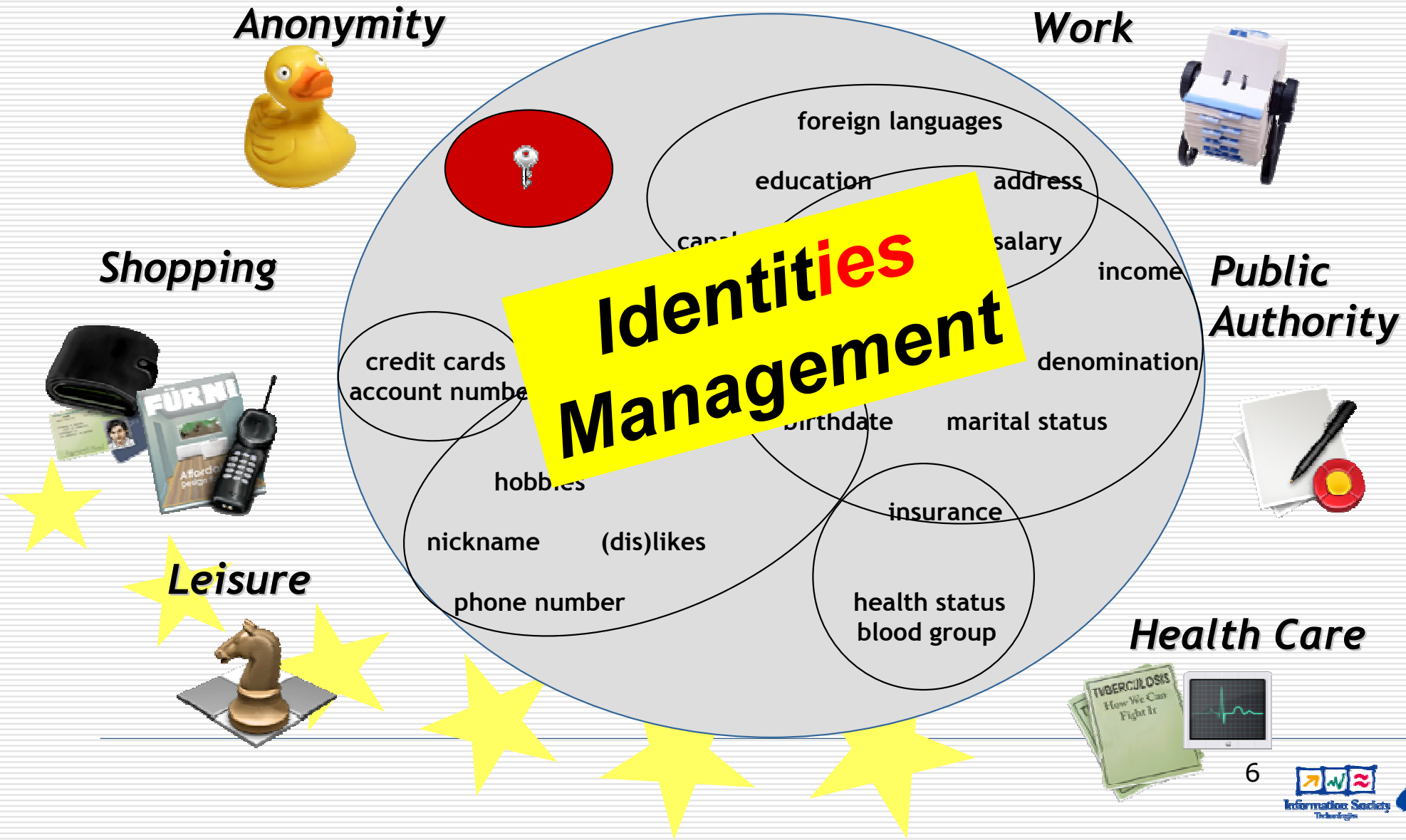


Identity Management
Types of IdM (Systems)

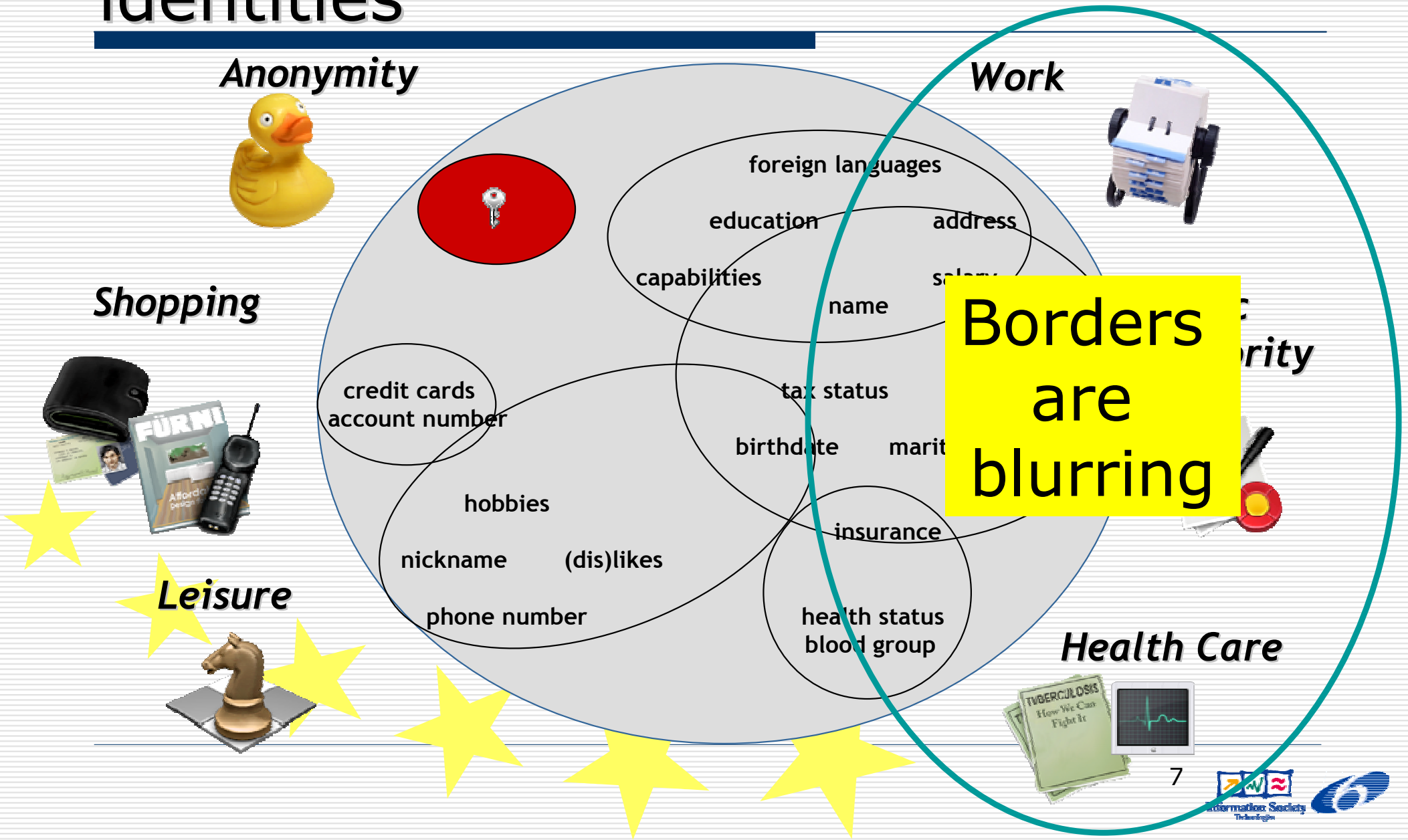
Type 1		Account Management: *assigned identity* *(= Tier 2)*	by organisation
Type 2		Profiling: *derived identity* *abstracted identity* *(= Tier 3)*	by organisation
Type 3		Management of own identities: *chosen identity* *(= Tier1)*	by user herself/himself supported by service providers

➲ **There are hybrid systems that combine characteristics**

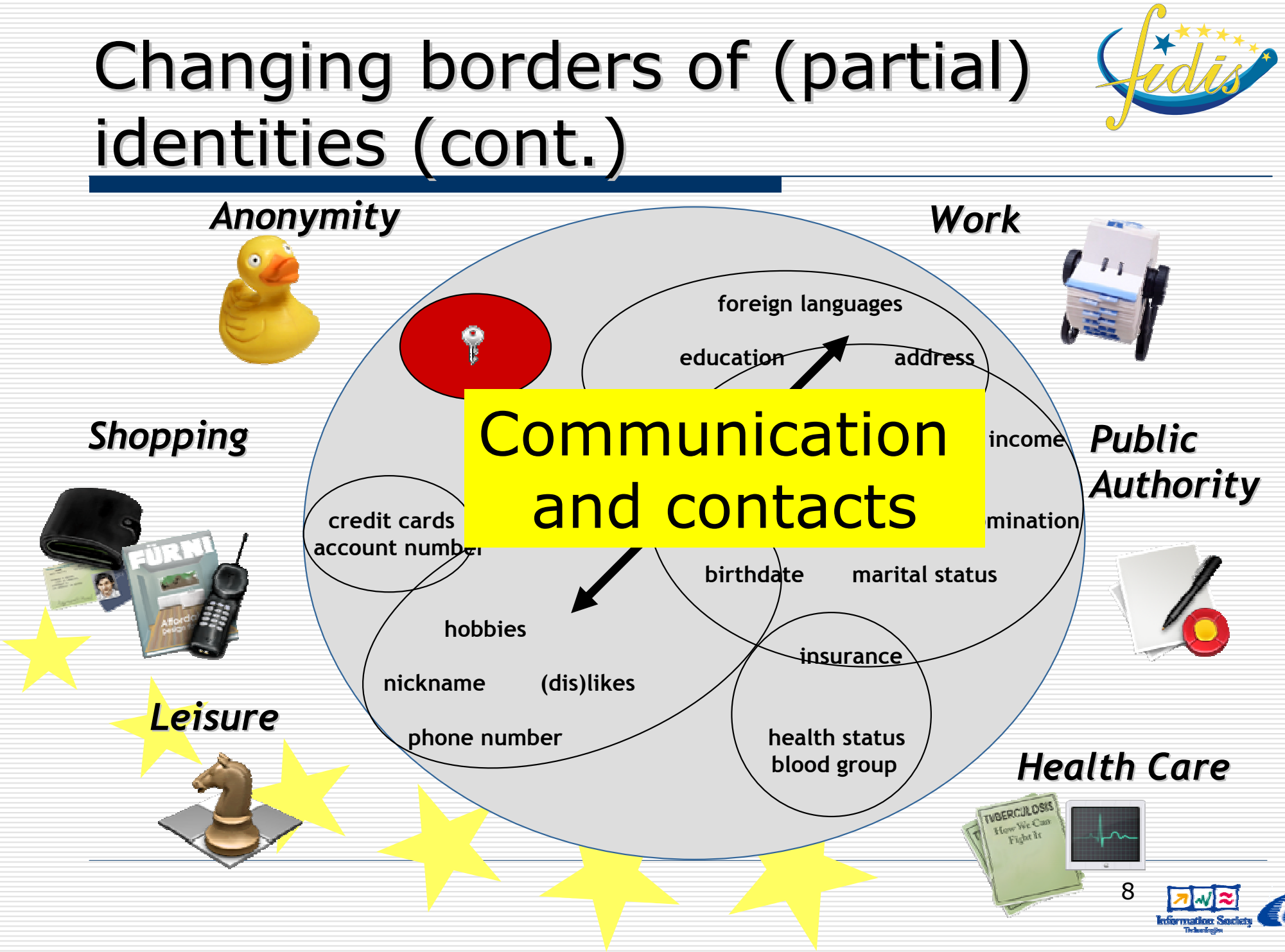
Identity Concepts
Partial Identities Illustrated



Changing borders of (partial) identities



Changing borders of (partial) identities (cont.)



Joint Research of FIDIS Topics/Activities

- „Identity of Identity“
- The HighTechID and emerging technologies
- Interoperability of IDs and ID management systems
- Profiling and AmI Environments
- Forensic Implications
- De-Identification
- Privacy
- Mobility and Identity

Results for Standardisation

- Different identities, roles, and systems exist in parallel.
- Many processes and workflows are affected.
- Integration can raise efficiency, but care needs to be taken.
- Identity Management cannot function and gain trust without Privacy and Data protection

Questions and Answers

Thank you for your attention!
Any questions?

Hans.Hedbom@kau.se

www.fidis.net

FIDIS Participants

- Goethe University Frankfurt, D
- AXSionics AG, CH
- BUTE-UNESCO Information Society Research Institute, H
- Europäisches Microsoft Innovations Center GmbH, D
- European Institute of Business Administration, F
- Institut de recherche criminelle de la gendarmerie nationale, F
- Institute for Prospective Technological Studies, E
- International Business Machines Corporation, CH
- Karlstad University, S
- Katholieke Universiteit Leuven, B
- London School of Economics & Political Science, GB
- Masarykova universita v Brne, CZ
- National TU of Athens, GR
- Netherlands Forensic Institute, NL
- SIRRIX Security Technologies, D
- TU Berlin, D
- TU Dresden, D
- Tilburg University, NL
- Unabhängiges Landes-zentrum für Datenschutz, D
- University of Freiburg, D
- University of Reading, GB
- VaF, Bratislava, SK
- Virtual Identity and Privacy Research Center, CH
- Vrije Universiteit Brussels, B