

# PRIME – Privacy and Identity Management for Europe

**Vision – Objectives – First Results**



# PRIME Vision



*In the Information Society, users can act and interact in a safe and secure way while retaining control of their private sphere.*



# PRIME Objectives

- Advance the state-of-the-art in **privacy-enhancing identity management**
  - Demonstrate how to **embed European privacy laws** and regulations into technology
  - **Empower individuals** to effectively realise their right to privacy and informational self-determination
- ⇒ **Development of real-world tools and solutions for identity management**



# PRIME Approach (1/2)

Advance the state-of-the-art in privacy-enhancing identity management by:

- Laying the theoretical foundations, taking into account **current environments** as well as **future scenarios**.
- Developing **novel, practical solutions** and approaches to the validation and communication of the level of privacy and security achieved.
- Raising **awareness** of the privacy problems and of practically feasible options.



# PRIME Approach (2/2)

PRIME takes a **highly interdisciplinary** approach in order to produce solutions that are

- Technically feasible;
- Understandable and manageable by end users;
- Socially desirable and acceptable;
- Legally required;
- Commercially viable and exploitable.



# PRIME Principles

1. Design starting from maximum privacy
2. System usage governed by explicit privacy rules
3. Privacy rules must be enforced, not just stated
4. Trustworthy privacy enforcement
5. Easy and intuitive abstractions of privacy for users
6. An integrated approach to privacy
7. Privacy integrated with applications



# PRIME Key Technology Elements

- Pseudonyms
- Anonymity
- Credentials
- Policy negotiation



# Detailed Objectives: Block 1-3

- **Block 1: Requirements and Evaluation**
  - **Legal, socio-economic, generic** application requirements
- **Block 2: Application Prototypes**
  - **E-learning, privacy-preserving customer database, location-based services, etc.**
- **Block 3: Mechanism Research and Development**
  - **Assurance** methods, Human-Computer Interface (**HCI**), **ontologies** and privacy principles, **authorisation** models, **cryptographic** mechanisms, **communication infrastructure** (e.g. anonymity), **user/server-side** identity management, **education**



# First Results

## Block 4: Framework

- First **public result**: Framework V0 (see webpage)
- Provides **“map” of privacy-enhancing identity management**
  - Problem space
  - Vision of PRIME
  - PRIME stakeholders, roles and responsibilities
  - Application scenarios
  - Legal and social environment
  - Business models and economic drivers
  - PRIME concepts and terminology
  - PRIME models for users and metaphors

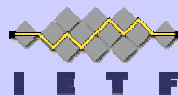


# Further Main Deliverables / Expected Results

- **Requirements**
  - Legal
  - Socio-economic
  - Applications
- **HCI (Human-Computer Interface)**
- **Architecture (functions/modules and relationship between functions/modules)**
- **Prototype(s)**
- **Prototype evaluation**
- **Dissemination**  
(tutorials, presentations, white paper, etc.)



# Standardisation Involvement



- **Goethe-Universität Frankfurt**
  - ISO/IEC JTC1 SC 27 “IT Security Techniques”
  - ISO/IEC JTC1 SC 27/WG 3 “Security Evaluation Criteria”
  - ISO/IEC JTC1 AdHoc Working Group Privacy Technologies
  - DIN-NI 27 “IT-Sicherheit”
- **HP (Management Board Member)**
  - ISO/IEC JTC1 AdHoc Working Group Privacy Technologies
- **IBM**
  - ISO/IEC JTC1 SC 27/WG “Security Mechanisms”
- **Several joint members**
- **W3C subcontractor**
- **IBM, HP**
- **HP, IBM (Management Board Members)**
- **IBM**
- **MS in Reference Group**
- **Several joint members**

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# PRIME Contact

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