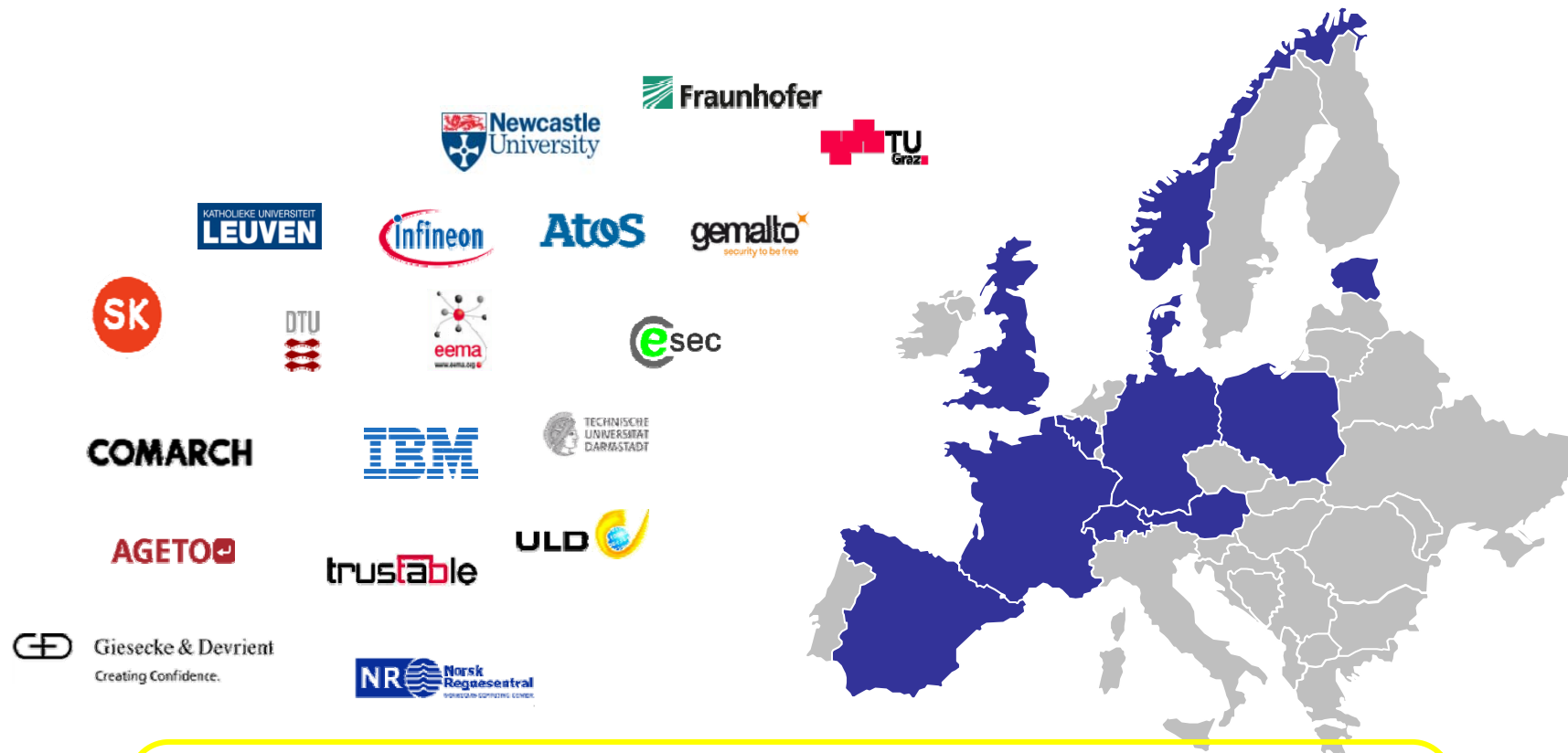# FutureID - Shaping the Future of Electronic Identity

Heiko Roßnagel, Jan Camenisch, Lothar Fritsch, Thomas Gross, Detlef Houdeau, Detlef Hühnlein, Anja Lehmann, Jon Shamah

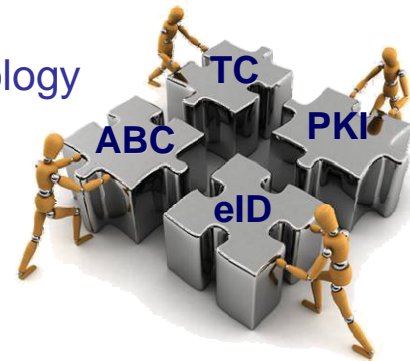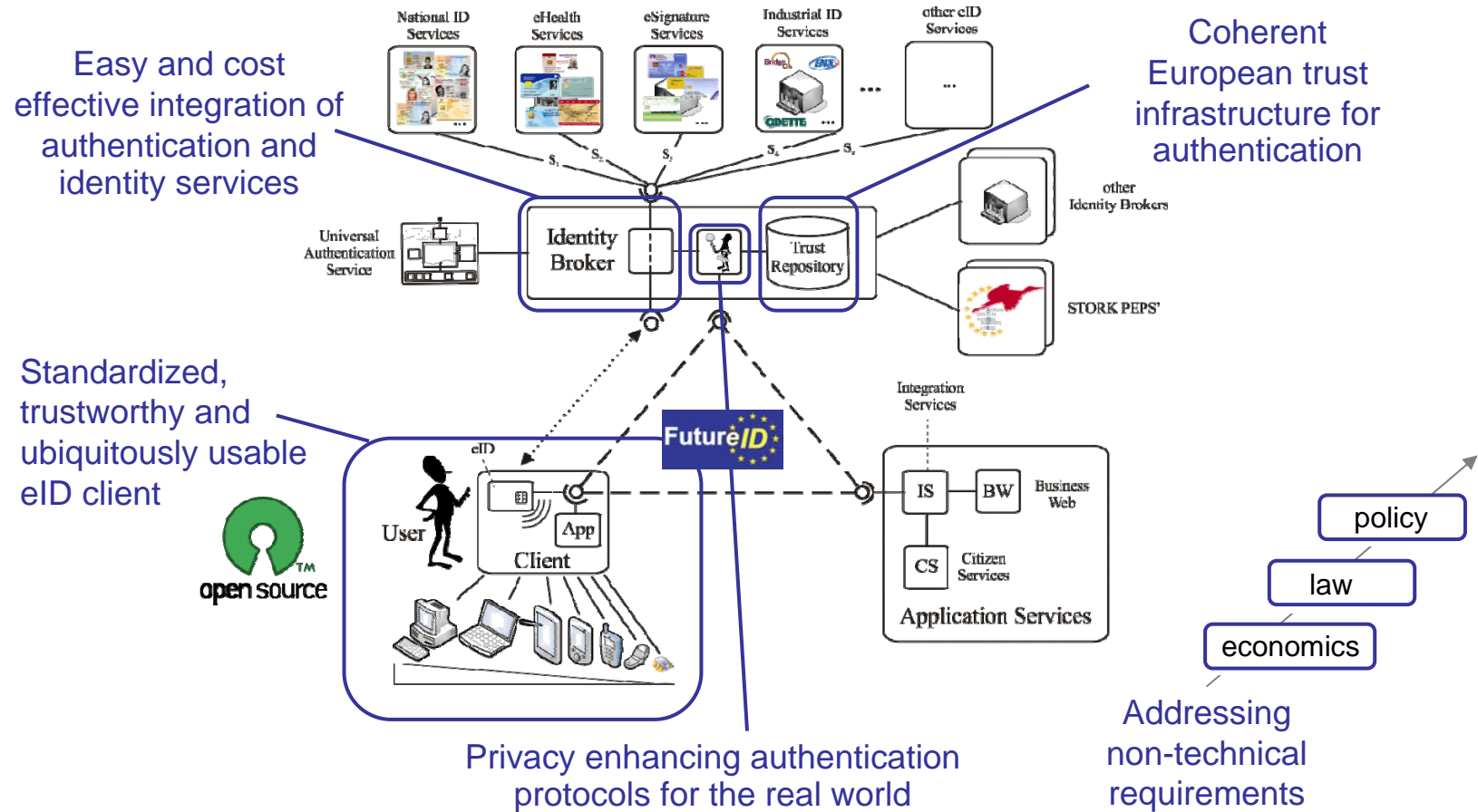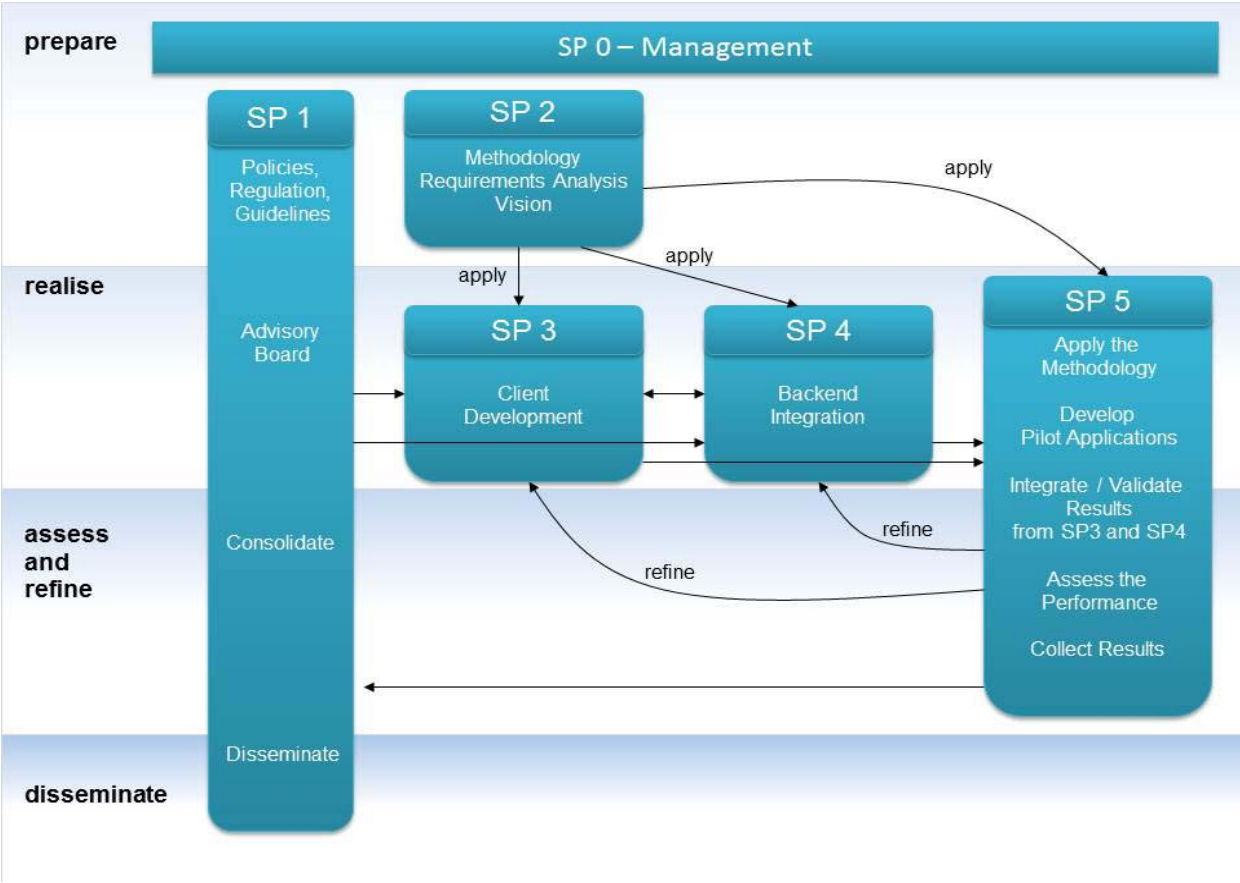**Annual Privacy Forum 2012, October 11th, Limassol, Cyprus**

Introduction

■ Combination of eID and federated identity management technology promises a major improvement of security on the web

  ■ providing secure and user-friendly authentication

  ■ leading to a significant increase of confidence and trust in the use of ICT by EU citizens and business

■ However, there are many unsolved challenges, which prevent the interoperable, secure, ubiquitous, easy and privacy-friendly use of strong authentication mechanisms across Europe

  ■ no standardized, trustworthy and ubiquitously usable eID client

  ■ complex and costly integration of authentication and identity services

  ■ no coherent European trust infrastructure for authentication

  ■ privacy threats of real world authentication solutions
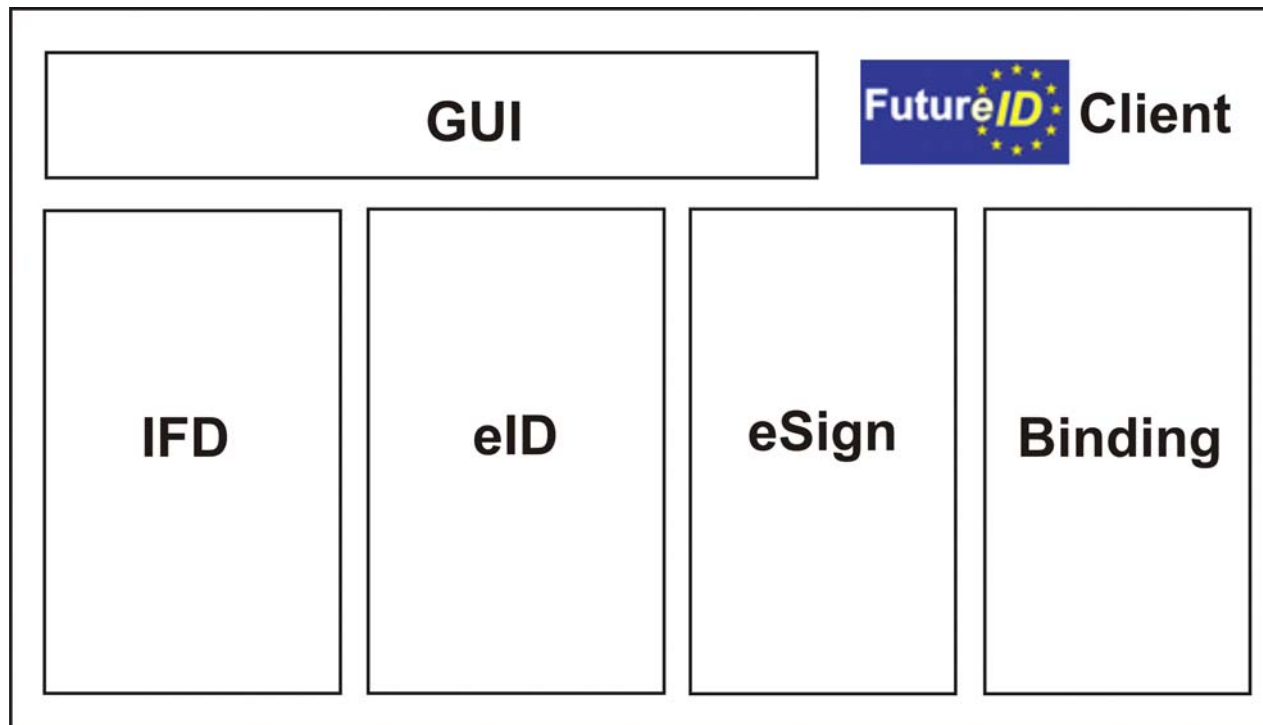
  ■ non-technical problems

FutureID – Addressing the Challenges

Easy and cost effective integration of authentication and identity services

Coherent European trust infrastructure for authentication

Standardized, trustworthy and ubiquitously usable eID client

Privacy enhancing authentication protocols for the real world

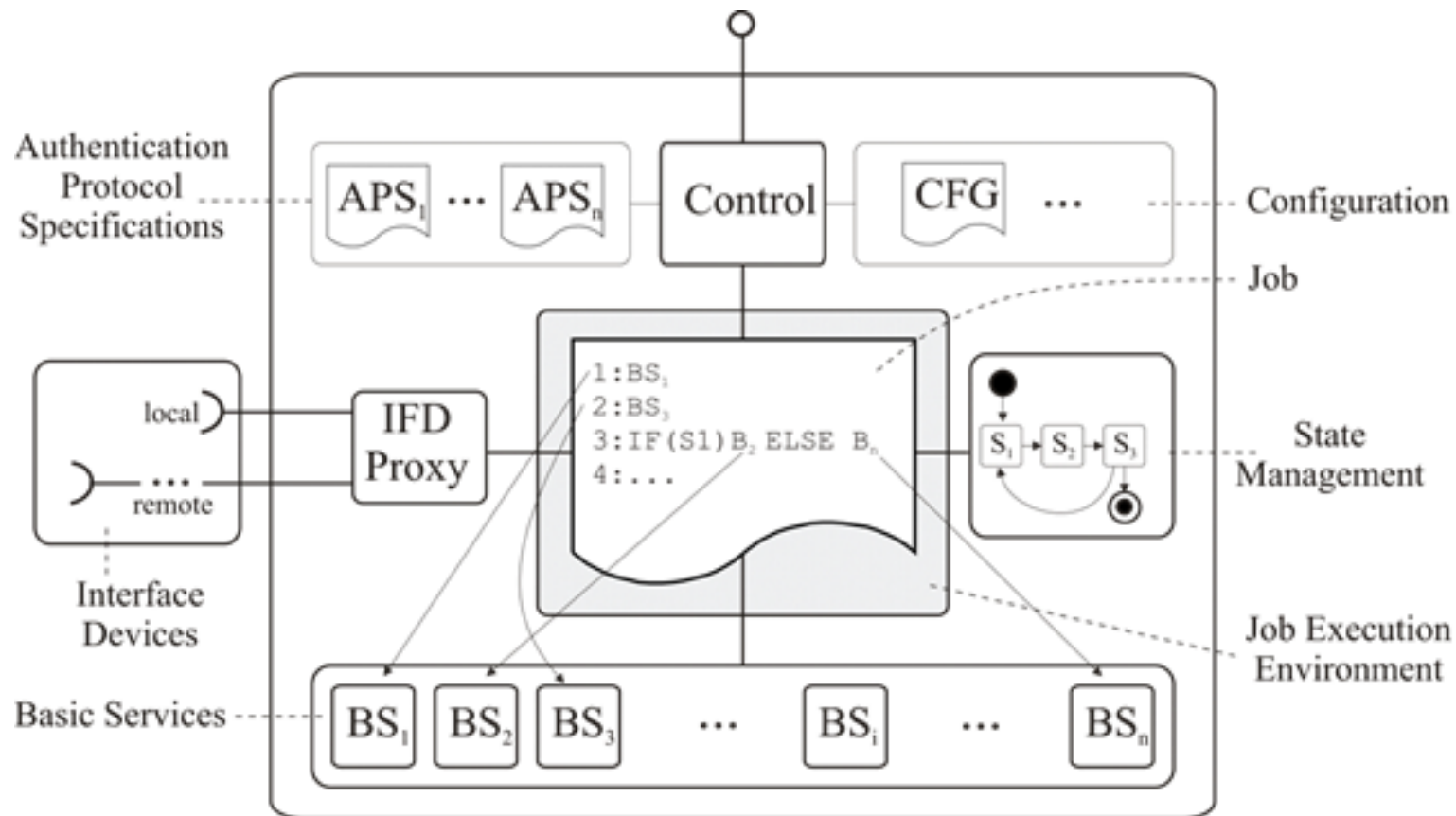Addressing non-technical requirements

policy

law

economics

Overview of FutureID Workplan

Client Components

High Level Design of the Universal Authentication Service

FutureID Consortium

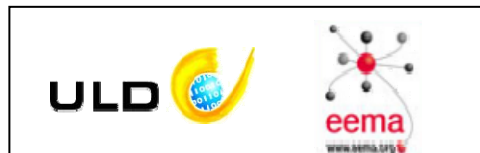19 Partners from 11 European Countries

Research Organisations

Industry Participants

Small and Medium Enterprises

Universities

Data Protection Agency / NPO

Impact
FutureID will provide benefits to all stakeholders involved

- **Users** will benefit from ubiquitously usable open source eID client
  - Running on desktop PCs, tablets and smartphones.
  - Special attention to ensure the user-friendliness of this client.
  - Removing a major barrier towards the wide application of eID
- **Application and service providers** will be enabled to use trustworthy authentication services
  - Reducing up-front investments in eID
  - Providing new business opportunities
  - Addressing new consumers segments by mitigating trust issues or privacy concerns.
- For the **e-government** domain FutureID will enable new online services
  - By combination of identity management systems with the strong authentication and signature functionality
  - Provide the necessary security infrastructure elininating security or legal constraints.
- FutureID will reduce cost for **businesses** to setup or migrate to use of eID
  - in their standard business activities
  - avoid high (prohibitive) transaction costs
- **Identity service providers** will benefit from the increased pool of potential customers
  - easy integration of existing identity services into the universal authentication service.

Thank you for your attention!