

Lecture 13

Current Research Topics

Mobile Business II (SS 2015)

Prof. Dr. Kai Rannenberg

Deutsche Telekom Chair of Mobile Business & Multilateral Security
Goethe-University Frankfurt



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M-Chair Profile

2

Research Projects

3

Team & Fellows

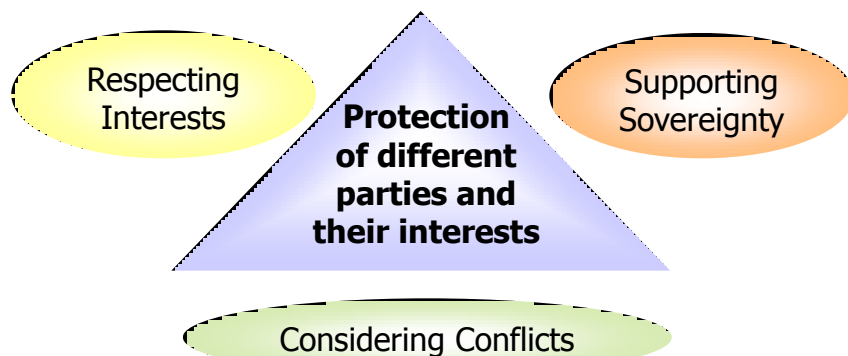
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Contact

Mobile Business and Multilateral Security in the Digital Economy

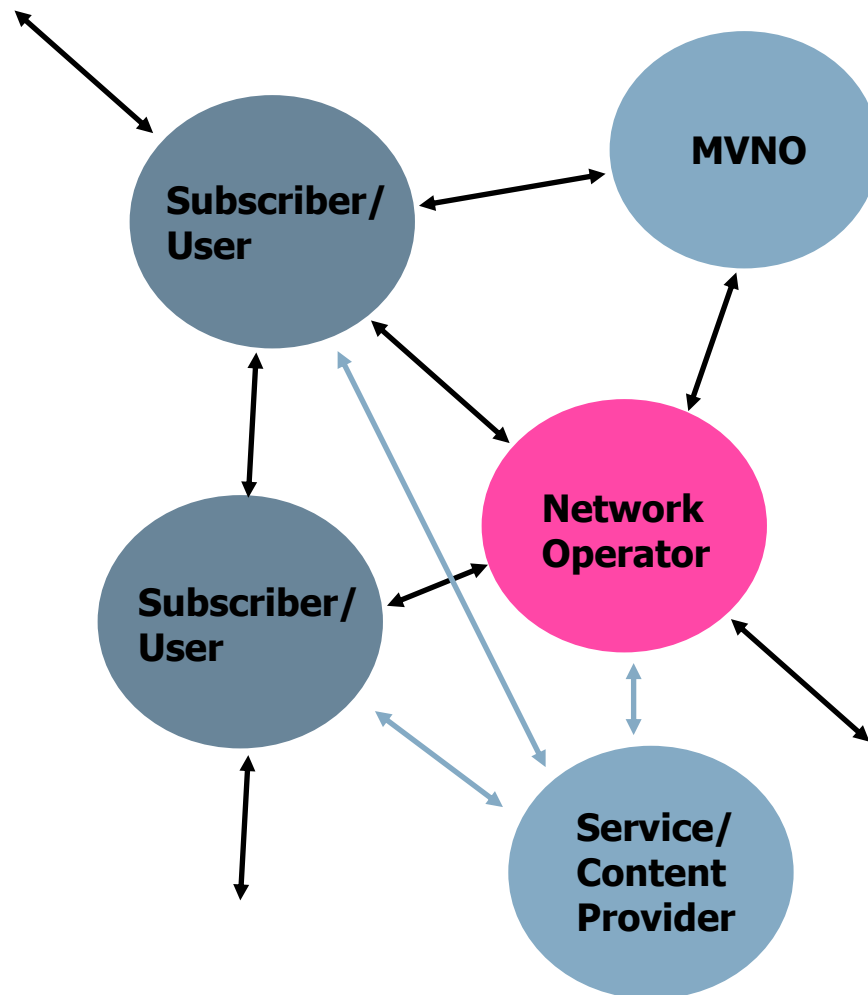
Different Parties with different Interests

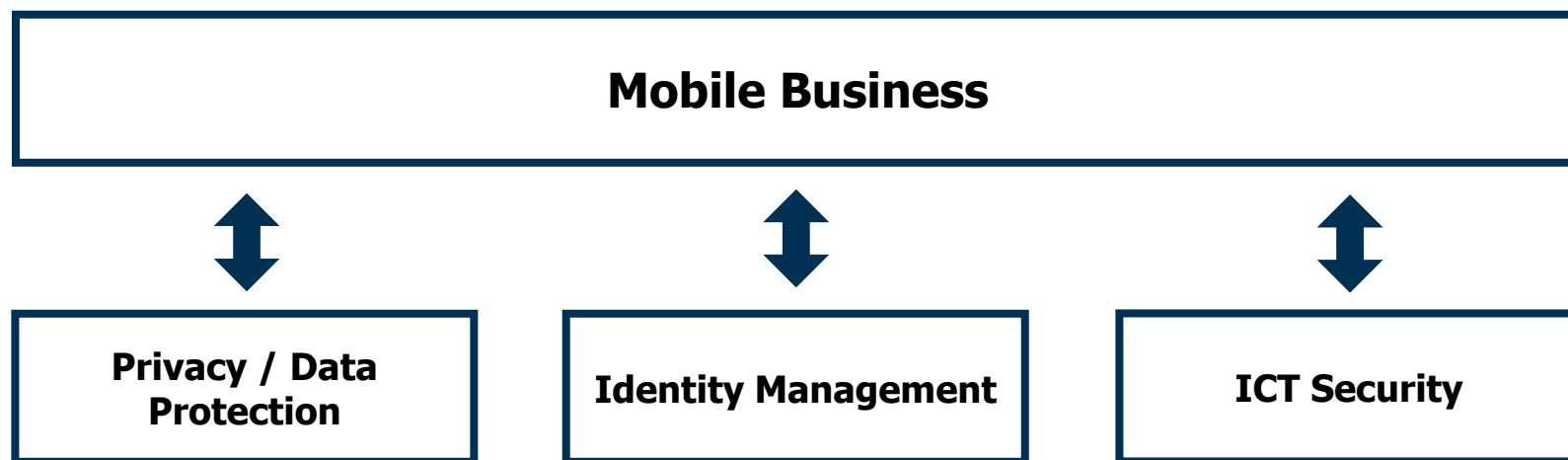
- Customers/Merchants
- Communication partners
- Citizens/Administration



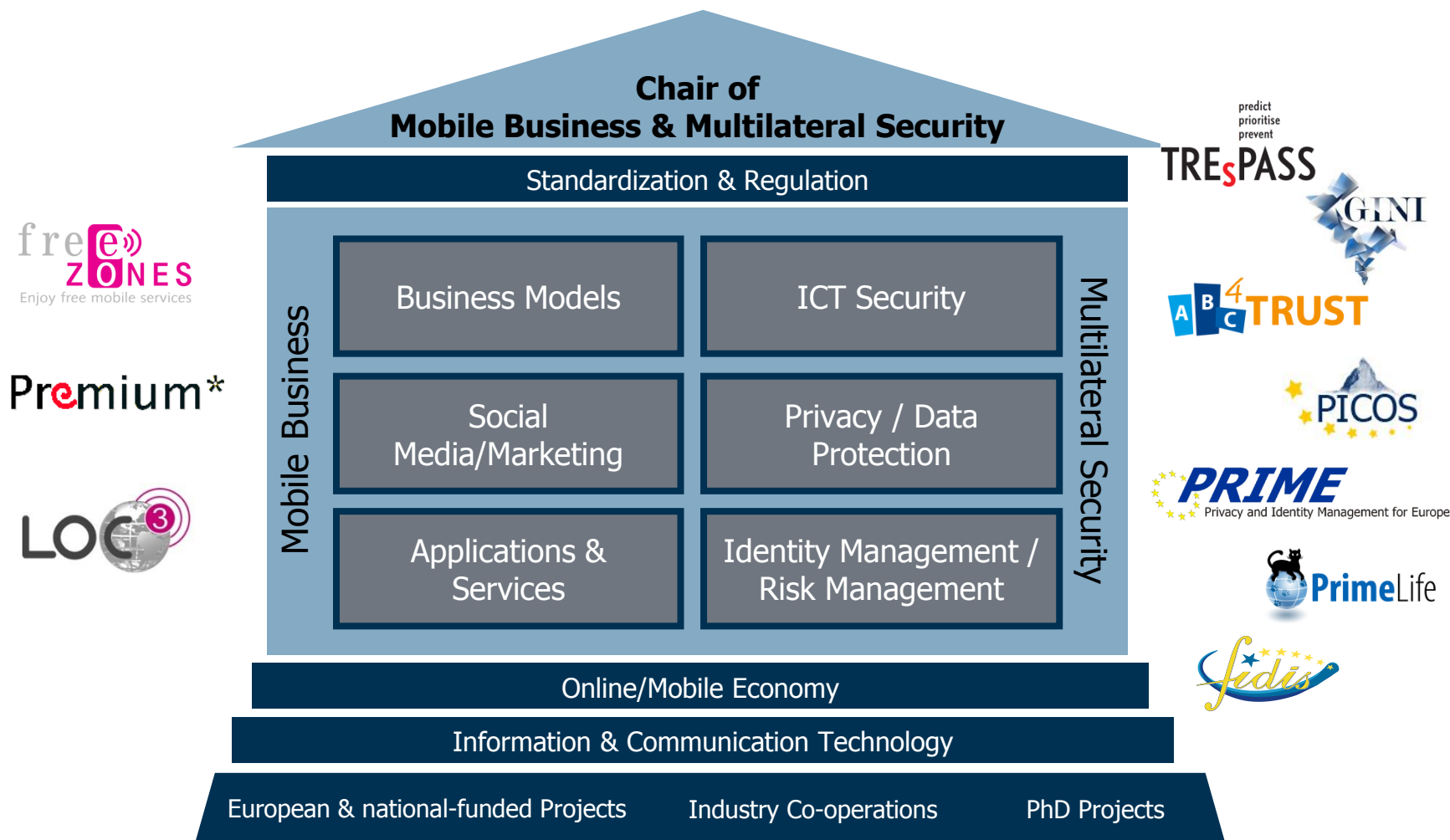
... in a world of consortia

- more partners
- more complex relations





Advancing *Mobile Business* while enabling individuals to be in control of their personal data by providing *Identity Management*, *Privacy Protection*, and *ICT Security* within the Digital Economy

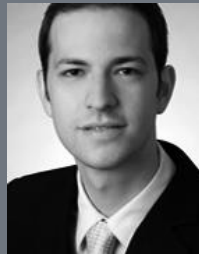


Multi-Disciplinary Background of M-Chair

Business Administration



Lars Wolos



Marvin Hegen



Shuzhe Yang



Sascha Koschinat



Niels Johannsen

Computer Science



Dr. Jetzabel Serna



Dr. Sebastian Pape



Ahmad Sabouri



Fatbardh Veseli



Welde Tesfay



Ahmed S. Yesuf

Business Informatics



Dr. Markus
Tschersich



Stephan Heim



Christopher Schmitz



Tim Schiller



Andreas Leicher

Selected Alumni



Prof. Dr. Jan Muntermann
Göttingen University



Dr. Stefan Figge
Deutsche Telekom



Dr. Mike Radmacher
Deutsche Telekom



Dr. Goekhan Bal
Deutsche Bahn



Dr. Andreas Albers
Deutsche Telekom



Dr. Stefan Weiss
Swiss Re



Dr. Denis Royer
Otto GmbH



Dr. Markus Tschersich
Secunet



Dr. Falk Wagner
T-Mobile USA

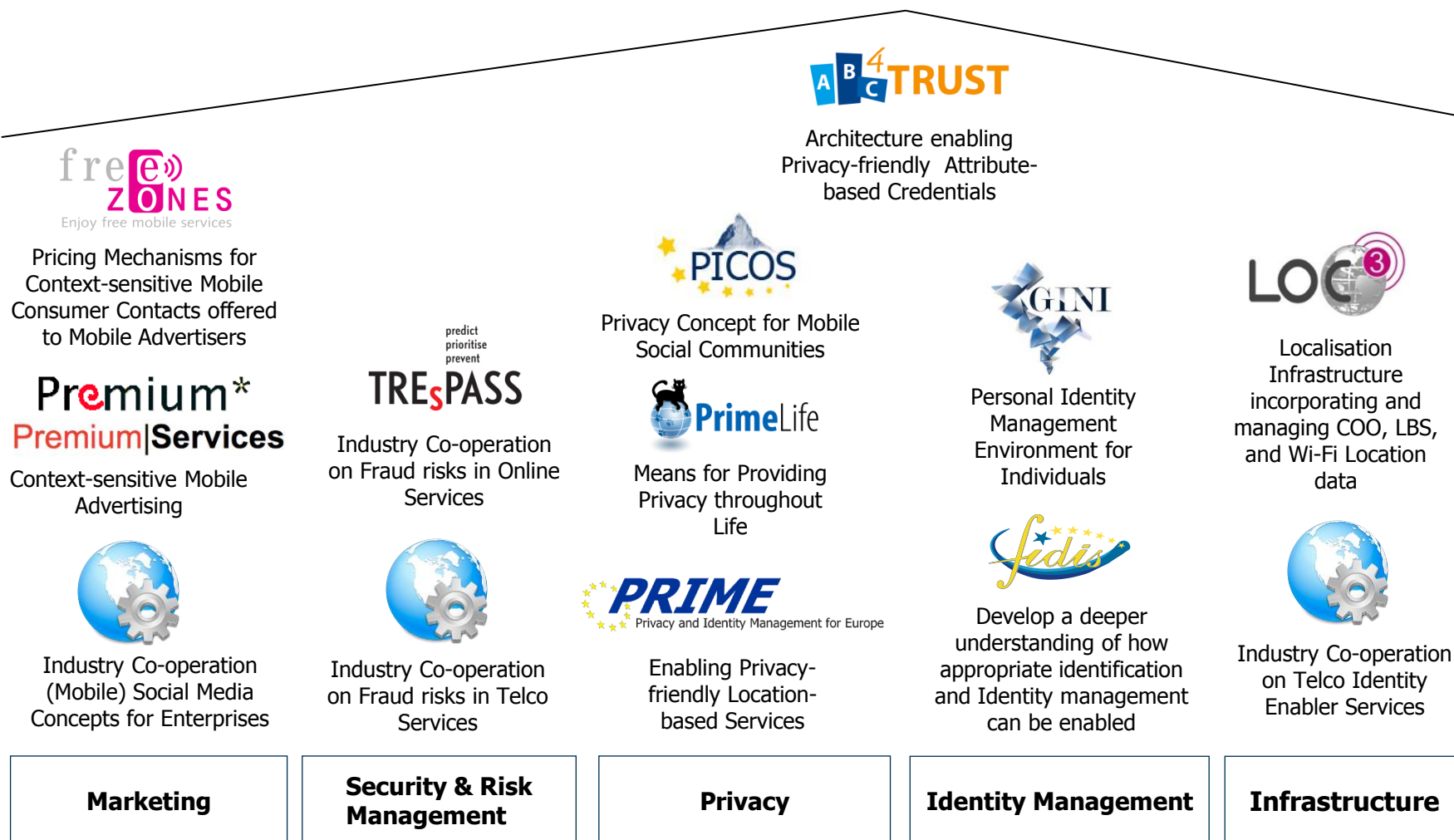


Dr. Christian Kahl
DANATO



Dr. André Deuker
KfW

M-Chair Research Projects & Industry Co-operations



Research Projects of the M-Chair Team

Marketing/ Business Models

Marvin Hegen



Mobile Marketing
(Extended
Packaging)

Niels Johannsen



Impact of a
regulation onto
the value of SN

Tim Schiller



Smart-Home
Business Models

Security & Risk Management

Dr. Jetzabel Serna Dr. Sebastian Pape



Security in
Mobile Devices



IT-Security for
Critical
Infrastructures

Lars Wolos



Fraud Prevention
Concepts for
Telco Services

Ahmed S. Yesuf



Validation and
Evaluation of
Security Solutions

Christopher Schmitz



Security Metrics

Privacy

Dr. Markus Tschersich



Impact of Privacy
by Default on SNS

Welde Tesfay



Usability of
Privacy-ABCs

Stephan Heim



Impact of
Enterprise Social
Networks

Shuzhe Yang



Context-Sensitive
Online Reputation
Management

Ahmad Sabouri



Application of
ABCs

Fatbardh Veseli



Privacy-enhancing
IdM technologies

Identity Management

Sascha Koschinat



Economic Evaluation
of Identity Enabler
Services

Andreas Leicher



SIM card based
OpenID authentication

- Identity Management



- Trusted/Trustworthy Computing
- Reachability Management & Context-Rich communication **Premium***
- Standardisation and regulation (ISO/IEC JTC 1/SC 27, EU ENISA, ...)



Research Focus

- Security, Privacy and Trust in Distributed Environments

Related interests

- Security and Privacy in C2X communications
- electronic IDentification and Authentication Methods (eIDAMs) for e-Financial Services
- Financial and Mobile Malicious Software
- Security Intelligence and Open Source Intelligence



predict
prioritise
prevent
TREsPASS

Security

Smart Cybercrime Data
Collection and Exchange
+
Mobile Banking Security



Coordination improvement by
best practices



Research in Migration
Management Technologies

Identity Management



electronic IDentity and Authentication Systems
(eIDAS) used in e-Finance Services

SEGURIDAD 2020

Identity Management in Digital Territories



Federated Identity Management based on Liberty

Social Networks



Methods and Technologies
for Social Media



Towards a new sustainable
Smart City model

Research Focus

- Holistic Security
 - Economics of Security
 - Social Engineering
 - Considering Business Processes and User Behaviour
- Modelling Security
 - Formalisation of Attackers and Security Goals
 - Security Metrics
- Privacy Enhancing Technologies



Related Interests:

- Applied Cryptography
- Cloud Computing
- Human Factors of Privacy and Security
- Identity Management
- Risk Analysis
- Security Management

Current Projects

SIDATE

Secure Communication Networks for Small and Medium Sized Energy Providers

Security

- Serious Games for Training Purposes
- Economic Model for Cloud Computing Security

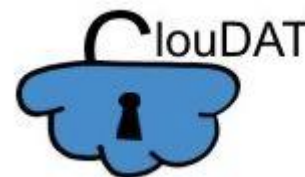
Privacy

- Data Protection in E-Commerce
- Supporting Endusers' Anonymity at ISP-Level
- Serious Games for Awareness Purposes
- Supporting Users to Publish Anonymized Datasets

Past Projects



Socio-economics meets Security



Documentation and Evaluation of Cloud-Computing-Systems' Security

MoDeISec

Modular Modeling of Delegation Security in Software Development

Teaching Topics

Identity Management

Privacy

ICT Security

Mobile Business

Business Informatics

Master Courses

Lectures

Mobile Business 1

Privacy vs. Data

Seminars

Mobile Business 2

Project Seminars

I & C Security

Master Theses

Bachelor Courses

Lectures

Business Informatics 2

Seminars

Bachelor Theses

	SS 2015	WS 2015/16
Bachelor	<p><i>Course</i> Business Informatics 2</p>	<p><i>Course</i> Business Informatics 2</p>
Master	<p><i>Course</i> Mobile Business II - Application Design, Applications, Infrastructures, and Security</p> <p><i>Seminar</i> User-centric Privacy Enhancing Technologies and Mobile Services for Consumer Goods</p> <p><i>Course</i> Information and Communication Security: Infrastructures, Technologies, and Business Models</p> <p><i>Course</i> Privacy vs. Data: Business Models in the digital, mobile Economy</p>	<p><i>Course</i> Mobile Business I: Technology, Markets, Platforms, and Business Models</p> <p><i>Seminar</i> Privacy and Identity Management – What do the users perceive?</p> <p><i>Project Seminar</i> Security, privacy and trust in emerging technologies</p>

Privacy and Identity Management - What do the users perceive?

Winter Semester 2015-2016

- Registration will be open from 01 October 2015.
- Number of participants is limited to 15!
- Language of the seminar is English.

Main Theme:

- Empirical studies and surveying the users on the topics related to Identity Management and Privacy.

Requirements:

- Diligence for performing literature reviews
- Dedication and willingness to perform experiments/survey

Ahmad Sabouri
ahmad.sabouri@m-chair.de

- **Title:** Security, privacy and trust in emerging technologies
- Subtopics:
 - Topic 1 “**Measuring uncertainty**”.
This project aims at studying the background problem about uncertainty challenges in privacy decision making, and further produce constructs to measure the degree of uncertainty of users in given contexts.
 - Topic 2 “**Adoption of biometric authentication systems in online banking**”.
The aim of this project is to determine, which factors influence the adoption of biometric in online banking. In particular the concepts of trust, privacy, liability, and data protection regulations must be investigated, by creating and evaluating a questionnaire items.
 - Topic 3 “**Privacy Detective**”.
The aim of this project is to implement privacy detection mechanisms, through the development of an intelligent agent able to identify privacy related attributes that will rely on the use of privacy dictionaries and privacy ontologies. *programming skills are required.

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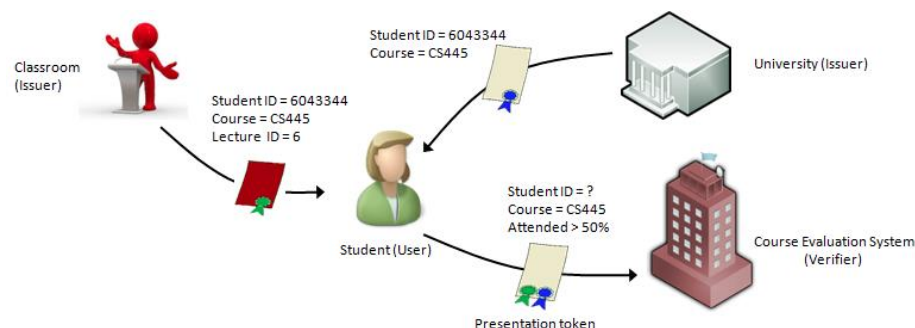
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- Attribute-based Credentials for Trust (ABC4Trust)
- Since Nov. 2010 for 4 years
- Objectives:
 - Abstraction of concepts of privacy-ABCs & unification of features
 - A common unified architecture
 - Independent from the specific technologies
 - Enabling the federation of privacy-ABC Systems based on different technologies
 - Enabling interoperability between different privacy-ABC technologies
- Avoid lock-in into one specific system
- Raise trust in privacy-ABC technologies



ABC4Trust receives research funding from the 7th Research Framework Program (FP7) of the EU as part of the Trust & Security Program.

- 1st Pilot – Privacy in Online Evaluation and Feedback Systems
 - Deployment: Patras University, Greece
 - Scenario: Students evaluate anonymously the courses they attended
- 2nd Pilot - Privacy in social communication fora
 - Deployment: Söderhamn Secondary School, Sweden
 - Scenario: Pupils communicate using pseudonyms on the school communication system
- Benefits of Privacy-ABCs
 - Privacy-ABCs are by default untraceable (no user-tracking)
 - Enable minimal disclosure (user reveals only the necessary information)
 - User can chose to stay anonymous or generate (unlimited number of) pseudonyms
 - Advanced security (no sharing of credentials, device-binding for extra protection)



Reference implementation with ABC functionality

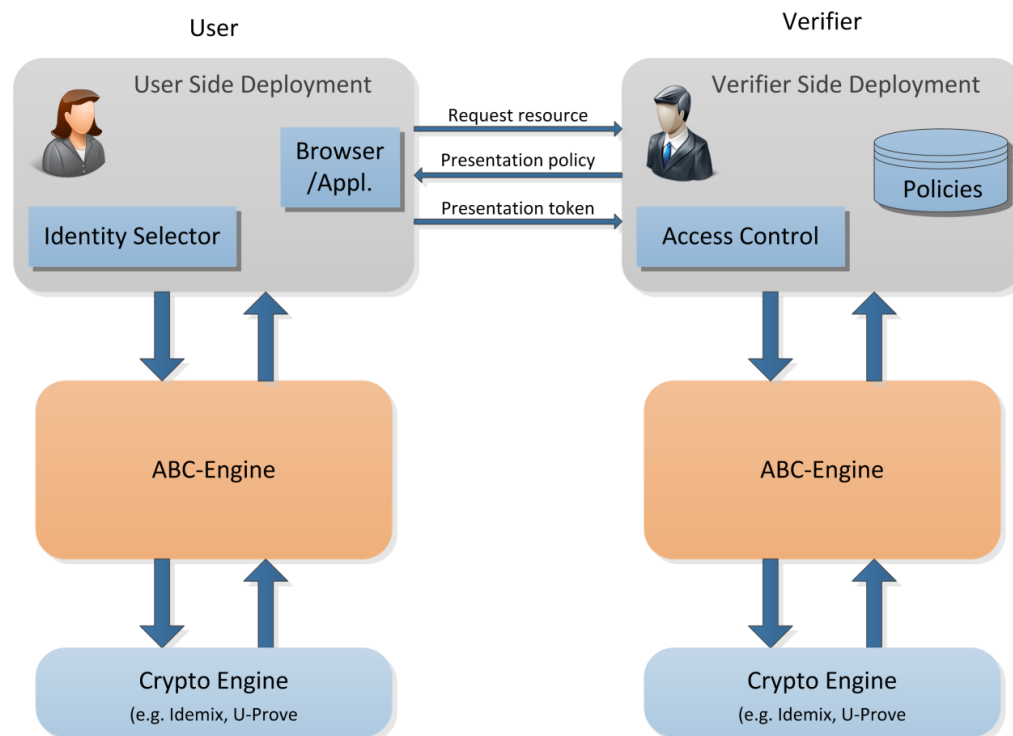
- coded in the ABC-Engine,
- exposed to the application layer as web-services,
- as open source.

For developers

- Easier application development
- Cryptographic operations are abstracted away from.

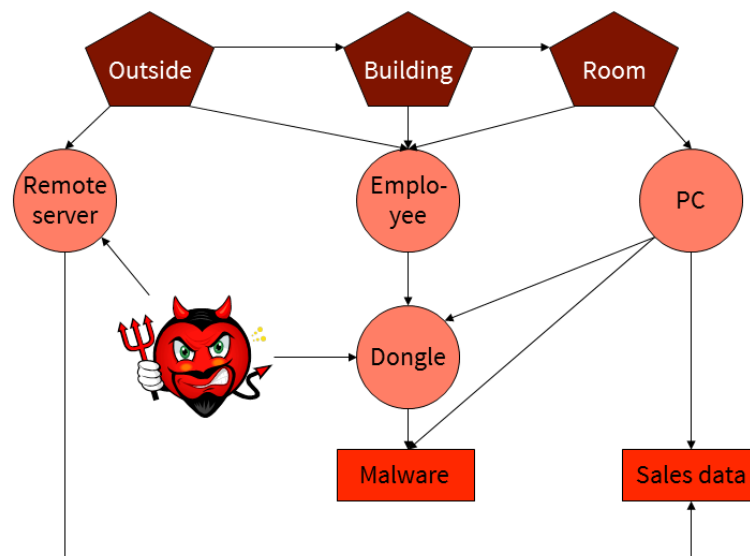
For users

- Only need to install a browser plug-in



- There is a constant increase of costs due to cyber attacks (hacking, industrial espionage, exploitation of loopholes).
- How to combine technical sciences, social sciences and state-of-the-art industry processes and tools to
 - predict complex attack scenarios spanning digital, physical, and social engineering aspects,
 - enable informed decisions on security investments,
 - reduce security incidents, and
 - increase resilience?

- Project aims
 - tool support for investments into cyber security controls
 - models and processes to analyse and visualize possible attacks
 - an attack navigator to systematically predict, prioritise, and prevent complex attacks



- **Aim:** Protection of communication networks of small and medium sized energy providers.
- **Focus:** Balance between security and usability. Enable non-experts to detect and overview security risks.
- **Research I:** Development of security metrics and corresponding measuring methods.
- **Research II:** Creation of a cross-organisational knowledge-database for small and medium sized energy providers to improve availability and integrity of critical infrastructures against attackers.

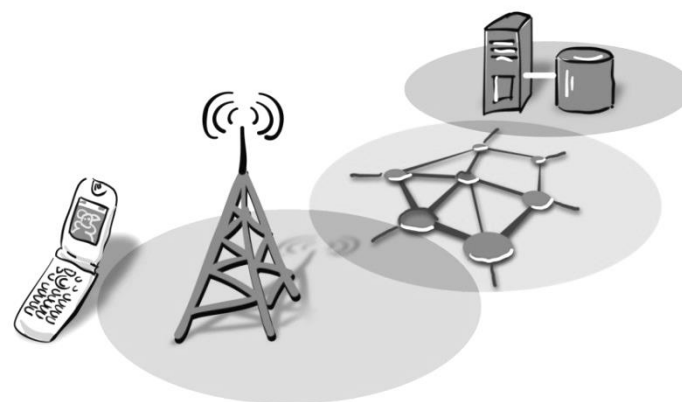
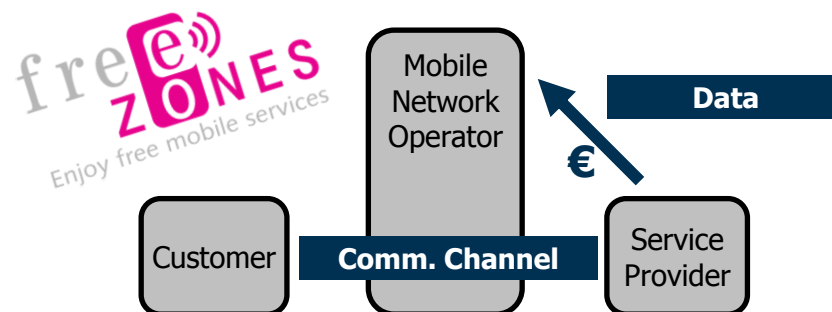


PREMIUM Project

(Completed in 2007)

- **Potential:** Mobile network operators have a customer relation with most of the German population!
- **Offering:** Mobile network operators are providing service providers with a communication channel to potential customers.
- **Motivation:** Service providers gain higher, mobile initiated revenues in their business.
- **Objective:** Eliminating data costs for customers while making them marketing costs for service providers.

Premium*

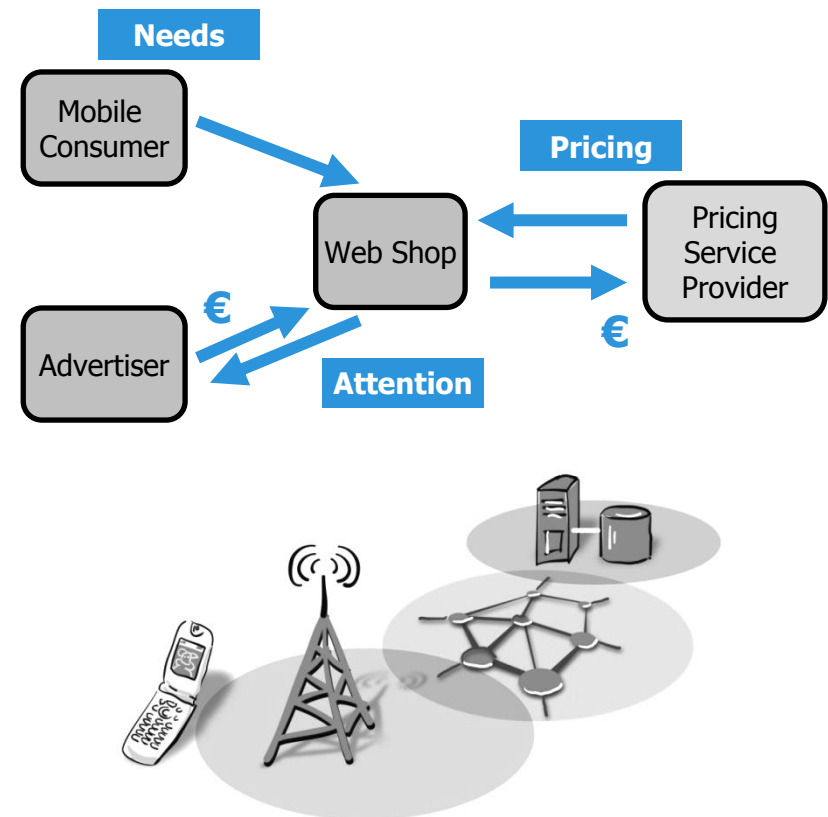


PREMIUM Services Project (Completed in 2011)

Premium|Services

Research on Pricing Mechanisms for Context-sensitive Mobile Consumer Contacts offered to Mobile Advertisers

- Design of dynamic, interactive pricing mechanism to address the unique characteristics of Context-sensitive Mobile Consumer Contacts
- Development of an Evaluation Tool for Advertisers in order to determine the value of mobile consumers in their current usage situation
- Implementation of Pricing Service Platform for the webservice-based provision of Pricing Mechanisms to SMEs (e.g. Online Webshops)

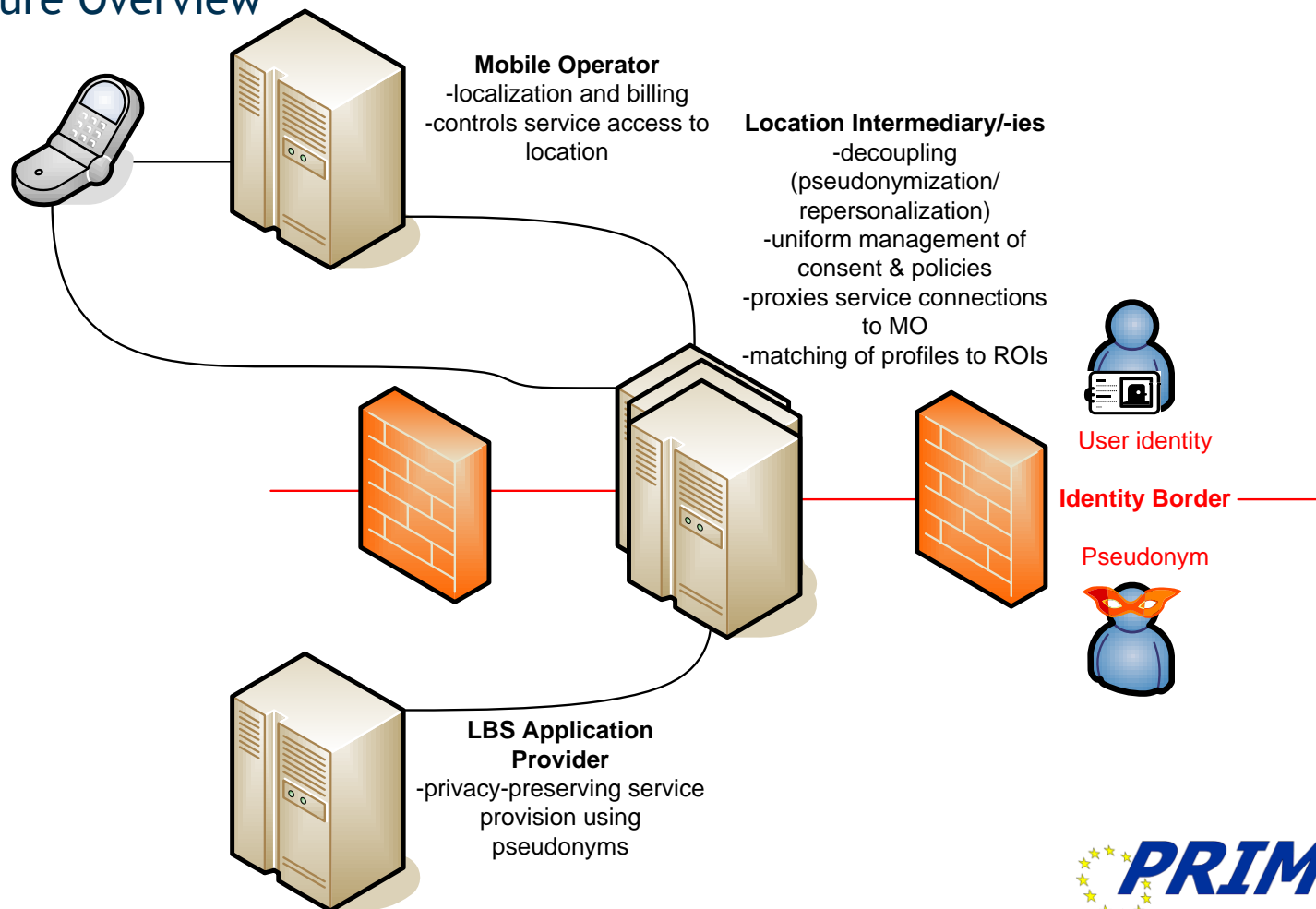


- Enhance privacy for typical LBS
 - Pharmacy search (“pull”)
 - Pollen warning (“push”)
- Address wide user range by making only few requirements on the existing infrastructure
 - Simple WAP mobile phone (Version 1), Java phone (Version 2)

Several Problems

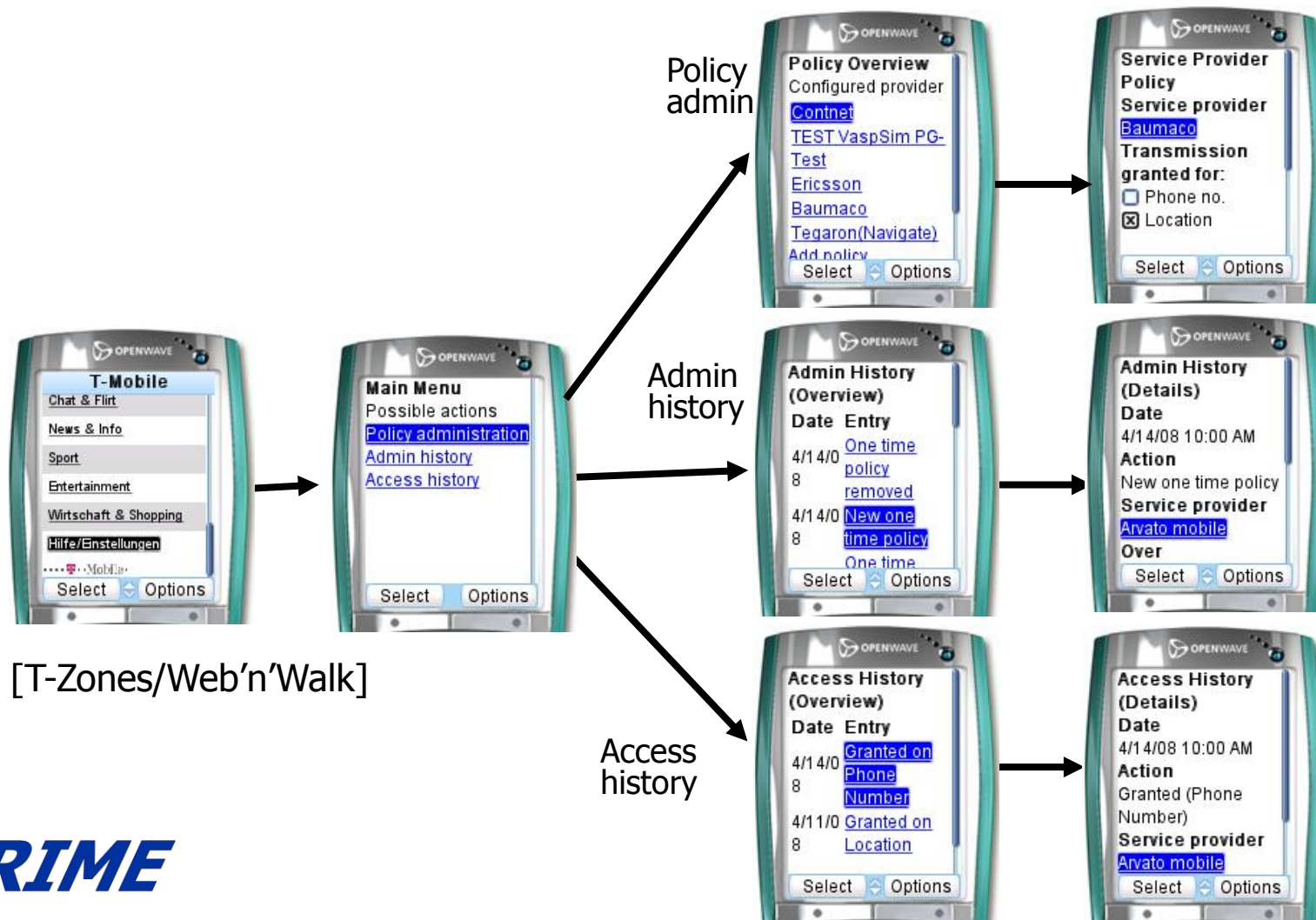
- Privacy problems
- Regulation, e.g. of the handling of personal information (and mobile services in general)
- Business constraints
 - Easy integration into existing infrastructure
 - Applicability to a wide range of business models
 - Adaptability for different market structures

Architecture Overview



Privacy Gateway – User Interface

Transfer into regular service



- PICOS - „Privacy and Identity Management for Community Services“
- EU FP 7 Challenge “Secure, dependable and trusted Infrastructures”
- Planned for 3 years from 2008-02 (extended till 2011-06): Summit event at IFIP Sec 2011 Lucerne
- Project budget: € 6 Mio, EC grant: € 4 Mio
- Balanced mixture of industrial and academic partners



Main Questions

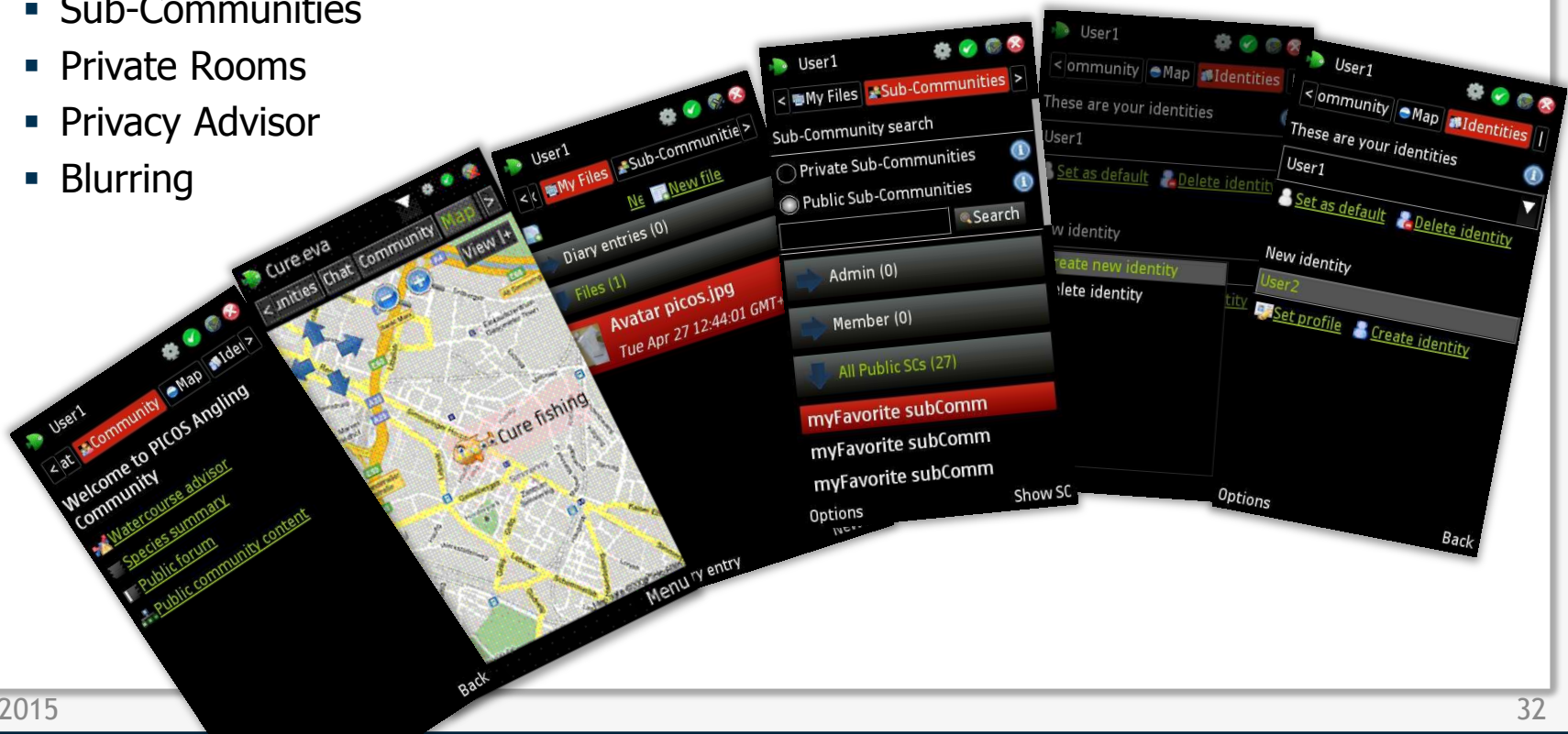
- What are the trust, privacy and identity issues in new context-rich mobile communication services, especially community-supporting services?
- How can information flows and privacy requirements be balanced in complex distributed service architectures?
- How can these issues be solved in an acceptable, trust-worthy, open, scalable, manner?
- Which supporting services and infrastructures do the stakeholders need?

Results

- A set of interdisciplinary requirements for trustworthy, privacy-friendly community transactions.
- A platform prototype that demonstrates the provision of state-of-the-art privacy and trust technology to community applications.
- User-centric trials that validate its applicability.

Implementing Privacy: PICOS prototype "AnglerApp"

- Prototypical implementation for trials
- Advanced privacy and identity management features optimized for mobile communities
 - Partial Identities
 - Sub-Communities
 - Private Rooms
 - Privacy Advisor
 - Blurring



- EU FP7 Challenge “Secure, dependable and trusted Infrastructures”
- Integrated Project
- Planned for 3 years from 2008-03 (extended till 2011-06): Summit event at IFIP Sec 2011 Lucerne
- EC contribution : ~€ 10 Mio
- Partners
 - IBM, Microsoft, SAP, Giesecke & Devrient, W3C, and more...



Giesecke & Devrient
security at work.



- Providing Privacy *throughout Life*: Prime**Life**!
 - ... digital footprints left over lifetime
 - ... in emerging Internet applications
 - ... user-centric and configurable
- Making Privacy Real: Prime**Life**!
 - Making results of PRIME (FP6) and PrimeLife widely usable and deployed
 - Cooperating with other projects for transferring PRIME and PrimeLife technologies and concepts
- Advancing State-of-the-Art in Technology supporting Privacy and Identity Management
 - Mechanisms, HCI, Policies, Infrastructure
- ... Building on results and expertise of PRIME



Future of Identity in the Information Society (FIDIS) (Completed in 2009)

- The challenge: “Identity” is changing
 - IT puts more HighTech on ID cards.
 - Profiles may make the „traditional“ ID concept obsolete.
 - New IDs and ID management systems are coming up (e.g. GSM).
 - Europe (the EU) consider joint ID and ID management systems.
- Vision and Facts
 - Europe will develop a deeper understanding of how appropriate identification and Identity management can progress the way to a fairer European information society
 - Network of Excellence in EU Framework Programme 6 (2004-04-01 – 2009-06-30)
 - 24 partners from academia, industry, governmental organisations including INSEAD, LSE, IBM, Microsoft EMIC, ICPP
 - More at: www.fidis.net
- Selected M-Chair Contributions
 - Coordination of the whole network (administrative, presentation, etc.)
 - What makes an identity mobile based on the FIDIS identity concept?
 - State of the art of mobile identity management technologies
 - Standardisation (Liaison with ISO/IEC JTC 1/SC 27/WG 5)



- Towards the vision of a *Personal Identity Management environment*, where
 - *individuals* will be able to *manage* their own *identity space* (Individual Digital Identity – INDI).
 - *user-specific identity services* will be available in the INDI space with *privacy protection and privacy enhancement* provisions.
- Investigate and set the foundations for a framework of *user-centric identity management services*
 - architectural, legal, regulatory requirements and
 - provisioning and privacy enhancing aspects



Main Outputs

- A roadmap with new research and technology development areas for the research and development priorities of
 - Horizon 2020 (FP 8)
 - the Competitiveness and Innovation Program (CIP).
- A White Paper to
 - identify the domains for policy intervention in terms of regulation, legal measures, technology policy and institutional reorganization
 - enable and support the emergence of an operator-driven infrastructure for user-centric Identity management in the context of the envisioned INDI ecosystem.

Project Facts

- June 2010 till October 2012
- Partners:
 - International Organisation for Knowledge Economy and Enterprise Development (IKED), Sweden
 - Fraunhofer FOKUS, Germany
 - The Katholieke Universiteit Leuven, Belgium
 - Technische Universität Graz, Austria
 - Goethe Universität Frankfurt am Main, Germany
 - Government to You, Greece
 - NorthID Ltd, Finland



- Multilateral Security, Privacy, and Identity Management in
 - IT Security Evaluation
 - Criteria (IS 15408, Common Criteria)
 - Certification
 - Standardisation (in ISO/IEC JTC 1/SC 27)
 - WG 3: IT Security Evaluation Criteria
 - WG 5: Identity Management and Privacy Technologies
- Standardisation and regulation (EU ENISA Management Board / Permanent Stakeholders' Group, ...)

- 1 M-Chair Profile
- 2 Research Projects
- 3 Team & Fellows
- 4 Contact

Research Interests

- User Acceptance of Social Network Services in Multinational Enterprises
- Privacy in Enterprise Communities
- Privacy in Mobile Communities

Completed Projects

- Privacy and Identity Management for Community Services (PICOS)



General Research Interests:

- Fraud scenarios in the telecommunications market
 - Fraudulent use (misuse) of fixed and mobile telecommunications networks
- Fraud models for Telco services
 - Modelling
 - Analysis
- Tool-assisted identification of potential attack vectors



Projects:

- TRE_sPASS (Technology-supported Risk Estimation by Predictive Assessment of Socio-technical Security)

predict
prioritise
prevent
TRE_sPASS

General Research Interests:

- Future (mobile) Internet
 - Internet of Things / Physical World Connection
 - Ubiquitous Computing
 - QR-Codes
 - Augmented Reality
 - Mobile Web Technologies
- Mobile Marketing
 - Context Aware Services
- Business Models & Technologies for Mobile Commerce



General Research Interests:

- Privacy Enhancing Technologies
- Identity Management
- Privacy in Mobile and Pervasive Sensing

Projects:

- Attribute-based Credentials for Trust (ABC4Trust)
- Global Identity Networking of Individuals (GINI)



General Research Interests:

- Online Reputation Management
- Online Self-tracking
- Privacy in Web 2.0
- Selective Information Disclosure
- Information System Design & Architectures



Project:

- Global Identity Networking of Individuals (GINI)



General Research Interests:

- Privacy enhancing technologies – challenges and opportunities
- User-centric identity management
- Security and privacy evaluation frameworks

Projects:

- Attribute-Based Credentials for Trust (ABC4Trust)



Research Interests:

- Mobile and Pervasive Computing
- Open Source Mobile Platforms, Applications and Services
- Human Factors of Security and Privacy
- Applied Cryptography and Smart Cards

PhD Focus:

- Usable Privacy Enhancing Technologies with Focus on Privacy-ABCs
- Learning from User Data to Enhance User Privacy

Projects:

- Attribute-based Credentials for Trust (ABC4Trust)



Research Focus:

- Validation and evaluation of security solutions
- Metrics to evaluate security approaches

Research areas:

- System security and modelling
- Secure software development
- Design and requirements engineering

Project involved:

- TRE_sPASS (Technology-supported Risk Estimation by Predictive Assessment of Socio-technical Security)



predict
prioritise
prevent
TRE_sPASS

General Research Interests:

- Economics of IT Security
- Metrics and Measurement of IT Security
- IT Security Management

Projects:


- Protection of communication networks of small and medium sized energy providers (SIDATE)

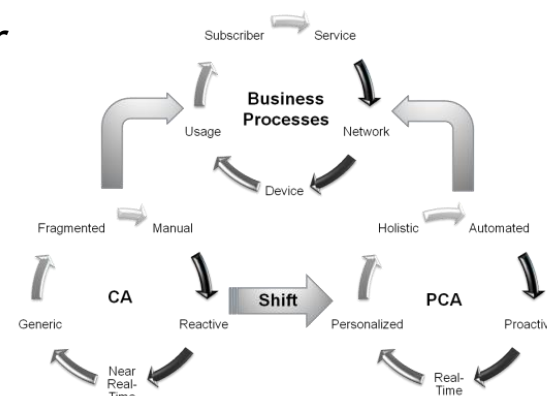


Interests:

- Economic analysis & valuation, esp. design success scenario analysis for identity & privacy management services.
- Market engineering & design, esp. prediction & optimization markets for analytical customer relationship management.

Projects:

-  **PrimeLife**- bringing sustainable privacy & identity management to future networks and services.
- Industry projects in the telecommunications sector and the personal data economy on business developments & innovations:
 - analysis & valuation of economic success,
 - mobile billing & payment services,
 - customer identity & privacy management services,
 - and customer data mining & predictive analytics services.



CTO, Mapcase GmbH Germany

Focus of PhD research:

- SIM card based OpenID authentication for mobile networks and services

Interests:

- Authentication, Identity and Access Management using Open Standards (e.g. OpenID, OAuth) in mobile environments, solutions for distributed service architectures
- Trusted Environments, TCG TPM/MTM and related technology, efficient and scalable integrity verification
- Standardisation
 - 3GPP SA3, SSO solutions for NGNs based on GBA, AKA
 - ETSI TC M2M – machine to machine communications



Smart[®]
OpenID

smartopenid.novalyst.de



ethemba.novalyst.de

MAPCASE

Privacy Protection in Web 2.0 Applications

- Privacy Controls, IdM in Web 2.0 Applications
- Information Sharing and Consumption Behaviour
- Friend2Friend Privacy Protection on Social Networking Sites

Further Research Interests

- Information Overload & Information Filtering on Social Networking Sites
- Privacy in Data-Centric Business Models

Selected Projects

- The Future of Identity in the Information Society (FIDIS)
- PREMIUM-Services
- PrivacyOS



| Premium | Services



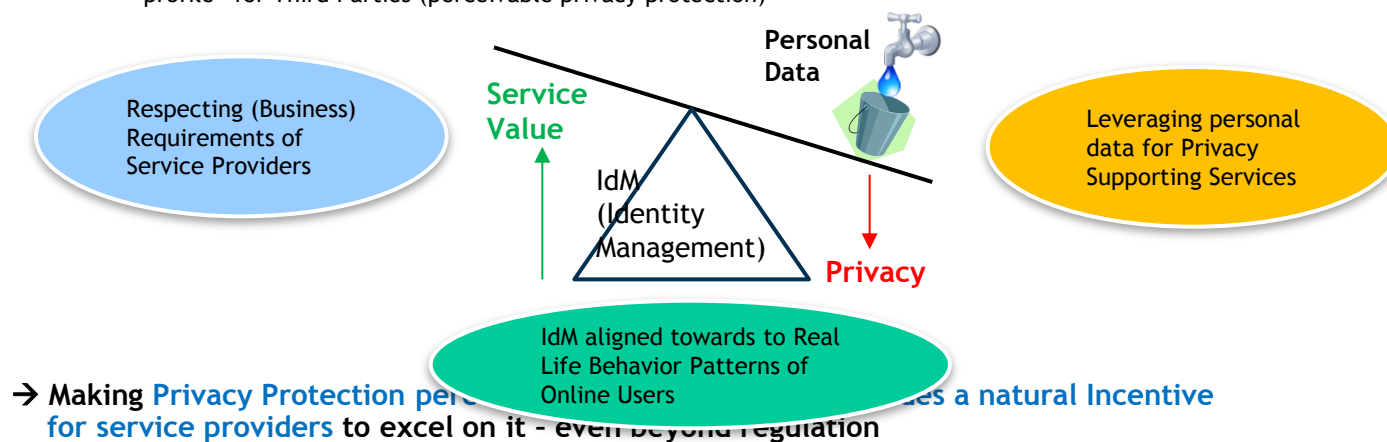
Rebalancing the **Personal Data for Value / Privacy Trade-off** in the Digital (Mobile) Economy

State-of-the-Art

- Service Providers: **No incentive for privacy protection** beyond regulation
- Online Users: **Demand for privacy protection**, but too difficult to accomplish

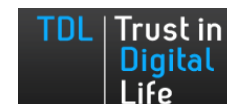
Research Vision / Approach

- Development of Identity Management concept **to be operated at Service Providers**
 - Respecting business, technical and legal requirements while trusting them certain personal data
- Enabling users to **manage their personal data similar to their real/offline life**
 - Based on behavioral patterns rather than privacy policies in order to reduce effort
 - IdM concept NOT required to use an online service (optional feature)
- Service Providers **offering Privacy Supporting Services** for Online Users
 - Support for online users to disclose personal data, manage their online reputation, or use their privacy "profile" for Third Parties (perceivable privacy protection)



Premium*

Premium|Services



Produkt-Manager, DANATO GmbH, Germany

Research Interests

- **Social Media & Marketing** (e.g. Web X.0, Mobile Communities/ Social Networks, Social Media Marketing, Digital Media Marketing)
- **Focus: Marketing of digital music** in Social Networks

Completed Projects:

- **Privacy and Identity Management for Community Services (PICOS)**



**Global Data Protection Officer, Director
Compliance, Swiss Reinsurance Company Ltd**

Research

- PhD Thesis on Information Privacy in Social Network Applications
- Interests
 - Information Privacy
 - Privacy-Enhancing Technologies
 - Social Network Applications
 - Semantic Web
 - Web 2.0 Services
 - IT Standardization

Further Activities:

- Project Editor at ISO/IEC JTC 1/SC 27 for
 - Privacy Framework (ISO IS 29100:2011)
 - Privacy Reference Architecture (ISO 29101)



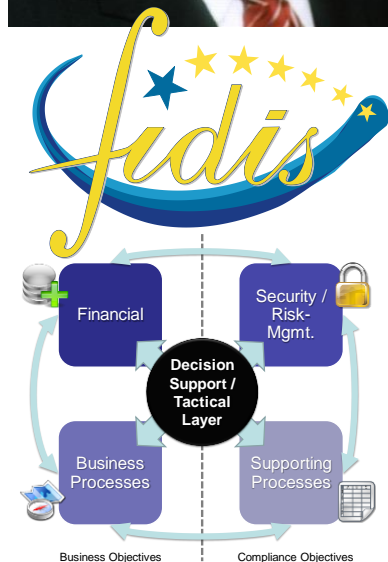
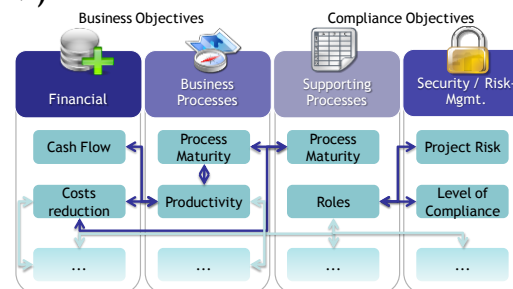
IT Architect, Otto Group, Germany

Research Focus

- Assessing the Value of Enterprise Identity Management (EIdM) - Towards a Generic Evaluation Approach
 - Decision support instruments for the investment into Enterprise Identity Management Systems (EIdMS)
 - Based on the Balanced Scorecard approach

Further Research Interests

- Evaluation of investments into EIdMS
- EIdMS process models (GenericIAM)
- IT-Controlling



Product-Management Cloud Services, Deutsche Telekom AG, Germany

Research Interests

- PhD Thesis on Transparent Mobile Recommendations
- Interests:
 - Marketing Strategies
 - Product Innovation
 - Cloud Computing
 - Machine-2-Machine Communication
 - Social Communities
 - Project Management



Projects involved



Premium*

Premium|Services

General Research Interests:

- Smartphone Privacy & Security
- Human Factors of Privacy & Security
- Mobile Platforms, Applications and Services

Focus of Ph.D. Research:

Improving Privacy Risk Communication in Smartphone App Ecosystems

Projects:

- PrimeLife - Bringing sustainable privacy and identity management to future networks and services
- Industry project on economic and technical aspects of identity management and online privacy



Research Focus

- Impact of *Privacy by Default* on Social Networks
- Privacy-Challenges in
 - Quantified Self
 - E-Health/M-Health
 - Mobile Environment
- Embedding Privacy in Business Models

Related Interests:

- EU Privacy Policies and Regulation
- (Mobile) Communities and Social Network

Projects:

- User-friendly Mechanisms for Privacy Policy Management
- Privacy and Identity Management for Community Services (PICOS)



- Multilateral Security, Privacy, and Identity Management in
 - Infrastructures
 - IT Security Evaluation
 - Criteria (IS 15408, Common Criteria)
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 - WG 3: IT security Evaluation Criteria
 - WG 5: Identity Management and Privacy Technologies



Kai Rannenberg - further topics

- Identity Management



- Trusted/Trustworthy Computing



- Reachability Management & Context-Rich communication

Premium*

- Standardisation and regulation (ISO/IEC JTC 1/SC 27, EU ENISA, ...)

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M-Chair Profile

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