



Daidalos and ETSI TISPAN

“**D**esigning **A**dvanced network **I**nterfaces for the
Delivery and **A**dministration of **L**ocation
independent, **O**ptimised personal **S**ervices”

IST-2002-506997



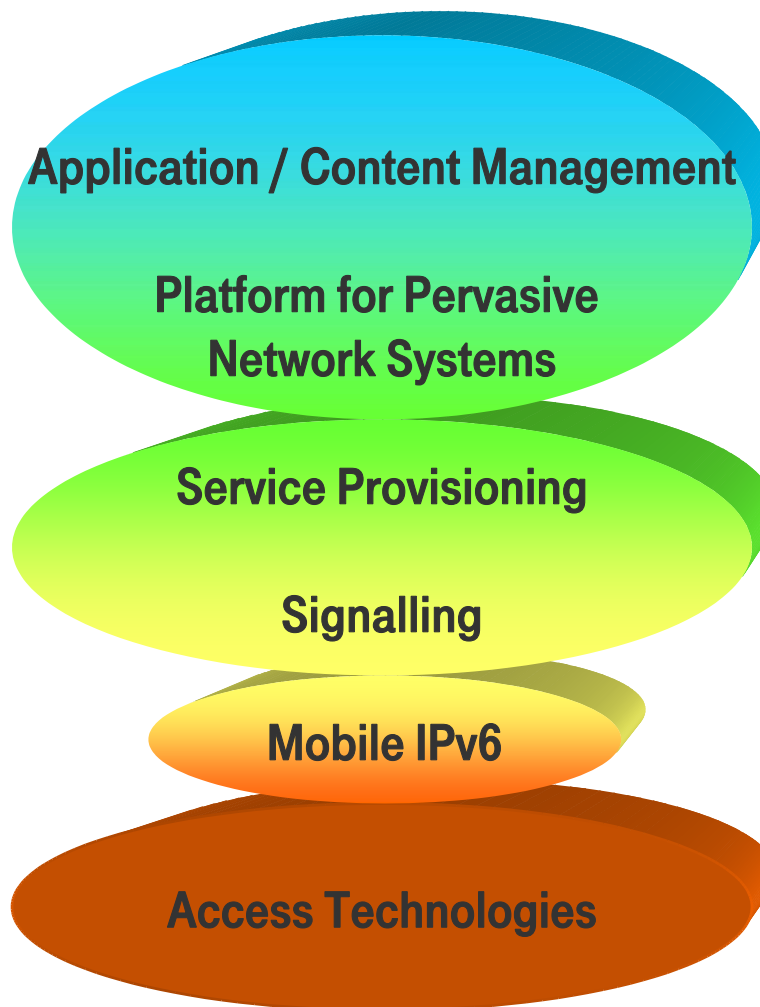
<http://www.ist-daidalos.org/>

Sietse van der Gaast

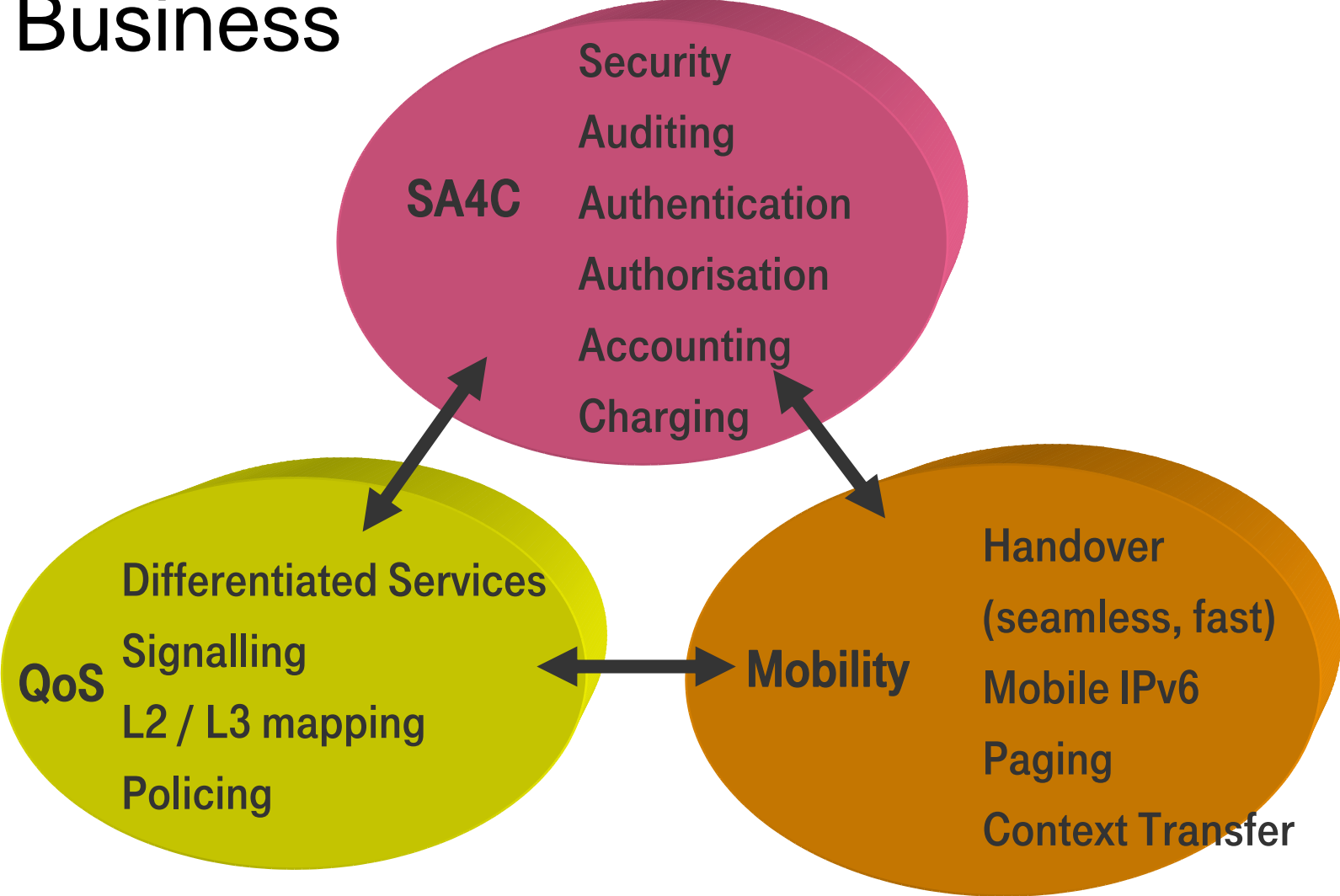


Daidalos - Overview

- ▶ Design, prototype and validate infrastructure and components for end-to-end services
- ▶ Integrate complementary, heterogeneous network technologies to provide pervasive and user-centred access to these services
- ▶ Develop optimised signalling for communication and management support in these networks,
- ▶ Demonstrate results via user-centred and scenario-based development of technology.

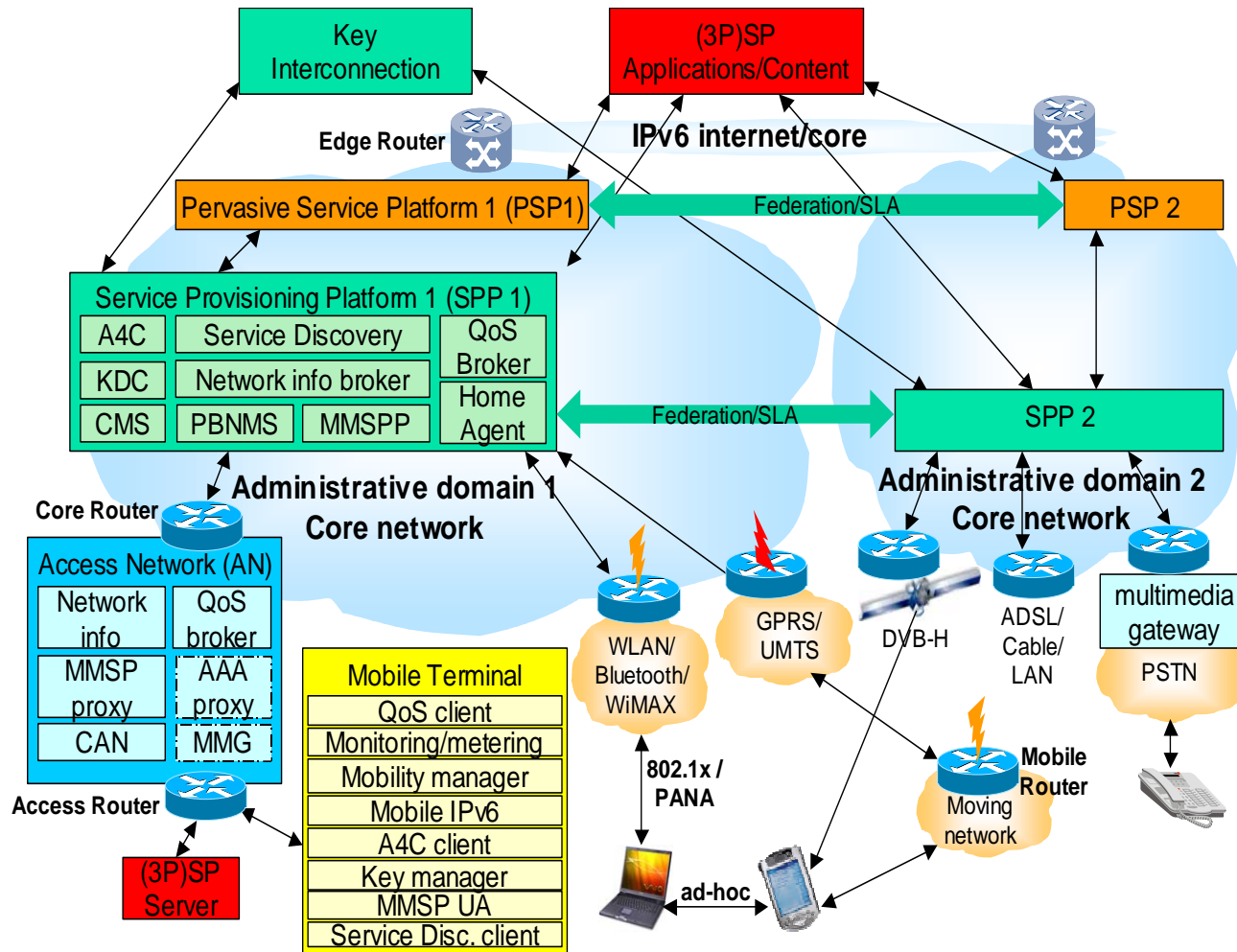


Challenge for Research and Future Business





Daidalos Architecture overview

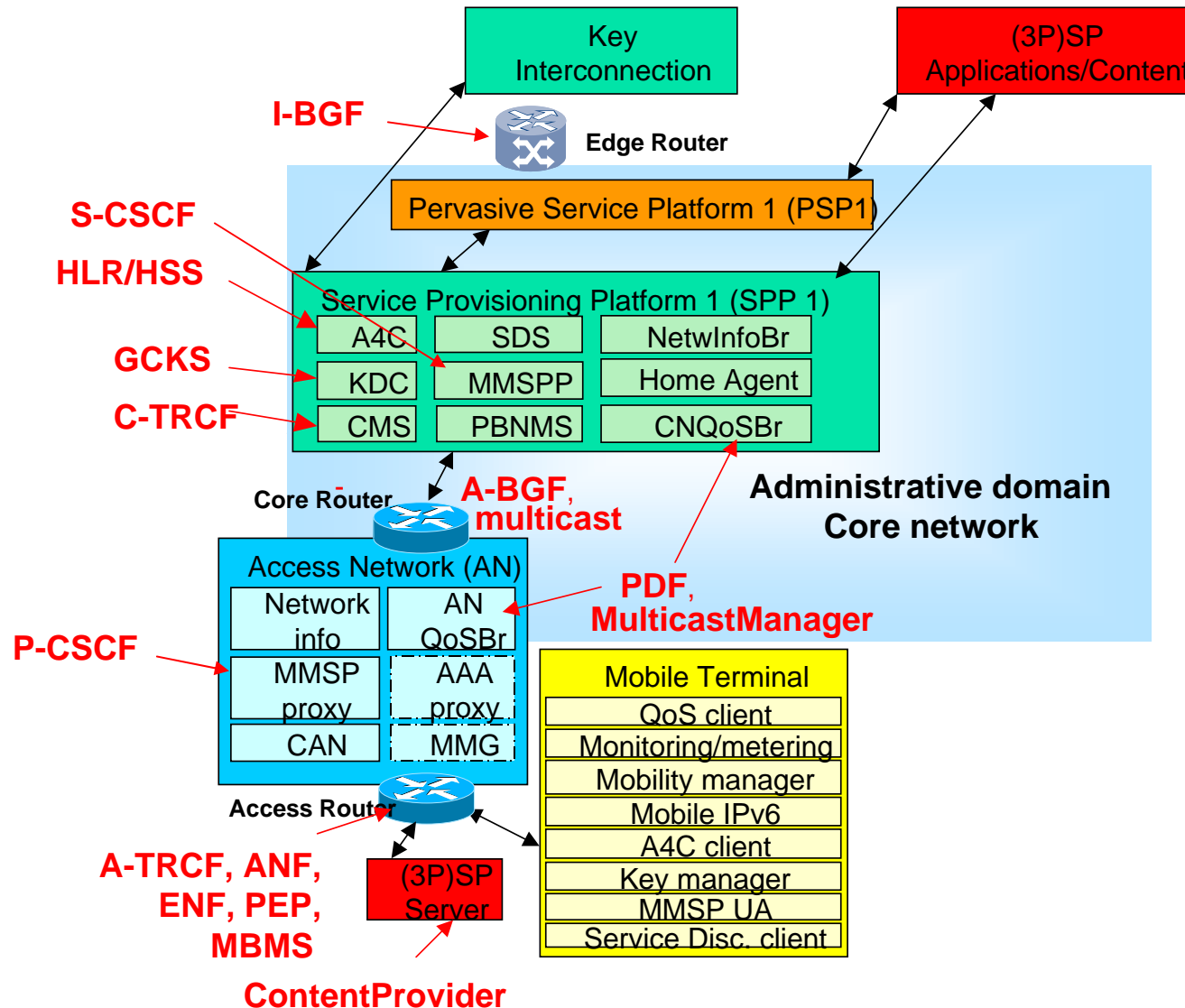


- A4C**
Authentication, Authorization, Accounting, Auditing, Charging
- KDC**
Key Distribution Center
- CMS**
Central Monitoring System
- PBNMS**
Policy Based Network Management Service
- MMSP**
Multimedia Service Provisioning Platform
- CAN**
Content Adaptation Node
- MMG**
Multimedia Messaging Gateway





IMS view on Daidalos architecture





Daidalos Objectives

- ▶ **Develop and demonstrate an open architecture based on a common network protocol IPv6**
- ▶ **Network operators and service providers will offer:**
 - diverse range of pervasive personalised services
 - transparently provided by underlying heterogeneous networking technologies
- ▶ **Global roaming and fast handover with negotiation capabilities including**
 - seamless mobility, security, charging, billing, authentication, authorisation, accounting, auditing, and QoS
 - based on end-to-end Internet-centric service architecture
- ▶ **Inter-working between access technologies**
 - traditional wireless, novel wireless , broadcast media (further including: personal networks, ad-hoc networks and body networks)
- ▶ **Optimised performance and service support for access and core networks**





Potential areas of interest for ETSI TISPAN R2

- ▶ **QoS Aspects**
 - Session mobility, monitoring, fast handover
- ▶ **Security and AAA**
 - Single sign-on with SAML for both network access and services, PANA for authentication
- ▶ **Multicast and Broadcast**
 - Multicast server encryption using Group Key Management to enable prepaid charging
 - QoS for multicast and speed-up of multicast source discovery
- ▶ **Multiparty Calls**
 - Use of Content Adaptation nodes
- ▶ **Accounting and Charging**
 - Prototype of IMS GW Function for session based charging
 - Working on prototype for flow based & session based charging





Daidalos partners active in TISPAN

- ▶ Siemens AG
- ▶ Lucent Technologies Nederland BV
- ▶ Deutsche Telecom AG
- ▶ France Telecom R&D
- ▶ Portugal Telecom Inovacao SA
- ▶ Telenor Communications II AS
- ▶ Telefonica Investigation y Dessarrollo
- ▶ NEC Europe Ltd
- ▶ Motorola SAS
- ▶ Telecom Italia SpA

Potential Daidalos project contributions through one or more of the project partners



Daidalos – Fact Sheet



- DAIDALOS is an **Integrated Project in EU Framework Programme 6**
 - Strategic objective: Mobile & Wireless Systems Beyond 3G

- **Timing**
 - Start: November 2003, duration: 5 years
 - Phase 1: 30 months
 - Phase 2: to be proposed for Call 4

- **Finances**
 - Overall budget phase 1 = 25.7 Mio Euro (2,436 PM)
 - EC funding = 14.7 Mio Euro

- **Consortium**
 - Mixture of competences and profiles covering operators, industry, research and users
 - 46 partners including manufacturers, operators and universities

- **Coordination:** T-Systems

- **Web site:** <http://www.ist-daidalos.org>





Questions?

