

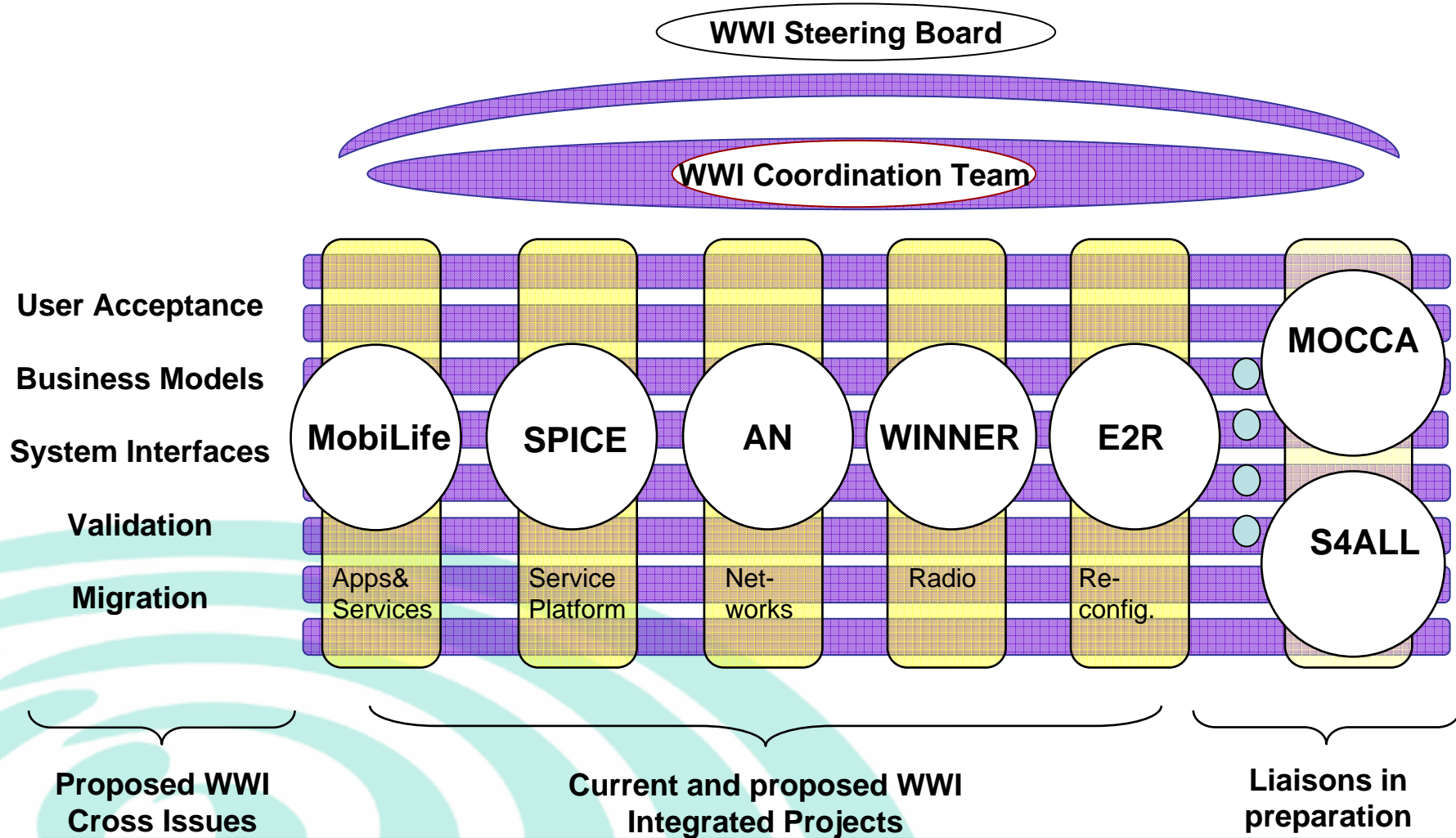
Service Platform issues in WWI: Introduction to the SPICE project

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- WWI objectives embrace a global vision of the Wireless World beyond 3G
 - Easy and seamless access to electronic services, applications and information anywhere and anytime
 - End-to-end communication based on an open architecture supporting fast service and content creation boosting end-user acceptance and trust.
- Service platform issues not addressed in Phase 1 projects
- Gap to be filled between Ambient network and Mobilife
 - Provision of Ambient Service enablers
 - Investigating seamless service delivery aspects at the service platform level



- Redefining the role of Telco: from access to service provider
 - Blurring roles
 - Enabling new business models
- Hiding complexity and heterogeneity
 - Taking benefit of existing variety of services, networks and devices
- Make services intelligent and easier to use (Assist users)
- Inter-domain aspects: service provisioning, inter-working
 - Pan European service delivery platform
- Provide services timely: accelerate creation & delivery of services
 - Fast service creation
 - Reduce time-to-market for new services
- Opening platform capabilities to 3rd parties
- Support multi-vendor, multi-technology middleware platforms

- **SPICE (Service Platform for Innovative Communication Environment)** proposal submitted to IST Call 4
 - Coordinator: France Telecom
 - Technical manager: Alcatel
- **Vision:** to design, develop, evaluate and prototype an extendable overlay architecture and framework that supports :
 - Easy and quick service creation of intelligent and ambient-aware services
 - Cooperation of multiple heterogeneous execution environments
 - Pan-European seamless delivery of services across operator domains, networks and terminals
- **Consortium composition: 25 partners**
 - Operators: FT, Telecom Italia, T-Systems, Telenor, DoCoMo Eurolabs, TP
 - Vendors: Alcatel, Ericsson, Nokia, Siemens, NEC, Bull
 - SMEs: Neos, Iris, Volantis
 - Research Centres / Academics: Telematica Instituut, Fraunhofer Fokus, Univ of Kassel, Univ of Surrey, Univ of Turin, NTNU Trondheim, Univ of Brussels
 - Operational PM support: Alma

- Provide a **unified and seamless way** to deliver services over **heterogeneous execution platforms**, network and terminals
- **Enrich the service landscape**, through an overlay structure offering a personalized user experience anytime, anyplace
- Create a **trusted and open platform** that will simplify the use of services and devices through personalization and customization
- Open-up to **new business models** and value chains
- Enabling **Pan-European** service provisioning
- Promoting the uptake of **innovative IT software technologies** in a telecommunications grade service platform environment

- One phase (duration: 2,5 years)
- Operator perspective and interests well represented
- Scenario-driven approach
 - 3 illustrative scenarios: intelligent portal, e-tourism, emergency
- Platform-centric approach
- Service composability and loosely coupled approach
- Semantic enhanced middleware
- New service eco-system building
- Open and controlled access to SP capabilities
- Multi-terminal and -access distributed communication sphere

Supplementary slides



- Business Models and architecture
 - Business and technical requirements for Telecommunication Service provider (TSP)
 - Viable mobile eco-system (where the TSP plays the central role)
 - Service Platform Architecture definition
- Platform middleware & enablers
 - Generic Service enabler components
 - Infrastructure for discovery and deployment of components
 - Cross-domain component access
 - Inter-service platform roaming mechanisms
 - Service exposure layer and charging enabler
- Distributed Communication Sphere (DCS) Management
 - Building and maintaining user's DCS
 - Framework for transparent remote DCS configuration
 - Dynamic desktop
 - Communication decision engine
- Increasing service intelligence
 - Personal information management framework
 - intelligent context awareness functionality
 - Intelligent knowledge provisioning
 - Pro-active triggering of mobile services

- Service creation and life-cycle management
 - Multiplatform service execution engine
 - Integrated Service creation environment allowing fast service deployment
 - Advanced service description language
 - Tools for automatic / dynamic service composition
- Service access control & trust management
 - Federated policy-based access control methods
 - Dynamic SLA enforcement
 - Policy management
 - Secure mediation function to share information between stakeholders
 - AAA
 - Identity management
 - Privacy management
- Information & content delivery
 - multimedia content description
 - protected distribution of content between devices
 - Content sharing in a user-friendly and secured way
 - Scalable decision mechanisms that control the delivery of content to several devices and networks

