

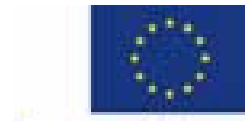
European Software industry - status

- Tool and Packaged SW weak (-)
- OS, PC platform, standards and interoperability dominated by US industry (-)
- 70% SW development within secondary industry (telecom, automotive, aerospace, engineering, ...) (!)
- Traditionally strong academic research, but may be declining (+/-)
- Strong Open Source Community (+)
- Emerging market for value added services (mobile) (+)



Strategy for competitiveness

- Use Europe's industrial strength in telecom, automotive, aircraft, consumer electronics, chemicals, etc.
- RTD actions (i.p. IP) aim at **building collaboration** between:
 - large industrial user/developers
 - software (tool, COTS, component, service) vendors
 - supported by academic research,leading to strong (often sectorial) **industrial networks**
- Foundational research through STREPs and CAs
- Where appropriate, complementarity and co-operation with work under EUREKA/ITEA



The service “vision”

Characteristics of successful future services

- Simple to use with high perceived value
- Adaptive to situation and environment
- User in control - supportive “intelligence”
- Provided transparently through different infrastructures and devices



Preconditions for their emergence

Openness and Interoperability at all levels

To facilitate a lively service economy

- Large scales trials (and errors) needed in mass and niche markets
- Neutral in regard to technology and (!) business model (e.g. p2p)
- Low threshold to enter market (Industry, SMEs, Communities, Individuals) ==> ease of: development, (dynamic) composition, testing, deployment, life cycle management

Approach

- Low-cost and easy to use tools and platforms
- open and interoperable infrastructure and runtime environment (data formats, protocols, APIs, source)



Targeted research projects experimenting with different approaches, e.g.:

- **CONSENSUS** - automated adaptation of a generic application to a multitude of mobile devices
- **WISE** - Engineering of services on the wireless internet
- **NOMAD** - Platform for transparent discovery, orchestration and provision of services
- **POLOS** - Platform for location based services



What we target in FP6

Target “Services everywhere” through large scale activities on

- **Middleware, platforms and tools for services development, composition, testing and deployment**
- **Service creation environment - live cycle management**
- **Interoperability and Openness through open formats, protocols, interfaces and where appropriate open source**
- **Software as a service (“software on command”, application services)**

