

Project Overview

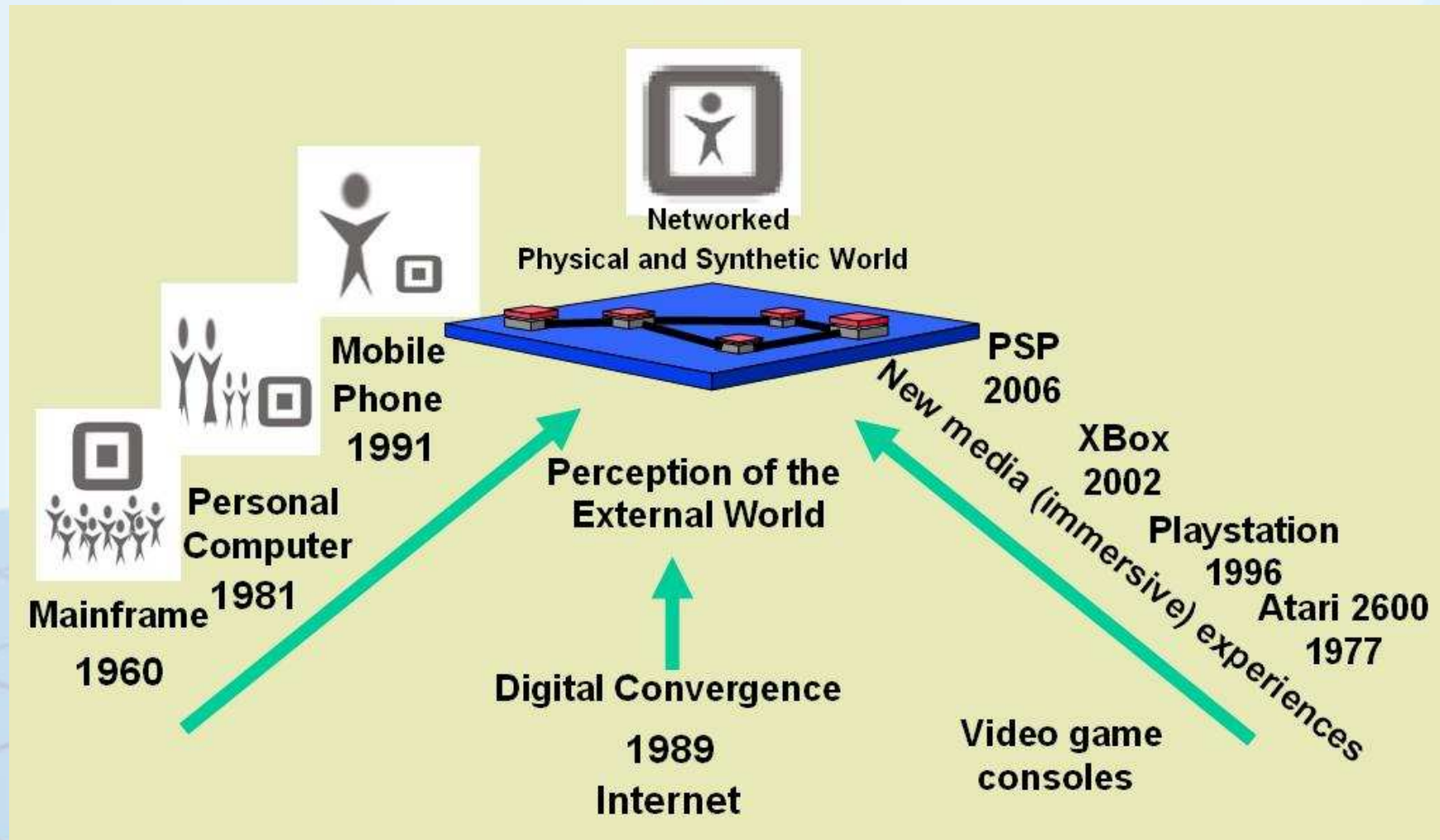
Prometeo General Assembly

Jesús Bermejo
José Luis González
Madrid, Oct 2009

The logo for OS@mi features the letters 'OS' in a bold, black, sans-serif font. The '@' symbol is a stylized green circle with a white outline and a white dot in the center. The letters 'mi' are in a bold, black, sans-serif font. The entire logo is set against a background of a blue-tinted image of a modern building's glass facade and a tree branch in the upper right corner.

OS@mi

OSAMI-Commons Overview





- **Challenges in the Industry**

- consumer requirements increasing
- massive increase in system complexity
- need for strategic market differentiation

...and as a
consequence

- **Growth of Java (HW independency and open standard)**

- >1 billion Java technology-enabled smart card
- > 708 million Java technology-enabled handsets
- > 700 million Java technology-enabled PCs
- > 140 Java platform carrier deployments

- **Increasing importance of open source**

Resulting market facts



- **Increasing importance of open standards**
 - Reduce risk
 - Avoid single vendor dependence
 - Increases interoperability
 - Flexibility
 - Multiple sources / suppliers
 - Switching costs reduced
 - Durability of solution
 - Multiple industry stakeholders foster long term investment
 - Single vendor approaches often abandoned more quickly

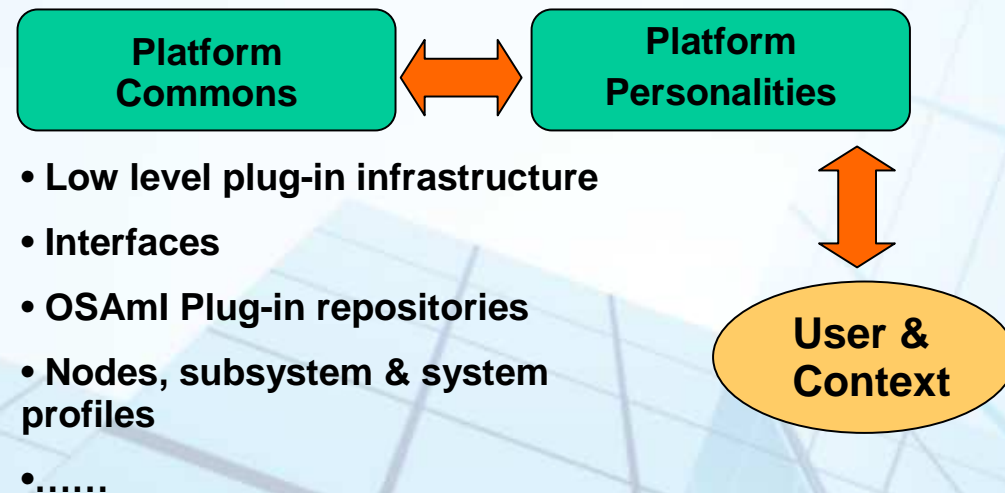
OSAmI platform



“OSAMI-Commons targets open source common foundations for a dynamic service-oriented platform which is able to personalise itself in a large diversity of co-operating Software Intensive Systems (SISs)”

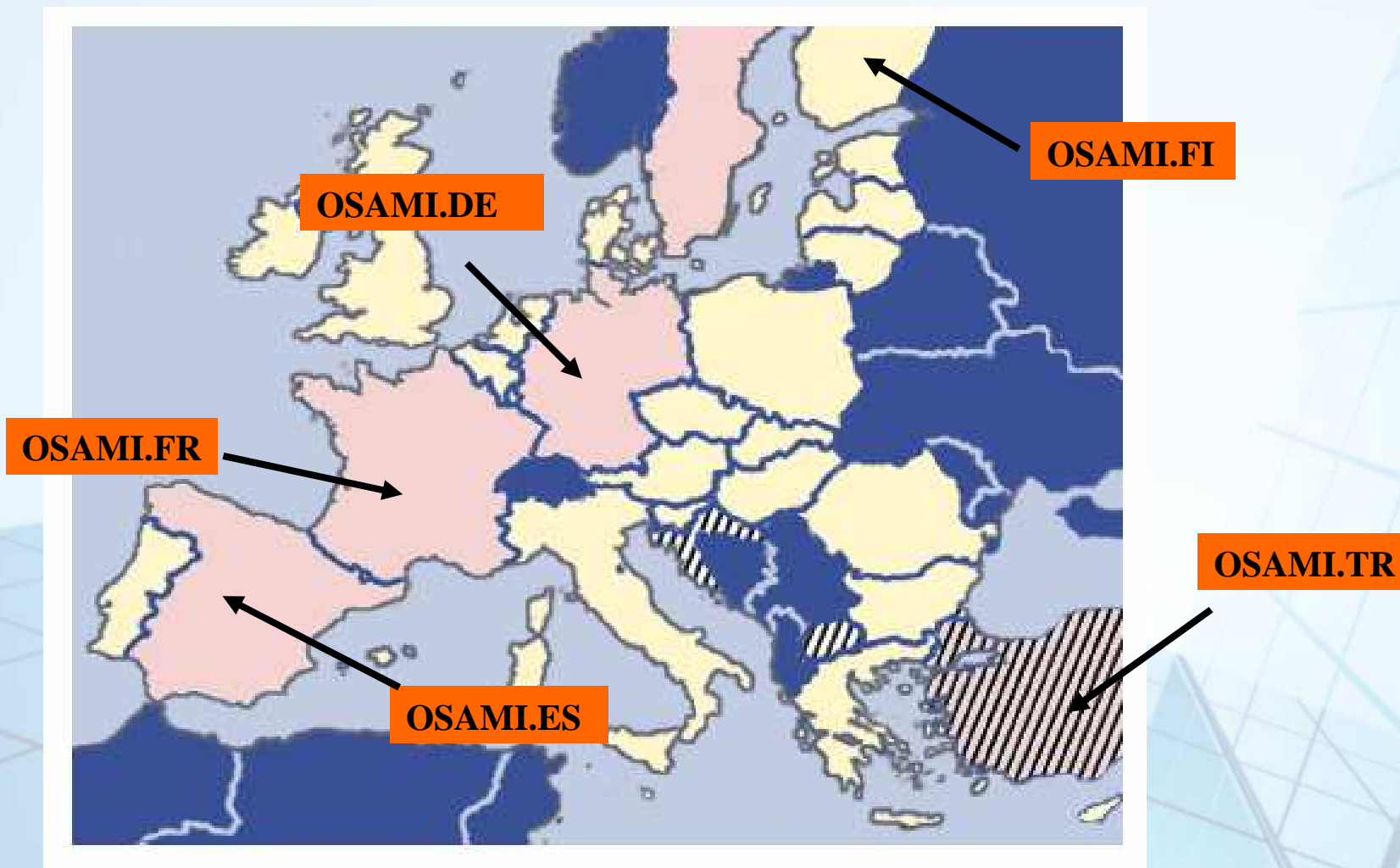
(Full Project Proposal)

Derivation



Approach for building the commons

National sub-consortiums





- **National Sub-consortiums**
centre of gravity of the interest:

- OSAmI-DE Ambient Assisted Living
- OSAmI-ES Interoperable Internet Gateways
- OSAmI-FR Efficient Energy
- OSAmI-FI Mobile Domain
- OSAmI-TR Tools and City Services

Approach for Building the Commons

The Issues & Options



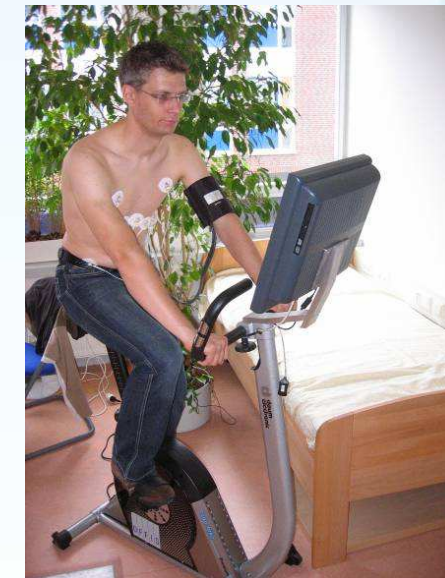
Ambient City Services



Ambient Energy Efficiency



Ambient Edutainment



Ambient Assisted Living

Ambient efficient energy

Context and objective



- **Smart building management**
 - Energy consumption/production monitoring
 - Energy wastes alerting (bulbs...)
 - Efficiency criteria checking
 - Efficiency against time evaluation

- **Demonstrate OSAMI-Commons suitability in such context**
 - Medium/large scale sensor-network management
 - Monitoring middleware
 - Value-added services design ease

Ambient efficient energy Partnership



- **INEED: green-building knowledge center**
 - Chamber of Commerce of La Drôme
 - Located in Valence (France), near Valence TGV station
- **High Environmental Quality building**



Ambient Edutainment

Context and objective



This personality has associated one subscenario called “*Learning assets development and deployment*” scenario with the following implemented services:

- **T-Maestro teacher service**

- Courses creation
- Courses publication

- **T-Maestro student service**

- Courses deployment
- Courses accesibility
- Courses adaptability

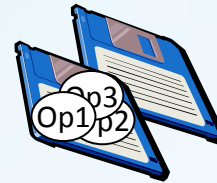
Fun &
Learn

Ambient Edutainment Architecture



Course creator

T-Maestro teacher service



Adaptable course contents



Learning contents server

Adaptive SCOs creation

Adaptive course creation

Attribute	Value
identifier	The order of adjectives
performance element	adjectives-exercises
is visible	true
Parameters	

Metadata bundle

Bundles repository

Approach for building the commons Strategy



OSAmI is a project with:

- large international project
- large national consortia with different timings
- national-specific contractual obligations & reporting
- commons are backed by a strong community
- huge variety of application domains

Approach towards the commons



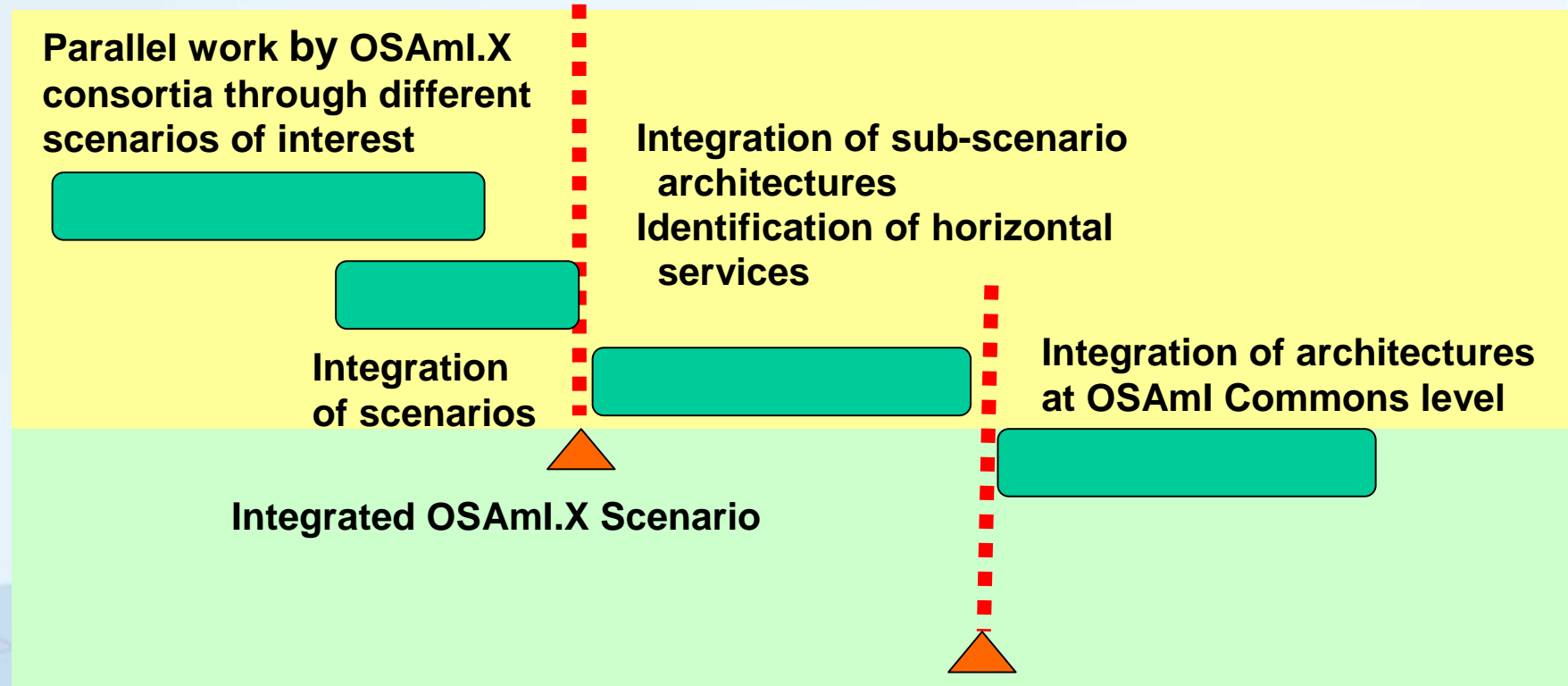
Loosely coupled process facilitating the integration:

- Domain-driven approach
- Iterative
- Taking advantage of the qualities founded in architecture (modularity, OSGi based)

National approaches reflect two related cycles

- OSAmI.X integration
- OSAmI Commons integration

OSAmI.X approach





OSAmI Project Overview

Prometeo General Assembly

“Thank you for your attention”