

Services & Applications Living Lab

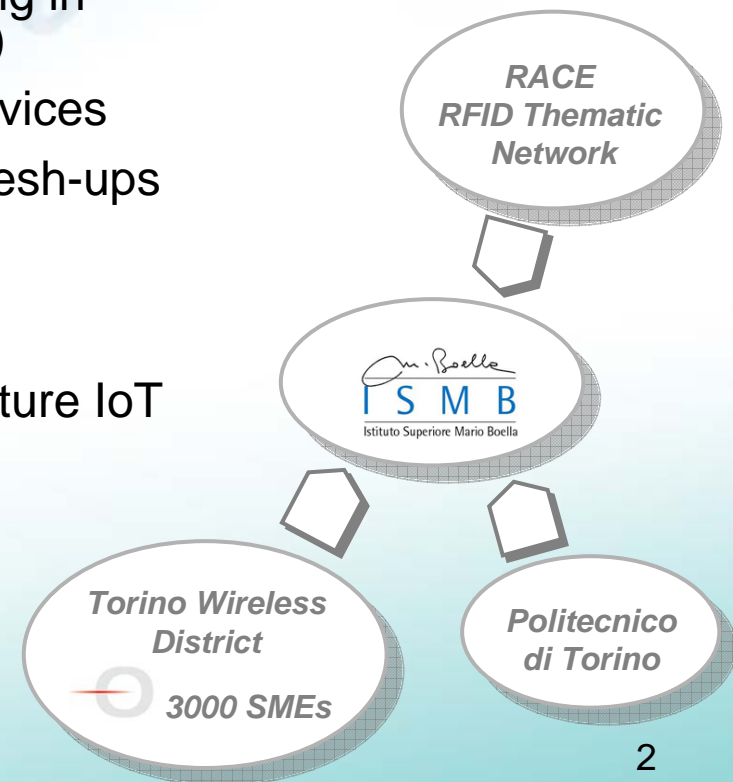


Event based Middleware for the Future Internet

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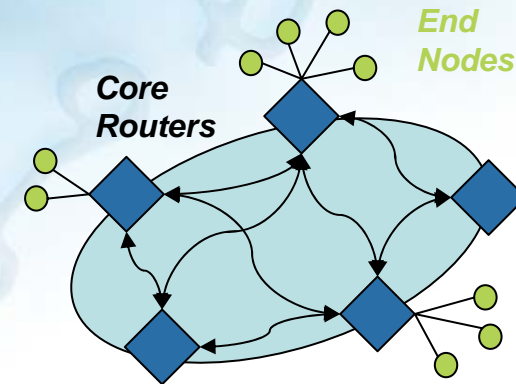
Services & Applications Lab

- Research areas
 - The Internet Things
 - Distributed event systems / RFID Middleware
 - Rapid prototyping of smart objects (helping in disabilities, logistics, smart environments)
 - Mobile collaboration, presence based services
 - Web 2.0: cloud computing and service mesh-ups
- Offering
 - Partnership in projects for building the Future IoT
 - Active integrated research ecosystem, connecting a wide network of SMEs, local academia and European networks

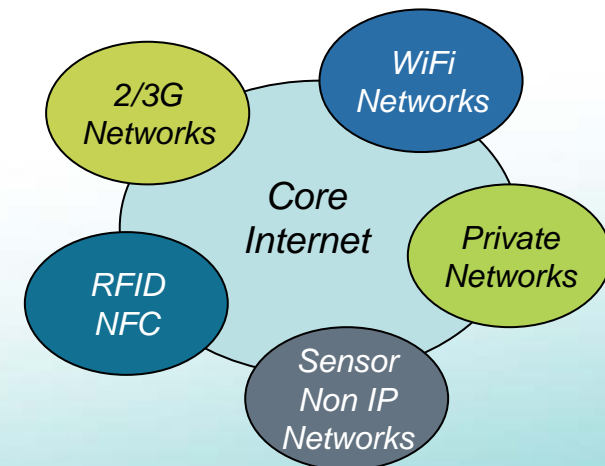


The Future Internet: Vision

- Pervasive connected objects
 - The traditional Internet and its service still play a core role
 - New networks are being added at the boundaries but are still isolated islands
- Overlay networks
 - Enabling technology for any mobile application (related to infotainment, well being, collaboration)
 - Providing uniform identity management and end to end interoperability



Logical view



Physical view

Applications of the Future Internet

- **Complexity of pervasive applications**
 - Different access media (web, messaging, multimedia, ...)
 - Ubiquity and nomadicity of connections (WiFi, NFC, sensor networks, 3G, ...)
 - Distributed state (mesh up of different technologies)
 - Mismatch of formats and identity management
- **Real time event MW**
 - Hot pluggable business logic (“reactors”)
 - Hooks for consuming 3rd party services
 - Uniform naming for devices, sensors and users
 - Supporting federation

