A Project Introduction

Uwe Holzmann-Kaiser

Technical Manager

GOVERNMENTS ENABLED WITH IPv6

GEN6

cip competitiveness and innovation framework programme 2007-2013

ICTPSP

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Project Data

- ICT PSP call 2011
  - Pilot Type B
  - Objective: 4.3 Piloting IPv6 upgrade for eGovernment services in Europe

- Budget: 6.000.000 Euros with 50% funding by

  European Commission

  Information Society and Media Directorate General Unit F4 – New Infrastructure Paradigms and Experimental Facilities

  IPv6:
  http://ec.europa.eu/information_society/policy/ipv6/index_en.htm

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Project Members

- Germany: Devoteam, Fraunhofer, Citkomm
- Spain: Consulintel, UMU, MPTYAP, MITYC
- Turkey: Tubitak Ulakbim, TURKSAT
- Luxembourg: University of Luxembourg
- Slovenia: ULFE
- Netherlands: TNO
- Greece: GRNET, CTI
- Cyprus: INTELEN

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Project Objectives

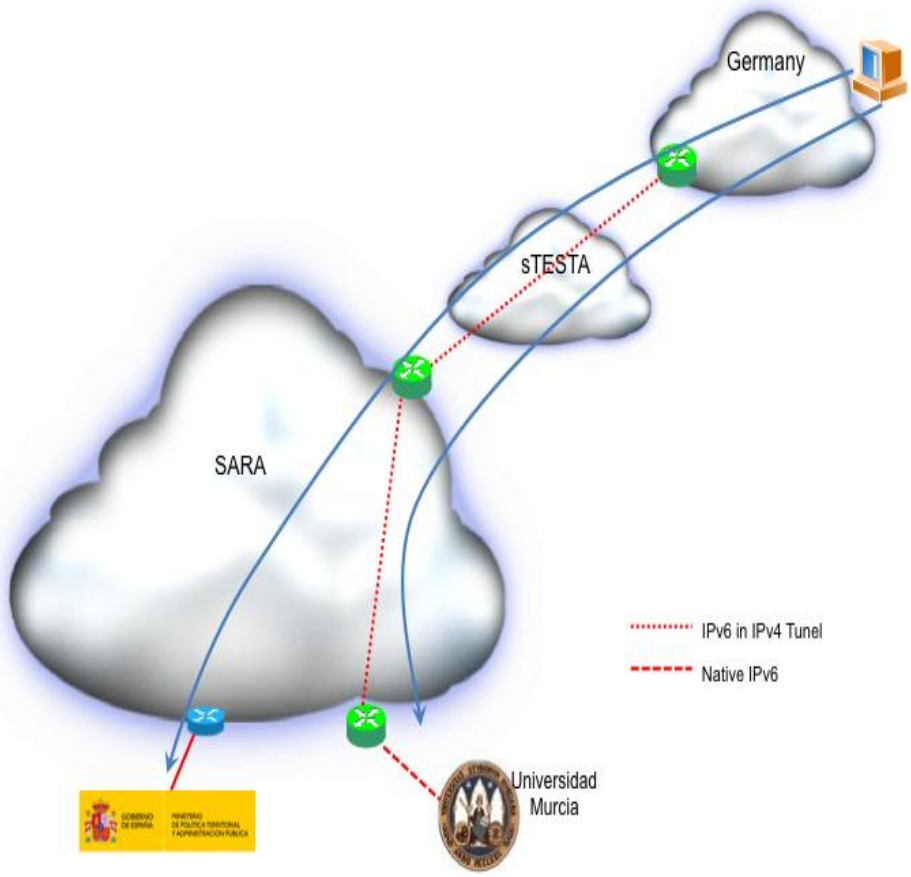
- GEN6 will provide general guidelines for planning and transition steps.
  - **IPv6 networks topologies and addressing types**
  - **IPv6 addressing technologies and addressing plans for Governments**
  - **IPv6 transition technologies and support**
  - **IPv6 deployment support**
- The outcome of the national pilots will contribute to these guidelines and will provide additional documentation based on transition experience in the fields of:
  - **network equipment (switches, router, firewalls, load balancers, …)**
  - **network provider access points (CPE, fiber, xDSL, …)**
  - **middleware and technologies like webservers, portals, databases**
- Besides the technical documentation, the national pilots will document their efforts and costs for the transition and estimate possible benefits from the IPv6 upgrade.

Project National Pilots

- 4 different national pilots, some of them replicated in a complementary way in different countries, considering different existing approaches with IPv4:
  - **IPv6 upgrade of eGovernment Network Infrastructures, e-Identification, Services and Applications (Germany, Spain, Netherlands and Turkey).**
  - **IPv6 upgrade of Secure Cloud Services (Luxembourg).**
  - **IPv6 upgrade of Energy Efficiency in School Networks (Greece).***
  - **IPv6 upgrade of Emergency Response Environments (Slovenia).***

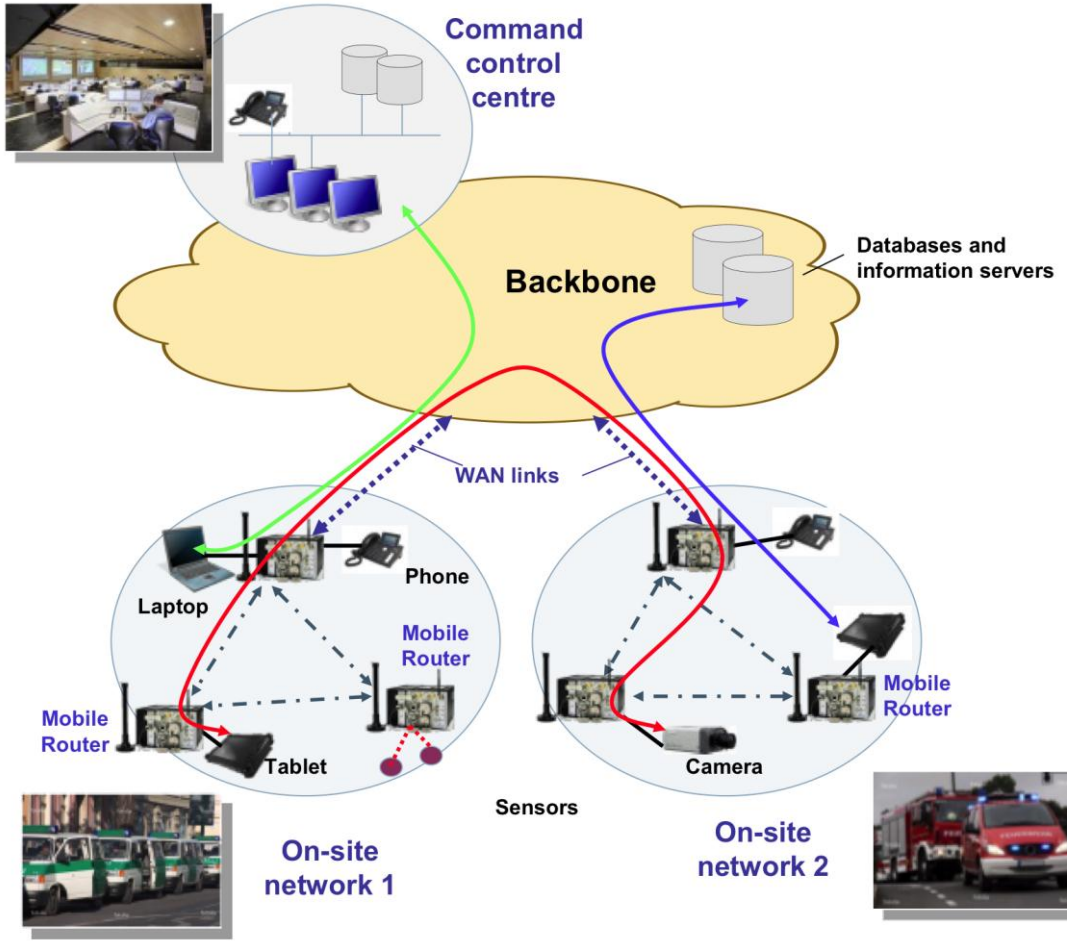
Project Cross-Border Pilots

- **Interconnection of national government backbones and European networks like sTESTA, in order to ensure a wider IPv6 readiness and interoperation for European cross-border services.**



Cross-Border Public Safety

Public Safety Networks exploiting the greater benefits brought in to this critical sector by IPv6 features (such as “on the fly networking”).



Project Outcome

- GEN6 will provide general guidelines for planning and transition steps.
  - IPv6 networks topologies and addressing types
  - IPv6 addressing technologies and addressing plans for Governments
  - IPv6 transition technologies and support
  - IPv6 deployment support
- The outcome of the national pilots will contribute to these guidelines and will provide additional documentation based on transition experience in the fields of:
  - network equipment (switches, router, firewalls, load balancers, …)
  - network provider access points (CPE, fiber, xDSL, …)
  - middleware and technologies like webservers, portals, databases
- Besides the technical documentation, the national pilots will document their efforts and costs for the transition and estimate possible benefits from the IPv6 upgrade.

Project Dissemination

- Communication activities and road shows to ensure the dissemination in public administrations and other relevant stakeholders (targeted to experts and public authorities).
- Event organized in Brussels together with the EC
- Book with the project results.
- Publications, Internet presence (web site, Facebook, twitter) and presentations with special focus on eGovernment events, as well as clustering activities.