Project Overview

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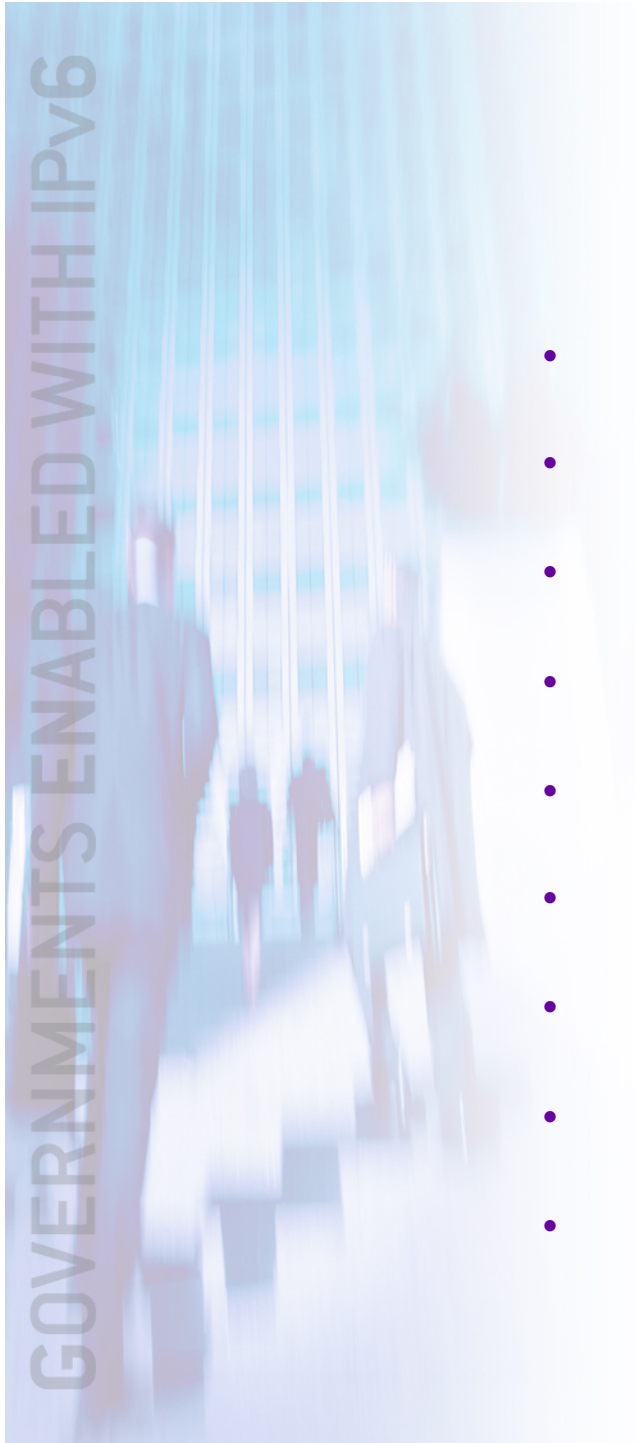
GOVERNMENTS ENABLED WITH IPv6
GEN6

cip competitiveness and innovation framework programme 2007-2013

ICTPSP

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

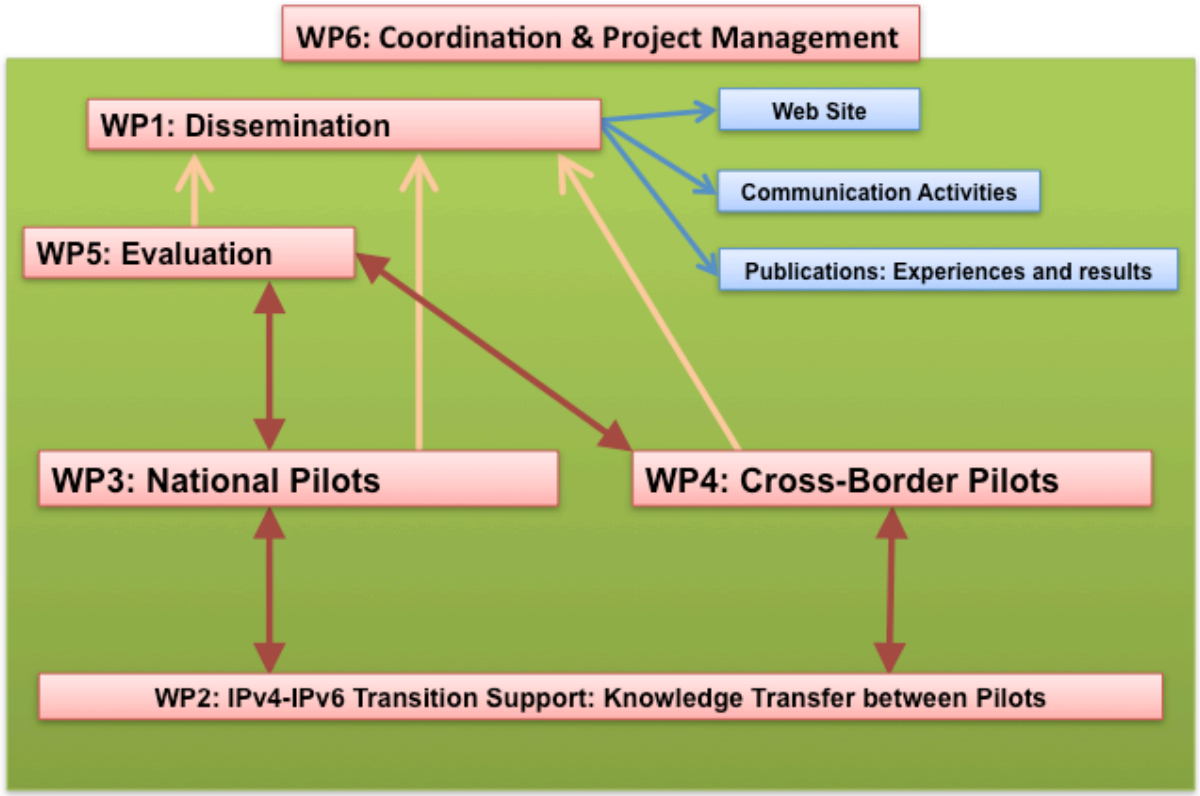
- **6.000.000 Euros, 50% funding**



Partners

- **Germany:** Devoteam, Fraunhofer, Citkomm
- **Spain:** Consulintel, UMU, MPTYAP, MITYC
- **Turkey:** Tubitak Ulakbim, TURKSAT
- **Luxembourg:** UL
- **Slovenia:** ULFE
- **Netherlands:** TNO, Gemeente Alkmaar
- **Czech Republic:** MVČR, MoIT, CZNIC
- **Greece:** GRNET, CTI
- **Cyprus:** INTELEN

Approach


WP6: Coordination & Project Management
WP1: Dissemination
Web Site
Communication Activities
Publications: Experiences and results
WP5: Evaluation
WP3: National Pilots
WP4: Cross-Border Pilots
WP2: IPv4-IPv6 Transition Support: Knowledge Transfer between Pilots

- 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 service, Facebook, twitter) and presentations with special focus on eGovernment events, as well as clustering activities.

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- **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
  - Development of an European IPv6 profile for public administration
- **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.**

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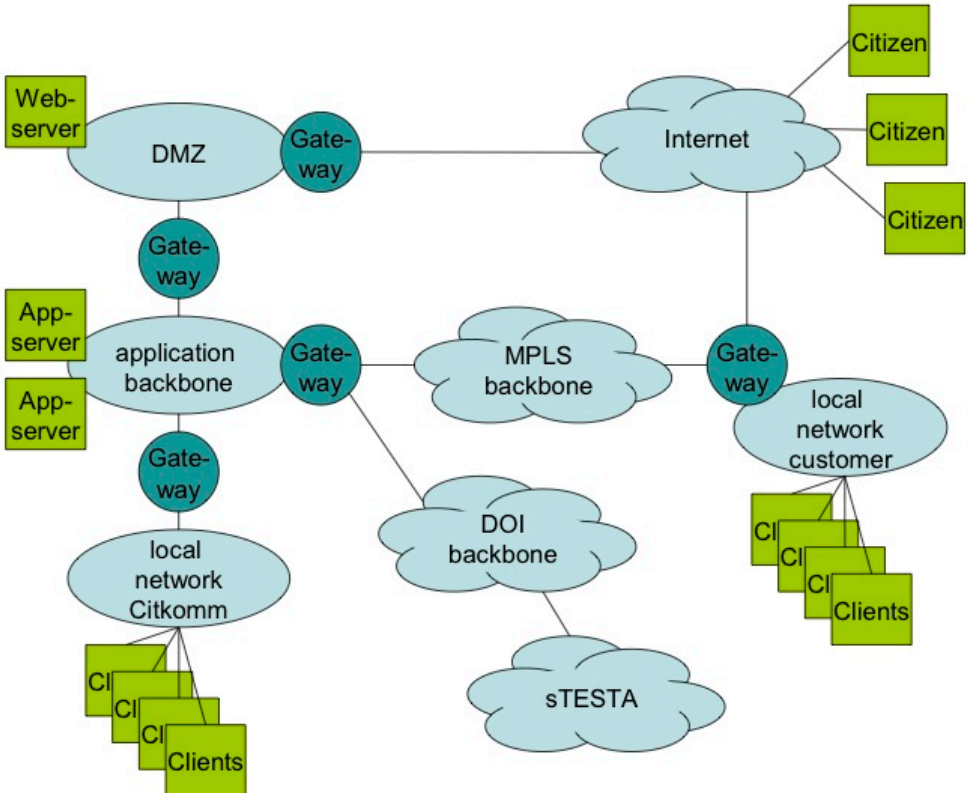
- **4 different national pilots, some of them replicated in a complementary way in different countries, considering different existing approaches with IPv4:**
  - IPv6 upgrade of eGovernment Network Infrastructures, e-Identification, Services and Applications (Germany, Spain, Netherlands and Turkey).
  - IPv6 upgrade of Secure Cloud Services (Luxembourg).
  - IPv6 upgrade of Energy Efficiency in School Networks (Greece).
  - IPv6 upgrade of Emergency Response Environments (Slovenia).
- **Replicating many aspects of the pilots across different existing infrastructures in different countries, that have different approaches, allows more alternatives to be tested in real scenarios, providing a broader view for the replication of the project results across Europe, while actually the project approach reduces the cost, because of the parallel learning and knowledge exchange among partners, and maximizes the impact of the resources involved in the project.**

Germany


Citizen
Citizen
Citizen
Web-server
DMZ
Gate-way
Internet
Gate-way
App-server
application backbone
Gate-way
MPLS backbone
Gate-way
App-server
local network customer
Gate-way
DOI backbone
local network Citkomm
Cl
Cl
Cl
Clients
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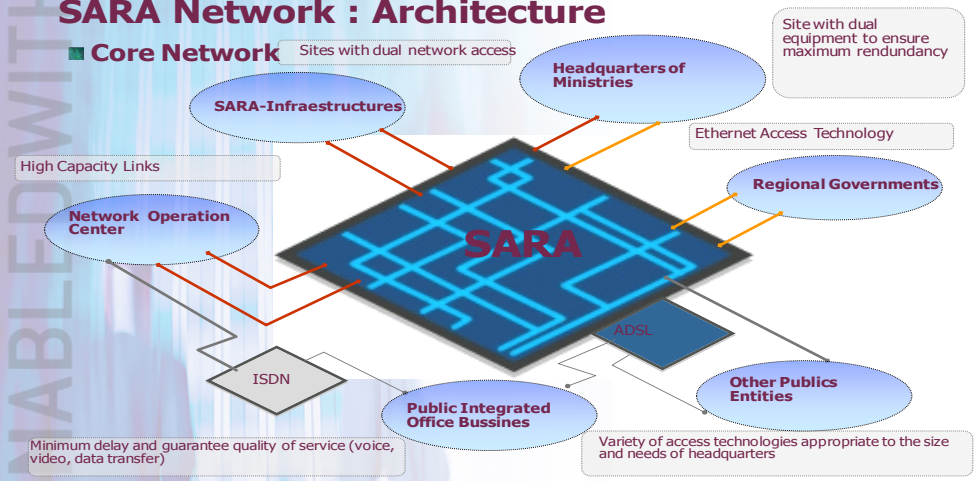
Cl
Cl
Clients
sTESTA

Spain

GEN6

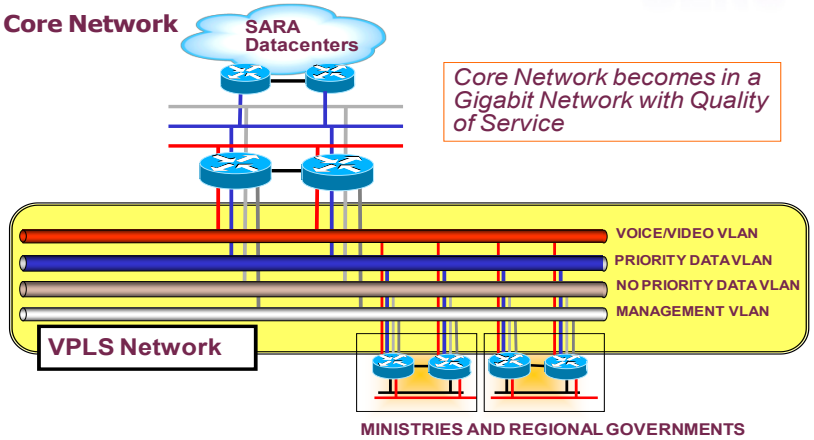
SARA Network : Architecture

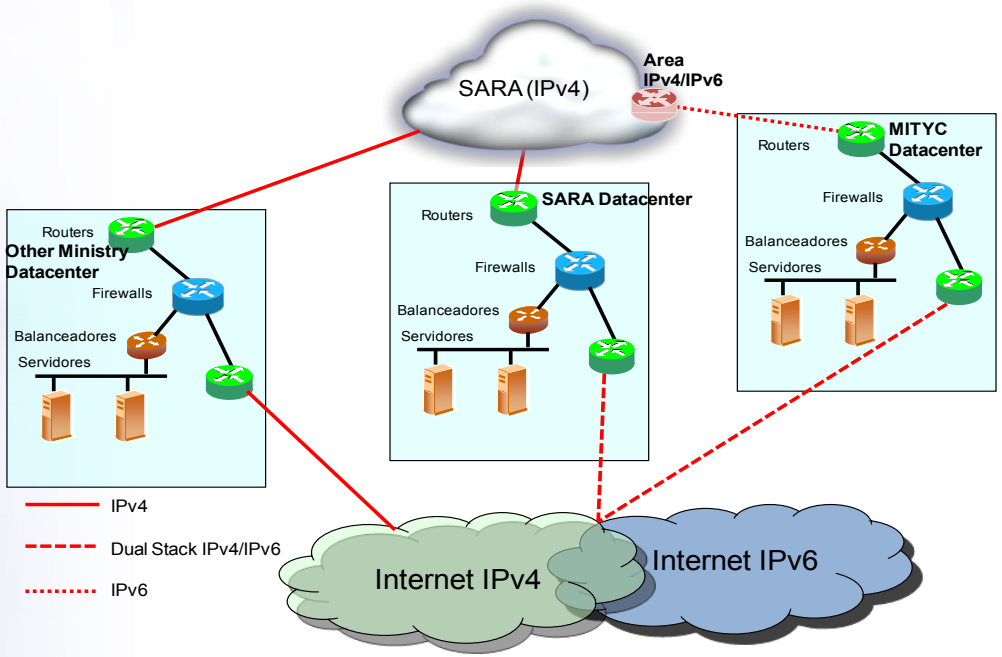
- Core Network

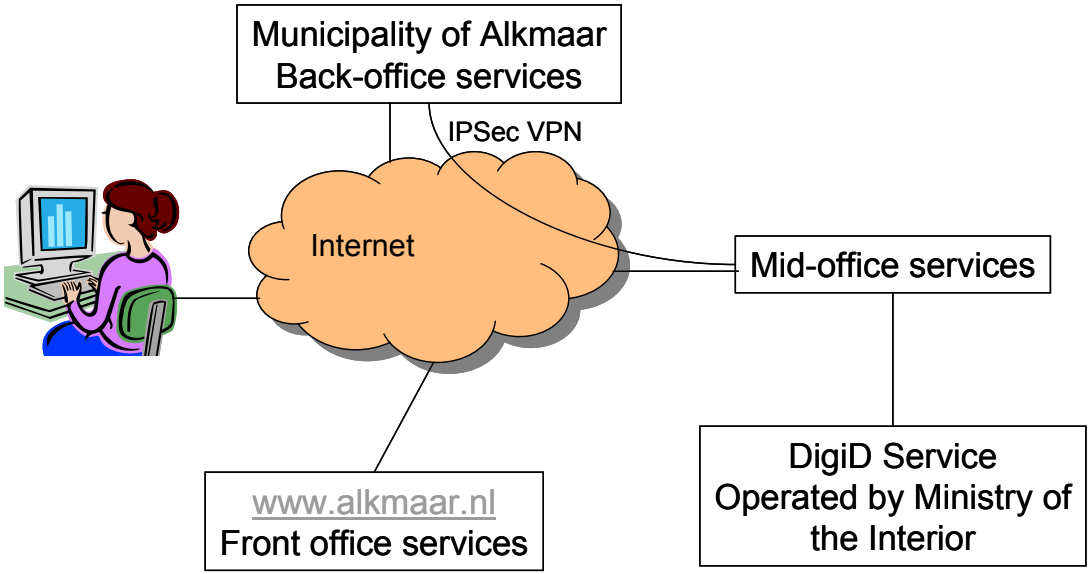


SARA Network : Architecture

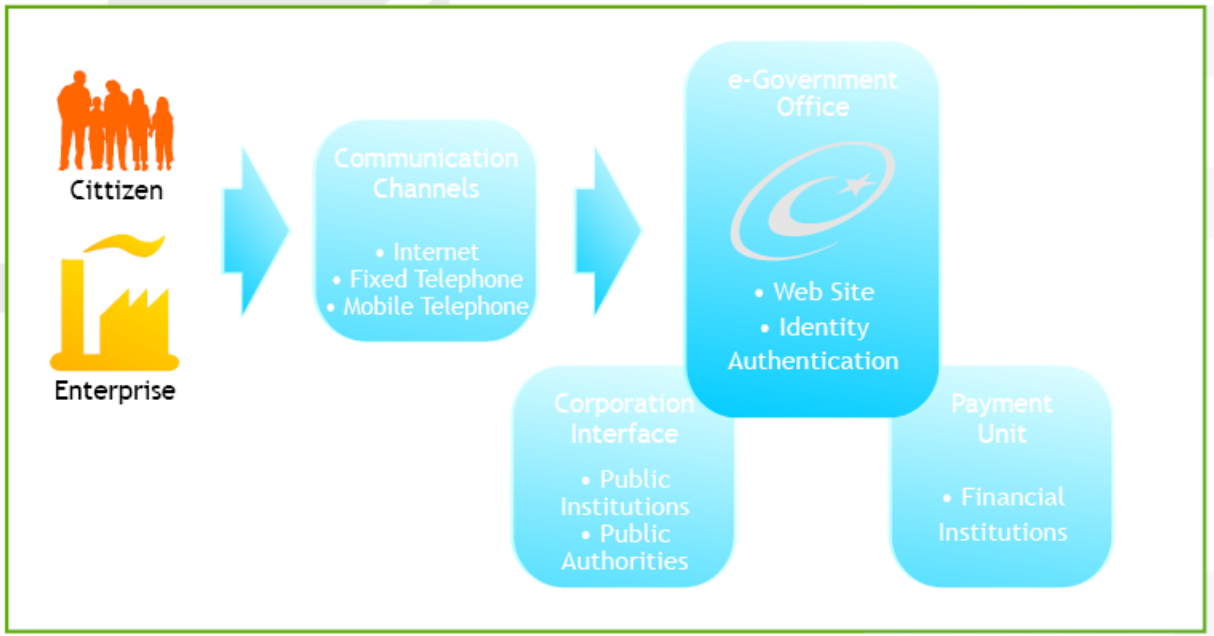
- Core Network



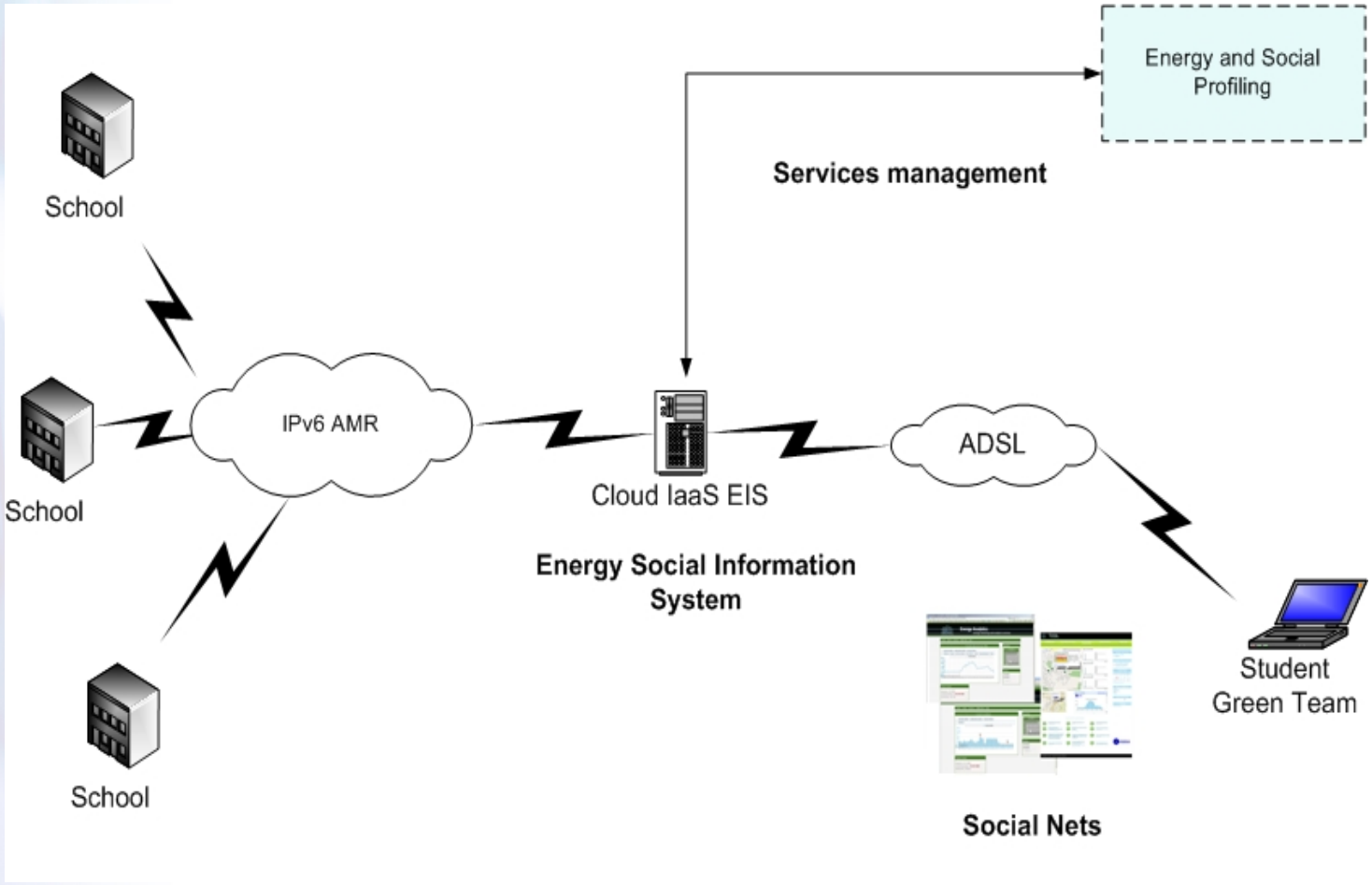



Municipality of Alkmaar
Back-office services
IPSec VPN
Internet
Mid-office services
www.alkmaar.nl
Front office services
DigiD Service
Operated by Ministry of
the Interior

Turkey


Cittizen
Enterprise
Communication Channels
• Internet
• Fixed Telephone
• Mobile Telephone
e-Government Office
• Web Site
• Identity Authentication
Corporation Interface
• Public Institutions
• Public Authorities
Payment Unit
• Financial Institutions

Greece


Energy and Social Profiling
Services management
School
School
School
IPv6 AMR
Cloud IaaS EIS
ADSL
Energy Social Information System
Student Green Team
Social Nets

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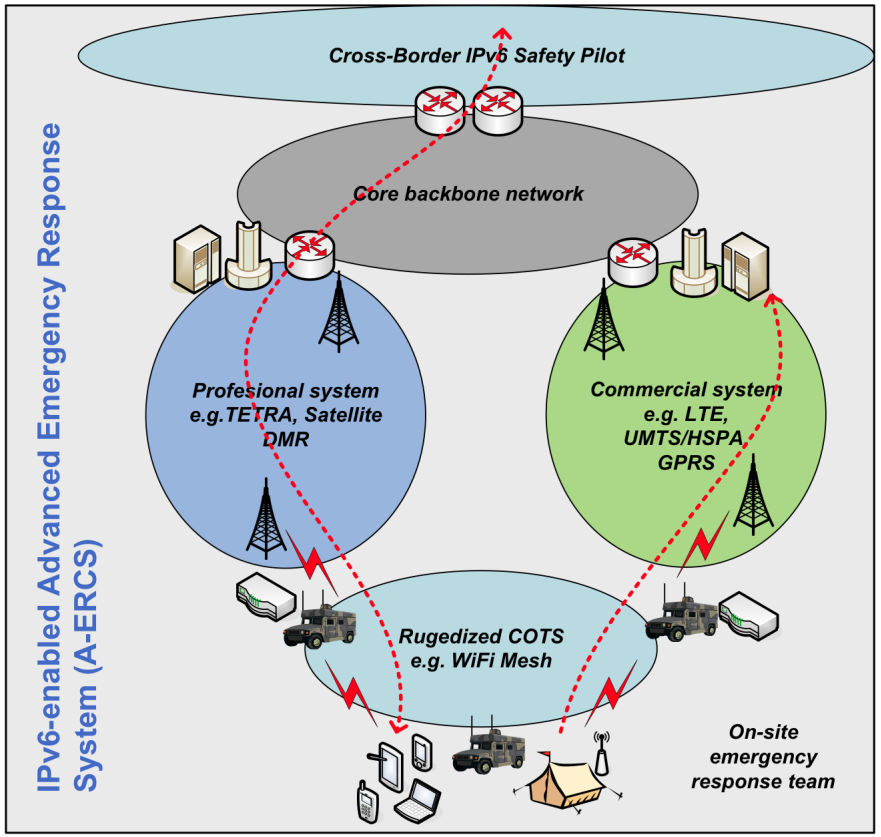
Slovenia



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

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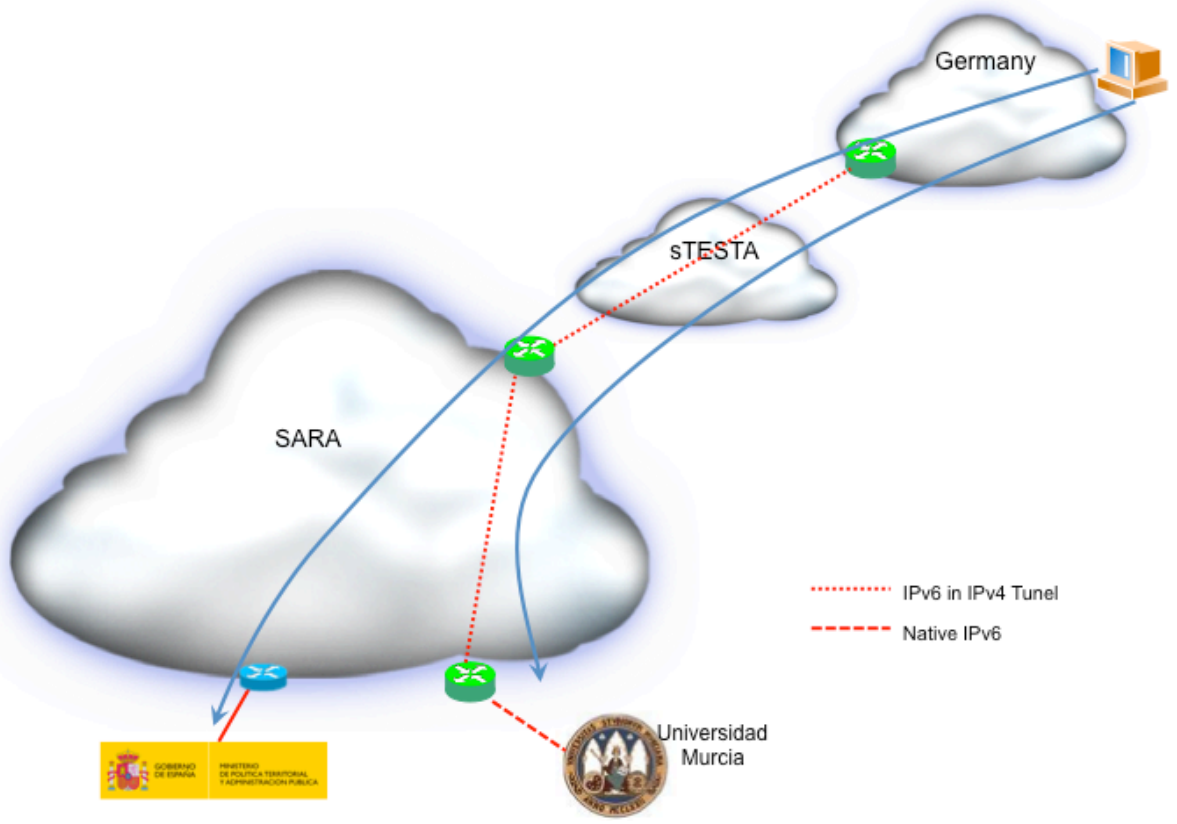
Cross-Border Public Safety



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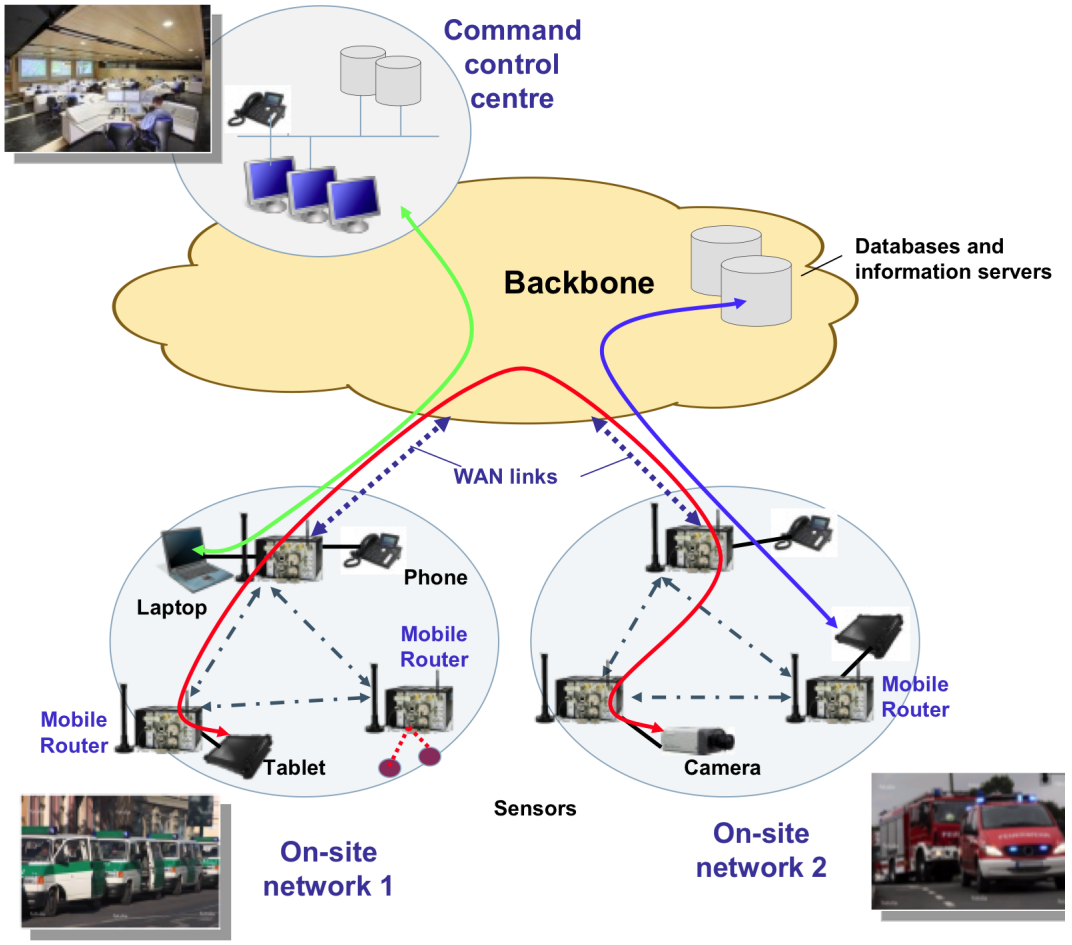
Cross-Border Public Safety



- Every national and cross-border pilot has a detailed project plan with a breakdown of activities.
- A specific Work Package takes care of the evaluation and monitoring of each of the pilots.

- Many governments in the project are “IPv6-ready” (Spain, Germany, Netherlands, Turkey, Slovenia, Luxembourg, Check Republic).
- The work is to continue the deployment and mainly take advantage of new IPv6 features for eGovernment.