



Lisbon 9.4.2015

GEN6

The Idea ---- The Results



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This project has received funding from the European Union's



European Commission



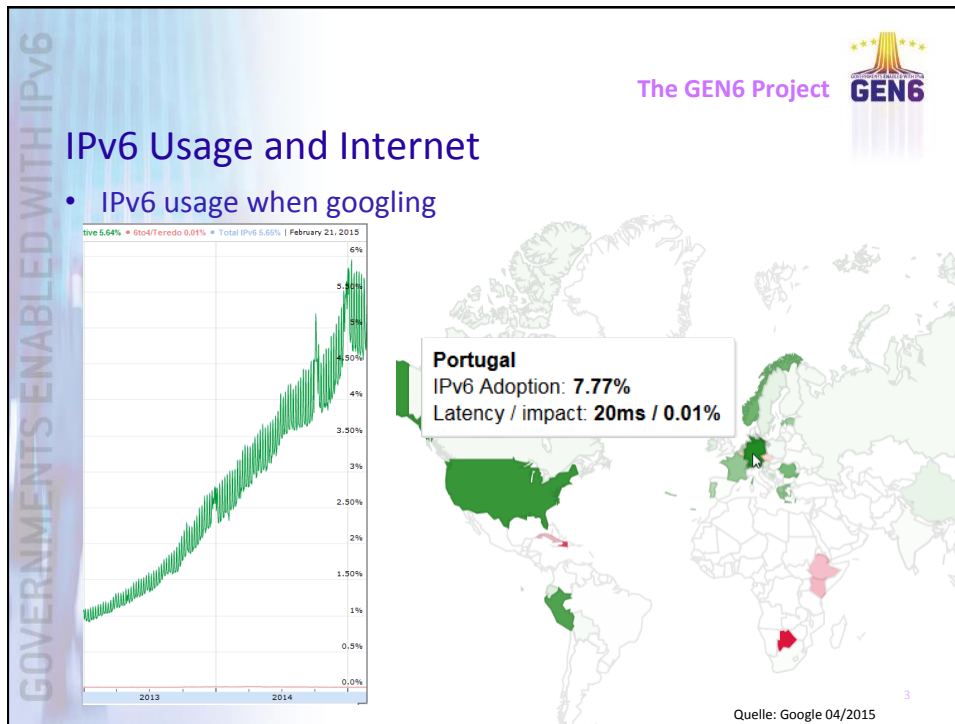
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Project Data

- ICT PSP call 2011
 - Pilot Type B
 - **Theme 4: ICT for Innovative government and public services**
 - 4.3: Piloting IPv6 upgrade for eGovernment services in Europe
 - From 2012-01-01 to 2015-05-31
 - Funded by
European Commission Directorate General for Communications Networks, Content & Technology. Short: **DG CONNECT**.

<http://www.gen6-project.eu>

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



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- Project partner from:
 - Cyprus
 - Czech Republic
 - Germany
 - Greece
 - Luxembourg
 - Netherlands
 - Portugal
 - Slovenia
 - Spain
 - Turkey


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Project Objectives/Results

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- GEN6 provides 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 pilots provides additional documentation based on transition experience in the fields of:
 - network equipment (switches, router, firewalls, load balancers, ...)
 - network provider access points (CPE, fibre, xDSL, ...)
 - middleware and technologies like webserver, portals, databases
- Self Assessment

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Project National Pilots

- Different national pilots, some of them replicated in a complementary way in different countries, considering different existing approaches.
 - National strategies: Germany and Spain
 - Greek Energy Efficiency School Project on IPv6
 - Emergency Response Systems from ULFE Slovenia
 - Monitoring and the Czech Way

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Turkey – Citizen Service Portal Transition

- Enabling IPv6 in e-Government Gateway (EGG) Portal
- Backend IPv6 support
 - Making necessary **software updates** (i.e. applications, operating systems) on services that are already on EGG.
 - Making necessary **hardware upgrades** where necessary.
 - Integrating new public services that are **not yet part of the EGG** over IPv6.



The screenshot shows the Türkiye.gov.tr website. At the top, there's a header with the logo and navigation links. Below that, there's a main content area with a large image of a hand using a calculator. To the left of the calculator, there's a sidebar with links to various services like 'Sorgulamalar', 'Başvurular', 'Belediye Hizmetleri', and 'İletişim Merkezi'. Below the calculator, there's a section titled 'Vergi borcu veya trafik cezası var mı?' with a button to 'Gönder'. At the bottom, there's a footer with various logos and links to different government services.

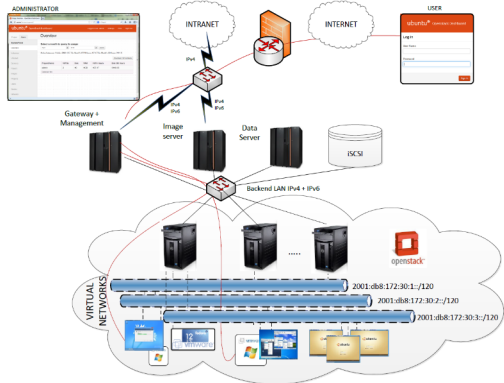
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Luxembourg – Secure Government Clouds on IPv6

Cloud technologies are being adopted by governments around the world, and IPv6 is here to stay. It is important to know what changes the transition to IPv6 triggers in the cloud network and how the security configuration of such a system can change.

The pilot is based on an open source cloud distribution used in a government setting, and examines its IPv6 support.

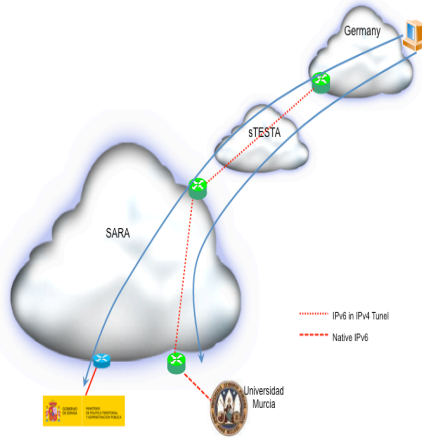


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Project Cross-Border Pilots

- Interconnection of national government backbones and European networks like sTESTA, in order to ensure a wider IPv6 readiness and interoperability for European cross-border services.
- Work with the national networks in order to make IPv6 enable the PEPs (Pan European Proxy Service) entities that are being used on STORK and STORK2.0 and that now are a key component of the end user authentication process based on national IDs.
- Public Safety Networks exploiting the greater benefits brought in to this critical sector by IPv6 features (such as "on the fly networking").



VPN: IPv6 in IPv6					IPv6 in IPv4 Tunnel (OpenVPN)		VPN: IPv4 in IPv4		Tunnel	Network / Operator
UMU	RED IRIS	Red SARA	sTESTA	DOI	Citkomm					


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IPv6 in Academia Networks

- Experiences of IPv6 implementation in existing academic networks
 - Best practices for implementation
 - Known challenges
 - Considering the specific environment of academia
- Driven by two complementary approaches
 - Karlsruhe Institute of Technology (KIT)
 - Instituto Superior Técnico (IST), Técnico Lisboa

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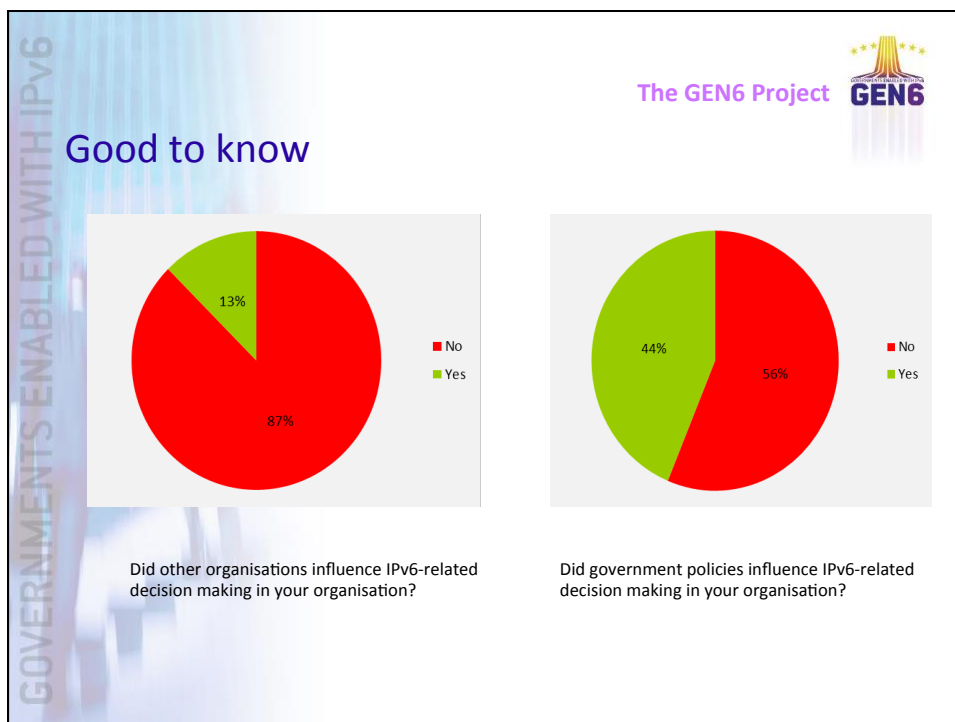
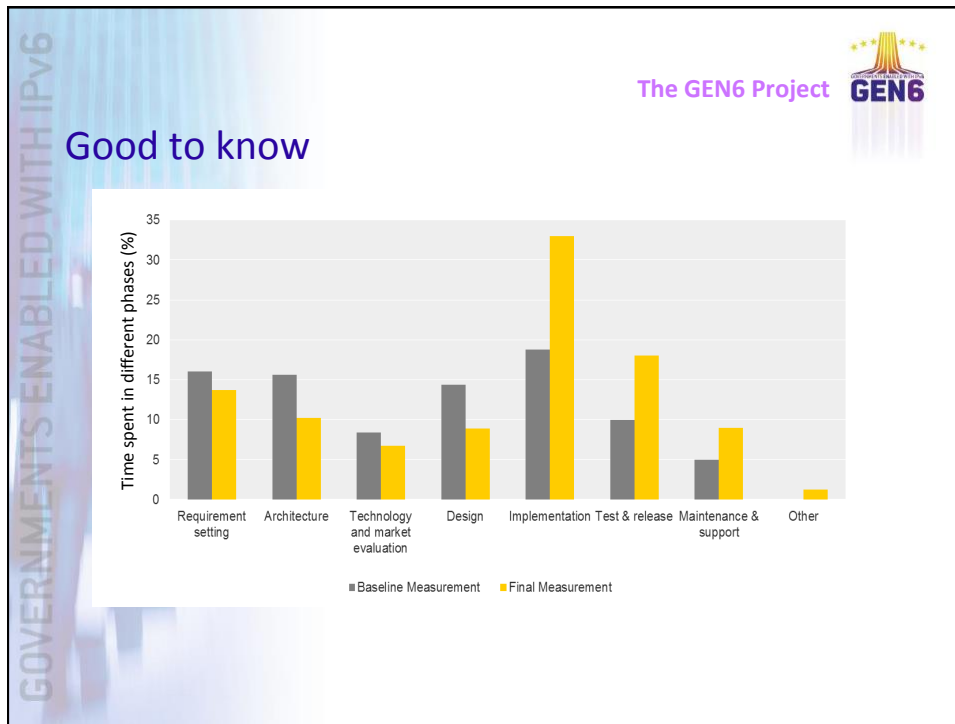
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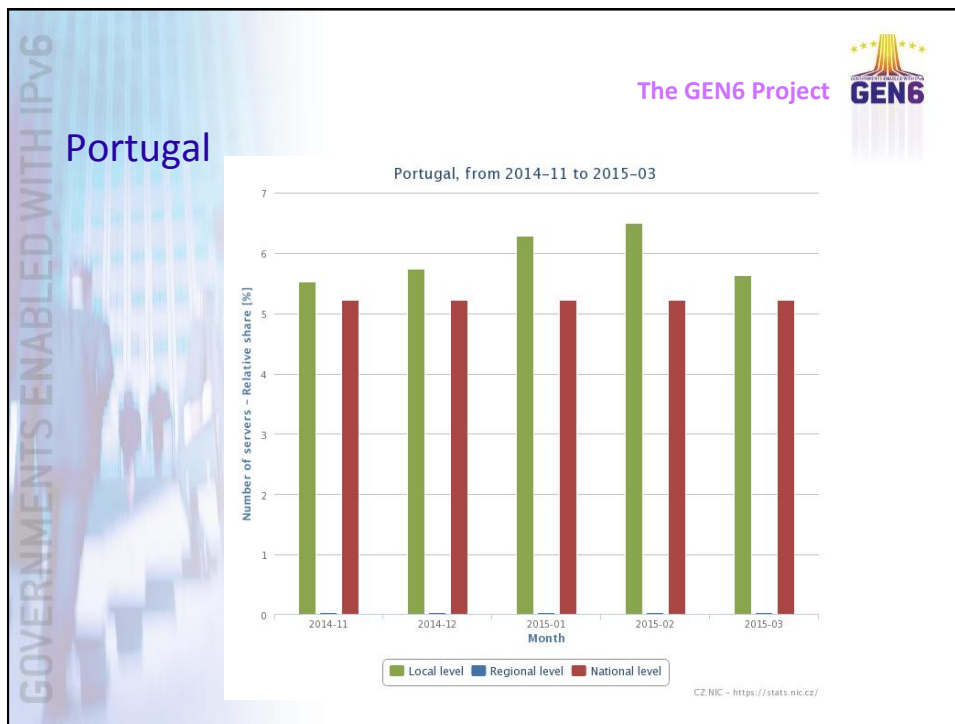
- Assignment of a /26 (plan /19) address space „de.government“
- First local IPv6 Pilots of the de.government address space
- Start Piloting IPv6 in DOI
- Start Implementation of SubLIRs
- Completion of the implementation of the LIR de.government
- Going into operations of IPv6 in DOI
- Implementation of Dual Stack
- Complete Implementation of SubLIRs

Timeline:

- Q4/09
- Q3/10
- Q4/10
- Q2/11
- Q4/11
- Q4/12
- Q4/14
- Q4/15 ??







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Thank you for your attention.

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18