

GOVERNMENTS ENABLED WITH IPv6

First UK IPv6 Council Meeting
IPv6 Policies & Deployment

Jiří Průša (CZ.NIC Association), London, 16/10/2014



CZ.NIC: Who are we?



- **Non-profit organisation** established by leading ISPs in 1998
- **Main task:** management of .CZ domain
- **Long-term vision:** increasing user-friendliness of the Internet
- **Other activities:**
 - Building Internet infrastructure and supporting new technologies: IPv6; DNSSEC; TURRIS router; IETF; mojeID single-sign-on...
 - Educational and awareness raising activities: TV spots: What's Internet For; book edition, IT Academy...
 - Partnership cooperation with the Czech government: Internet Governance issues; information security, EU projects (GEN6)...

GEN6 project: Introduction



- EU funded project (CIP ICT-PSP) focused on **IPv6 upgrade for eGovernment services** in Europe (DE, CY, CZ, ES, GR, LU, SI, NL and TR).
- **Project implementation:** 1 January 2012 – 31 December 2014

• Project objectives:

- Launch several **national and cross-borders pilots** (e.g. IPv6 upgrade of Emergency Response Environments);
- Provide **general guidelines** for planning and transition steps;
- Provide **additional documentation** based on transition experience in the fields of network equipment (switches, router, firewalls), network provider access points (CPE, fibre, xDSL ...);
- **Monitor progress** with IPv6 deployment in public administration;

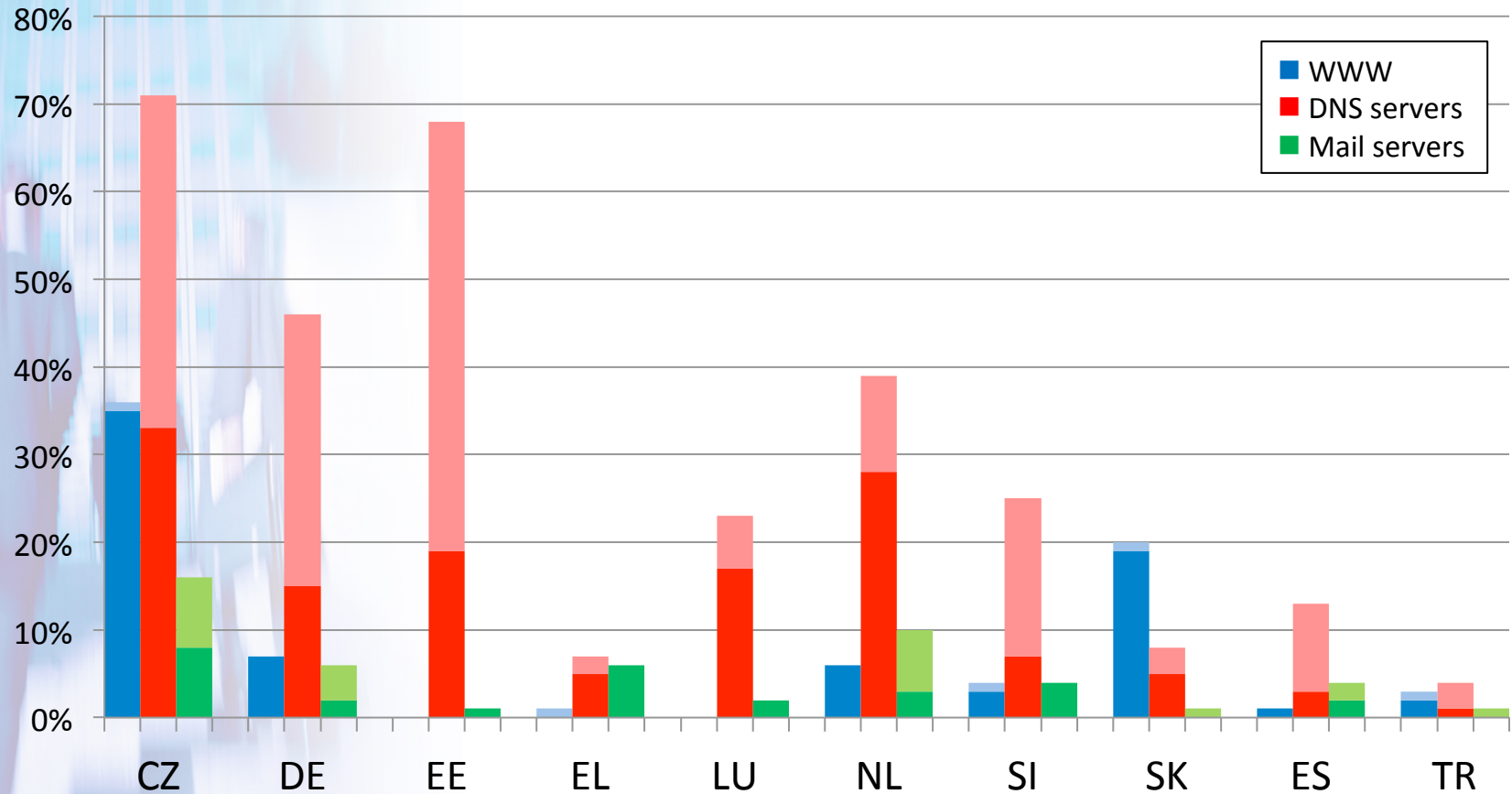
IPv6: Government Benchmarking



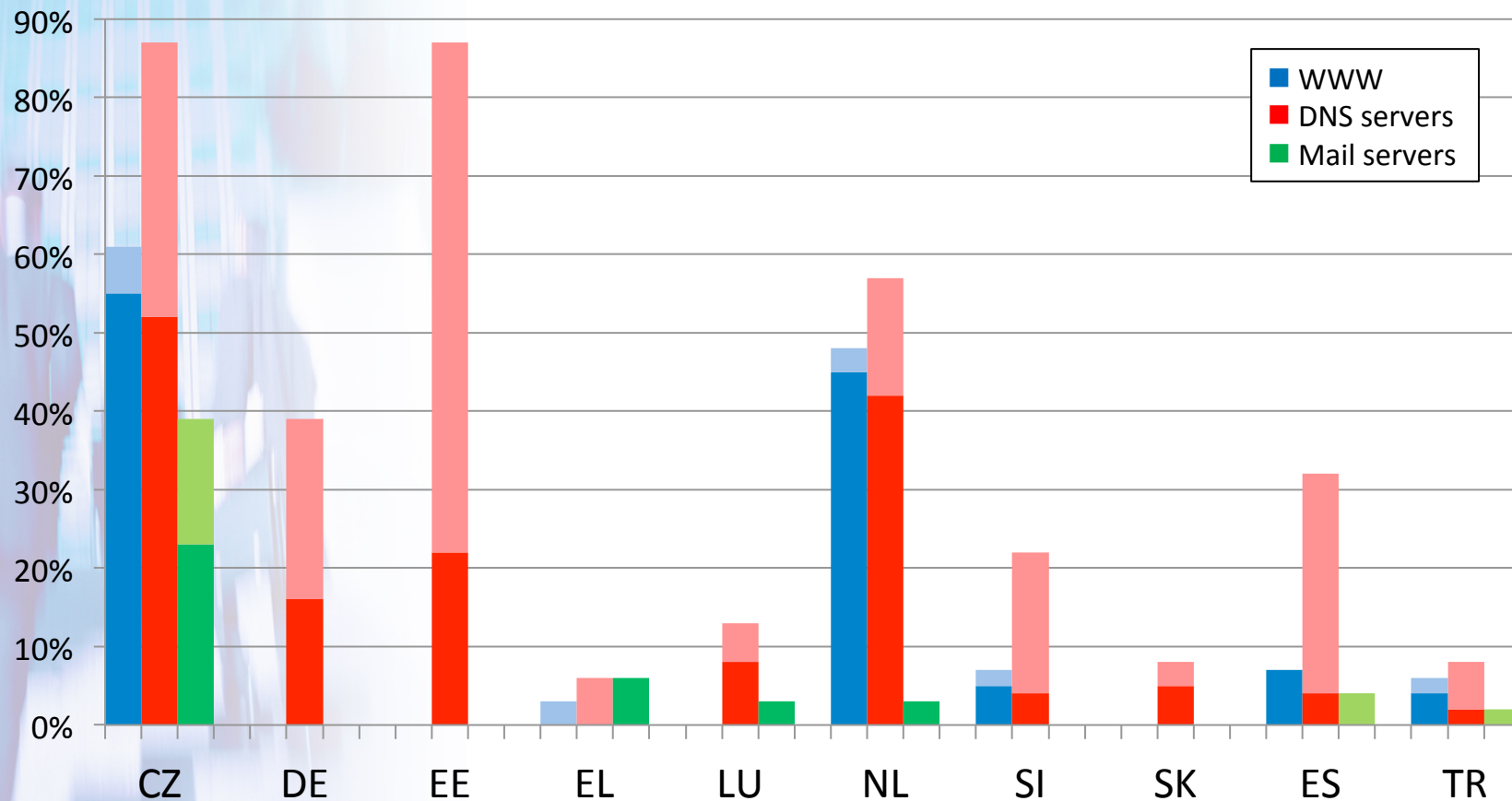
- Based on the **pilot project** in the **Czech Republic**, the GEN6 project **expanded** IPv6 readiness benchmarking to **other countries**.
- In order to compare the comparable, the **methodology** for collecting URLs was set up.
- Benchmarking involves **government institutions** at all levels **only**:
 - **National**: ministries, legislative bodies, judicial authorities...
 - **Regional**: representatives of regions (only in some countries)
 - **Local**: largest cities in each country
- **Data available for**: the Czech Republic, Estonia, Germany, Greece, Luxembourg, the Netherlands, Slovenia, Slovakia, Spain and Turkey.
- In total: **2 407 websites analysed** (400/137/1870)

Open
for UK

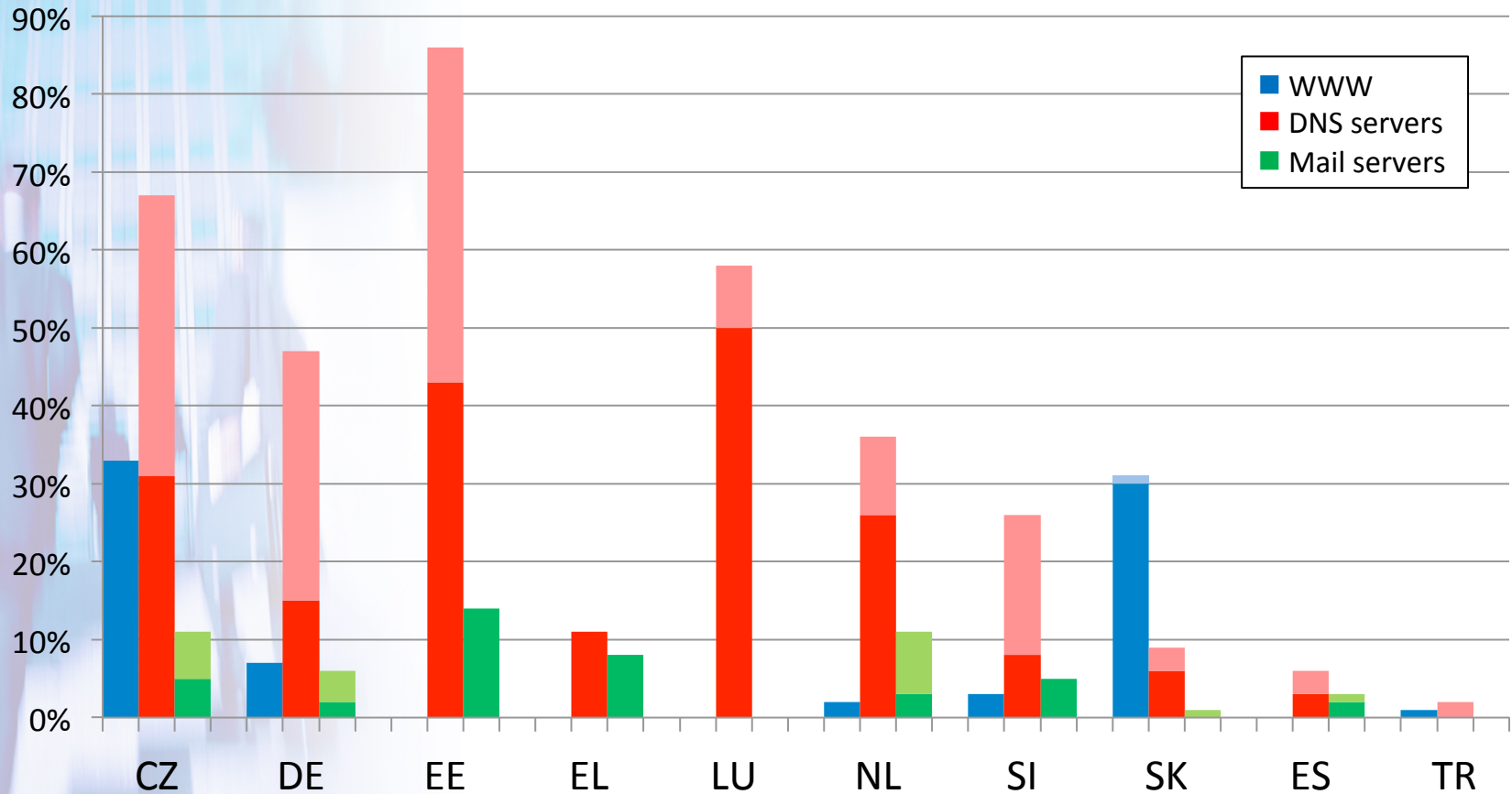
IPv6: Government benchmarking



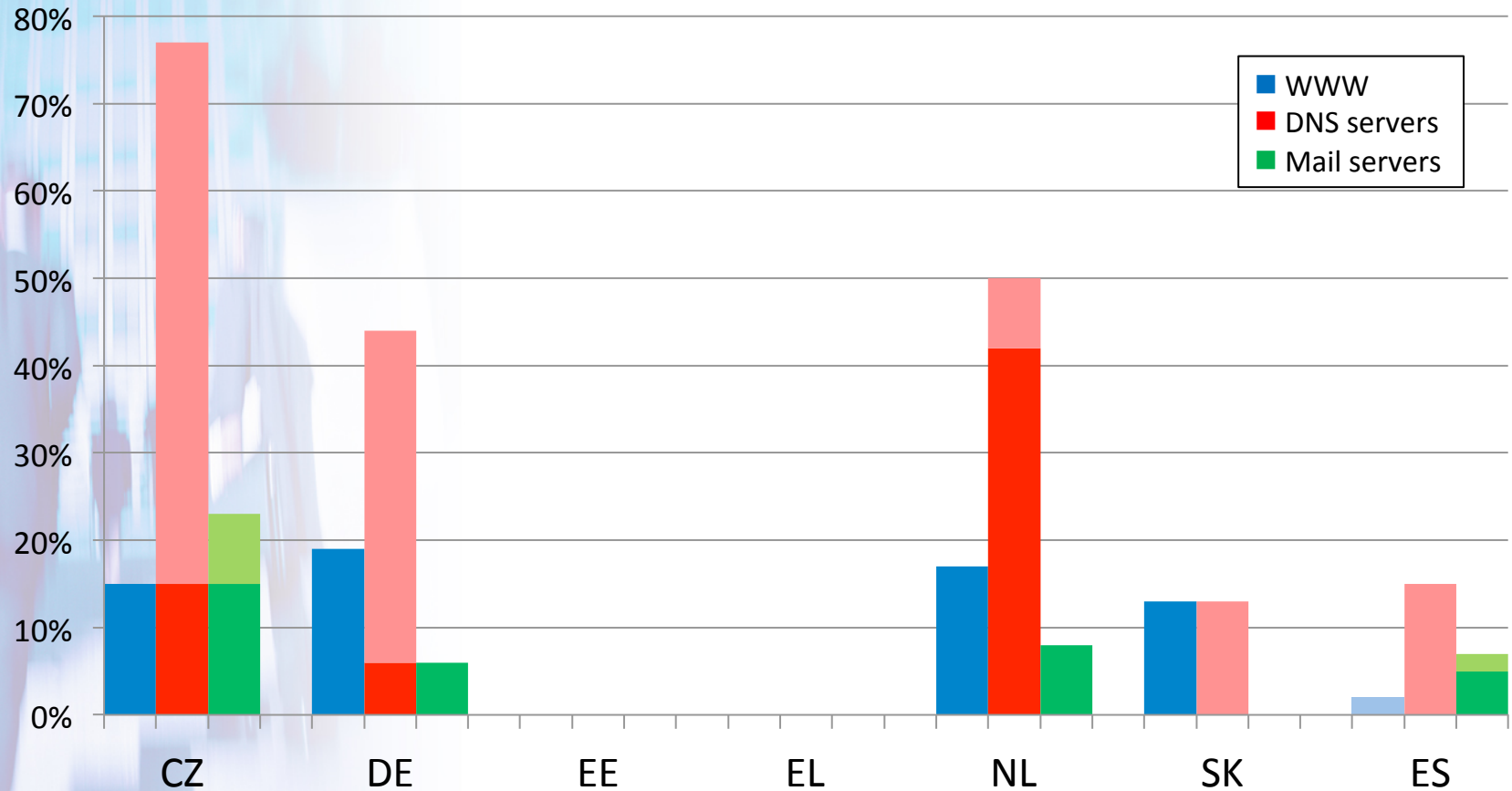
Government benchmarking: National Level



Government benchmarking: Local Level



Government benchmarking: Regional Level



IPv6 Government Policies in the Czech Republic



8 June 2009 : **Government Resolution** on IPv6

- IPv6 in public tenders on network infrastructure components (30/6/2009)
- Ensure availability of government websites via IPv4 and **IPv6** (1/1/2011)

20 March 2012 : **Digital Czech 2.0 Strategy**

- Wider government support for IPv6 deployment
- Internet Governance rules: preferring self-regulation

18 December 2013 : **Government Resolution** on IPv6 & DNSSEC

- IPv6 and DNSSEC in all relevant public tenders (1/1/2014)
- Availability of mail servers via IPv6 (1/3/2015)

19 December 2013 : **Guidelines for data traffic management**

- National telecom regulator declared IPv6 as a part of net-neutrality

IPv6 = net neutrality!

IPv6 Deployment in the Czech Republic



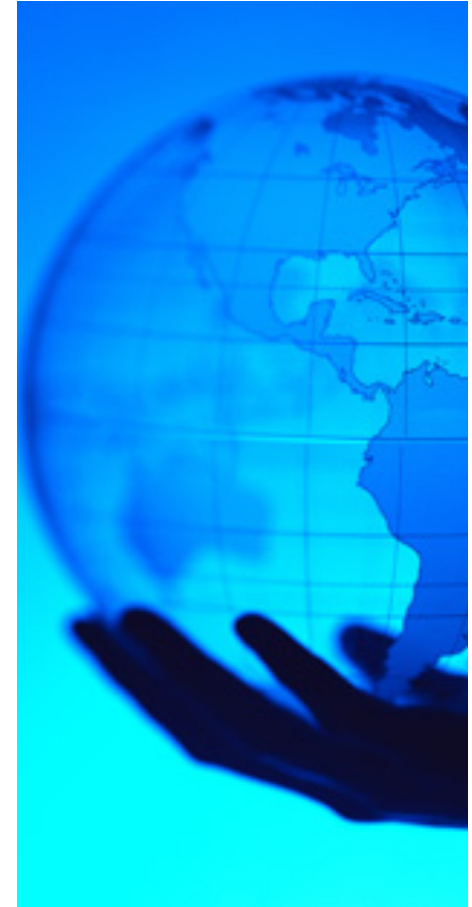
	WWW		DNS		E-mail	
	1/13	9/14	1/13	9/14	1/13	9/14
Central gov. institutions	19 %	64 %	55 %	79 %	19 %	57 %
Regional Governments	8 %	82 %	54 %	90 %	15 %	54 %
Cities	8 %	33 %	39 %	67 %	2 %	11 %
Average in .cz domain	15 %	22 %	51 %	60 %	13 %	16 %

- **Legislation has the power to support IPv6 deployment** – institutions affected by government resolution have more than twice higher IPv6 support by web-servers than is the national average. The IPv6 deployment by public administration is quicker than by the rest of the country including private companies.
- Involvement of IPv6 criterion in various „**the best website**“ **competitions** has similar effect with minimum effort!

How to encourage IPv6 deployment?



- **Involve IPv6 in policy documents** (e.g. regional strategies) and national **legislation**.
- Demand **IPv6** if you **provide public money** for IT projects.
- **Always require IPv6 support in RFP documentation** when replacing infrastructure (servers, routers etc.), looking for internet connectivity provider or web-hosting.
- Involve **IPv6 support** as an **evaluating criterion** into the best (the highest quality) **web contests**.



Conclusions



Contact



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Legislation and policy measures
have the power to support
technology deployment and public
administration could be the leader
in adopting these technologies!