Public administration in 21st century

- Demand for *e-services* in public administration

- Europe as a *competetive* player

- *Information technologies* in public services

CZ.NIC and IPv6

- *Trainings* for IPv6 implemenation in our academy

- Publishing *blogs* posts IPv6 issues

- Published „free to download" *book* on IPv6

- Co-organization of *IPv6 day* in Czech republic

How to reach the public sector?

What we've been looking for?

• Unique *research* on IPv6 deployment in *public administration* only

• Digital Agenda for Europe, action 89

•*„Member States should make eGovernment services fully interoperable overcoming organisational, technical or semantic barriers and supporting IPv6."*

One methodology fits all

- Prepared methodology for collecting the data

- Comparing comparable

  Only Governmental institutions are involved!

- Collection of data by GEN6 project partners

Data available from: Czech Republic, Germany, Greece, Luxembourg, the Netherlands, Slovenia, Slovakia, Spain and Turkey

3 levels of government are involved:

National: ministries, legislative bodies, judicial authorities…
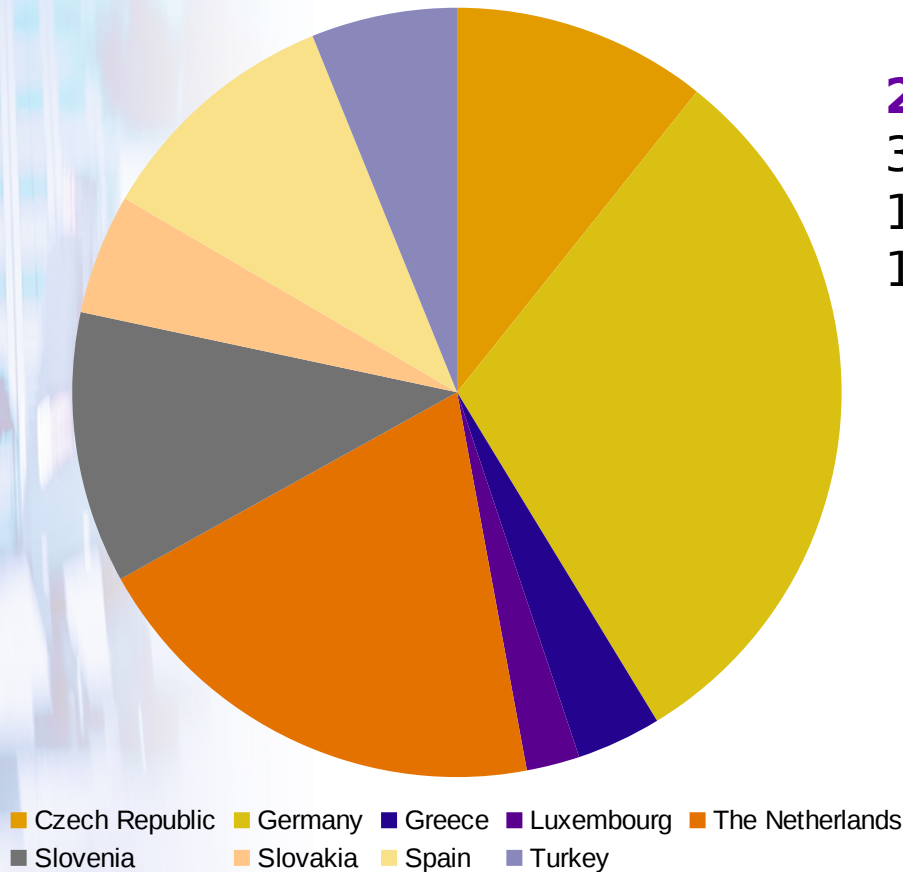
Regional: representatives of regions (only in some countries)

Local: largest cities in each country

IPv6 Government benchmarking

URLs according countries

2 332 websites analysed
347 national level
122 regional level
1863 local level

Legend:
- Czech Republic
- Germany
- Greece
- Luxembourg
- The Netherlands
- Slovenia
- Slovakia
- Spain
- Turkey

IPv6 Government benchmarking
https://github.com/ULAKBIM/ipv6-smt

- IPV6-SMT – IPv6 Services Monitoring Tool

- Tool monitors *http, dns and smtp* services

  Are these services available over IPv6?

- IPV6-SMT queries a given list of domain and check for AAAA records

Government benchmarking: Czech republic:
https://devpub.labs.nic.cz/ipv6-smt-new/country/

Data for 07-10-2013					
Name	**Domain**	**WWW**	**NS**	**MX**	
Select another date from archives:			<-- Select Date -->		
Národní úroveň					
Prezident	hrad.cz		2/2/2	0/0/4	
Vláda ČR	vlada.cz	✓ IPv6	3/3/3	0/0/2	
Poslanecká sněmovna Parlamentu ČR	psp.cz		0/0/2	0/0/2	
Senát	senat.cz		0/0/2	0/0/1	
Ministerstvo dopravy	mdcr.cz	✓ IPv6	0/0/3	5/5/5	
Ministerstvo financí	mfcr.cz	✓ IPv6	3/3/3	2/2/2	
Ministerstvo kultury	mkcr.cz		2/2/3	0/0/2	
Ministerstvo obrany	army.cz		0/0/3	0/0/2	
Ministerstvo práce a sociálních věcí	mpsv.cz	✓ IPv6	2/2/3	4/4/4	
Ministerstvo pro místní rozvoj	mmr.cz		0/0/2	0/0/2	

Government benchmarking: Czech republic:
https://devpub.labs.nic.cz/ipv6-smt-new/country/

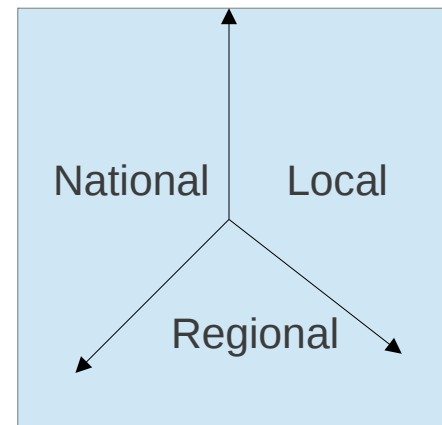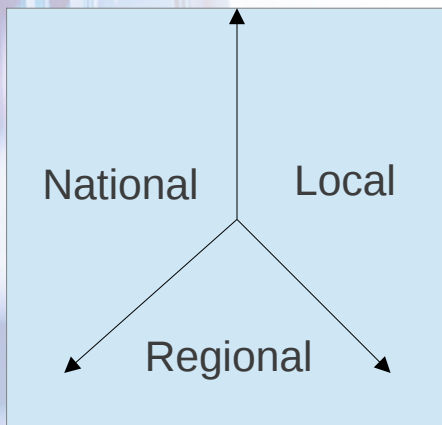| Service	Legend	Description
WWW	✔ IPv6	Web server fully supports IPv6
		Web server has IPv6 address, but HTTP request over IPv6 is NOT successful.
		Web server has NO IPv6 address yet.
NS MX	2/2/2	2 NS (MX) requests over IPv6 are successful / 2 NS (MX) has been assigned IPv6 addresses / There are 2 NS (MX)
	1/2/3	1 NS (MX) requests over IPv6 are successful / 2 NS (MX) has been assigned IPv6 addresses / There are 3 NS (MX)
	0/1/2	0 NS (MX) requests over IPv6 are successful / 1 NS (MX) has been assigned IPv6 addresses / There are 2 NS (MX)

- **Results**

Total: 250			
	179	126	223
	3	75	14
	68	49	13

IPv6: Government benchmarking

GEN6

Provided results:
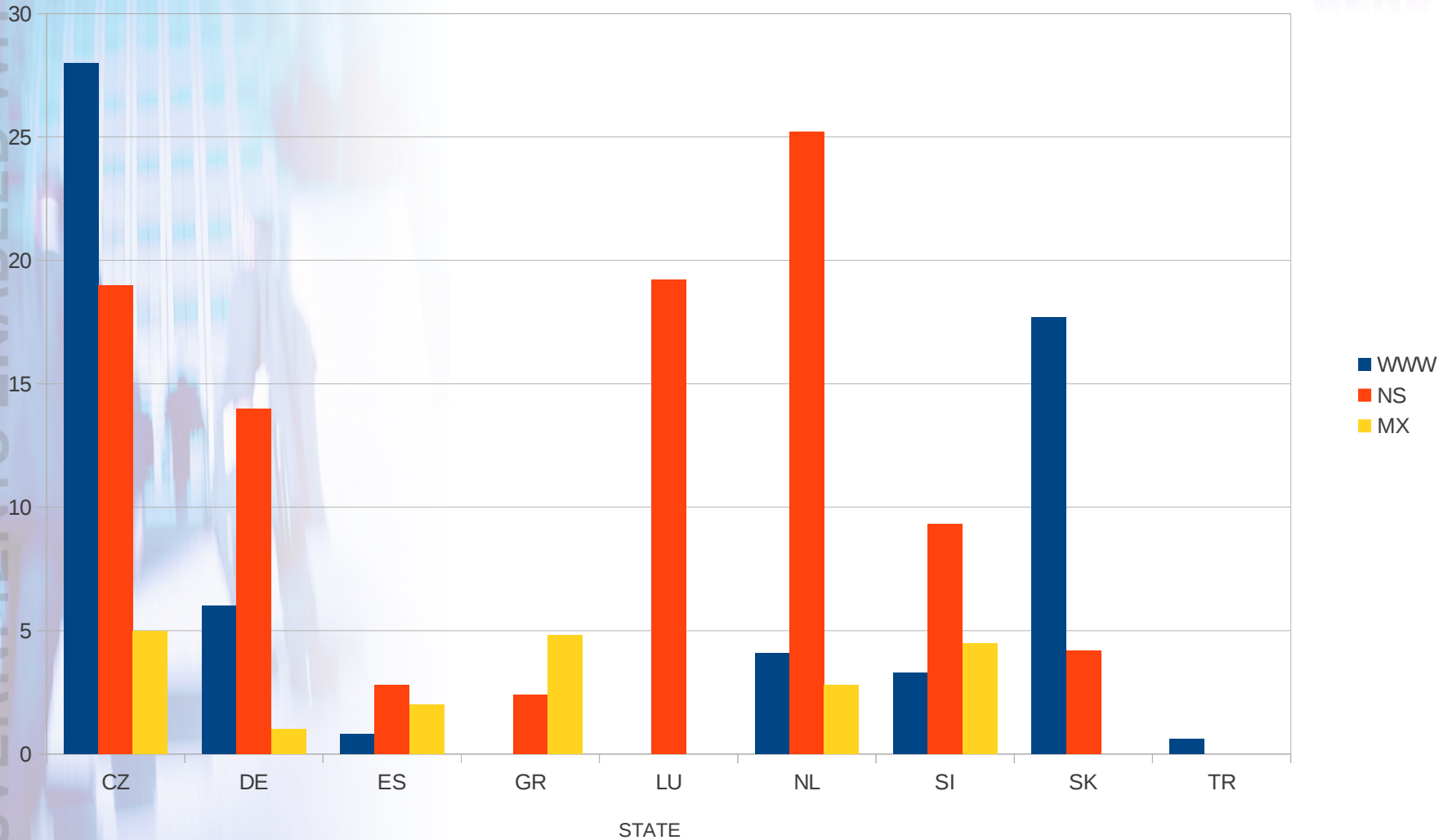
- Possible to make comparision **within the state itself**
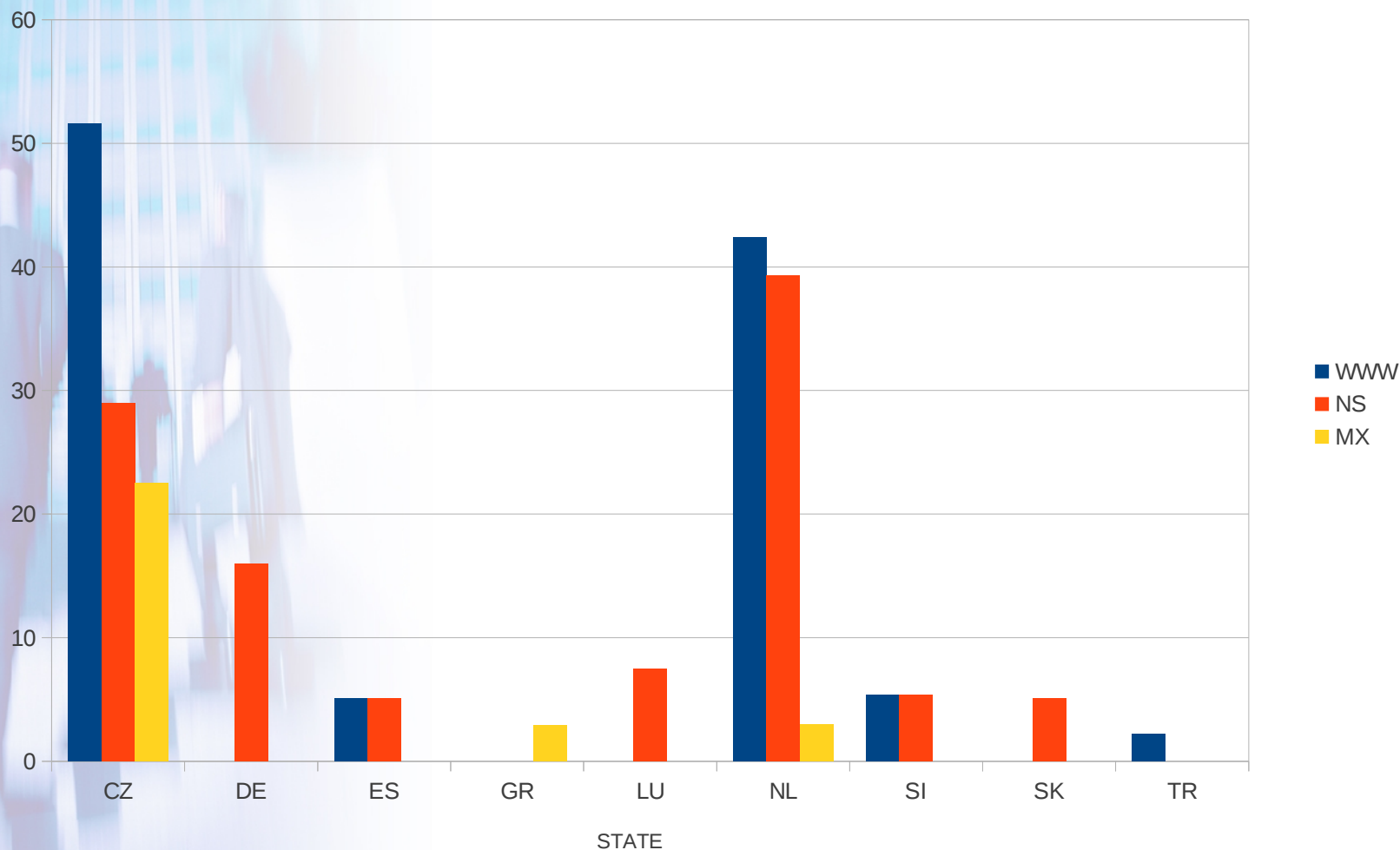
- Possible to **compare the states**

IPv6 in public administration
https://devpub.labs.nic.cz/ipv6-smt-new/country/

IPv6 in public administration: *NATIONAL LEVEL*
https://devpub.labs.nic.cz/ipv6-smt-new/country/

IPv6 in public administration: LOCAL *LEVEL*
https://devpub.labs.nic.cz/ipv6-smt-new/country/
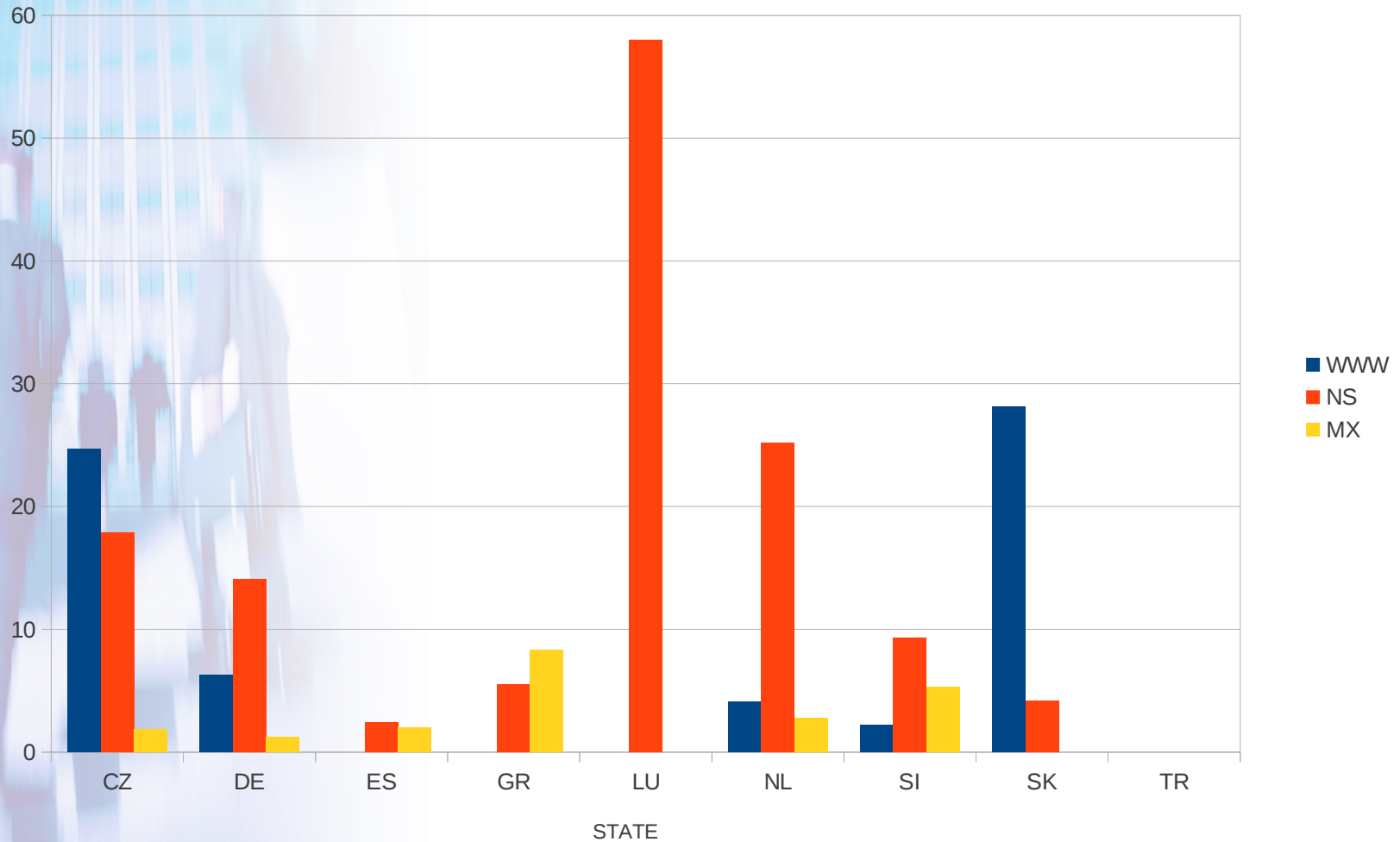
IPv6: Czech republic

Legislation has a power to support IPv6 deployment

- government resolution from 08/06/2009
(it is recommended for regional and local institution)

NATIONAL LEVEL	WWW	NS	MX
16/01/2013	16,6%	16,6%	3,2%
07/10/2013	**51,6%**	**29%**	**22,5%**

IPv6: Czech republic

Involvement of IPv6 criterion in various **„the best website" competitions**

LOCAL LEVEL	WWW	NS	MX
16/01/2013	7,7%	16,5%	0,4%
07/10/2013	**24,7%**	**17,9%**	**1,9%**

PUBLIC SERVICES

METHODOLOGY

DATA COLLECTION

REGULAR CHECK-UPS

???

- Do research

- Collaborate

- Network

- Keep learning

- Ask for help

- Question everything

Thank you for your attention:)

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