# IPv6 in Germany

Constanze Bürger,

Ministry of the Interior

Department Federal IT Infrastructures
and IT Security Management

# For your Patience with Public authorities ☺
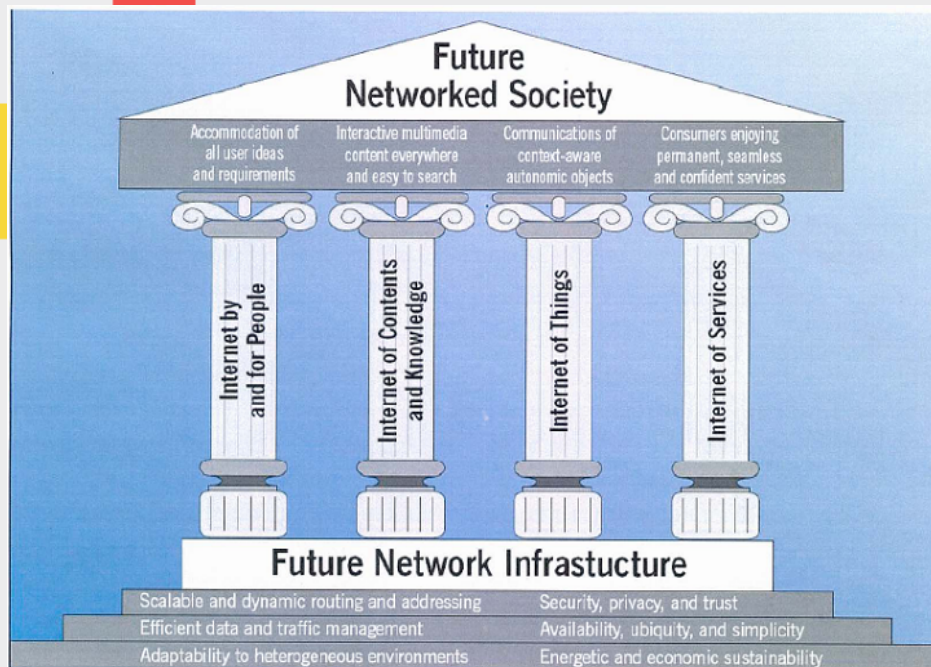


The Future with IPv6

# IPv6 in Broadband Strategy



Future Networked Society

| Accommodation of all user ideas and requirements | Interactive multimedia content everywhere and easy to search | Communications of context-aware autonomic objects | Consumers enjoying permanent, seamless and confident services |

Internet by and for People | Internet of Contents and Knowledge | Internet of Things | Internet of Services

Future Network Infrastructure

Scalable and dynamic routing and addressing — Security, privacy, and trust
Efficient data and traffic management — Availability, ubiquity, and simplicity
Adaptability to heterogeneous environments — Energetic and economic sustainability

Quelle: Alcatel-Lucent                    Vision document: Future Internet PPP Initiative

The German chancellor Angela Merkel stated in 2008, that the development of broadband networks in the EU should be treated equally to traffic and railway infrastructure.

This overall goal was outlined in a „Broadband Strategy Paper" on the 3rd IT Summit in Darmstadt.

The broadband development requires the use of IPv6 in Germany.

# IPv6 Action Plan for Germany



**Robert Kahn, Dr. Beus-German fed.CIO, Prof. Meinel- HPI**

Stimulated by the 3rd IT Summit in Darmstadt, there was a mandate to break down the European IPv6 Action Plan into a national roadmap.

The plan was elaborated in 2009 and presented at the German IPv6 summit in Potsdam in May, led by the German IPv6 Council.

The action plan contains a list of measures to be taken to enable an efficient nationwide changeover towards the deployment of the new Internet Protocol IPv6 for the German Politics, public services, economy, and science.

# IPv6 Guideline

The Federal Office for Information Security (BSI) takes care of all security related aspects of IPv6 in its role as the central IT security service provider for the German government.

Currently BSI develops „A Guideline for a safe IPv6 Network Infrastructure" to cover security related aspects and issues of IPv6 specification and IPv6 migration.

Based on this guidline, extensions to the „IT Baseline Protection" are in scope in the medium term.

**IT-Grundschutz**
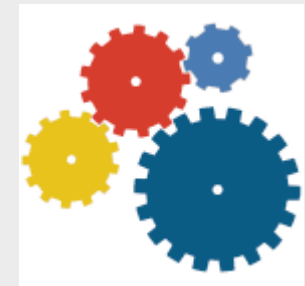
# IPv6 Enabled Web Sites

At the request of the German Chief Information Officer (CIO) Dr. Beus and under the responsibility of the Federal Ministry of the Interior (BMI IT5), a first evaluation of web site changeover to IPv6 is started.



In scope is the website www.cio.bund.de.
The main objective of this project is primarily to learn about technical and financial implications within the given IT infrastructure.

# IPv6 Status

Several network migration projects with the involvement of almost all public authorities are ongoing or partly coming to an end. The TESTA-D Net Migration to DOI  was finished in september.

The application process with RIPE NCC made good progress.

Due to the high number of stakeholders, main efforts are currently focusing on collecting necessary decisions.

Another challenge is still to map effective RIPE policies to the more complex federal structure of Germany.

**Thank you for your attention!**