# IPv6 deployment

## RIPE NCC Roundtable Meeting
## 21 February 2012

**European Commission - DG INFSO**
**Directorate, Emerging Technologies and Infrastructures**
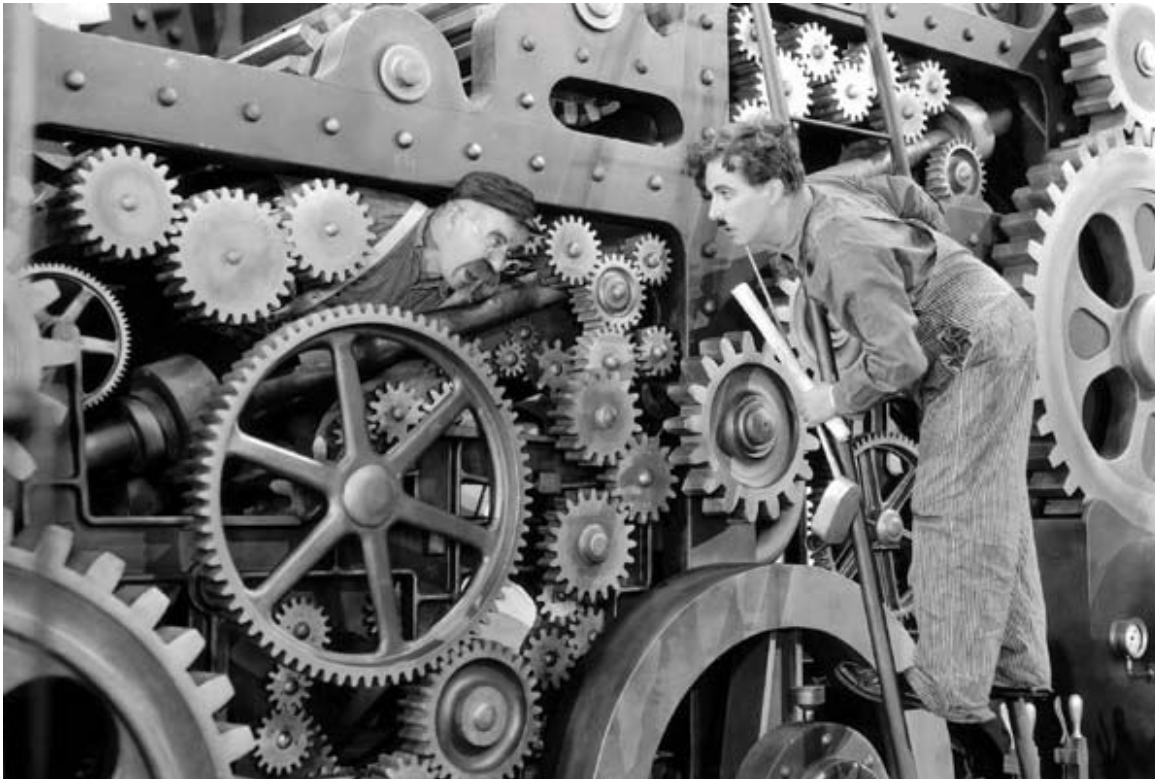
# What's going to happen after 2012?

# Why EC calls for IPv6 deployment?

- **Negative impact on growth and innovation**

- **Slow down of Internet development including Internet of Things**
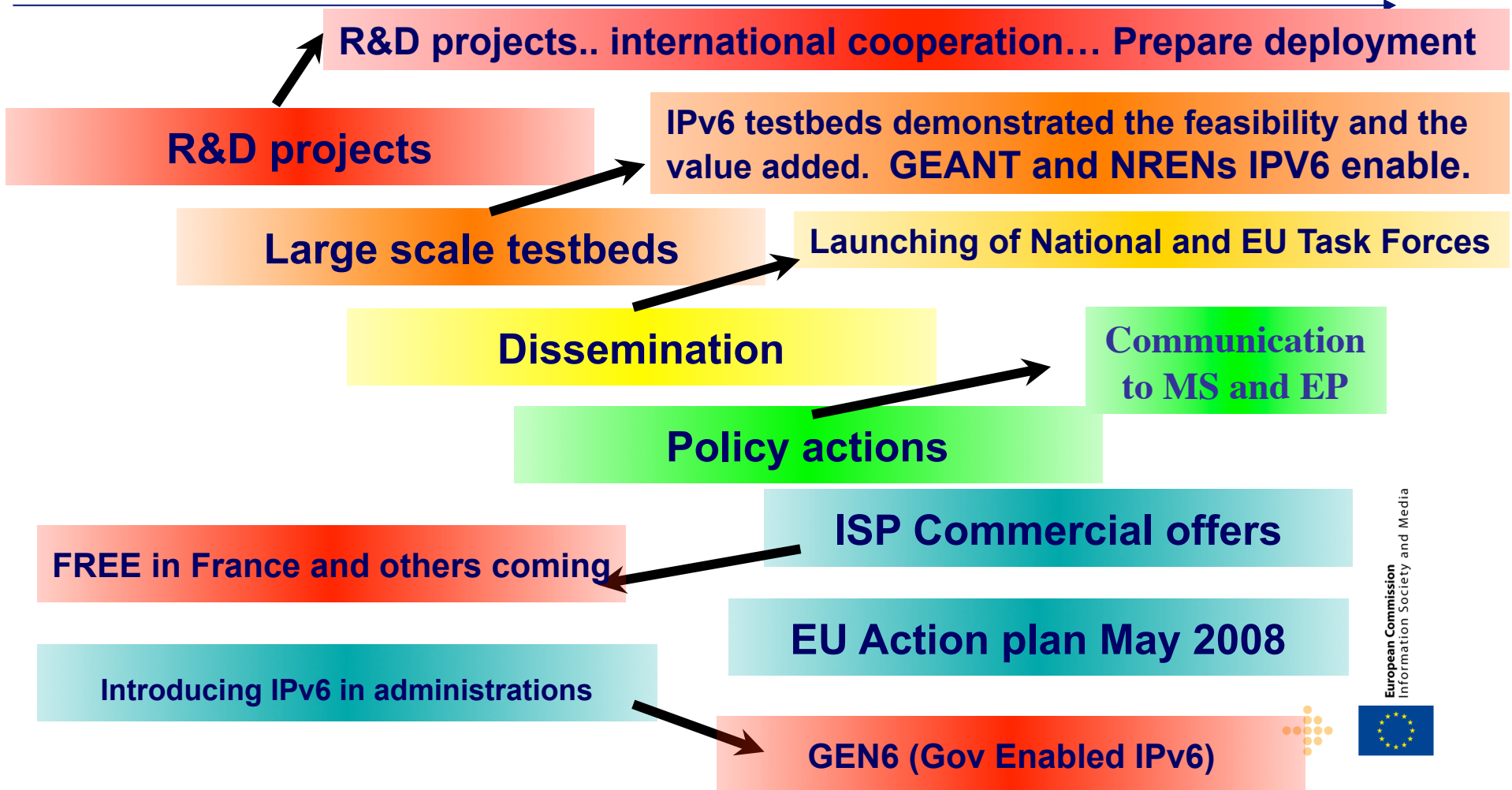
- **Market distortion?**

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# *What have we done in DG INFSO....*

# Action since 15 years

**Focus of R&D moving from research to industrial uptake**

TIME

**R&D projects.. international cooperation… Prepare deployment**

**R&D projects**

**IPv6 testbeds demonstrated the feasibility and the value added.  GEANT and NRENs IPV6 enable.**

**Large scale testbeds**

**Launching of National and EU Task Forces**

**Dissemination**

**Communication to MS and EP**

**Policy actions**

**ISP Commercial offers**

**FREE in France and others coming**

**EU Action plan May 2008**

**Introducing IPv6 in administrations**

**GEN6 (Gov Enabled IPv6)**

European Commission
Information Society and Media

# Action plan 2008 and follow-up
## "Advancing the Internet"

- ✓ **Cooperate with  content/service providers.**

- ✓ **Encourage ISPs for IPv6 connectivity.**

- ✓ **Encourage Member States to use IPv6.**

- ✓ **Awareness campaigns with different users groups.**

- ✓ **Inclusion IPv6 in education curricula ( study 2011).**

- ✓ **Security and Privacy issues ( study 2011).**

- ✓ **Monitoring  IPv6 deployment ( study2009/10 and 2012/13).**

# IPv6 pilot GEN6, for public authorities

CIP Programme in 2011, EC funding 3 M€ (Total budget 6 M€)

For a Pilot on experimentation and deployment of IPv6 in Member States (Public authorities)

• Duration 3 years

• Show case

• Experimentation

• Exchange of best practices

• Applications and services

Starting date January 2012

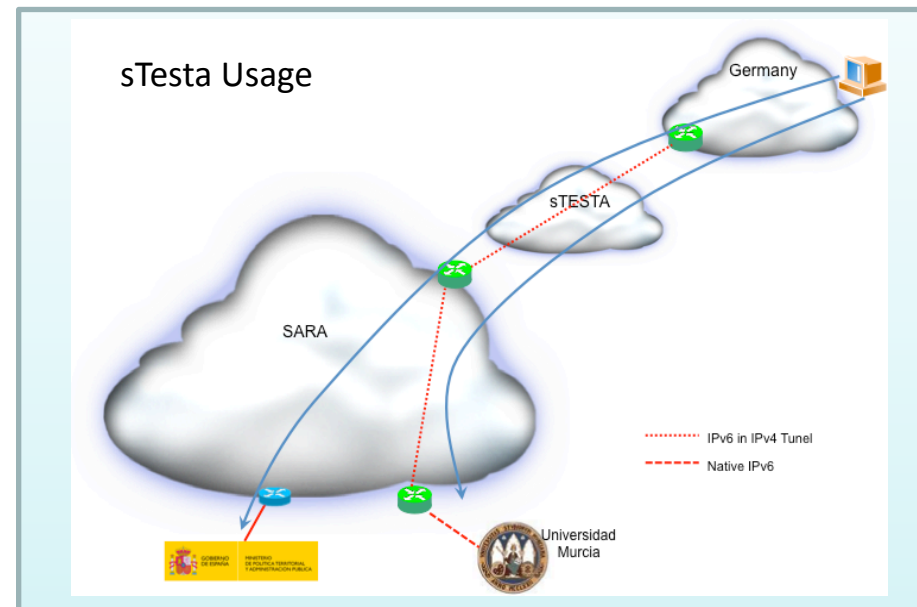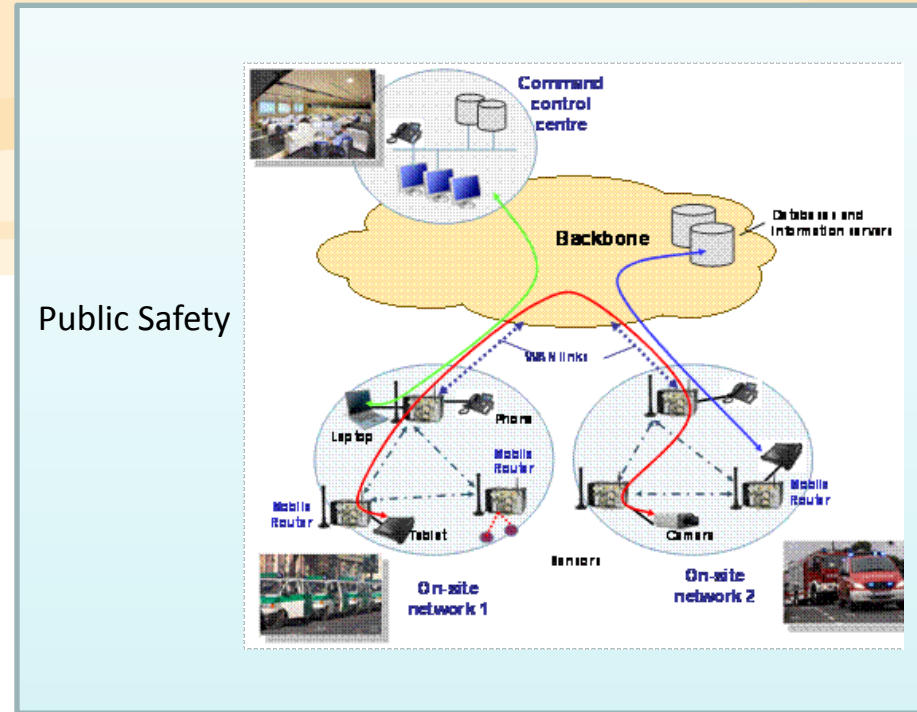European Commission
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# GEN6
# Gov Enabled  IPv6

## National Pilots

| | | |
|---|---|---|
| Czech Republic: | Access to the government central access point by IPv6 |
| Germany: | Transition of data center services for public administrations |
| Greece: | IPv6 school network with focus on end user devices |
| Luxembourg: | IPv6 government cloud and Public Safety |
| Netherlands: | Enabling local government front and back office over IPv6 |
| Turkey: | Government portal services over IPv6 |
| Spain: | Preparing the government core network for IPv6 |
| Slovenia: | A IPv6 ready emergency response environment |

## Cross Border Pilots

Public Safety



sTesta Usage

# DG INFSO Trial
# (Our Home work!)

- **Native IPv6 access in DG Infso HQ (British Telecom as ISP)**

- **Permanent WIFI IPv6 access point for visitors available since December 2011.**

- **EUROPA website is accessible for IPv6 users (Dual stack), since June 2011 (world IPv6 day).**

# Impact of IPv6 on policy and regulatory aspects
## (Internal work)

- **Internal exercise in DG INFSO to assess the potential impact of the deployment of IPv6 on policy and regulatory aspects.**

- **Issues and concerns from the impact of IPv6 deployment on regulatory aspect.**

- **Privacy, fixed/dynamic IP addresses, Internet governance, security and e-identity.**

- **External experts meeting last December in DG INFSO.**

- **Still in the process of collecting information internally for this exercise and so work is still ongoing.**

The way forward!

Do it now!

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

We are all in the same boat!

Internet…

IPv4

IPv6

IPv6

IPv4

IP…