



Information Society



European Commission

# ***Benchmarking IPv6 and Forecast by 2005***

**Jose Fernandes  
European Commission  
Brussels**

**17 January 2003**



European Commission

Erkki Liikanen



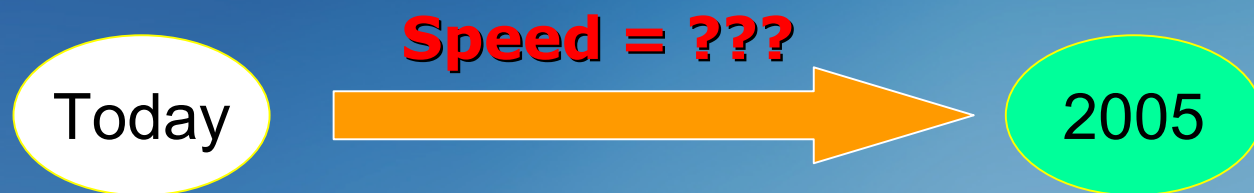
Information Society  
Technologies



Information Society

## Why?

- **IPv6 is key for the next Generation Internet.**
- **A number of actions need to be taken to ensure a significant IPv6 uptake by 2005 to cope with IPv4 address space depletion.**
  - A series of recommendations for urgent action to be taken at European level are drawn in the communication from Commission to the Council and the European Parliament and in the Council Conclusions of 18th June 2002, and
  - are addressed to EU Member States, the Industry and the European Commission.
- **Are we moving fast enough?**



- **We Should monitor/measure the progress speed**

## Indicators to be used (I)

- **number of IPv6 addresses allocated;**
- **number of IPv6 native research networks;**
- **number of IPv6 native commercial networks, including mobile/wireless;**
- **number of IPv6-ready routers and switching hubs, or percentage relatively to IPv4;**
- **number of vendor independent, training and education courses on IPv6;**
- **number of IPv6 trained people;**
- **number of new IPv6 applications and services;**
- **awareness raising progress;**

## Indicators to be used (II)

- percentage IPv6 vs. IPv4 traffic flow;
- percentage of households/individuals having access to Internet at home using IPv6;
- percentage of enterprises/organisation/schools having access to Internet using IPv6;
- percentage of enterprises/organisation that have a web site/home page IPv6 enabled
- percentage of public services IPv6 enabled

**When possible, these indicators should be benchmarked for Europe vs. Asia vs. US**

**Can we define specific targets for 2005?**

# Reporting/Outputs

- **An early report stating the methodologies and instruments to use should be available by the end of March 2003.**
- **A progress report should be issued by the end of 2003.**
- **A report stating the IPv6 take-up based on the indicators, should be issued by the end of 2004 and end of 2005.**



Information Society

## How to do it? (I)

- **IPv6 Task Force II is mandated to:**
  - Provide a regularly updated review and plan action (“the European IPv6 Roadmap”)
  - Ensure a working liaison with standards and Internet governance bodies such as ISOC, IETF, ICANN, RIPE NCC, 3GPP, ETSI, IPv6 Forum, Eurescom, ETNO, UMTS Forum and GSM Europe,
  - Establish collaboration arrangements and working relationships with similar initiatives being launched in other world regions.
- **National or Regional Task Forces should consolidate the Member States efforts to contribute to this initiative.**

## How to do it? (II)

- **FP5 initiatives should contribute**
  - Eurov6 Showcase, 6LINK - IPv6 Projects Linkage Cluster, NGN-Initiative and others.
- **FP6 instruments**
  - New initiatives will come up under FP6.
  - A specific support action to work out the indicators would be most welcome.
- **Co-operation from ISOC on education and training issues.**