

# ITU and IPv6 in light of Plenipotentiary 2010 Decisions

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# Agenda

- PP-10 in a nutshell
- Internet related Resolutions
- New Resolution on IPv6
- ITU ongoing work on IPv6

- In Guadalajara, Mexico, 4-22 October 2010
- Highest decision-making organ of ITU, meet every 4 years
- 1,980 registered participants and observers from 167 ITU Member States
- 66 Ministers, 27 Deputy Ministers, 38 Ambassadors
- Intensive debate on Internet related issues

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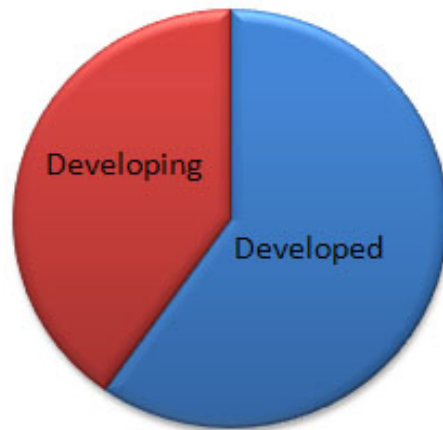
## 2 Billion on the Internet

- 2.1 Billion Internet users by end 2010\*, doubled since 2005
- 1.2 billion Internet users in developing countries (up from 1 billion in 2009), of which 420 million in China
- Half a billion households with Internet (29.5% of all households)

Source: ITU World Telecommunication/ICT Indicators database.  
Note: 2010 data are estimates.

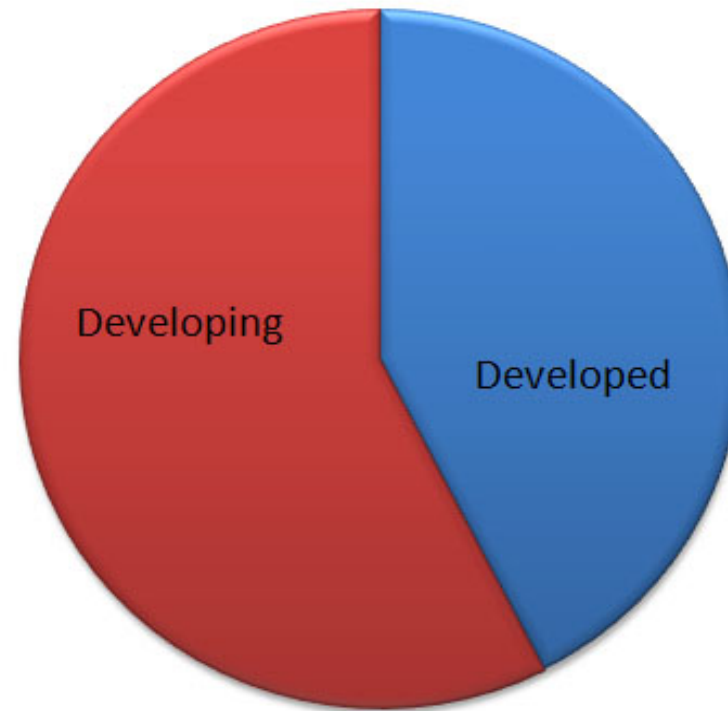
# Internet users, by level of development

2005



Total 1 billion

2010\*



Total 2.1 billion

\*Estimates  
Source: ITU World Telecommunication /ICT Indicators database

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# Five Internet-related PP-10 Resolutions

- Revised:
  - Res 101 “Internet Protocol-based networks”
  - Res 102 “ITU's role with regard to international public policy issues pertaining to the Internet and the management of Internet resources, including domain names and addresses”
  - Res 133 “Role of administrations of Member States in the management of internationalized (multilingual) domain names”
- New:
  - Res 178 “ITU role in organizing the work on technical aspects of telecommunication networks to support the Internet”
  - Res 180 “Facilitating the transition from IPv4 to IPv6”

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# Essence of Internet Resolutions

- ITU “to explore ways and means for greater collaboration between ITU and relevant organizations\*, to increase the role of ITU in Internet governance ...”

*\*footnote: including, but not limited to, ICANN, the RIRs, IETF, ISO and W3C, on the basis of reciprocity*

- Director TSB to review need for new study group to work on technical issues of telecommunication networks to support the Internet



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# Res 180 “Facilitating the transition from IPv4 to IPv6” (1)

It *resolves*

- Collaboration
- Raising awareness and capacity building
- Assist Member States with existing IPv6 management and allocation policies
- The IPv6 Group to undertake detailed studies of IP address allocation..., both for IPv4 and IPv6

# Res 180 “Facilitating the transition from IPv4 to IPv6” (2)

It *instructs BDT Director, in coordination with TSB Director*

- Facilitate relevant ITU-T study group work
- Monitor the current allocation mechanisms (including the equitable distribution of address) for ITU Member States or Sector Members, and to identify and point out any underlying flaws in the current allocation mechanisms
- Communicate proposals for changes... in accordance with the existing policy development process
- Develop statistics on transition progress

# Res 180 “Facilitating the transition from IPv4 to IPv6” (3)

## It *invites Member States*

- Promote national initiative to foster interaction with government, industry, academia and civil society
- Encourage RIRs in coordinating research, dissemination and training within the countries and the region
- Develop national policy that public service should be IPv6-compatible

## It *instructs the Secretary-General*

- Disseminate implementation progress to ITU membership and Internet community

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# ITU IPv6 Group

- Created by ITU Council 2009
- Terms of Reference
  - Draft a global policy proposal to reserve an IPv6 block for future needs of developing countries, to be fed into the RIR policy process
  - Study
    - 'equitable access' to IPv6 resource
    - ITU -> Internet Registry? Policy to manage the reserved IPv6 block?
    - Country Internet Registry?
  - Assist the implementation of the ITU IPv6 project

# ITU IPv6 Group Participation

- Open to ITU-T and ITU-D membership, including ISPs and industry members
- All RIRs and ICANN have been invited to join the Group
- EC participated
- EC Project 6Deploy was recommended

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# IPv6 Group meetings

- 1<sup>st</sup> meeting on 15-16 March 2010
- 2<sup>nd</sup> meeting on 1-2 Sept. 2010
- Waiting for result on consultation with Internet community on:
  - IPv4 issues
  - Country Internet Registry
  - Concerns from ITU Member State on IPv6
- 3<sup>rd</sup> meeting will be on **7-8 April 2011**, Geneva, Switzerland



# ITU IPv6 Project

- ITU-BDT is working toward a detailed project plan
  - Correspondence group newly setup to collect input
  - Survey planned for early 2011 focusing on the needs of developing countries

# References

- PP-10 Final Acts:  
<http://www.itu.int/plenipotentiary/2010/index.html>
- ITU IPv6 Portal:  
<http://www.itu.int/ipv6>