

# IPv6 capacity development in developing economies

ITU Regional Development Forum

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**APNIC**



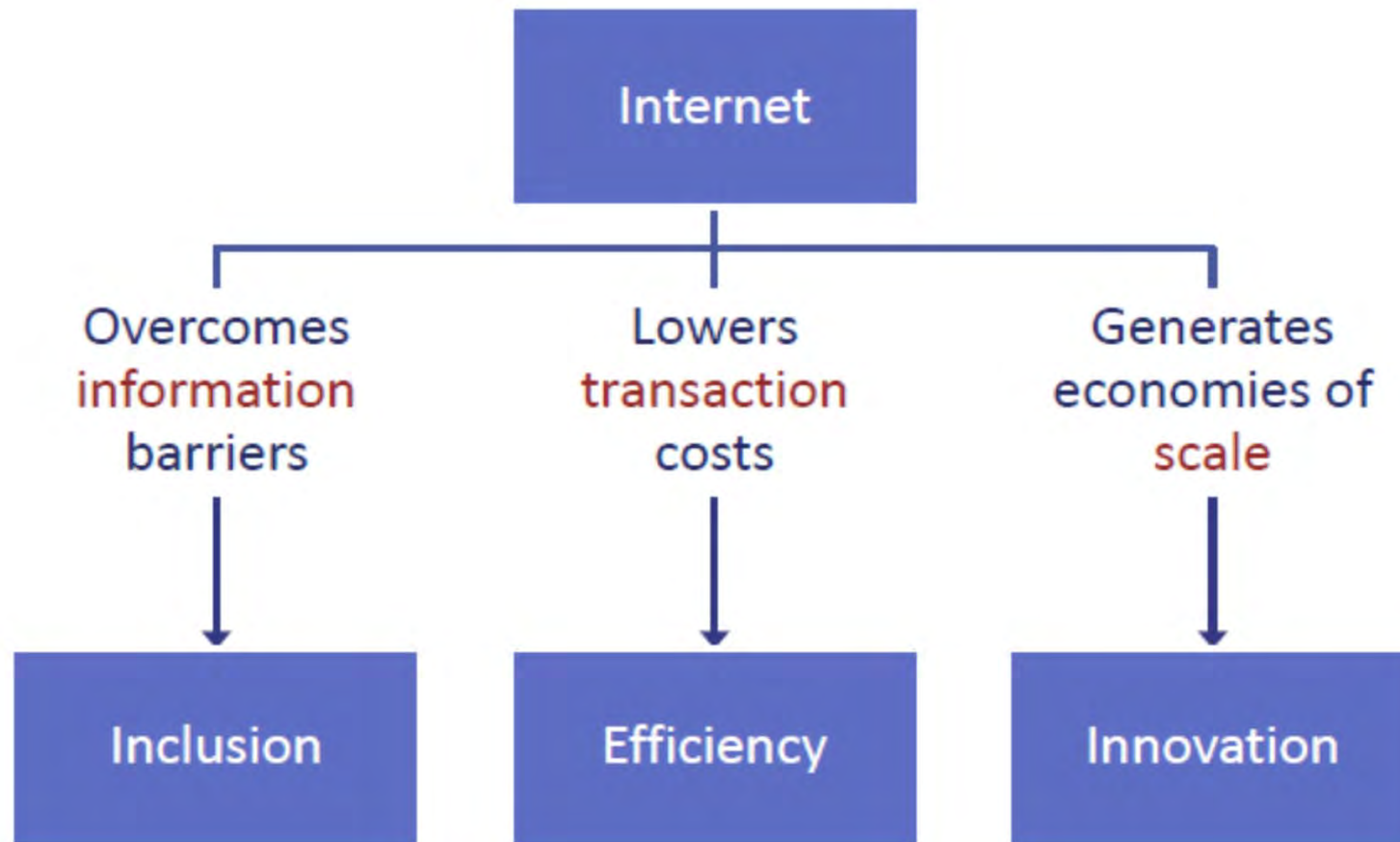
# Agenda

1. ICT growth and economic development
2. APNIC Development services
3. Collaboration between ITU and APNIC

# World Development Report 2016: Internet for Development

- Improving access is crucially important ...
  - The internet drives development when it is fast, affordable and always-on.
  - Achieving universal and affordable internet access will require open access networks, and public private partnership where the market fails.
  - Ensuring open and safe access poses significant new challenges. It will require greater international collaboration based on multi-stakeholder approaches.
- ... but not sufficient.
  - Greatest benefits come when the internet complements, not just replaces, other factors.

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# *APNIC – Regional Internet Registry for the Asia Pacific region*

“A global, open, stable, and secure Internet that serves the entire Asia Pacific Internet community”

- Provides **capacity development opportunities** to community members
- Supports Internet development in the region (NOGs, policy etc.)
- Neutral, independent, not-for-profit



# APNIC and Internet Development



IP address distribution and management

Training and Technical Assistance services

Fellowship program for technical events

Community Support

Infrastructure Support

Information Society Innovation Fund



# Training in 2015

	Face to face	eLearning
Courses	33	60
Days	51	17
Locations	13 cities 12 economies	
Participants	902	313
YouTube channel	236,708 views + 3,436 subscribers	

# Network Operator Groups





# ITU-APNIC Collaboration (1)

- Our focus is on technical workshops and capacity development in developing economies
- Supported by:
  - Ministry of Information and Communication Technology, Thailand
  - ToT Academy, Thailand
  - Australian government
- Hands-on practical training courses and direct engineering assistance to support smooth IPv6 adoption in developing economies

## ITU-APNIC Collaboration (2)

- Connect 2013: Initiated joint activities to support the transition from IPv4 to IPv6 in the Asia-Pacific
- Focused on capacity development for ITU and APNIC members
- APNIC – ITU Asia Pacific (ASP) Centre of Excellence
- Educate network operators, policy makers and regulators from developing AP economies on IPv6 deployment

## ITU-APNIC collaboration (3)

- IPv6 migration strategies for telecom service providers (2011, 2012)
- IPv6 infrastructure network security (2013, 2014, 2015)
- ITU country direct engineering assistance in Lao (2014) and Mongolia (2015)

# ITU-APNIC collaboration (4)

- IPv6 infrastructure network security workshop in 2015
  - Held here in Bangkok in July 2015
  - 5 days hands-on workshop
  - 29 participants from 13 economies in the AP region



# ITU-APNIC collaboration (5)

- ITU Country Direct Engineering Assistance (EA) in 2015 on IPv6
  - Held in Ulaanbaatar, Mongolia in July 2015
  - 3 days hands-on workshop (48 participants) + EA at 3 organizations
  - Individual EA on how to deploy IPv6 in each networks



# Way forward

- APNIC and ITU will continue to collaborate on IPv6 capacity development in developing economies



The image shows two news article headlines. The top one is from 'THE TIMES OF INDIA' with the sub-headline 'Visakhapatnam'. The main headline is "'IPv6 critical for smart city projects'" and the byline is 'TNN | Aug 7, 2015, 04:13 AM IST'. The bottom one is from 'THE NEW INDIAN EXPRESS' with the date 'Wednesday, August 19, 2015' and the headline 'Need for IPv6 for Smart City Underscored'. The navigation bar of the Times of India article includes links for Home, City, Visakhapatnam, Crime, Civic Issues, Politics, Schools & Colleges, More Cities, and Buy@Amazon.in.

# Thank you

## You're Invited!

- APNIC 40: Jakarta, 3-10 September 2015



- And...
  - APNIC 41: Auckland, Feb 2016
  - APNIC 42: Dhaka, Sep 2016
- See <http://conference.apnic.net>