

SESSION 1

Overview of ITU Activities
How to Participate in
ITU Standardization Work
&
Address Global Connectivity

Regional Development Forum
15 September 2008
Hanoi, Viet Nam

ITU Vision

By connecting the world and fulfilling everyone's fundamental right to communicate, we strive to make the world a better and safer place.

ITU Structure & Functions

Committed to connecting the world



Since 1865

ITU Headquarter (Geneva) – 191 Member States

ITU-R

Radiocommunication
Satellite/Terrestrial

ITU-T

Telecom Network
Standardization

ITU-D

Development

ITU Regional Offices

Africa

Americas

Arab States

Asia-Pacific

Europe & CIS

Asia-Pacific Regional/Area
38 Member States

ASEAN

**North-East
Asia**

Pacific

**South
Asia**

ITU Strategic Issues

- **Accessibility** : Achieving equitable communication for everyone
- **Climate Change and ITU** : Promoting the use of ICTs to combat climate change
- **Cybersecurity, Spam and Cybercrime** : Confidence and security in the use of ICTs
- **Connecting the unconnected by 2015** : Bridging the digital divide
- **Saving lives**: Telecommunication is critical at all phases of disaster management
- **The Networks of the Future** : Next Generation Networks & Global Standards Initiative (NGN - GSI)

An Overview of the ITU-D Sector:

Asia-Pacific Regional Initiatives and Activities

Hanoi, Viet Nam
15 September 2008

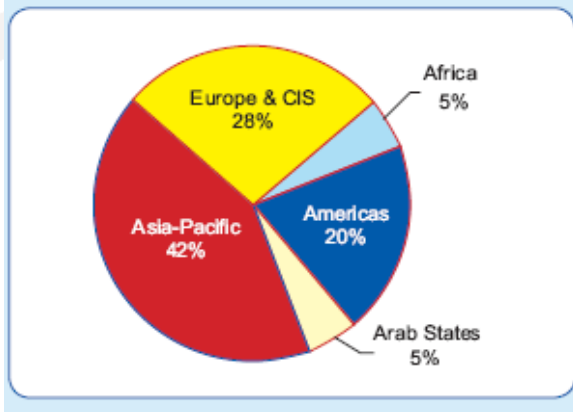
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ITU Regional Office for Asia and the Pacific

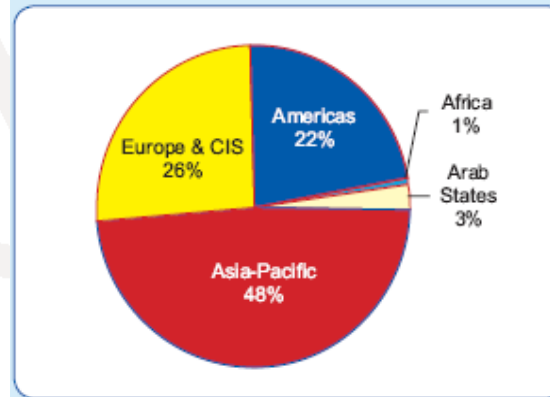
Agenda

- Status of Digital Divide
- ITU Global Development Programs
- Resolutions: Bridging the Standardization Gap
- ITU Asia-Pacific Regional Initiatives & Activities
- Regional Development Forum
- Conclusions

Status of Distribution of ICT

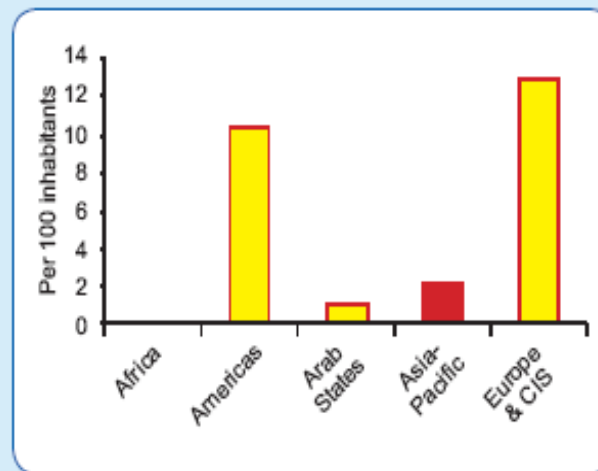
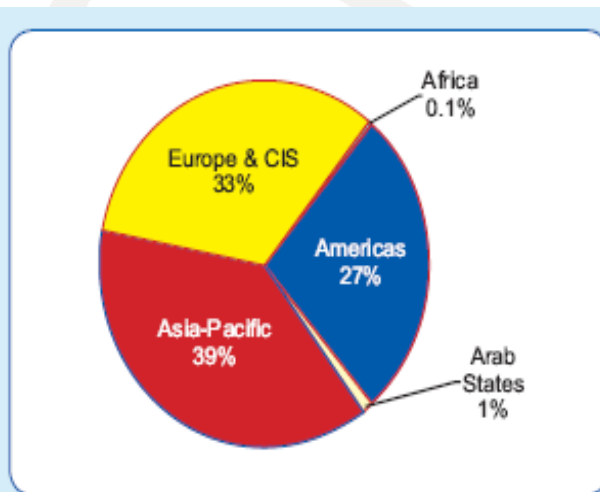


Mobile Subscribers 2007



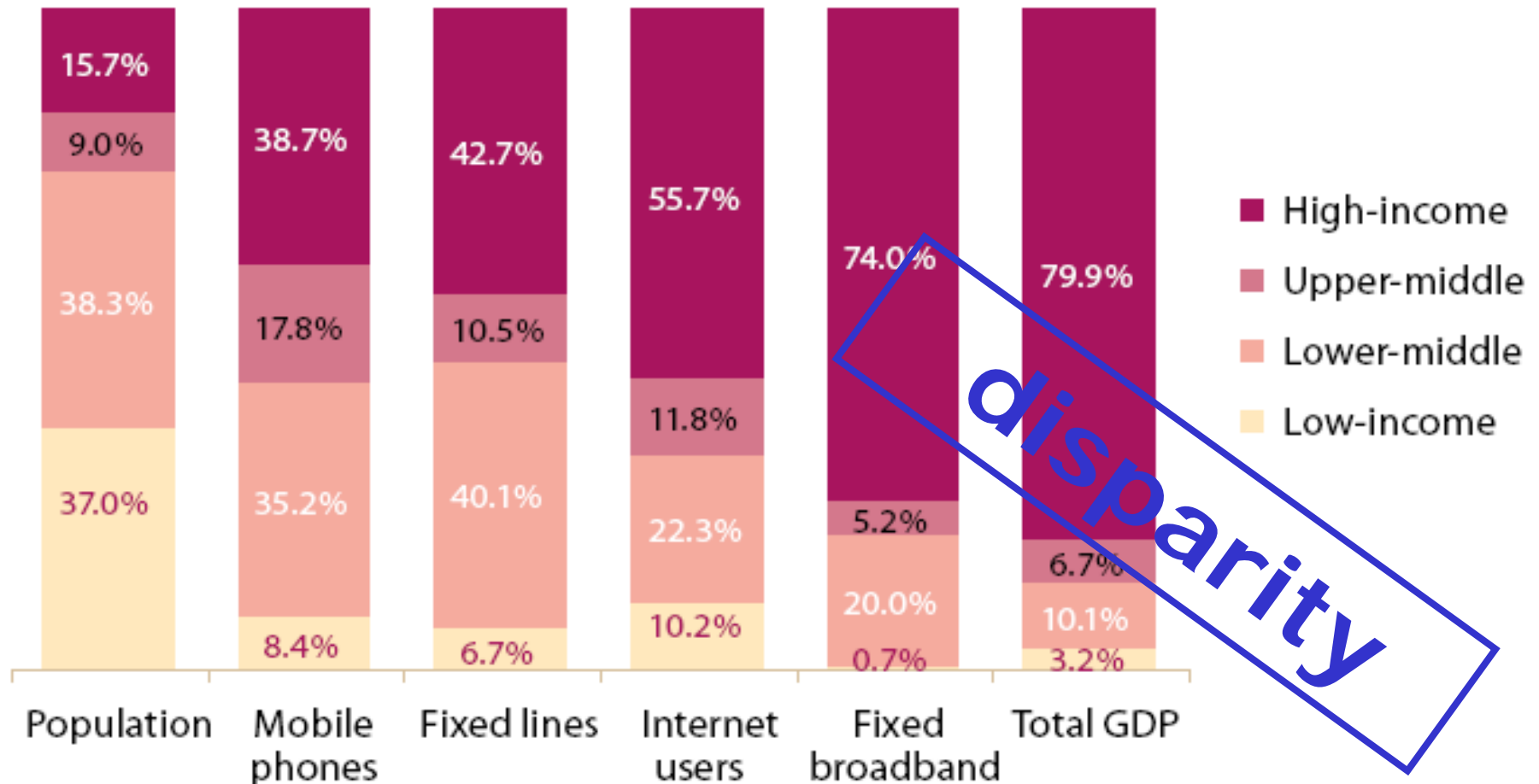
Fixed Subscribers 2007

Asia Pacific is the biggest ICT market but is ICT distributed evenly within Asia Pacific?



Fixed Broadband Internet Subscribers 2007

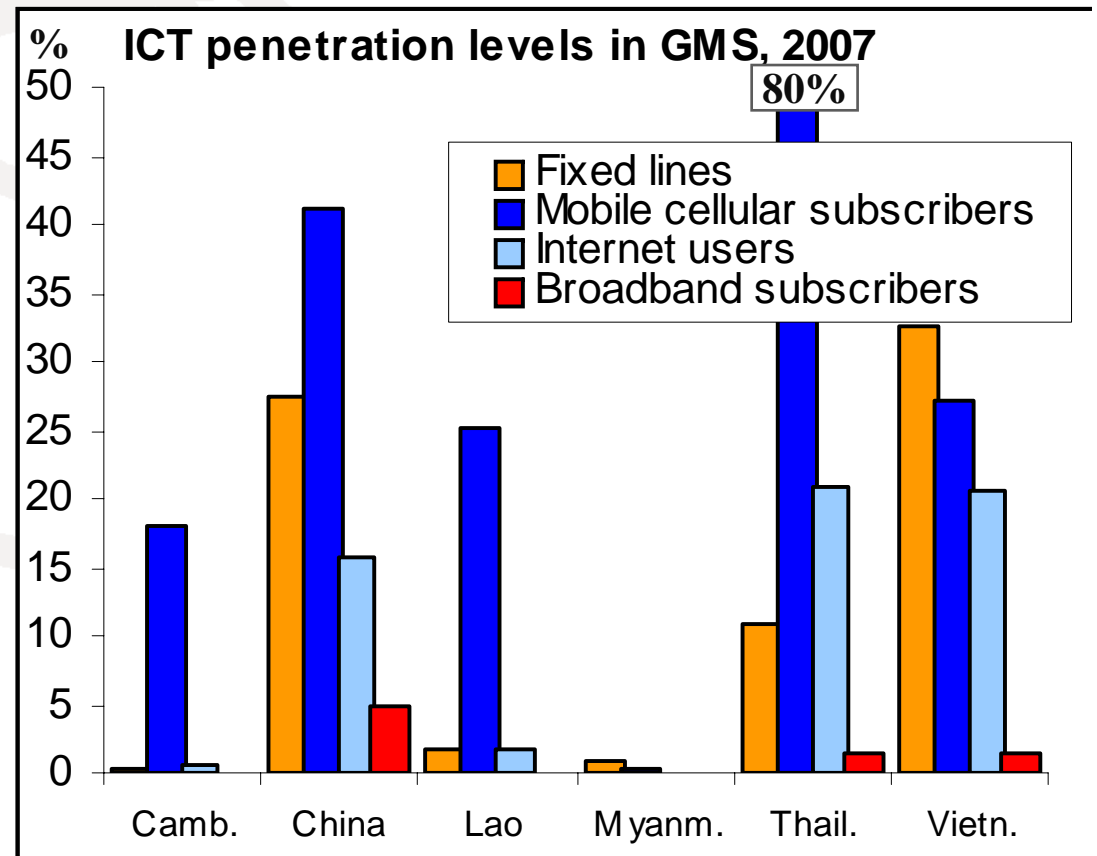
Digital Divide by Income Group



Source: ITU/UNCTAD/KADO Digital Opportunity Platform.

Digital Divide in Asia-Pacific

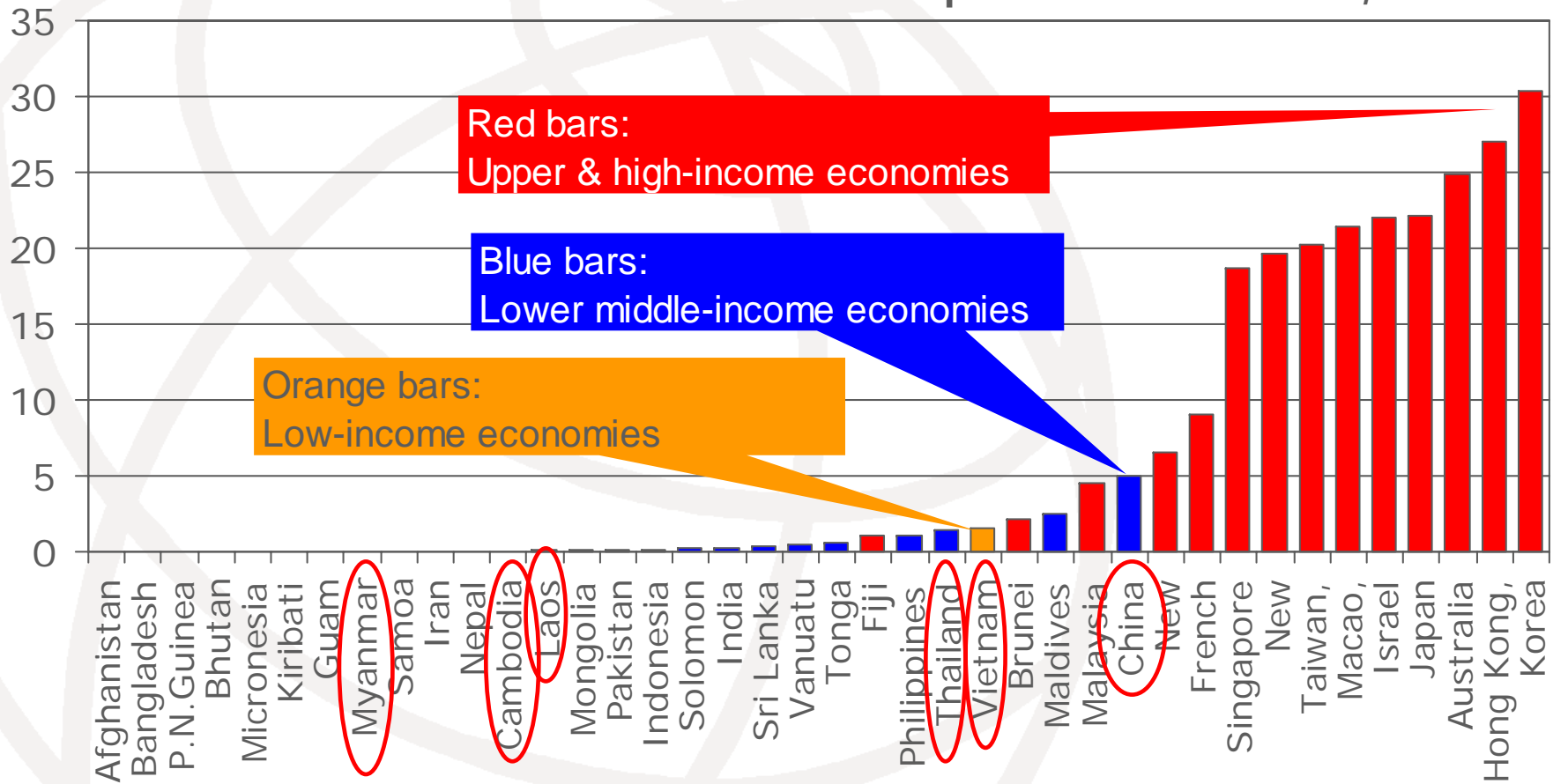
- Major differences in ICT levels between GMS countries
- China & Vietnam high fixed line penetration
- Thailand stands out in mobile penetration
- China, Thailand, Vietnam lead in Internet users
- China has clear lead in fixed broadband



Source: ITU World Telecommunication/ICT Indicators database

Broadband Divide in Asia-Pacific

Fixed broadband Internet subscribers per 100 inhabitants, 2007



Source: ITU World Telecommunication/ICT Indicators database.

ITU Global Development Programs

WTDC-06, Doha

Six Major Development Programs

- Program 1: Regulatory reform**
- Program 2: Technologies and telecom/ICT network development - Infrastructure**
- Program 3: E-strategies and ICT applications**
- Program 4: Economics & finance**
- Program 5: Human Resource Development**
- Program 6: Special program for least developed countries (LDC) + SIDCs**

Special Initiatives: e.g., Indigenous, disabilities, youth, gender etc.

Through
PPP

Delivery Mechanisms

Seminars & Workshops

Direct Country Assurances

Human Capacity Building Trainings / Fellowships

Deployment of Infrastructure

Resolutions at the WTDC-06, Doha “Bridging Standardization Gap”

- ITU-D activities related to “Bridging the Standardization Gap”, were carried out, according to Resolution 47 of WTDC-06, Doha.
- These are in close cooperation with ITU-T implementing Resolution 123 (Rev. Antalya, 2006) of PP-06 and Resolution 44 of WTSA-04

Resolution 47, WTDC-06

- Engage in activities to enhance knowledge and effective application of ITU-T and ITU-R Recommendations in developing countries
- Introduce best-practice application of ITU-T and ITU-R Recommendations, in fibre-optic transmission technology, broadband network technology and information security, by organizing training courses and workshops especially for developing countries
- **ITU-D in collaboration with ITU-T and ITU-R to:**
 - Promote participation in training courses and workshops on best-practice application of ITU-T and ITU-R Recommendations for developing countries;
 - Establish a database containing information on new technologies that are standardized and develop guidelines on applying ITU-T and ITU-R Recommendations

ITU Asia-Pacific Regional Initiatives

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<i>RI 1: Telecommunication/ICT policy and regulatory cooperation in the Asia-Pacific region</i>
<i>RI 2: Rural Communications – Infrastructure development</i>
<i>RI 3: Next Generation Networks (NGN) planning</i>
<i>RI 4: The unique telecommunication/ICT needs of Pacific islands and small island developing states (SIDS) in the Asia-Pacific region</i>
<i>RI 5: Strengthening the collaboration between ITU-T and ITU-D</i>

Through
PPP

Partners & Donors

CHINA, AUSTRALIA, SINGAPORE, EUROPEAN COMMISSION, THAILAND, MALAYSIA ETC.

ADB, UPU, JAPAN INDUSTRY, ETC.

APT, PITA, PIFS, ESCAP, INDUSTRY ETC.

AUSTRALIA, EUROPEAN COMMISSION, PITA, APT, ESCAP, WORLD BANK ETC.

APT, ESCAP, INDUSTRY ETC.

Asia-Pacific Regional Initiative 5

- WTDC-06 called upon BDT to implement regionally approved initiatives at the national, regional, interregional and global levels
- Asia Pacific Regional Initiative 5 - "Strengthening the collaboration between ITU T and ITU D" - aims at
 - Assisting, through ITU-D, the developing countries that lack the necessary human resources to understand ITU T Recommendations
 - Enhancing the application of ITU T Recommendations for telecommunication/ICT services and equipments
- The expected outcomes :
 - Close coordination mechanism between ITU-T and ITU-D at the regional level through the ITU Regional Office for Asia and the Pacific;
 - Guidelines for developing countries to understand and apply ITU-T Recommendations for those having policy and regulatory implications;

ITU / MIC Regional Training on Bridging the Standardization Gap

- As a part of the Asia-Pacific RI 5, ITU and Ministry of Internal Affairs and Communications, Japan, jointly organized the “Training on Bridging the Standardization Gap” during 18-22 June 2007 in Tokyo, Japan
- Training benefited 26 participants from 21 countries in enhancing their knowledge on Standardization including NGN
- Presentations by speakers and country delegates as well as group discussion reports can be found at <http://www.itu.int/ITU-D/tech/network-infrastructure/index.html>.

Regional Development Forum: Series

- Bridging the ICT standardization gap in developing countries;
- To achieve the objective of Asia-Pacific RI 5, the Forum is aimed at: e.g.,
 - Encouraging greater understanding of, and participation in, the work of ITU-T
 - Explaining status of current hot topics under discussion in ITU-T
 - Encouraging developing countries involved in ITU-T activities in the development of international ICT standards
 - Encouraging executives from Administrations, National Regulatory Bodies, Telecommunication Operators, Manufacturer and Service Providers in the regions:
 - To be familiar with the future challenges ITU ; and
 - To draw up strategies to achieve greater participation in ITU activities, e.g. ITU-T and ITU-D Study Groups activities

ITU: Highlighted Actions for 2008 in Asia-Pacific

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Global Programs	Countries/ Sub Region/ Region	Specific Areas of Assistance
Policy and Regulatory	Bhutan, Bangladesh, Sri Lanka, Myanmar, Thailand	<ul style="list-style-type: none"> - VOIP and NGN Regulation, - Spectrum Management, - Interconnection Pricing, - Licensing & ICT Master Plan
Information and communication infrastructure and technology development	Asia-Pacific, Magnolia, Vanuatu	<ul style="list-style-type: none"> - Different Schemes for Rural Com. Development - Establishment of ICT Training Facility, - Master Plan for Rural Com.
E-strategies and ICT applications	Nepal	<ul style="list-style-type: none"> - Development and Deployment of e-Health
Human capacity-building	Asia-Pacific, Korea, Iran, Pakistan, Thailand, DPR Korea, Malaysia	<ul style="list-style-type: none"> - Executive Regulatory Training - ASP CoE on IPv6, Ubiquitous Technologies, MNP, NGN, Rural Broadband Plan, Spectrum etc.
LDC and SIDS	Afghanistan, PNG, Kiribati	<ul style="list-style-type: none"> - Infrastructure Sharing, - Interconnection, - Cost Modeling , & - MCTs & e-post
Gender	Asia-Pacific	<ul style="list-style-type: none"> - Gender Balance in Digital Economy
Youth and Children	Asia-Pacific	<ul style="list-style-type: none"> - Youth Incentive Scheme in Asia-Pacific Region

ITU: Planned Highlights for 2009 in Asia-Pacific

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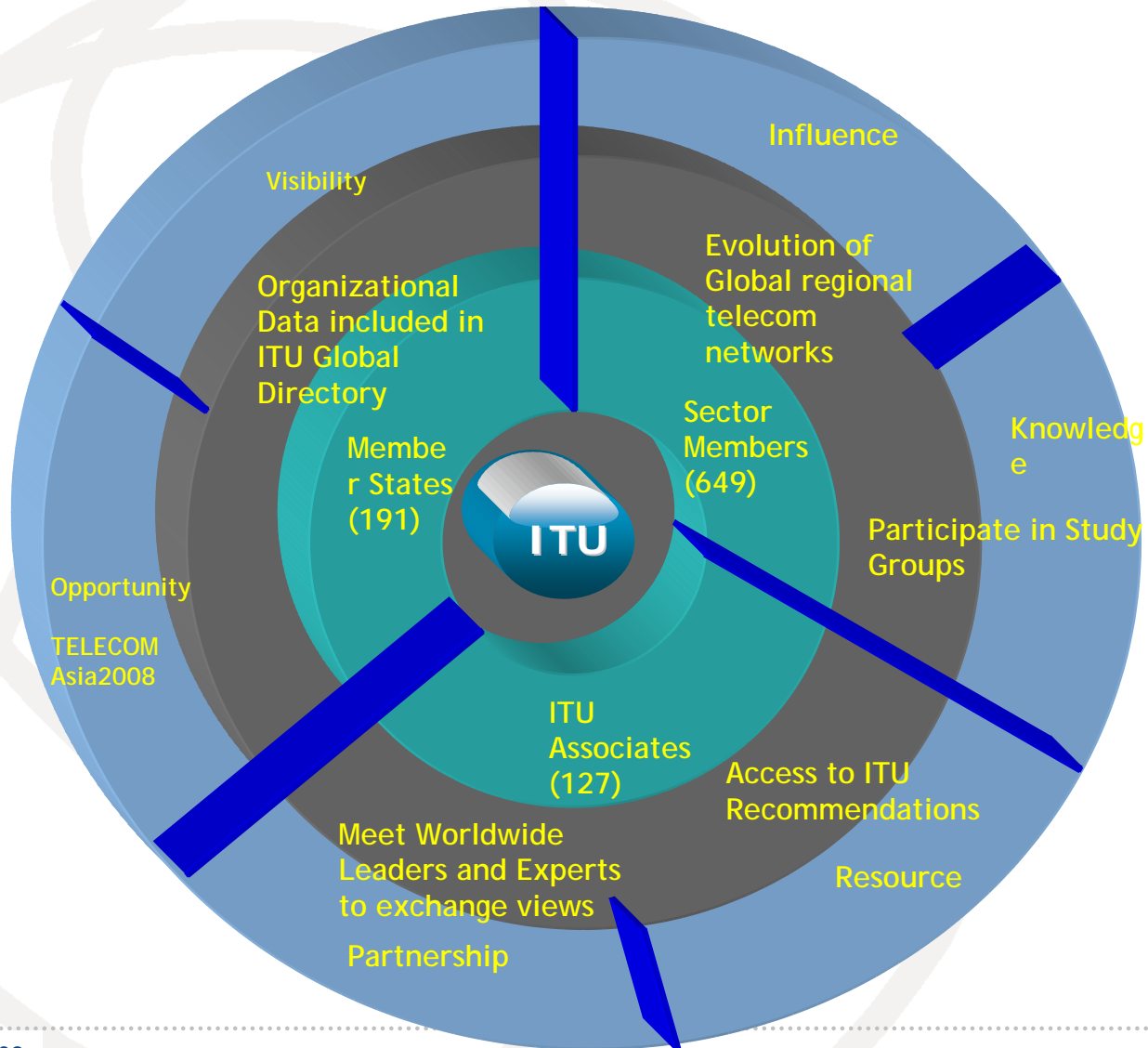
Global Programs	Countries/ Sub Region/ Region	Specific Areas of Assistance
Policy and Regulatory	Bangladesh, Myanmar, Brunei, Lao PDR Vanuatu, Marshall Islands, Nauru, Fiji, Singapore, China, Australia, Cambodia, Laos, Myanmar, Vietnam, Bhutan	SMP, Licensing, Numbering , Workshop on Policy and Regulation, Training, Seminar, Sub Regional Policy-Regulatory Meeting, Interconnect Costing Model
Infrastructure and technology development	China, Maldives, Asia-Pacific Region and Sub-region	Spectrum Monitoring, Digital Radio, Sub Regional Connectivity, NGN Planning and Training, Rural Communication
E-strategies and ICT applications	Nepal, Magnolia, ASEAN, Asia-Pacific Region and Sub-region	ICT applications , MonCERT, Pacific CERT, ASEAN M-Commerce
Human capacity-building	DPR Korea, Asia-Pacific Region	Policy, Regulations, Technologies to Business Management
LDC and SIDS	Tonga, PNG, Nauru, Marshall Islands, Lao PDR, Afghanistan, Pacific Islands, Asia-Pacific Region	Policy and Regulatory, e Services, Regional Forum on National Emergency Plan, Internet Exchange, Sub Regional Connectivity
Statistics	Bangladesh, Philippines	MIS and indicators
Gender	Cambodia	Empowering women through deployment of MCTs
Youth and Children	Asia-Pacific Region	Youth Initiatives

Conclusions

- Enhancing role of developing countries in the process and use of standardization through bridging the standardization gap by close collaboration among ITU-T, ITU-R and ITU-D
- **Creation of Reflector Group for Asia-Pacific Regions for:**
 - Exchange of views to discuss ITU-T Recommendations
 - Contact with Focal Points in ITU-T SG
 - Nominating contact point from each Member
- Your active participation and contribution is the key to bridging the standardization gap

Additional Reference

Benefits of ITU Membership



ITU-D Sector Members: Asia-Pacific

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1. Afghan Wireless Communication co. Afghanistan
2. Telecom Development Company Afghanistan Ltd.
3. Asia Pacific Network Information Centre - Australia
4. Bhutan Telecom
5. China Netcom (Group) Company Limited
6. China Telecommunications Corporation
7. Huawei Technologies Co. Ltd.- China
8. ZTE Corporation - China
9. Pacific Islands Forum Secretariat - Fiji
10. Bharat Sanchar Nigam Ltd. - India
11. Bharti Airtel Limited - India
12. Cellular Operators Association of India
13. ITU-APT Foundation of India
14. Mahanagar Telephone Nigam Ltd. - India
15. Reliance Infocomm Ltd. - India
16. Telecom Disputes Settlement & Appellate Tribunal - India
17. Telecom Regulatory Authority of India
18. PT. INDOSAT Tbk. - Indonesia
19. PT. Telekomunikasi Indonesia Tbk
20. Telecommunication Company of Iran
21. Israel Export and International Cooperation Institute
22. Fujitsu Limited - Japan
23. Hitachi, Ltd. - Japan
24. KDDI Corporation - Japan
25. NEC Corporation - Japan
26. National Institute of Information and Communications Technology - Japan
27. Nippon Telegraph and Telephone East Corporation - Japan
28. Nippon Telegraph and Telephone West Corporation - Japan
29. Nomura Research Institute Ltd.- Japan
30. The ITU Association of Japan, Inc.
31. Tokai University - Japan
32. KT Corporation - R.O. Korea
33. Korea Agency for Digital Opportunity & Promotion
34. National Internet Development Agency of Korea
34. Asia-Pacific Broadcasting Union - Malaysia
36. Asia-Pacific Institute for Broadcasting Development - Malaysia
37. Global Knowledge Partnership - Malaysia
38. Green Packet Berhad - Malaysia
39. Maxis Communications Bhd. - Malaysia
40. Telekom Malaysia Berhad
41. Cape Range Wireless Malaysia Sdn. Bhd.
42. Communications Regulatory Commission of Mongolia
43. MobiCom Corporation - Mongolia
44. Information Communication Network Company - Mongolia
45. National Telecommunication Corporation - Pakistan
46. Pakistan Mobile Communications Limited
47. Pakistan Telecommunication Company Limited
48. e Worldwide Group - Pakistan
49. Callmate Telips Telecom Ltd. - Pakistan
50. Paktel Limited - Pakistan
51. Smart Communications, Inc. - Philippines
52. Philippine Global Communications, Inc.
53. Dialog Telekom Limited - Sri Lanka
54. Sri Lanka Telecom Ltd.
55. Advanced Info Service Public Company Ltd. - Thailand
56. Asia-Pacific Telecommunity - Thailand
57. Total Access Communication PLC - Thailand
58. True Corporation Public Co., Ltd. - Thailand
59. Telekom Malaysia International

Membership Application at <http://www.itu.int/members/sectmem/Form.pdf>

Categories of Sector Members

The following entities or organizations may become Sector Members according to the relevant provisions of the Convention and for which the admission procedure may vary:

- Recognized operating agencies (ROA)*, scientific or industrial** organizations and financial or development institutions which are approved by the administration of the Member State concerned
- Other entities dealing with telecommunication matters which are approved by the administration of the Member State concerned
- Regional and other international telecommunication, standardization, financial or development organizations

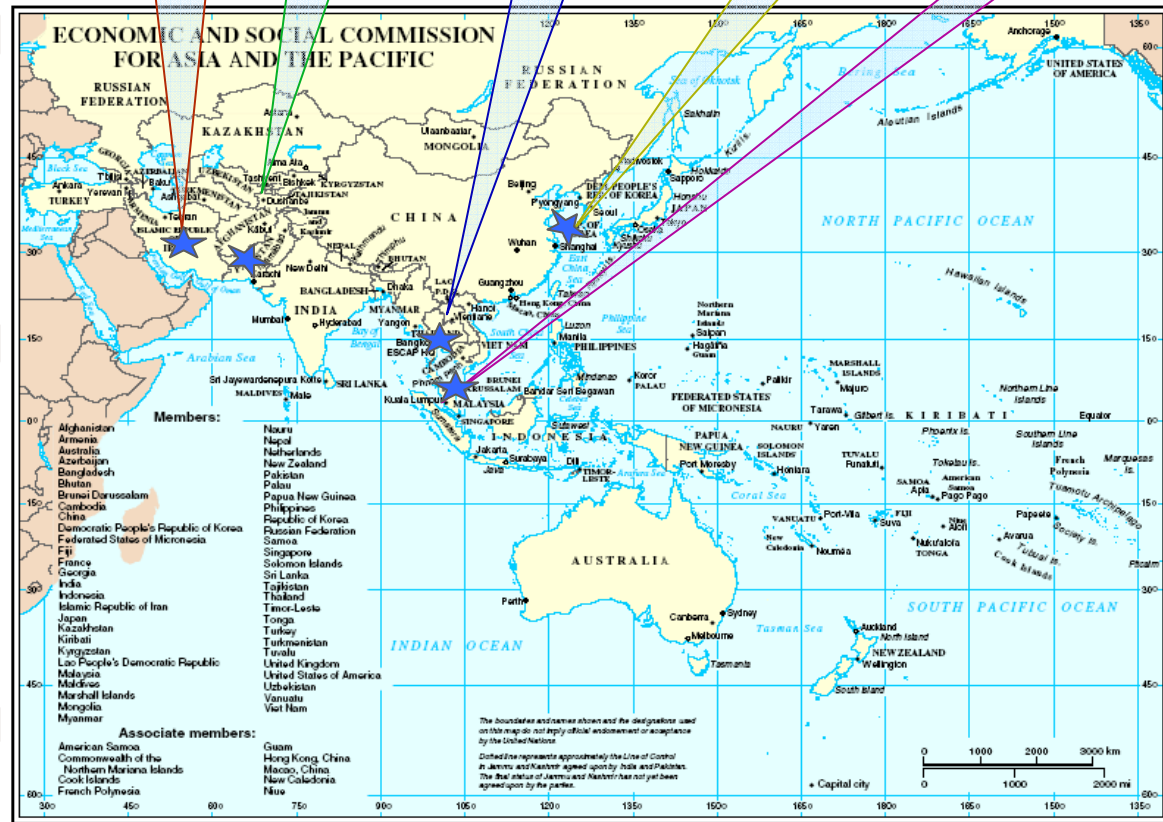
* *Telecommunication Operators & service providers*

** *Telecom/ICT equipment suppliers, integrators, technology suppliers, SW and application developers, etc.*

ITU Asia-Pacific Regional Capacity Building Initiative - ASP CoE

Asia-Pacific Centres of Excellence (ASP CoE) - 5 Hosts & Partners

- Spectrum Management (Iran)
- Policy & Regulation (Pakistan)
- Business Management (Thailand)
- Technology Awareness (Rep. of Korea)
- Rural ICT Development (Malaysia)



ITU Asia-Pacific ASP-CoE Programs 2008

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No	Course Title	Dates (2008)	Delivery Mode	Host
1	Porting Process Guidelines and Regulations for Mobile Number Portability	Jan 14- Feb 29	Online	PTA, Pakistan
2	Spectrum Management and Advanced Spectrum Management	Jan 14 - Feb 29	Online	MICT, Iran
3	Efficient Utilization of Spectrum for Mobile Networks	April 20 -24	Face to Face	MICT, Iran
4	Fundamentals of IPv6	March 24 - May 9	Online	PNU, Rep of Korea
5	Distance Learning on Rural Broadband Technologies and USO	August	Online	UUM, Malaysia
6	Spectrum Management and Advanced Spectrum Management (Repeat Course)	April 28 - June 6	Online	MICT, Iran
7	Ubiquitous Technology: Concepts and Applications	July 1-4	Face to Face	PNU, Rep of Korea
8	Fundamentals of IPv6 (Repeat Course)	Sep 1- Oct 17	Online	PNU, Rep of Korea
9	Porting Process Guidelines and Regulations for Mobile Number Portability (Repeat Course)	June 2- July 6	Online	PTA
10	ICT for Disaster Management	August	Face to Face	UUM, Malaysia
11	Spectrum Pricing	August 25-28	Face to Face	MICT, Iran
12	Business Management (TBC)	August 19-22	Face to Face	MICT, Thailand
13	Mobile Quality of Service	October 14-17	Face to Face	PTA, Pakistan
14	NGN Planning and Applications	November 11 - 14	Face to Face	PNU, Rep of Korea
15	CIO Capacity Building and Development	November 25-28	Face to Face	MICT, Thailand
16	Designing Rural Broadband Plan	December 2- 5	Face to Face	UUM, Malaysia
17	CIO Capacity Building and Development	December	Online	MICT, Thailand

ITU Publication Research Resource

- Policy Regulation Statistics
- Spectrum Management
- Network Planning
- Capacity Building
- Standards
- Cybersecurity



<http://www.itu.int/pub/D-REG-TTR.9-2007>

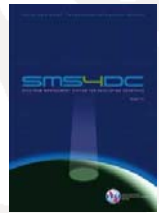


<http://www.itu.int/ITU-D/icteye/Default.aspx>



ict regulation toolkit

<http://icttoolkit.infodev.org/en/index.html>



<http://www.itu.int/ITU-D/tech/spectrum-management/index.html>

Spectrum Fees Databank

http://www.itu.int/ITU-D/study_groups/SGP_2002-2006/SF-Database/index.asp

Network Planning

http://www.itu.int/ITU-D/tech/network-infrastructure/GNPT_Final_17August2005.pdf

Centre of Excellence

<http://www.itu.int/ITU-D/hrd/>

E-learning Centre



**ITU-T
Lighthouse**

<http://www.itu.int/ITU-T/lighthouse/index.phtml>

**ITU-R
Publications**

<http://www.itu.int/publications/sector.aspx?lang=e§or=1>



Various Handbooks on topical issues such as NGN, IP, Emergency Communications, Cybersecurity etc.

THANK YOU

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