









ITU/NBTC Conference on Digital Broadcasting 2017

Bangkok, Thailand

Dr. AMAL Punchihewa

Director of Technology & Innovation, ABU

Vice-Chair of World Broadcasting Union – Technical Committee (WBU-TC)
Co-Chair of IRG-AVA SG-9 in ITU-T

Distinguished Lecturer of IEEE Broadcast Technology Society













ABU-ITU-NBTC Collaboration in Digital Broadcasting

Digital Broadcasting Panel Discussion

Dr. AMAL Punchihewa

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Dr Amal Punchihewa

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Outline

- Memberships of two organisations
- Roadmaps
- ASO
- Capacity building
- Advisory
- Summary





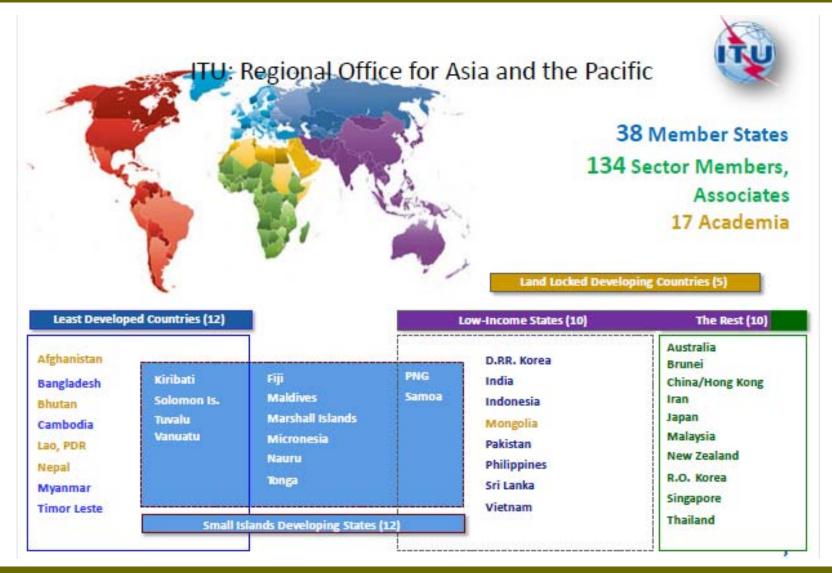








ITU Member States















Sub-Regions

- ABU global membership in 67 states
 - ABU has members in 38 states in Asia & Pacific
 - Among them, 11 states in Pacific
 - 10 states in ASEAN
- Asia:
 - 38 Asian countries including ASEAN, Pacific
 - ABU has 110 Broadcasters and
 - 69 Non-broadcasters
 - Total 179 Asian members
- Pacific
 - 11 Pacific-countries, ABU has members in all states
 - Total 26 Pacific members













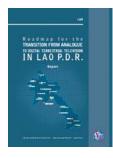
Pacific

Fiji, Samoa, Tonga, Papua New Guinea, Vanuatu



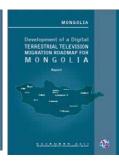


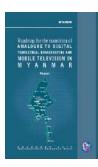












Cambodia

Fiji

Indonesia

Lao PDR

Maldives

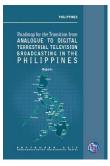
Micronesia

Mongolia

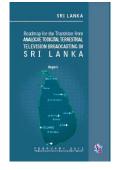
Myanmar



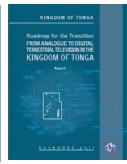


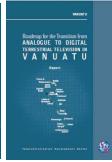












Nepal

Papua New Guinea

Philippines

Samoa

Sri Lanka

Thailand

Tonga

Vanuatu











Deadlines of ASP Countries

Country	Deadline ASO	Year Launch	DTTB	Revised or year of possibility
Mongolia	2015-10-05	2014	DVB-T2	Completed
Papua New Guinea	2017	2014	DVB-T2	Ongoing
Samoa	2018	2014	DVB-T2	Ongoing
Fiji	2018	2015	DVB-T2	Ongoing
Indonesia	2018		DVB-T2	Ongoing
Myanmar	2020	2013	DVB-T2	Ongoing
Thailand	2020	2014	DVB-T2	Ongoing
Cambodia	2020		DVB-T, DVB-T2, DTMB	Ongoing
Lao P.D.R.	2020		DVB-T, DTMB	
Maldives	2020		DVB-T2, ISDB-T	
Nepal	2017		DVB-T2	
Philippines	2018		ISDB-T	
Sri Lanka	2017		DVB-T2, ISDB-T	
Tonga				
Vanuatu	2017		DVB-T2	
Kiribati	2017		ND	
Micronesia			ND	
Nauru			ND	
Timor-Leste	2024		ND	













Tx Technologies of Pacific Countries

Country	Deadline ASO	Year Launch	DTTB	Revised or year of possibility
Papua New	2017	2014	DVB-T2	Ongoing
Guinea				
Samoa	2018	2014	DVB-T2	Ongoing
Fiji	2018	2015	DVB-T2	Ongoing
Tonga				
Vanuatu	2017		DVB-T2	
Kiribati	2017		ND	
Micronesia			ND	
Nauru			ND	
Timor-Leste	2024		ND	











ASO Dates of Pacific countries

Country	Year Launch	DTTB	ASO	Revised or year of possibility
Fiji	2015	DVB-T2	2018	Ongoing
Kiribati		ND	2017	
Micronesia		ND		
Thailand	2014	DVB-T2	2020	Ongoing
Nauru		ND		
Papua New	2014	DVB-T2	2017	Ongoing
Guinea				
Samoa	2014	DVB-T2	2018	Ongoing
Timor-Leste		ND	2024	
Tonga		DVB-T2		
Vanuatu	2016	DVB-T2	2017	Ongoing











Key Learning for the Pacific

- Driven by Government
- Investigate the STB marketplace
- Involve many types of stakeholders radio, satellite, PayTV, cable
- Ensure Broadcasters work together, plan ahead
 - Common Standards/Parameters
 - Equal Coverage
 - Share Content within Multiplex
 - Enables shared distribution costs
 - Single message for viewers
- Work with neighbouring countries systems (Aus, NZ, Pacific)













Summary

- Continued to collaborate and closely work with ITU as well as NBTC
- Human capacity building in DTV
- Deployment and rollout of DTT is slow in APAC
- Lag in digital delivery over the air does not provide opportunities to broadcasters
- Integrated services with IBB (Integrated Broadcast-Broadband)



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Thank you for your patience





