

# APT and ASP1

**ITU Regional Development Forum for the Asia-Pacific ICT④SDGs:**

**Towards the implementation of WTDC17 Outcomes**

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## Understanding LDCs, SIDS and LLDCs

APT is trying to listen the various voices of LDCs, SIDS and LLDCs for identifying specific assistances through tailored work programmes



# List of LDCs, SIDS and LLDCs in APT Members

LDCs	SIDS	LLDCs	LDCs + SIDS + LLDCs
Afghanistan		Afghanistan	Afghanistan
Bangladesh			Bangladesh
Bhutan		Bhutan	Bhutan
Cambodia			Cambodia
	Fiji		Fiji
Kiribati	Kiribati		Kiribati
Lao PDR		Lao PDR	Lao PDR
	Maldives		Maldives
	Marshall Islands		Marshall Islands
	Micronesia		Micronesia
		Mongolia	Mongolia
Myanmar			Myanmar
	Nauru		Nauru
Nepal		Nepal	Nepal
	Palau		Palau
	PNG		PNG
	Samoa		Samoa
	Singapore		Singapore
Solomon Islands	Solomon Islands		Solomon Islands
	Tonga		Tonga
Tuvalu	Tuvalu		Tuvalu
Vanuatu	Vanuatu		Vanuatu
<b>11</b>	<b>15</b>	<b>5</b>	<b>22</b>

# List of LDCs, SIDS and LLDCs by sub-region

LDCs + SIDS + LLDCs	South Asia	South-East Asia	Pacific	East Asia
Afghanistan	Afghanistan			
Bangladesh	Bangladesh			
Bhutan	Bhutan			
Cambodia		Cambodia		
Fiji			Fiji	
Kiribati			Kiribati	
Lao PDR		Lao PDR		
Maldives	Maldives			
Marshall Islands			Marshall Islands	
Micronesia			Micronesia	
Mongolia				Mongolia
Myanmar		Myanmar		
Nauru			Nauru	
Nepal	Nepal			
Palau			Palau	
PNG			PNG	
Samoa			Samoa	
Singapore		Singapore		
Solomon Islands			Solomon Islands	
Tonga			Tonga	
Tuvalu			Tuvalu	
Vanuatu			Vanuatu	
<b>22</b>	<b>5</b>	<b>4</b>	<b>12</b>	<b>1</b>

# Presence of the Pacific at APT meetings

members	2015	2016	2017	members	2015	2016	2017
Cook Islands*	3	3	4	Palau	5	1	6
Fiji	3	1	0	PNG	4	3	5
Kiribati	1	2	2	Samoa	2	5	4
Marshall Islands	1	4	1	Solomon Island	3	2	1
Micronesia	0	0	1	Tonga	5	4	4
Nauru	3	1	1	Tuvalu	1	1	3
Niue*	1	2	3	Vanuatu	3	1	6
				<b>Average of Pacific</b>	<b>2.5</b>	<b>2.1</b>	<b>2.9</b>
				<b>Average in APT</b>	<b>6.1</b>	<b>5.4</b>	<b>4.8</b>

# Presence of the Pacific at APT trainings

members	2015	2016	2017	members	2015	2016	2017
Cook Islands*	6	0	1	Palau	5	2	2
Fiji	0	1	2	PNG	1	1	3
Kiribati	1	0	1	Samoa	1	4	1
Marshall Islands	1	0	1	Solomon Island	3	0	1
Micronesia	1	0	0	Tonga	4	4	5
Nauru	1	0	0	Tuvalu	4	2	0
Niue*	0	0	3	Vanuatu	0	2	5
				<b>Average of Pacific</b>	<b>2.0</b>	<b>1.1</b>	<b>1.8</b>
				<b>Average in APT</b>	<b>7.2</b>	<b>5.7</b>	<b>4.9</b>

# Presence of the Pacific at the PRFP

- ✓ PRFP-8 (2014, Fiji) : 11/14 (Fiji, Kiribati, Marshall Islands, Nauru, Palau, PNG, Samoa, Solomon Islands, Tonga, Tuvalu, Vanuatu);
- ✓ PRFP-9 (2015, Tonga) : 13/14 (Fiji, Kiribati, Marshall Islands, Nauru, Palau, PNG, Samoa, Solomon Islands, Tonga, Tuvalu, Vanuatu, Cook Islands, Niue);
- ✓ PRFP-10 (2016, PNG) : 12/14 (Fiji, Kiribati, Marshall Islands, Nauru, PNG, Samoa, Solomon Islands, Tonga, Tuvalu, Vanuatu, Cook Islands, Niue);
- ✓ PRFP-11 (2017, PNG) : 11/14 (Fiji, Kiribati, FSM, Nauru, PNG, Samoa, Solomon Islands, Tonga, Tuvalu, Vanuatu, Cook Islands);

# Observations

- ✔ Albeit LDCs, SIDS and LLDCs are followers not leading countries in adopting ICTs, ties of emerging ICT issues inevitably arrive with different paths to those countries;
- ✔ The time-lapse adoption of ICT provides a good opportunity to be a better-off Analyzer, but the human/institutional capacity to comprehend the trends is also limited;
- ✔ Boosting human/institutional capacity would be a key factor;
- ✔ Tailored assistance is also required to address specific needs.





# APT's contribution to ASP1

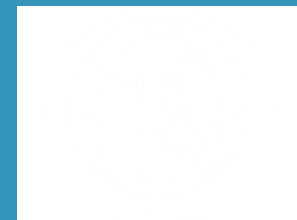
ASP1 says "Addressing special needs of least developed countries, small island developing states, including Pacific island countries, and landlocked developing countries" and APT Constitution says "The objective of APT shall be to foster the development of telecommunication services and information infrastructure throughout the region with a particular focus on the expansion thereof in less developed areas."





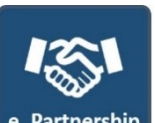


## **ASP1: Addressing special needs of least developed countries, small island developing states, including Pacific island countries, and landlocked developing countries**

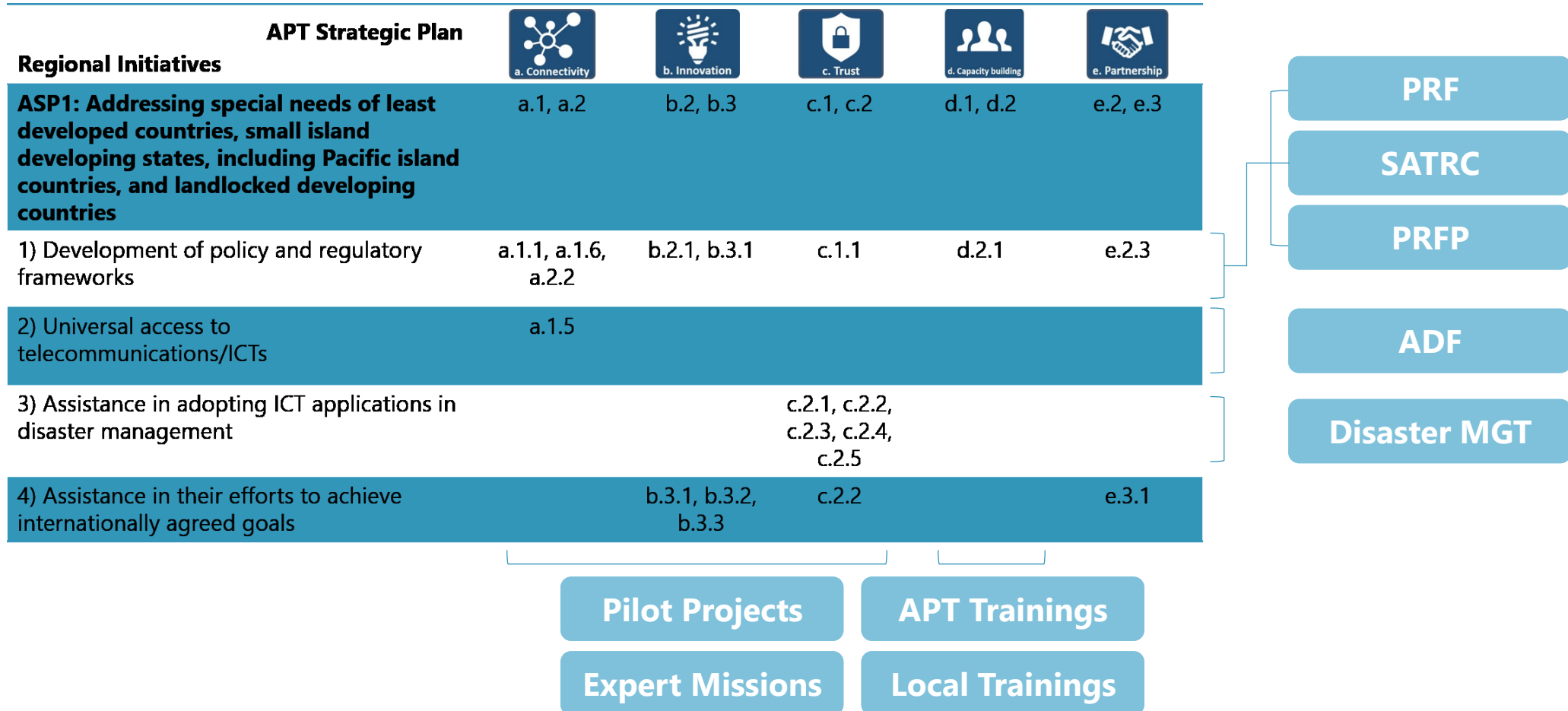
- ✓ **Objective:** To provide special assistance to least developed countries (LDCs), small island developing states (SIDS), including Pacific island countries, and landlocked developing countries (LLDCs) in order to meet their priority telecommunication/ICT requirements.
  
- ✓ **Expected results**
  - 1) Development of policy and regulatory frameworks for broadband infrastructure, ICT applications and cybersecurity, taking into account the special needs of LDCs, SIDS and LLDCs, and strengthening of human capacity to address future policy and regulatory challenges
  - 2) Universal access to telecommunications/ICTs promoted in LDCs, SIDS, and LLDCs
  - 3) Assistance to LDCs, SIDS and LLDCs in adopting telecommunication/ICT applications in disaster management, relating to disaster prediction, preparedness, adaptation, monitoring, mitigation, response, rehabilitation and recovery of telecommunication/ICT networks based on their priority needs
  - 4) Assistance to LDCs, SIDS and LLDCs in their efforts to achieve internationally agreed goals, such as the 2030 Agenda for Sustainable Development, the Sendai Framework for Disaster Risk Reduction, the Istanbul Plan of Action

# APT's Supplementary works for ASP1



<b>Regional Initiatives</b> <b>APT Strategic Plan</b>	 a. Connectivity	 b. Innovation	 c. Trust	 d. Capacity building	 e. Partnership
<b>ASP1: Addressing special needs of least developed countries, small island developing states, including Pacific island countries, and landlocked developing countries</b>	a.1, a.2	b.2, b.3	c.1, c.2	d.1, d.2	e.2, e.3
1) Development of policy and regulatory frameworks	a.1.1, a.1.6, a.2.2	b.2.1, b.3.1	c.1.1	d.2.1	e.2.3
2) Universal access to telecommunications/ICTs	a.1.5				
3) Assistance in adopting ICT applications in disaster management			c.2.1, c.2.2, c.2.3, c.2.4, c.2.5		
4) Assistance in their efforts to achieve internationally agreed goals		b.3.1, b.3.2, b.3.3	c.2.2		e.3.1

# APT's Supplementary works by Work Programme



# Pilot Projects (1)

## ✔ Connectivity

- ✔ Effective Broadband infrastructure for development of communities in Dullu Municipality, Nepal - Nepal
- ✔ Rural Broadband for Young in Samoa Project - Samoa;
- ✔ Pilot installation of Tele-Center for remote education and health Care in Rural Area and isolated Island in Micronesia - FSM;
- ✔ Project on "Livelihood Opportunities and Cultural Preservation through a Sustainable and Eco-Friendly ICT Tele-Center - Marshall Islands ;
- ✔ Establishment of Smart Rural Broadband Network Using a Combination of Unlicensed WiFi, VHF and TV White Space Bands Depending Upon the Geographical Terrains in 16 Villages of Earthquake Affected Gorakha District of Nepal to Connect Community Schools, and Health Clinics and Build Wi-Fi Hotspots, Emergency Communication System and Early Warning System for the Villagers – Nepal;
- ✔ Implementation of Broadband Network using the VSAT System in Rural Areas – Mongolia;
- ✔ Study on Free WiFi System to enhance public and tourism services In Lao P.D.R

# Pilot Projects (2)

## ✔ Innovation

- ✔ Academic Cloud System for the nationwide computer universities in Myanmar for ICT capacity building including countermeasures for Cybersecurity - Myanmar
- ✔ Deploying Networking Public Cloud System Nationwide in Myanmar, Extending from the Private Technology Cloud System at UIT, for bottom up ICT skill and Academic Validation - Myanmar
- ✔ Establishment of Village Internet Shops Fully Powered by Solar Energy in Fifteen Villages of Rural Nepal to Provide Multiple ICT Services and For the Deployment of Wireless Tracking System for School Children and Trekkers on the Mountain Trails for Safety – Nepal
- ✔ Medical Information System to enhance public safety and improve Health & Medical services with ICT for rural areas in Lao P.D.R. - Lao P.D.R.
- ✔ Palau's first-ever rural telecenter : A Model of ICT Applications for eLearning, eHealth, Disaster Management, Economic Development, and Cultural Preservation in rural communities – Palau
- ✔ GIS Integrated Asset Management System – Nepal

# Pilot Projects (3)

## ✔ Disaster Management

- ✔ Disaster Related Information Dissemination (DID) by ICT utilization for rural areas in Lao P.D.R. - Lao P.D.R.
- ✔ e-disaster communication network in rural island environment - Tonga;
- ✔ Full Time Active Volcano Surveillance, Geo-hazards Monitoring, and Creating Disaster Emergency Information Dissemination Station – Vanuatu;
- ✔ Digital Infrastructure Building and Implementation Prospects: Implementation of modern communication technology solution (UCDMR based Community Information System) for PPDR and welfare in Dumre-Bhansar Nepal - Nepal

# Pilot Projects (4)

- ✓ EBC Funds (EBC-J & EBC-K) are available to assist members



- ✓ (Note) For EBC-J, APT Affiliate Members of Japan need to be contacted in advance ([aptict@apt.int](mailto:aptict@apt.int)) for EBC-K, NIA/Korea should be contacted ([ebc-k@apt.int](mailto:ebc-k@apt.int)) to draw up proposals.



# Expert Missions (1)

- ✔ Assisting Lao P.D.R. for setting up e-Government Strategy (partner with NIA/Korea);
- ✔ Assisting Bhutan for setting up National Emergency Telecommunication Plan (partner with JTEC/Japan);
- ✔ Assisting members in Spectrum Management by AFIS:
  - ✔ Vanuatu, Tonga, FSM, Tuvalu, PNG, Niue, Cook Islands, Nepal, Bangladesh, etc.

# Expert Missions (2)

## ✓ Procedures for assisting members



- ✓ Needs survey conducts together with needs for training courses;
- ✓ Based on the review by APT and partner organization, the expert mission could be extended another year to conclude the mission;
- ✓ Contact [apthrd@apt.int](mailto:apthrd@apt.int) for the details

# Training Courses – APT

## ✔ APT normal training (in China, India or Thailand)

No.	Training Courses	Partners	Schedule
1	Information Security including IoT security	NUPT (China)	19-27 Jun
2	5G Mobile Communication System and Internet of Things	XUPT (China)	25 Jun-5 July
3	Internet Plus and 5G	BUPT (China)	4-11 July
4	(Affiliate Member) Broadband Access Network Technology & Solutions	WRIPT (China)	16-27 July
5	Spectrum Management and Monitoring	RGMTTC (India)	1-7 Aug
6	Policy on Cyber Security for Safeguarding Public Safety - Online & Face2Face	TOT (Thailand)	6 Aug-7 Sep (Online) 26-30 Nov (Face2Face)
7	Licensing in a Convergent Environment	RTTC Nagpur (India)	5-11 Sep
8	Satellite Communication	ALTTC Ghaziabad (India)	12-18 Sep
9	Internet of Things (IoT) and its Platform and Applications	TOT (Thailand)	15-19 Oct
10	The influence of Big Data and Telecommunications	E-CAIST (China)	30 Oct -8 Nov

## ✔ APT EBCs training (in Japan and Korea, Rep. of)

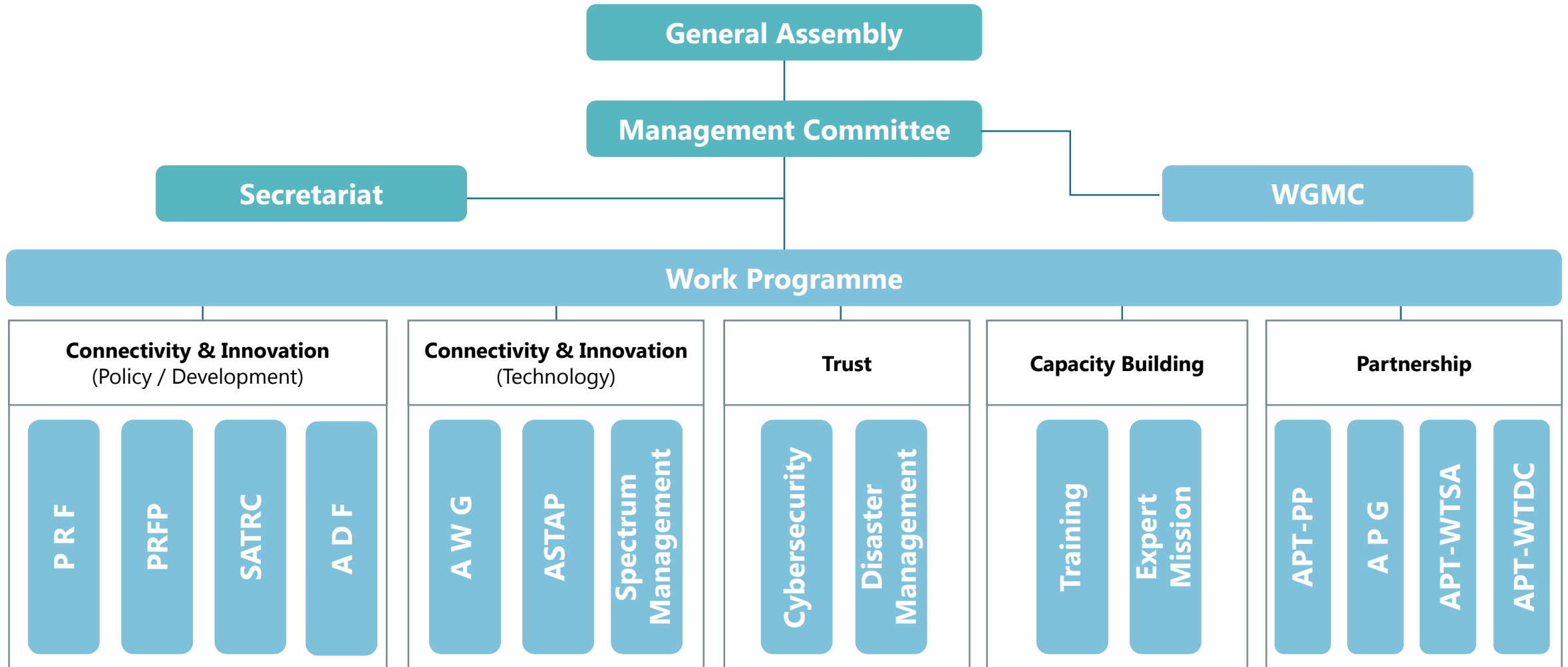
# Training Courses – Local Training

- ✔ It is intended to provide a tailored training course for particular members

No.	Training Courses	Partners	Venue	Schedule
1	Children and Mobile and Technology/ Women and Mobile	GSMA	Samoa	3Q/4Q
2	Radio Signals and Health	GSMA	Maldives	3Q/4Q
3	DNS/DNSSEC for operator	APNIC	Bhutan	3Q/4Q
4	Mobile Money for Financial Inclusion	GSMA	Myanmar	3Q/4Q
5	Universal Access / Satellite Comm. / Cybersecurity Fundamental	tbd	Tuvalu	3Q/4Q
6	Policy on Cybersecurity / Spectrum Management	tbd	FSM	3Q/4Q
7	Broadband Optical Network / FTTH Technologies	tbd	Niue	3Q/4Q

- ✔ Partners with APT Training Institutions, APNIC, GSMA and ISOC.

# Work programme structure of APT



# Policy and Regulation Forum for the Pacific

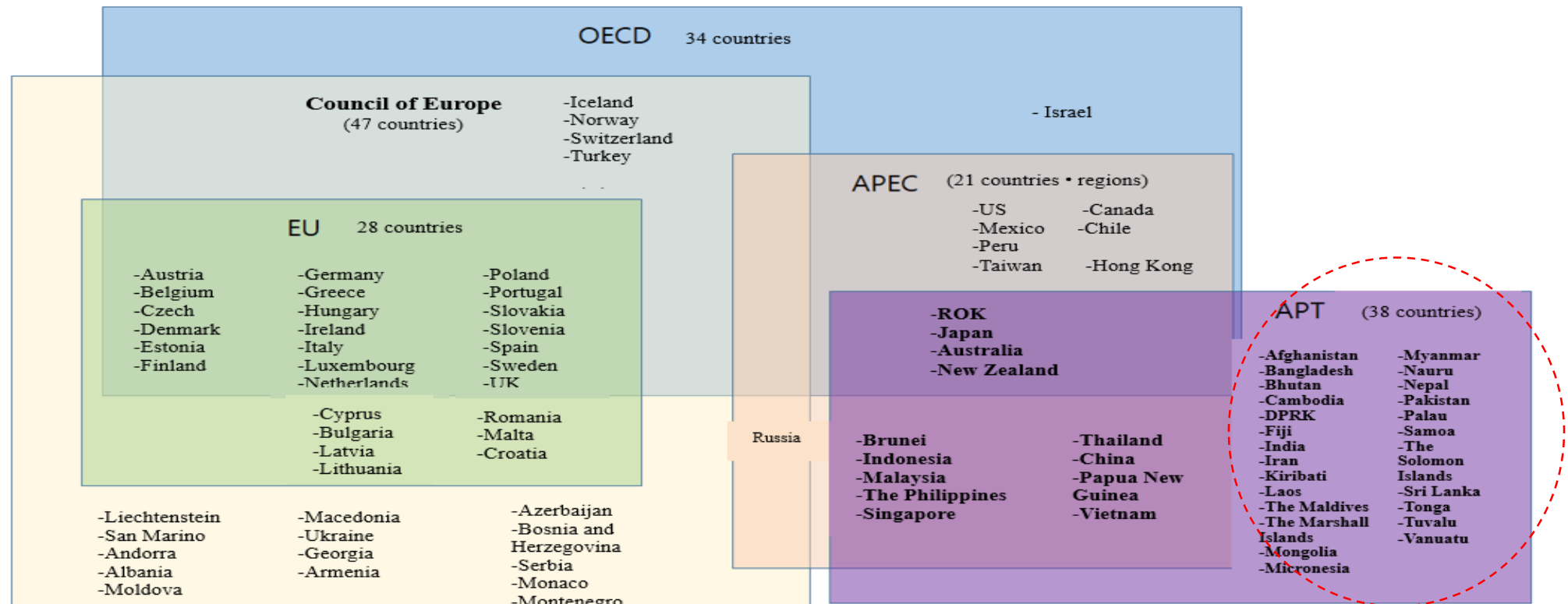
- ✓ 11<sup>th</sup> Policy and Regulation Forum for the Pacific (27-29 Nov. 2018 / Samoa) on:
  - ✓ *Trends on ICT Policy and Regulation / Updates of the Pacific;*
  - ✓ *AI and IoT for the Pacific;*
  - ✓ *Securing Critical Information Infrastructure as well as citizens and their data in the cyberspace;*
  - ✓ *Natural Disaster preparedness, risk reduction and mitigation;*
  - ✓ *Closed Session for Policy Makers and Regulators;*
  - ✓ *Spectrum Management in the Pacific and its challenges*
- ✓ D-1 (26 Nov.) : Internet Connectivity Workshop “Ensuring Sustainable Connectivity in the Pacific” (co-organized by ISOC, APNIC and partner by ICANN)
- ✓ D+1 (30 Nov.) : WS on catalyzing e-Application in the Pacific (co-organized by ITU, PITA)

# Spectrum Management

- ✔ APT Symposium on Spectrum Management (3 – 5 Sep. 2018 / Philippines)
  - ✔ Overview national spectrum policy with industry trend;
  - ✔ Identifying areas of common interest and collaboration in the region, ranging from new technology (such as 5G and satellite technology) and spectrum re-farming, to resolution of cross-border interference.;
  - ✔ Sharing of best practices and experiences in spectrum management among member countries;
  - ✔ Spectrum re-farming and possible approaches for assigning re-farmed spectrum including auction
  
- ✔ APT Frequency Information System (AFIS) : <http://afis.apt.int>
  - ✔ launched in 2016 and conducted a training workshop 2017;
  - ✔ Input from Members is required and further hands-on training or pilot project will be provided.

# Cybersecurity

- ✔ APT Study on the Safe and Seamless Cross-border Transfer of Personal Data in the Asia-Pacific Region (APT – KISA/Korea) found only 13 Members out of 38 Members put Legislation on Personal Data Protection in place.







*Thank you*





# Appendix APT Strategic Plan corresponding to ASP1

Find out corresponding APT Strategic Action Plan for ASP1



# ASP1 – Dev. of Policy and Regulatory Frameworks

## ✔ Corresponding Action Plans of APT Strategic Plan (1)

a.1.1 Assist members to develop or update national broadband plans, emphasizing the importance of the development of fair, predictable and transparent policy and regulatory environments that promote investment, productivity, competition and consumer safeguards;

a.1.6 Share best practices, legislation and initiatives relevant to increasing broadband connectivity among members;

a.2.2 Assist members in development/update of colocation and infrastructure/spectrum sharing policies/regulations and innovative business models that support efficient and cost-effective deployment of digital infrastructure;

b.2.1 Support members in developing national policy and regulatory frameworks that support upscale ICT centric innovative technologies and services;

# ASP1 – Development of Policy and Regulatory Frameworks

## ✔ Corresponding Action Plans of APT Strategic Plan (2)

b.3.1 Support members in developing national policy and regulatory frameworks to enhance the use of ICT as an enabler in high-potential sectors such as education, health, agriculture, governance, energy, environment, finance and commerce;

c.1.1 Assist members to develop appropriate policies and strategies for cybersecurity, including critical information infrastructure protection such as terrestrial and submarine cable;

d.2.1 Support members in developing policies and initiatives to facilitate the spread of basic ICT skills and digital literacy for their citizens; ;

e.2.3 Provide an open consultative platform for policy makers and regulators in both ICT and other related sectors to address the issue of ICT convergence.

# ASP2 – Universal access to telecommunications/ICTs

## ✔ Corresponding Action Plans of APT Strategic Plan

a.1.5 Support members in deploying suitable technologies to maximize the benefits of universal service funds in the areas of access and backhaul broadband networks and source of power supply in bringing telecommunications/ICTs to unserved and underserved populations;

# ASP3 – Assistance in adopting ICT applications in disaster management

## ✔ Corresponding Action Plans of APT Strategic Plan

c.2.1 Assist members to develop national emergency telecommunication/ICT strategies;

c.2.2 Provide support to members that are prone to natural disasters in establishing ICT based solutions to assist with disaster preparedness, risk reduction and response, including wireless and satellite-based technologies;

c.2.3 Support members to use communication technologies for broadband public protection and disaster relief (PPDR);

c.2.4 Share information and experiences on data collection and analysis, early warning systems, business recovery and network reconstruction incorporating disaster resilient features; and

c.2.5 Strengthen collaboration and cooperation among key institutions, players and stakeholders to mitigate and manage risk in disaster management.;

# ASP4 – Assistance in their efforts to achieve internationally agreed goals

## ✔ Corresponding Action Plans of APT Strategic Plan

b.3.1 Support members in developing national policy and regulatory frameworks to enhance the use of ICT as an enabler in high-potential sectors such as education, health, agriculture, governance, energy, environment, finance and commerce;

b.3.2 Provide assistance to members in the development of ICT-enabled services and applications including smart cities by providing policy and regulatory guidelines, technical assistance and recommendations, and best practices;

b.3.3 Identify and share best practices, legislation and initiatives to support adoption and use of ICT;

c.2.2 Provide support to members that are prone to natural disasters in establishing ICTbased solutions to assist with disaster preparedness, risk reduction and response, including wireless and satellite-based technologies;

e.3.1 Maximize synergies, harness resources and minimize duplication of work through opportunities for cooperation with relevant international, regional and multilateral organizations.