ITU Asia Pacific Regional Development Forum 2017
ICTs for Sustainable Development in Asia-Pacific

MEETING SDG IN THE PACIFIC - ICT

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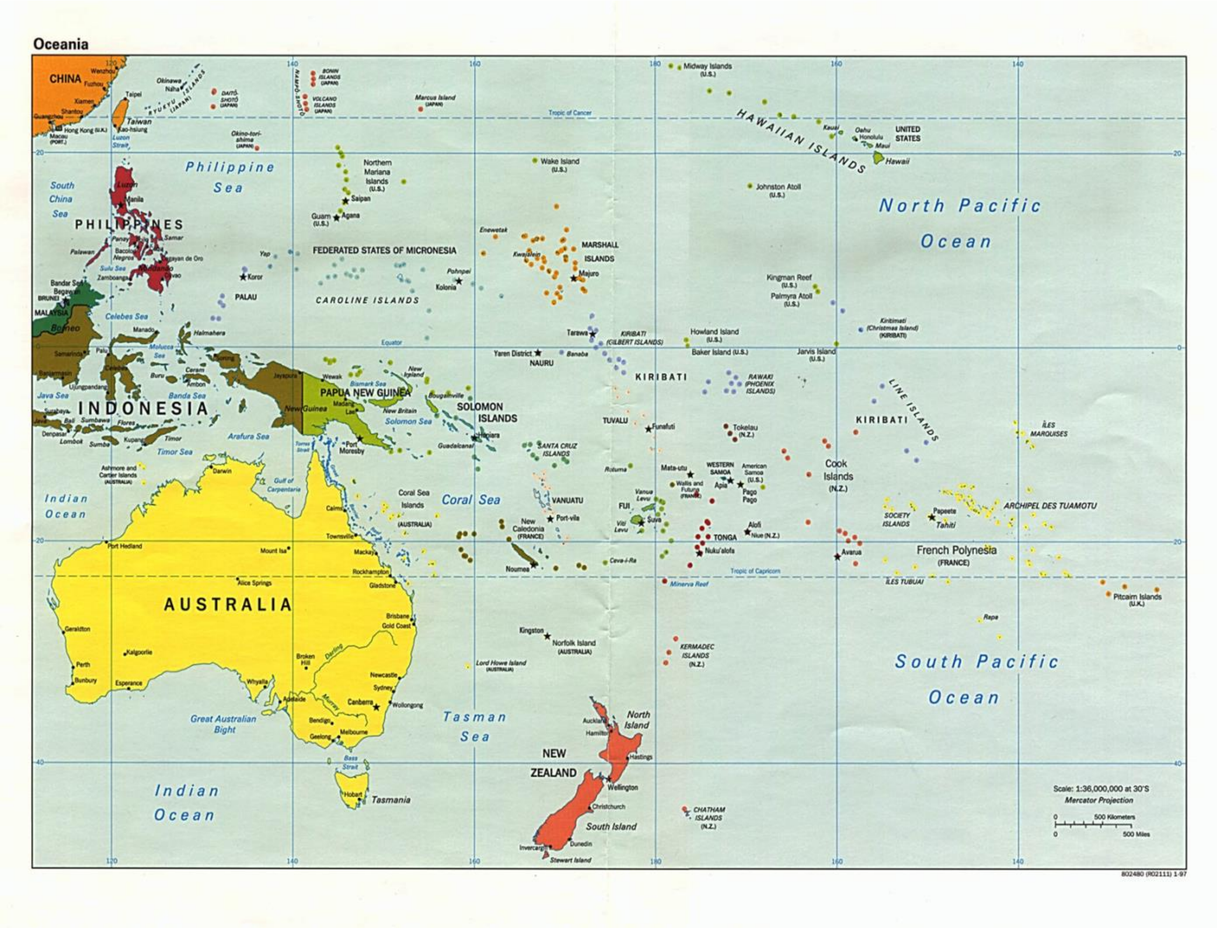
MCIT

PACIFIC ISLANDS TELECOMMUNICATIONS ASSOCIATION

1. Non Profit Organization
2. 22 Pacific Islands Economies
3. 189 members – Including Govt & Regulators
4. Interests of PICs in Telecommunications:

- improve, promote, enhance, facilitate and provide telecommunications services within full member and associate member countries



PACIFIC ISLAND COUNTRIES

1. 30,000 Islands scattered over 54 million square kms of Ocean
2. Population Range -1,600 (Tokelau/Niue) to 8 million (PNG)
3. Challenges and Limitations

   - Connectivity and bandwidth
   - Infrastructure and Technologies
   - Cost & Access to Funds
   - HR and Special Skills
   - Transport and Accessibility
   - Terrain and Environment
   - Affordability - Pricing
   - Local Content & Applications
   - Leadership/Ownership/Dependability

KIDANET

WorldRiskIndex Report 2014

The 15 countries that are most at risk worldwide

Country	Risk (%)	Rank
Vanuatu	36.50	1
Philippines	28.25	2
Tonga	28.23	3
Guatemala	20.68	4
Bangladesh	19.37	5
Solomon Islands	19.18	6
Costa Rica	17.33	7
El Salvador	17.12	8
Cambodia	17.12	9
Papua New Guinea	16.74	10
Timor-Leste	16.41	11
Brunei Darussalam	16.23	12
Nicaragua	14.87	13
Mauritius	14.78	14
Guinea-Bissau	13.75	15

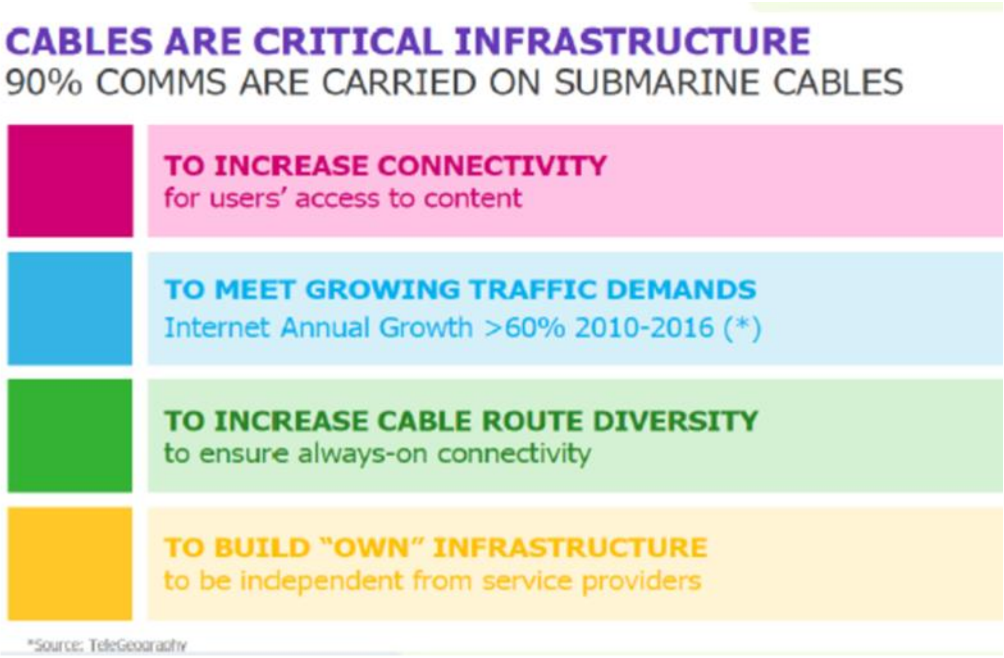
The 15 most exposed countries worldwide

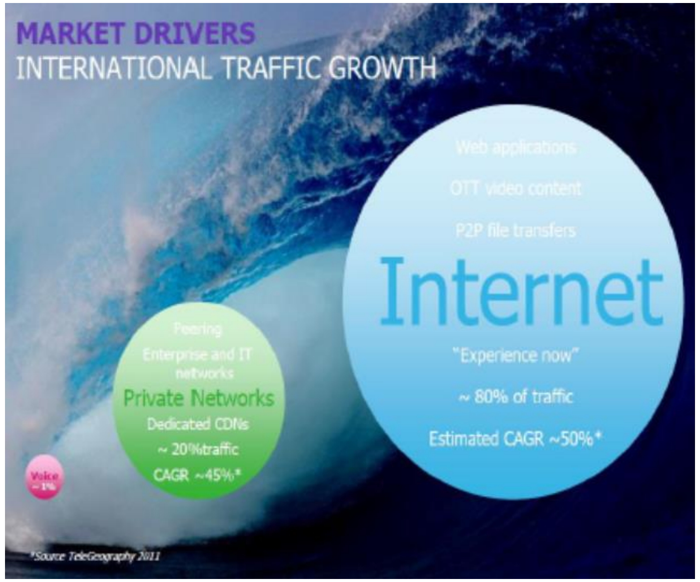
Country	Exp. (%)	Rank
Vanuatu	63.66	1
Tonga	55.27	2
Philippines	52.46	3
Japan	45.91	4
Costa Rica	42.61	5
Brunei Darussalam	41.10	6
Mauritius	37.35	7
Guatemala	36.30	8
El Salvador	32.60	9
Bangladesh	31.70	10
Chile	30.95	11
Netherlands	30.57	12
Solomon Islands	29.98	13
Fiji	27.71	14
Cambodia	27.65	15

INDUSTRY TRENDS IN PACIFIC ISLANDS

Bandwidth – is key

10G used to be with Carriers – but now moving to buyers (Enterprises)





Country Wide Report : March 2016

1 : Fixed telephone subscription per 100 population	17.87
2 : Mobile - cellular telephone subscription per 100 population	112.67
3 : Fixed (Wired) - broadband subscriptions per 100 population	1.53
4 : Wireless - broadband subscriptions per 100 population	6.07
5 : Active mobile - broadband subscription per 100 population	140.35
6 : International internet bandwidth, in Mbit/s per 100	1.33

MEETING SDG IN THE PACIFIC - ICT

- 9.a Facilitate sustainable and resilient infrastructure development in developing countries through enhanced financial, technological and technical support - to African countries, Least Developed Countries *(which includes Kiribati, Solomon Islands, Tuvalu & Vanuatu)*, landlocked developing countries and **small island developing States**

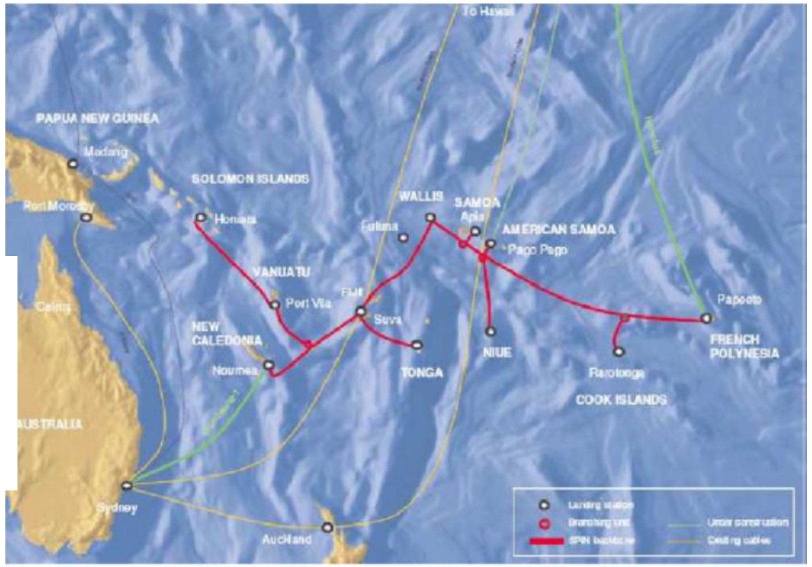
- 9.b Support domestic technology development, research and innovation in developing countries, including by ensuring a conducive policy environment for, inter alia, industrial diversification and value addition to commodities

- ***9.c Significantly increase access to information and communications technology and strive to provide universal and affordable access to the Internet in least developed countries by 2020***

Inmarsat O3b SpeedCast

Intelsat & OneWeb Kacific ABS

SES



USER EXPERIENCE

17 PARTNERSHIPS FOR THE GOALS

Internet Users by Country (2016)

#	Country	Internet Users (2016)	Penetration (% of Pop)	Population (2016)	Non-Users (internetless)	Users 1 Year Change (%)	Internet Users 1 Year Change	Population 1 Y Change
132	Papua New Guinea	906,695	11.7 %	7,776,115	6,869,420	8.6 %	71,835	2.06 %
144	Fiji	419,958	46.8 %	897,537	477,579	4 %	16,237	0.6 %
165	New Caledonia	186,502	70 %	266,431	79,929	1.3 %	2,319	1.26 %
166	French Polynesia	182,442	63.9 %	285,735	103,293	2.6 %	4,661	1.05 %
176	Vanuatu	82,764	30.6 %	270,470	187,706	16 %	11,386	2.2 %
183	Solomon Islands	58,423	9.8 %	594,934	536,511	4.6 %	2,573	1.94 %
186	Samoa	56,373	29 %	194,523	138,150	9.7 %	5,004	0.67 %
187	Seychelles	56,168	57.9 %	97,026	40,858	2.6 %	1,400	0.58 %
188	Tonga	49,822	46.6 %	106,915	57,093	5.3 %	2,501	0.7 %
198	Micronesia	32,749	31.2 %	104,966	72,217	2.1 %	658	0.48 %
199	Kiribati	14,724	12.9 %	114,405	99,681	3.3 %	472	1.76 %
200	Timor-Leste	14,030	1.2 %	1,211,245	1,197,215	3.1 %	416	2.24 %
201	Marshall Islands	10,709	20.2 %	53,069	42,360	5.6 %	565	0.14 %

FIXED AND MOBILE - PACIFIC

Pacific Islands	Number of mobile operators	Market share of leading mobile operator	Major mobile operators	4G mobile available	Fixed operator
Papua New Guinea	3	70%	Bmobile-Vodafone, Digicel, Telikom PNG	Yes	Telikom PNG
Fiji	2/1	78%	Vodafone, Digicel, INKK (MVNO)	Yes	TFL , FINTEL (International)
Solomon Islands	2	75%	Our Telekom, bmobile	No	Our Telekom
Vanuatu	2	84%	Digicel, TVL	Yes	TVL
Samoa	3	73%	Digicel, Bluesky, NeTVO Limited	No	BlueSky
Tonga	2	72%	Digicel, U-CALL	Yes	TCC
Federated States of Micronesia	1	100%	FSM Telecom	No	FSM Telecom
Kiribati	1	100%	TSKL	Yes	TSKL
Marshall Islands	1	100%	NTA	No	
Palau	2	60%	PNCC, Palau Mobile	?	PNCC
Cook Islands	1	100%	Bluesky	No	Bluesky
Nauru	1	100%	Digicel	No	
Tuvalu	1	100%	Tuvalu Telecom	No	Tuvalu Telecom
Niue	1	100%	Telecom Niue	?	Telecom Niue

Tuvalu, Tokelau, Niue & Palau – in transition

Technology

- 17.8 Fully operationalize the technology bank and science, technology and innovation capacity-building mechanism for least developed countries by 2017 and ***enhance the use of enabling technology, in particular information and communications technology***

ECONOMIC & SOCIAL IMPACT OF ICT IN THE PACIFIC

Changes to date

- **Mobile coverage – less than 50% in 2005 to 93% in 2014 (Fiji, Samoa, Solomon, Vanuatu)**
- **Cost of mobile calls declined by 1/3 between 2005 and 2014**
- **Percentage of mobile phones in household – 49% in 2007 to 93% in 2014**
- **International internet bandwidth – over 1500% between 2007 and 2014**
- **Restructure/Privatisation – state owned enterprises (ROE from -5.6% in 2008 to 0.6% in 2014 – *ADB/PSDI report*)**
- **Govt services (on-line) via ICT – (business registries - Samoa, Tonga, Solomon and Vanuatu)**

What Next

- **Competition/Price regulation - access to ICT remains competitive, fairly priced and accessible to all.**
- **Basic Digital Literacy (*e*-banking)**
- **Support for applications – *e*-health, education, agriculture, trade, tourism**
- **Investment in ICT skills (PPP) - employment opportunities with the availability of affordable broadband internet (*BPOs)***

COLLABORATION

PAST & PRESENT

1. Telecom Strategy for the Pacific – *Next 5 years*
2. Emergency Telecom Eqpt – FSM, Vanuatu, Fiji
3. Regional Radio-communications Workshop
4. Sub-sea cable – technical & commercial
5. Protecting 'C' Band – WRC 15

GOING FORWARD

- Digital Financial Services & Inclusion
- Digital wallets
- Regional IXP
- Regional Cert
- HR Capacity & Leadership

TERIMAH KASIH

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