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ITU REGIONAL DEVELOPMENT FORUM FOR ASIA-PACIFIC REGION 2020 (RDF-ASP 2020)

ITU REGIONAL DEVELOPMENT FORUM

ITURDF ASIA-PACIFIC REGION ONLINE 2020

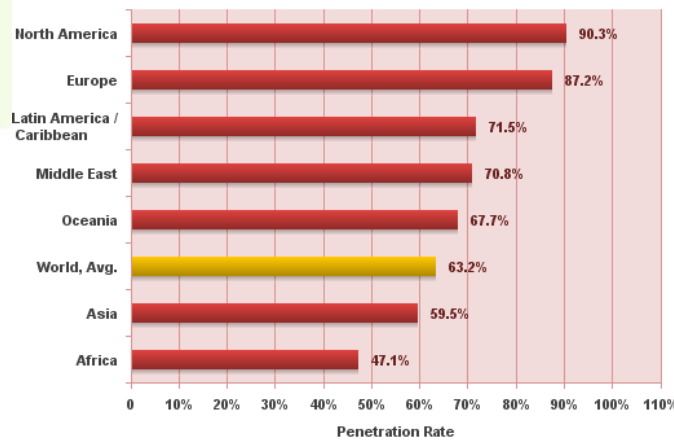
2-5 November

itu.int/go/RDF-ASP2020

Organized by 

#ICT4SDG  2025 

Internet World Penetration Rates by Geographic Regions - 2020 Q3



Source: Internet World Stats - www.internetworldstats.com/stats.htm
Penetration Rates are based on a world population of 7,796,615,710 and 4,929,926,187 estimated Internet users in October 27, 2020.
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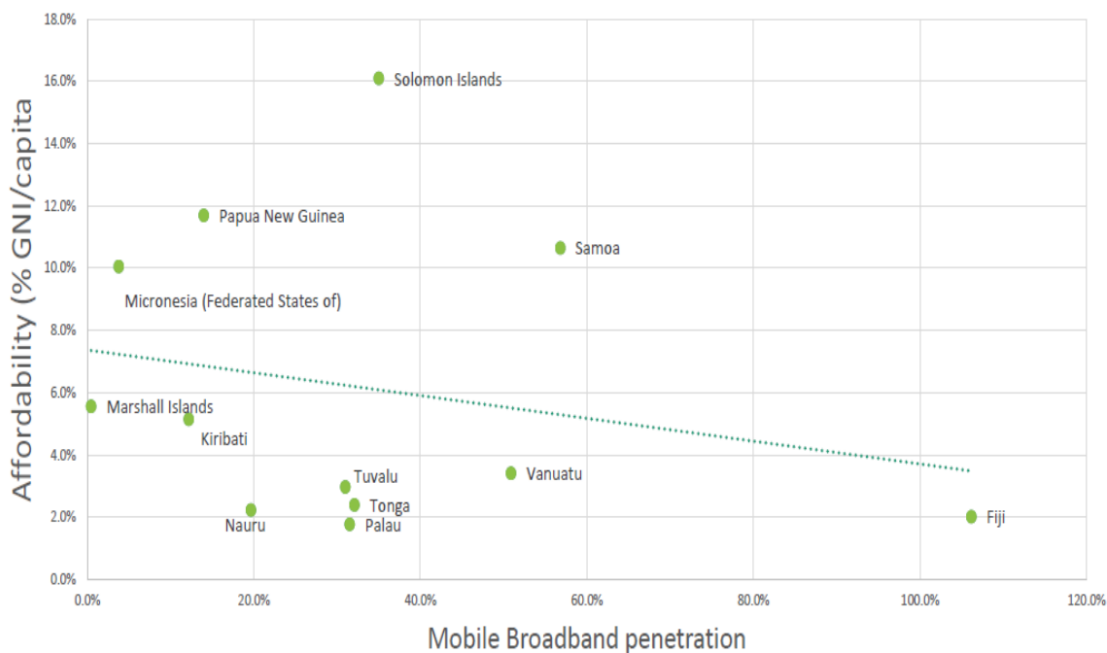
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ICT MITIGATES CHALLENGES - PICs

- SMALL SIZE
- REMOTENESS
- NARROW RESOURCES & EXPORT BASE
- EXPOSURE TO GLOBAL ENVIRONMENTAL CHALLENGES
- EXTERNAL ECONOMIC SHOCKS, INCLUDING IMPACTS FROM CLIMATE CHANGE
- FREQUENCIES AND MORE INTENSE NATURAL DISASTERS.

Affordability, though improving, remains a concern

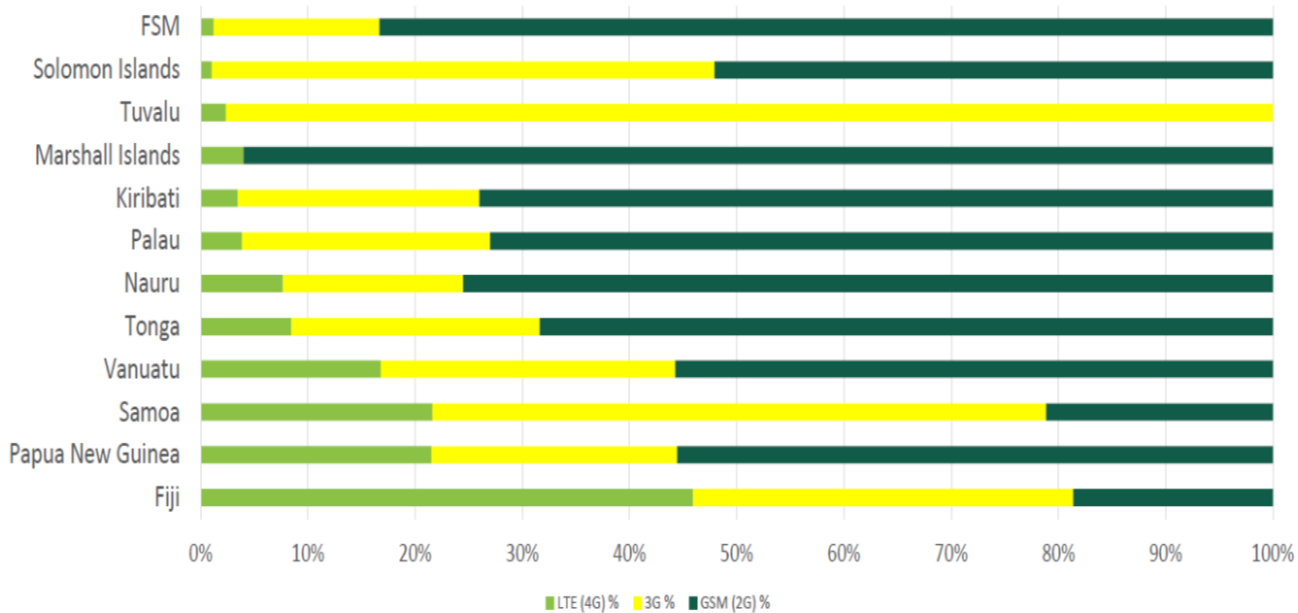
Mobile Broadband affordability versus penetration, 2017:
500Mbps/GNI per capita



Source: International Telecommunications Union (ITU) (2018)

Internet access is improving, but with challenges of speed/quality and availability (outer islands, rural/remote areas)

Mobile and Mobile Broadband Penetration in the Pacific, end 2018
 (% of population)



Source: International Telecommunications Union (ITU) (2018)

DEVELOPMENT ASSISTANCE PARTNERSHIP

Country	Currently active	Planned / potential additional [#]	Country	Currently active	Planned / potential additional [#]
American Samoa	3	0	Palau	1	1
CNMI	2	0	PNG	3	1*
Cook Islands	1	1	RMI	1	0
FSM	2	1	Samoa	3	1
Fiji	4	3	Solomon Islands	1	1
French Polynesia	2	1	Tokelau	0	2
Guam	12	2	Tonga	1	1
Kiribati	0	2	Tuvalu	0	1
Nauru	0	1	Vanuatu	1	1
New Caledonia	1	1	Wallis and Futuna	1	0
Niue	1	1			

ECONOMIC IMPACT OF INTERNATIONAL CONNECTIVITY

TUI SAMOA CABLE

TOTAL ECONOMIC IMPACT OF USD\$235M OVER 25 YEARS

(INVESTMENT OF USD\$35M)

IMPROVED INTERNET ACCESS & CONNECTIVITY COULD BRING MORE THAN

USD\$5 BILLION IN THE PACIFIC ECONOMY

AND

CREATE CLOSE TO 300,000 NEW JOBS BY 2040



THE WORLD BANK



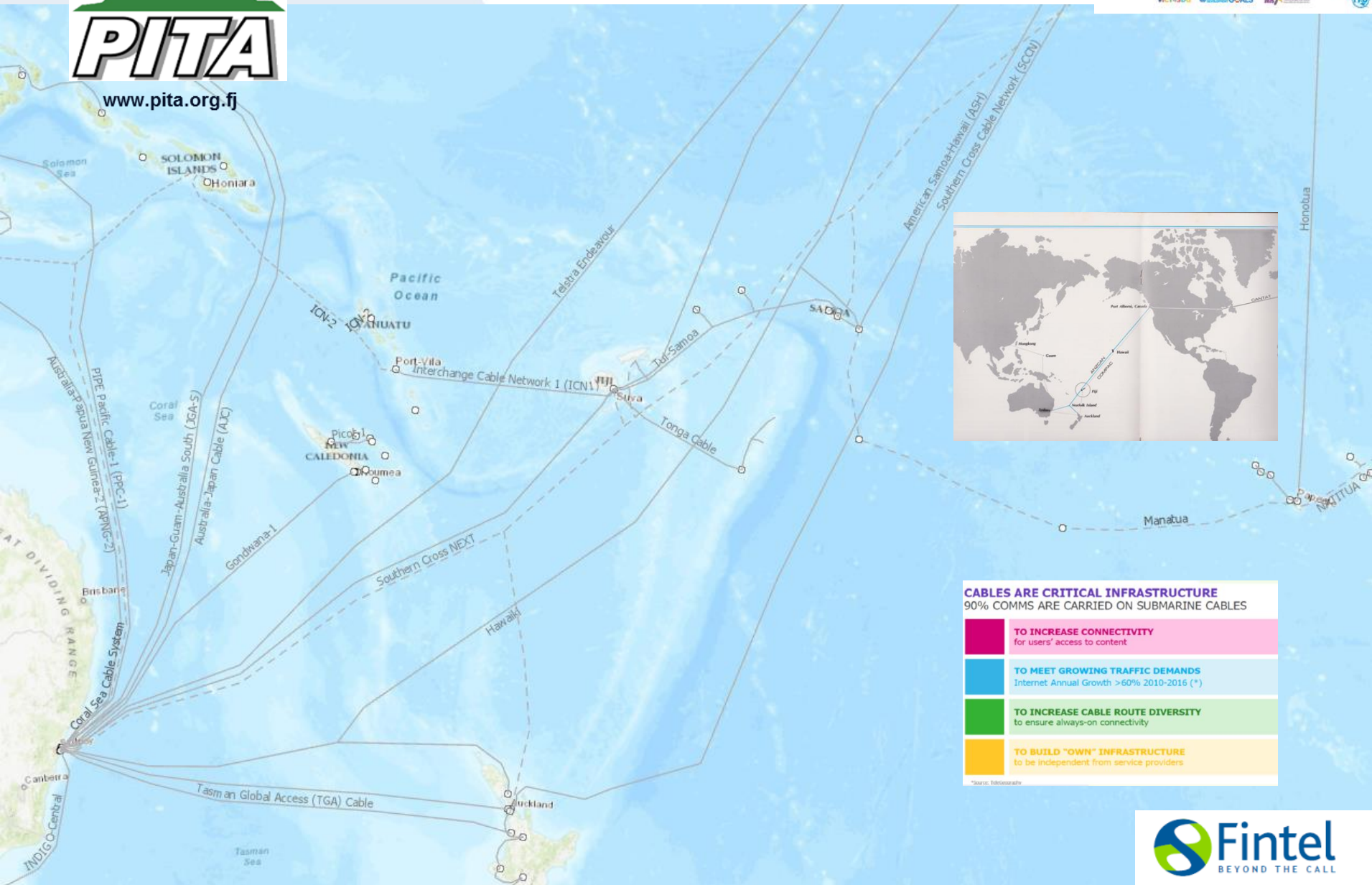


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PACIFIC SUBSEA CABLES – 2000 to 2020

ITU REGIONAL DEVELOPMENT FORUM
ITURDF
 ASIA-PACIFIC REGION
 ONLINE 2020
 2-5 November
 Iturdf@ict4sdg.org

ICT4SDG SUSTAINABLE GOALS



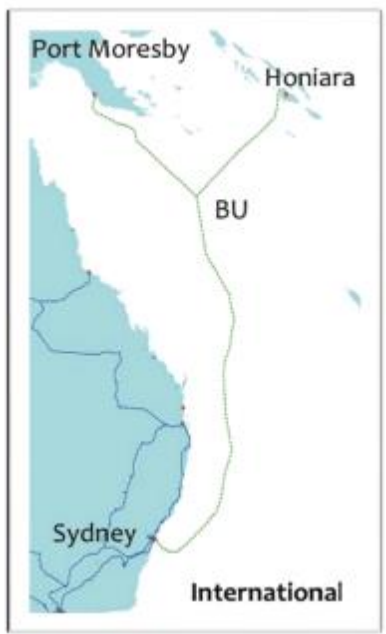
CABLES ARE CRITICAL INFRASTRUCTURE
 90% COMMS ARE CARRIED ON SUBMARINE CABLES

- TO INCREASE CONNECTIVITY**
for users' access to content
- TO MEET GROWING TRAFFIC DEMANDS**
Internet Annual Growth >60% 2010-2016 (*)
- TO INCREASE CABLE ROUTE DIVERSITY**
to ensure always-on connectivity
- TO BUILD "OWN" INFRASTRUCTURE**
to be independent from service providers

*Source: EIU/Telecom



PACIFIC SUBSEA CABLES - 2022



Submarine Cables 2020	International	Domestic
In-Service	26	20
Under-Construction	19	8
In Development/Planning	1	0
Total	46	28

Category	PICs	Percentage
Well Connected	American Samoa, CNMI, Fiji, Guam, Samoa, French Polynesia, PNG	30%
Reasonably Connected	FSM, New Caledonia, Palau, RMI, Tonga, Vanuatu, W&F, Solomon Is, Niue, Cook Islands	45%
Connections under Construction	Kiribati, Tokelau, Nauru	14%
Plans for Connection	Tuvalu	5%
No Plans for Connection	Pitcairn Is	5%





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SATELLITE CONNECTIVITY



WorldRiskReport 2020

Rank	Country	Risk
1.	Vanuatu	49.74
2.	Tonga	29.72
3.	Dominica	28.47
4.	Antigua and Barbuda	27.44
5.	Solomon Islands	24.25
6.	Guyana	22.73
7.	Brunei Darussalam	22.30
8.	Papua New Guinea	21.12
9.	Philippines	20.96
10.	Guatemala	20.09
11.	Cape Verde	17.73
12.	Costa Rica	17.25
13.	Bangladesh	16.40
14.	Djibouti	16.23
15.	Fiji	16.00

	Low orbit satellite (LEO)	Medium orbit satellite (MEO)	Geosynchronous orbit satellite (GEO)
	OneWeb	O3b	IPSTAR/Intelsat/JSAT
Satellite			
Lifetime	5-7 years	10 years	15 years
Altitude	1,200km	8,000km	36,000km
Latency (RTT)	50ms	135ms	650ms



Country	International submarine cables		Satellite bandwidth (duplex)
	Lit capacity	Committed capacity	
American Samoa	200,000	20,000	100
Cook Islands			1,800
Fiji	140,000	80,000	18
FSM	4,000	250	
French Polynesia	40,000	37,000	
Kiribati			200
Marshall Islands	7,500	3,500	20
New Caledonia			
Niue			24
PNG	10,000	1,618	200
Samoa	200,000	17,000	400
Solomon Islands	200,000	3,300	1,300
Tokelau			32.5
Tonga	20,000	13,760	40
Tuvalu			300
Vanuatu	20,000	7,340	200



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George Samisoni

gsamisoni@fintelfiji.com

presidentpita@connect.com.fj

