







Department of Communications and the Arts





"Enhancing access to submarine cables for Pacific Islands Countries"







THE HUB OF THE PACIFIC

PREREQUISITES











TRANS-ATLANTIC TELEGRAPH CABLE - 1902

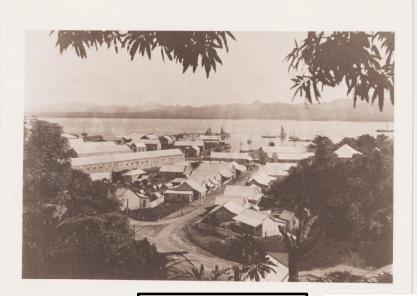


CABLE OFFICE – VICTORIA PARADE - 1902





CABLE SHORE END LANDING - 1902



SUVA HARBOUR - 1902

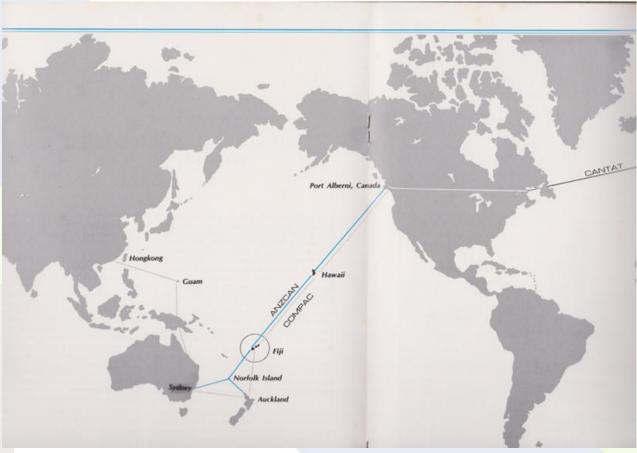




COMPAC & ANZCAN CABLE SYSTEMS – 1962/82







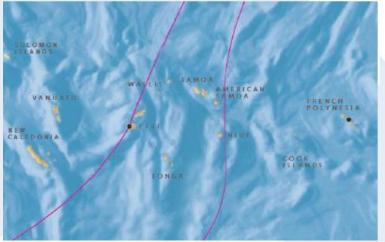




Bandwidth - is key









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

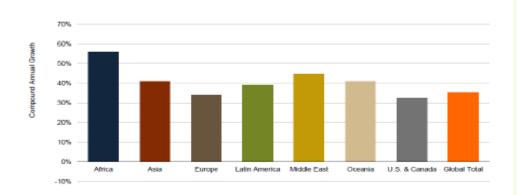
to ensure always-on connectivity

TO BUILD "OWN" INFRASTRUCTURE

to be independent from service providers

*Source: TeleGeography

USED INTERNATIONAL BANDWIDTH THE BIG PICTURE 2011-2018



Source: TeleGeography





2000

USD\$30M Investment



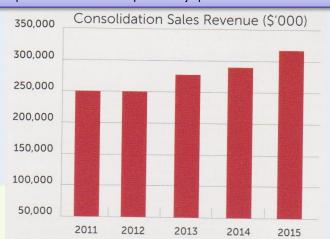


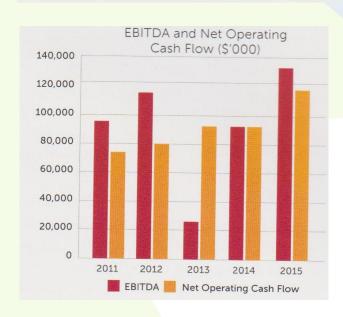


COMMUNICATIONS HAVE NEVER BEEN IN BETTER HANDS











Major Shares:

Government -17.3 % FNPF - 72.6%.

Telecom Fiji Limited - 100% ATH

Fiji Directories Limited - 100% ATH.

Fiji International Telecommunications Limited (FINTEL) - 100% ATH

Vodafone - ATH (51%) and FNPF (49%)

Datec Fiji & Australia – subsidiary of VFL

Telecommunications Service Kiribati Limited – ATH (100%)

Telecom Vanuatu – 100% ATH

BlueSky Samoa - 100% ATH





Pop: 900,000

Per Capita GNI: \$4,830 (2015)

ICT Sector: 6% (2015)



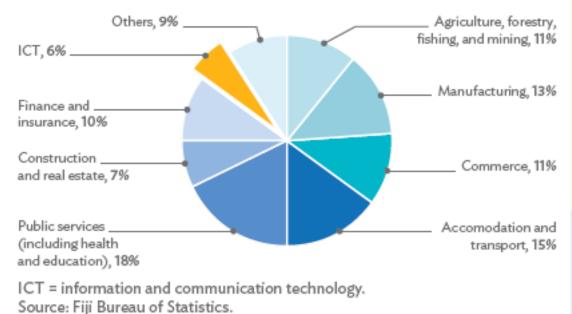








Figure 1: Structure of the Fiji Economy, 2015



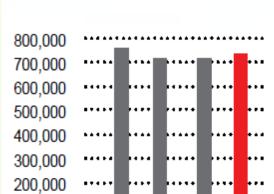








Country Wide Report : 2016	
1 : Fixed telephone subscription per 100 population	17.87
2 : Mobile - cellular telephone subscription per 100 population	112.67
3 : Fixed (Wired) - broadband subscriptions per 100 population	1.53
4 : Wireless - broadband subscriptions per 100 population	6.07
5 : Active mobile - broadband subscription per 100 population	140.35
6: International internet bandwidth, in Mbit/s per 100	1.33

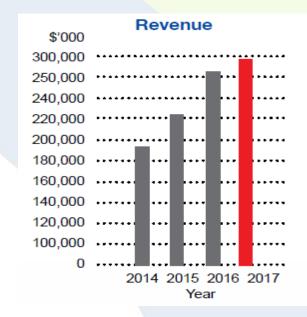


2014 2015 2016 2017

Year

100,000

Mobile Connections





REGULATIONS

2010 - SMP - GLIDE PATH - 63/83% (AUS/US) DECREASE

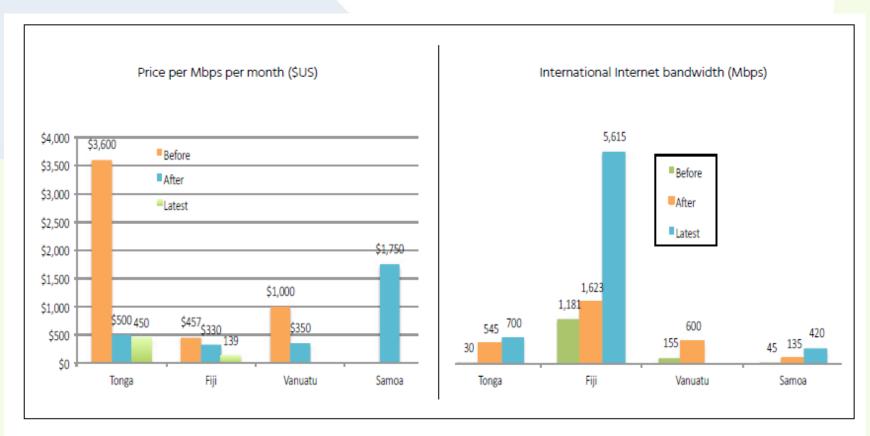


Figure 5.6. IP Transit Costs and International Bandwidth in South Pacific SIDS following the Launch of a Submarine Cable or Price Regulation (Source: World Bank, PRIF)

Note: In the left chart, data for Tonga refer to price of wholesale capacity link, data for Fiji to the regulated price of IP transit, for Vanuatu to the estimated price of IP transit and for Samoa to the price of international bandwidth on the ASH cable.



Trans-Pacific Cables and Their Response to the Web-Scale Effect

The Internet of Things (IoT)

2014 - 12.5 billion devices

2020 - there will be 50 billion devices or seven for every human



Cloud Services

2011 - 7 percent of consumer content was stored in the cloud.

2016 - it will be 35 percent.

Mobile Traffic – 5G

Smartphone generated traffic will grow to about eight times current levels by 2020, and by that time 55 percent of mobile traffic will be video content







REGIONAL CABLES - 2016/17

PACIFIC TELECOMMUNICATIONS HUB



FIJI-VANUATU USD\$40M

Australia

Wallis and Futuna FIJI-SAMOA (Savusavu)Google



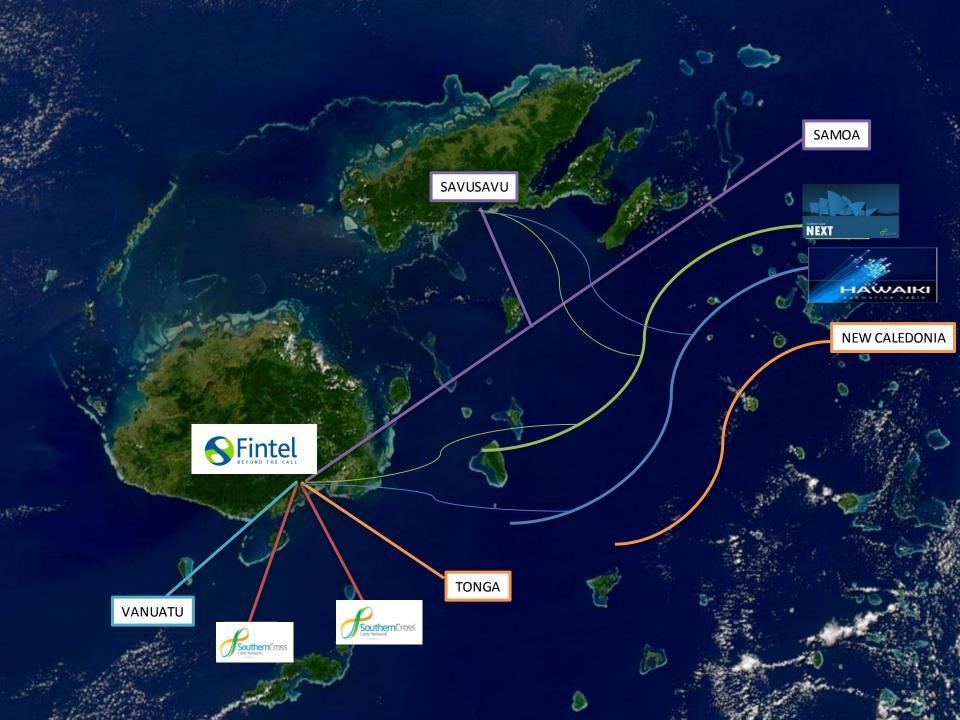
New Zealand

FIJI-TONGA USD\$35M



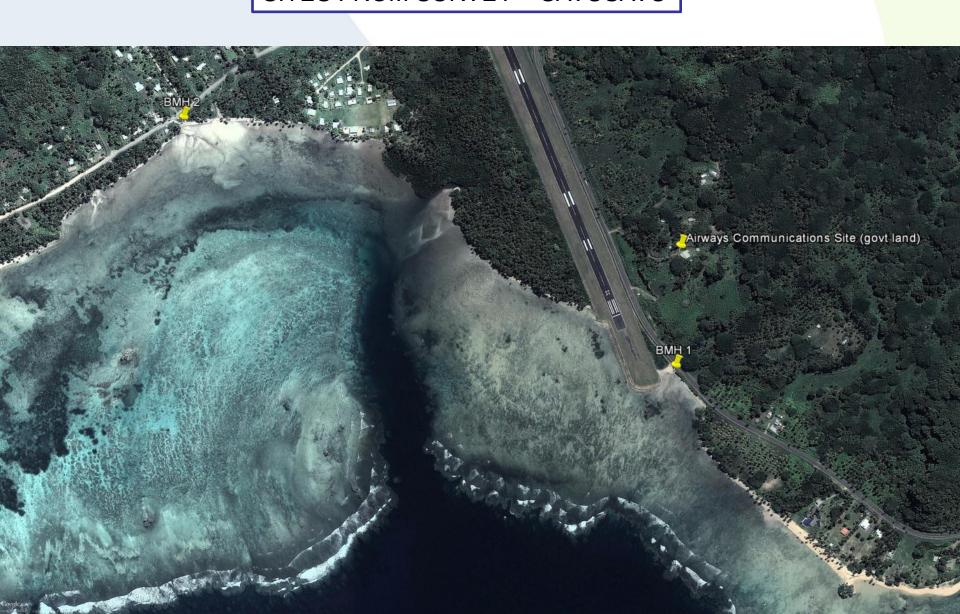
United States

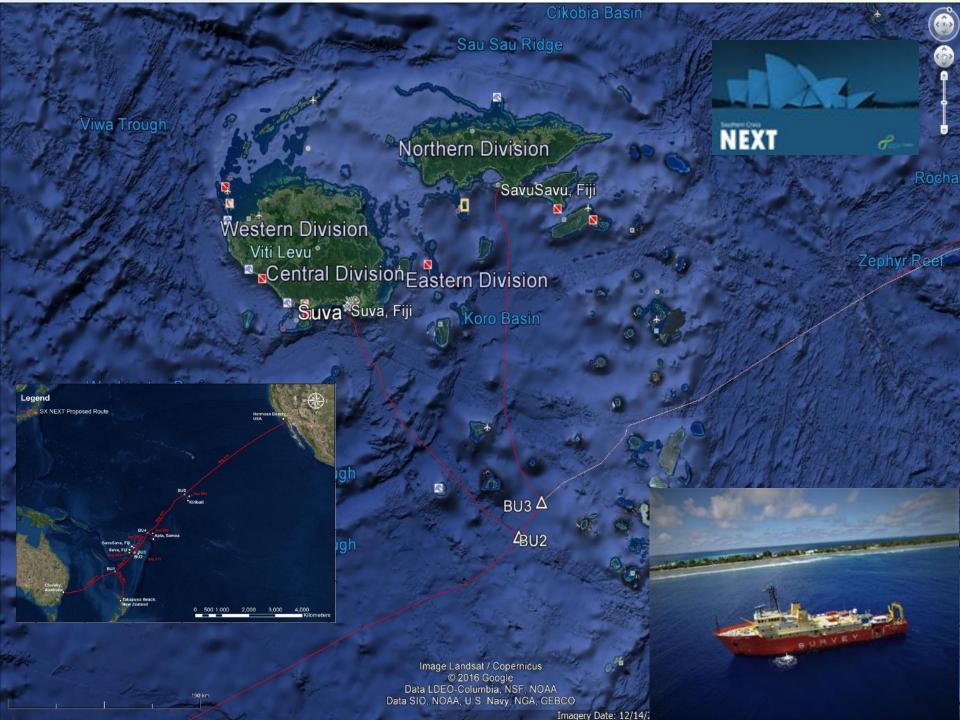
USD\$49M





SITES FROM SURVEY – SAVUSAVU







VINAKA

