



WS: Pacific Regional Connectivity Program: Phase 3 - Samoa (P128904)

EAST ASIA AND PACIFIC | Samoa | Digital Development Global Practice |  
IBRD/IDA | Investment Project Financing | FY 2015 | Seq No: 12 | ARCHIVED on 26-Aug-2020 | ISR43118 |

Implementing Agencies: Ministry of Finance, Independent State of Samoa, Samoa Bureau of Statistics, Samoa Submarine Cable Company, Office Of The Regulator

## Key Dates

### Key Project Dates

Bank Approval Date: 19-Jun-2015

Effectiveness Date: 04-Sep-2015

Planned Mid Term Review Date: 23-Jul-2018

Actual Mid-Term Review Date: 20-Aug-2018

Original Closing Date: 31-Jul-2020

Revised Closing Date: 30-Jun-2022

## Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The Project development objective is to reduce the cost and increase the availability of Internet services in the Independent State of Samoa.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

Yes

Board Approved Revised Project Development Objective (If project is formally restructured)

The Project Development Objectives are: (a) to reduce the cost and increase the availability of internet services; and (b) to facilitate the development of initial foundations for digital government, including digital identification.

## Components Table

Name

Component 4 (a) ): Legal and regulatory enabling environment:(Cost \$0.50 M)  
Component 4 (b) Advisory Assistance on a Samoa Digital Government Platform:(Cost \$0.40 M)  
Component 4 (c): Establishing the NDID system and upgrading the CR system:(Cost \$3.20 M)  
Component 1 (a) Submarine Cable System:(Cost \$33.00 M)  
Component 1 (b) Landing stations and ancillary equipment:(Cost \$2.85 M)  
Component 1(c) Additional costs:(Cost \$7.41 M)  
Component 2. ICT Regulatory Technical Assistance:(Cost \$1.47 M)  
Component 3. Project implementation and administration:(Cost \$1.11 M)

## Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	<input type="checkbox"/> Satisfactory	<input type="checkbox"/> Satisfactory
Overall Implementation Progress (IP)	<input type="checkbox"/> Satisfactory	<input type="checkbox"/> Satisfactory
Overall Risk Rating	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial

## Implementation Status and Key Decisions



- Submarine Cable System:** This component has been completed. The Tui Samoa cable was ready for service (RFS) in February 2018 and has been operating since that time. Additional spurs to Wallis & Futuna and Savusavu (Fiji) are also now in service. The current wholesale price ranges between US\$50 and 100 per Mbps for leased capacity and even less on an IRU basis. This compares with the pre cable (2017) downlink capacity (including the SES/O3B satellite service) in service of 550 Mbps at an average price of between US\$ 400 and 700 per Mbps/month. The cable connection to Savai'i is operational but operators are yet to connect to use it for traffic, relying on existing microwave links. Reasons cited included: insufficient demand from the private sector and government sites, plus higher pricing compared to microwave. The OoTR is encouraged to consult with industry and MCIT to investigate the reason for the lack of use of the domestic segment of the Tui Samoa cable and recommend polices and options to encourage its beneficial use for the broader benefit of the community in Savai'i.
- Regulatory technical assistance.** The Office of The Regulator (OOTR) continues with implementation of its business plan notwithstanding recent operational challenges (changes in management, destruction of premises by fire in March April 2020). It is currently operating from temporary premises. OoTR is presently conducting operations from the MCIT building and staff are working from home where practicable. An option may be to utilize residual funds for Component 2 of this Project toward replacement of uninsured key equipment to ensure that the OoTR is able to continue to perform its regulatory oversight of the sector
- Remote Office Operations.** Given the global uncertainty on when international travel is likely to resume, Government should prepare for the likely scenario of its international consultants working virtually for at least the next twelve months. While operating in different time zones would be a challenge, the issue could be mitigated in part by consistent communications between international and locally based expertise using multiple communication channels such as video conferencing, messaging applications to compliment emails and voice communications..

Risks

Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	☐ Moderate	☐ Moderate	☐ Moderate
Macroeconomic	☐ Moderate	☐ Moderate	☐ Substantial
Sector Strategies and Policies	☐ Moderate	☐ Moderate	☐ Moderate
Technical Design of Project or Program	☐ Substantial	☐ Moderate	☐ Moderate
Institutional Capacity for Implementation and Sustainability	☐ Substantial	☐ Moderate	☐ Moderate
Fiduciary	☐ High	☐ Substantial	☐ Substantial
Environment and Social	☐ Low	☐ Moderate	☐ Moderate
Stakeholders	☐ Substantial	☐ Substantial	☐ Substantial
Other	☐ Substantial	☐ High	☐ High
Overall	☐ Substantial	☐ Substantial	☐ Substantial

Results

PDO Indicators by Objectives / Outcomes

Impact on Telecom sector of WB Technical Assistance composite score: 1- low impact to 5-high impact)



► Impact on Telecom sector of World Bank TA to OOTR (composite score: 1- low impact to 5-high impact) (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	1.00	5.00	5.00	5.00
Date	19-Jun-2015	25-Mar-2020	10-Aug-2020	30-Jun-2022
Comments:	<i>Cable in service Feb 2018, Regulator support largely completed.</i>			

Users of Mobile Internet Services (number of unique subscribers per 100 people)				
► Access to Internet Services (number of subscribers per 100 people) (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	27.00	54.00	54.00	55.00
Date	19-Jun-2015	25-Mar-2020	10-Aug-2020	30-Jun-2022
Comments:	Mobile broadband (3G and 4G) active subscribers count exceeds 50% of national population which with family sharing of services indicates a user base of more than 60 percent of population, exceeding the end of Project target.			

► Retail price of internet services (lowest published price 2Gb data volume) (Amount(USD), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	16.00	1.10	0.19	5.00
Date	30-Apr-2019	25-Mar-2020	10-Aug-2020	30-Jun-2022
Comments:	For min 2GB plan. Vodafone - US\$0.19. Digicel - US\$1.89			

► Retail price of internet services-business (lowest published price 50Gb data volume) (Amount(USD), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	80.00	30.00	21.48	30.00
Date	30-Apr-2019	25-Mar-2020	10-Aug-2020	30-Jun-2022
Comments:	<b>50GB business service</b> Digicel US\$38 , Vodafone US\$21.48			

Direct Project Beneficiaries				
► Direct Project beneficiaries. (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	104,600.00	131,002.00	96,000.00



Date	19-Jun-2015	25-Mar-2020	10-Aug-2020	30-Jun-2022
Comments:	End target project beneficiaries is 50% of the 2014 population (i.e. 96,000). Tui Samoa Cable impact is from Feb-2018. Population of unique subscribers of mobile (96,600) or landline (6000) services. Additionally, Samoa has 75,600 people over 65 (total 85,300) and beneficiaries can be dependents of users (which would indicate that beneficiaries are more than 198,400). Unique subscriber and estimated dependant beneficiaries are cited.			
<b>► Project beneficiaries (female) (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	56,200.00	65,510.00	48,000.00
Date	19-Jun-2015	25-Mar-2020	10-Aug-2020	30-Jun-2022
Comments:	Previous period data has an error that is corrected with this data. End target project female beneficiaries is 50% of the 2014 female population (i.e. 48,000). Female beneficiaries include any female Internet or telecom user. In Samoa, female users of Internet exceed male users (55% vs 45% - ref published stats of Facebook, Internet World (Jun 2019) and OOTR digital inclusion survey (2017). Additionally 55% of females under 15 and over 65 (85,300) are dependant beneficiaries. However, estimated unique female subscriber project beneficiaries are cited.			

Grievances registered related to delivery of project benefits addressed.				
<b>► Grievances registered related to delivery of project benefits addressed. (Percentage, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	80.00
Date	19-Jun-2015	25-Mar-2020	10-Aug-2020	30-Jun-2022
Comments:	No grievances registered during past life of the project.			

Beneficiaries that feel project investment reflected their needs - female.				
<b>► Beneficiaries that feel project inv. reflected their needs - female. (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	46,500.00	65,510.00	36,000.00
Date	19-Jun-2015	25-Mar-2020	10-Aug-2020	30-Jun-2022
Comments:	End Target is 75% of female beneficiaries of the original (2014) expected subscriber base. Tui Samoa Cable impact available from Feb-2018. Female beneficiaries are subscribers in 3G/ 4G coverage or in			



landline areas (93,000). Survey not conducted as at Aug 2020 but estimated from subscriber and grievance data.

Beneficiaries that feel project investment reflected their needs - male.

► Beneficiaries that feel project investment reflected their needs - male. (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	46,000.00	65,510.00	36,000.00
Date	19-Jun-2015	25-Mar-2020	10-Aug-2020	30-Jun-2022
Comments:	End Target is 75% of male beneficiaries in the original expected coverage area. Tui Samoa Cable impact available from Feb-2018. Male beneficiaries are males in 3G/ 4G coverage or in landline areas (92,000). Survey not conducted as at Aug 2020 but estimated from subscriber and grievance data.			

Wholesale Internet Bandwith Price (\$/Mbps/month)

► Wholesale Internet Bandwith Price (\$/Mbps/month) (Amount(USD), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	1,500.00	107.00	107.00	400.00
Date	19-Jun-2015	25-Mar-2020	10-Aug-2020	30-Jun-2022
Comments:	Tui Samoa Cable impact is from Feb-2018. Prior capacity via SAS/ASH cable, geostationary satellite and O3B satellite is now decommissioned. Price cited is for 1Gbps capacity purchase per the registered Reference Offer in US\$/Mbps/month for most common capacity sold (note capacity in service is less than capacity sold). Price cited represents the price associated with product that has been sold, not with the lowest possible price (which is achieved by purchase of a 15 years IRU for 10Gbps - which would be about US\$10/Mbps / Month).			

Available International Bandwidth (mbps)

► Available International Bandwidth (mbps). (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	250.00	9,600.00	15,000.00	3,000.00
Date	19-Jun-2015	25-Mar-2020	10-Aug-2020	30-Jun-2022
Comments:	Total lit capacity sold on the <i>Tui Samoa</i> cable is five 100 Gbps chanel across all users with two 100 Gbps channels to Fiji. Sold capacity comprises a Digicel 10,000 Gbps Mbps Indefeasible Right of Usage (IRU), a 5,000 Gbps Mbps capacity sale to Blue Sky (American Samoa) from which 4,000 Gbps Mbps capacity has been on sold to Vodafone Samoa (formerly Blue Sky Samoa) and the residual used for operators in American Samoa. The current wholesale price ranges between US\$50 and 100 per Mbps for leased capacity and even less on an IRU basis (about US\$10/Mbps / Month). This compares with the pre cable (2017) satellite downlink capacity (including the SES/O3B satellite service) in service of 550 Mbps at an average price of between US\$ 400 and 700 per Mbps/month.			



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<b>Coverage of the NDID system</b>				
▶ Percentage of Samoa's resident population who have received their credentials from the NDID system (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	80.00
Date	01-Jun-2019	25-Mar-2020	10-Aug-2020	30-Jun-2022
▶ Population who have received their credentials from the NDID system of whom are women and girls (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	50.00
Date	01-Jun-2019	25-Mar-2020	10-Aug-2020	30-Jun-2022

<b>The NDID system is used for service delivery</b>				
▶ Number of institutions using the NDID system for automated identity authentication of their clients (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	5.00
Date	01-Jun-2019	25-Mar-2020	10-Aug-2020	30-Jun-2022
Comments:	NDID System in not yet operational.			

**Intermediate Results Indicators by Components**

<b>Component 1 (a) Submarine Cable System</b>				
▶ Length of Fiber Optic Network Built (km) (Kilometers, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1,385.00	1,385.00	1,300.00
Date	19-Jun-2015	25-Mar-2020	10-Aug-2020	31-Jul-2020
Comments:	Cable laying was completed in Jan 2018. No change since then.			



Component 1 (b) Landing stations and ancillary equipment				
▶ Private Capital Mobilized (Amount(USD), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	6,540,000.00	6,540,000.00	8,000,000.00
Date	19-Jun-2015	25-Mar-2020	10-Aug-2020	31-Jul-2020
Comments:	Unchanged. Refer to Corporations register of Samoa. Additional private capital has been mobilised for the Manatua cable based on the same model as for the Tui Samoa cable.			

Component 3. Project implementation and administration				
▶ National installed data capacity (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	4,500.00	15,000.00	48,000.00
Date	19-Jun-2015	25-Mar-2020	10-Aug-2020	31-Jul-2020
Comments:	Operators in Samoa can draw on up to 200,000.00 Mbps of lit optical fibre connectivity.			

▶ Available (lit optical and contracted satellite) International Bandwidth (mbps) (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	250.00	9,600.00	15,000.00	3,000.00
Date	19-Jun-2015	25-Mar-2020	10-Aug-2020	31-Jul-2020
Comments:	Samoa operators have 2x 100Gbps lit wavelengths ex Samoa and more than 11Gbps of available sold capacity to overseas destinations including satellite as on demand backup.			

▶ Monthly volume of data downloaded--all service providers (Terabytes) (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	650.00	1,542.00	1,418.00	1,250.00
Date	30-Apr-2019	25-Mar-2020	10-Aug-2020	30-Jun-2022
Comments:	Data is total TeraBytes of all operators in June 2020. Note past data peak is the during the peak month during the period Nov 2019 through end Mar 2020 which included a Pacific region sporting event hosted in Apia.			

▶ Monthly peak data rate (speed of data download from Tui Samoa cable to all service providers in Samoa) (Mbps) (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target



Value	4.00	4.61	7.17	7.00
Date	30-Apr-2019	25-Mar-2020	10-Aug-2020	30-Jun-2022
Comments:	Peak down load data rate during the period Nov 2019 through end Mar 2020.			

<b>Component 4 (a) Legal and regulatory enabling environment</b>				
▶ Law establishing National Digital ID System is enacted (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	01-Jun-2019	25-Mar-2020	10-Aug-2020	30-Jun-2020

<b>Component 4 (b) Advisory Assistance on a Samoa Digital Government Platform</b>				
▶ Government digital platform implementation options assessment completed (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	01-Jun-2019	25-Mar-2020	10-Aug-2020	30-Jun-2020
Comments:	TA to assist Government assessment is in evaluation			

<b>Component 4 (c): Establishing the NDID system and upgrading the CR system</b>				
▶ NDID implementation strategy developed (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	01-Jun-2019	25-Mar-2020	10-Aug-2020	30-Jun-2020
▶ NDID awareness campaign and public consultations launched (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	01-Jun-2019	25-Mar-2020	10-Aug-2020	31-Dec-2020
▶ NDID system enrollment begins (Yes/No, Custom)				





	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	01-Jun-2019	25-Mar-2020	10-Aug-2020	31-Mar-2021
<b>► NDID system begins automated authentication (Yes/No, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	01-Jun-2019	25-Mar-2020	10-Aug-2020	30-Jun-2021
<b>► New civil registration software is operational (Yes/No, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	01-Jun-2019	25-Mar-2020	10-Aug-2020	30-Dec-2021
<b>► NDID and CR systems sharing data on births and deaths (Yes/No, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	01-Jun-2019	25-Mar-2020	10-Aug-2020	31-Mar-2022
Comments:	NDID system not yet operational.			

**Performance-Based Conditions**

**Data on Financial Performance**

**Disbursements (by loan)**

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P128904	IDA-D0630	Effective	USD	16.00	16.00	0.00	11.64	4.56	72%
P128904	TF-A2332	Effective	USD	1.50	1.50	0.00	0.87	0.63	58%

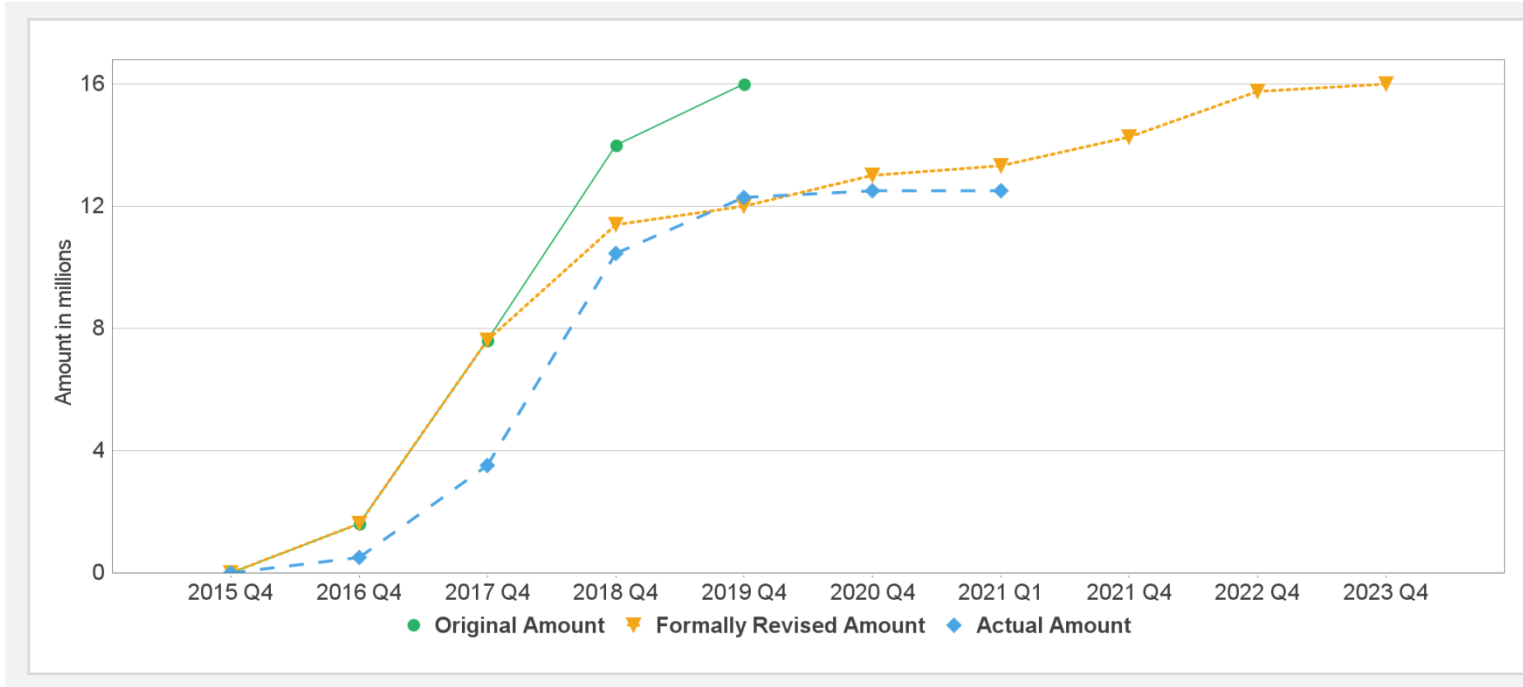
**Key Dates (by loan)**

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
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P128904	IDA-D0630	Effective	19-Jun-2015	11-Aug-2015	04-Sep-2015	31-Jul-2020	30-Jun-2022
P128904	TF-A2332	Effective	23-Mar-2016	30-May-2016	16-Nov-2016	31-Jul-2020	30-Jun-2022

Cumulative Disbursements



PBC Disbursement

PBC ID	PBC Type	Description	Coc	PBC Amount	Achievement Status	Disbursed amount in Coc	Disbursement % for PBC
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Restructuring History

Level 2 Approved on 16-Aug-2019 ,Level 2 Approved on 22-Jan-2020 ,Level 2 Approved on 10-Jun-2020

Related Project(s)

There are no related projects.