



LE IUNIVESITE AOA O SAMOA
NATIONAL UNIVERSITY OF SAMOA

University Research & Ethics Committee

Final Report Template

Approved 20 November 2014

I. RESEARCH PROPOSAL DETAILS

TITLE OF PROJECT: Evaluation of the use of Aptus within the Samoan education context.

PRINCIPAL RESEARCHER: Ioana Chan Mow

ASSOCIATE RESEARCHER (S): Edna Temese Ualesi, Mataafa Ratami Fatilua, Eileen Hazelman, Hobert Sasa, Elisapeta Mauai, Agnes Wong Soon, Mose Mose, Fiafaitupe Lafaele, Ioana Sinclair, Tara Patu, Joseph Namulaulu, Misioka Tanielu, Vensel Chan

FACULTY/CENTRE: Faculty of Science /Computing dept

RESEARCH SUPPORT STAFF: None

DURATION OF PROJECT: 2 years

DATE OF SUBMISSION: May 2016

II. RESEARCH AIMS AND OBJECTIVES¹

What are the aims and objectives of the research?

The research question for this study is:

¹ As approved by UREC in the research proposal.

How acceptable is the Aptus device as a technology for providing access to e-resources?

What are user perceptions on the usefulness and ease of use of the Aptus device within the context of education in Samoa?

Hence the goals of this research were to explore the acceptance of using the Aptus to access e-resources within the context of education in Samoa, with user acceptance measured by evaluating the ease of use and usefulness of the Aptus based on user perceptions.

III. SUMMARY OF RESEARCH

a. Outline all research activities completed to date.

- List all research activities completed and to be completed.

All activities have been completed

Procedures

An aptus device was setup for each of the selected trial settings. In addition 60 sets of tablets and 10 mobile phones were distributed to participants within these selected scenarios/settings. Distribution was to ensure that each student/teacher has access to either a tablet or mobile phone:

a) NUS classroom

The aptus device was installed for use within two NUS classes. Due to the limits on the number of users to less than 20, classes selected are small classes such as two streams of Foundation Computer Studies (HCS081).

b) Primary School classroom

The aptus device was installed within three primary school classes, Years 6, 7 and 8 at Magiagi Primary school, and Moata'a Primary school. Due to the limits on the number of users to less than 20, classes selected are small classes of less than 20 students.

c) Secondary School classroom

The aptus device was installed within three secondary school classes Years 9, 10 and 11 at Samoa College, and Leififi College. Due to the limits on the number of users to less than 20, classes selected are small class size less than 20 students.

Once distributed, staff and students were trained in the use of the aptus device by members of the research team over a period of 3 days. Training involved the following activities:

For teachers:

- i) Setting up of the aptus device
- ii) Recharging the router

For teachers and students:

- i) How to navigate the aptus Home page
- ii) Downloading notes from the aptus
- iii) Uploading documents to the aptus
- iv) Using the Moodle virtual classroom
- v) Using the content management system

During training, teachers also discussed with the research team what activities were planned for the 4 weeks of the trial based on the 4 activities listed below. These activities formed their teaching plan for the 4 weeks of the trial. Upon completion of training staff and students were expected to trial the aptus for the following activities:

- i) Downloading notes from the aptus
- ii) Uploading documents to the aptus
- iii) Using the Moodle virtual classroom on the aptus
- iv) Using the content management system on the aptus

The trials were carried out in stages. This was to ensure that a sufficient number of tablets/mobile phones are available for each trial. The trial was carried out initially at NUS before implementing the trials in the schools. A helpdesk line was setup and manned by the research team for trouble shooting and answering any queries during the trial period. The research team also carried out a monitoring visit 2 weeks into the trial. Upon completion of the activities, staff and students were asked to complete the survey evaluating user perceptions on ease of use and usefulness of the aptus device. The questionnaire which has both English and Samoan versions were administered by the research team with the assistance of the teachers in the selected settings. For primary schools, the research team were assisted by interviewing the students and recording the responses for them.

b. Did your research progress as planned? Why or why not?

- How did you manage the research going forward?

Yes the research went as planned except for the following:

- i) Aptus Training had to be expanded to 2 separate sessions instead of the one training session scheduled for Primary and secondary schools. Secondary schools namely Samoa College were not available for the initial training.

c. What activities have been undertaken to share, present and/or publish the research?

- Provide any evidence of presentation and/or publication.
4 presentations & 1 journal publication
- i) **ANU SSGM State of the Pacific conference 2016 presentation on findings of first phase of the trial at NUS**
<http://ssgm.bellschool.anu.edu.au/news-events/podcasts/audio/4535/sotp2016-communication-technologies-media-and-development>
- ii) PIURN conference 2016 presentation on findings of first phase of the trial at NUS
- iii) UNESCO Mobile Learning Week –Presentation on the NUS Aptus study by Mose Mose
http://www.unesco.org/new/fileadmin/MULTIMEDIA/HQ/ED/pdf/MLW2017_ws_COL.pdf
- iv) Chan Mow I., Temese E., Mose M., Patu T., Mauai E., Sinclair I., Lafaele F., Namulauulu J., Tanielu M., Wong Soon A., Chan V.(2017)
“An Evaluation of the Usefulness and Ease of Use of the *Aptus* within the Samoan Education Context.” *Journal of Learning for Development*. Vol 4(3). (refer attachment)
- v) Presentation at ICT Tertiary Conference Victoria University of Wellington August 2017 on the Aptus trials by Tara Patu

SOCIAL AND CULTURAL DEVELOPMENTS IN THE PACIFIC

Health in Pacific Places: Local challenges and responses

Chair: Jenny Munro, Research Fellow, SSGM, Coral Bell School of Asia Pacific Affairs, ANU

Speakers

Ellen Kulumbu, PhD Scholar, SSGM, Coral Bell School of Asia Pacific Affairs, ANU
The Health Challenges and Responses of Women in Rigo, Port Moresby, and Imbonggu, Papua New Guinea

Colin Wiltshire, Research Fellow, SSGM, Coral Bell School of Asia Pacific Affairs, ANU; and
Denise Lokinap, Division of Strategic Management, School of Business Administration, UPNG
Case Studies of Health Expenditure and Performance in Papua New Guinea

Josina Wospakrik, PhD Scholar, School of Humanities and Languages, UNSW
Amungme Women's Health in Timika, Papua

George Gavet, PhD Scholar, SSGM, Coral Bell School of Asia Pacific Affairs, ANU
Fonofale – Pacific Health Models and Service Delivery for Pacific People

The success of even the best international and national health improvement efforts is determined by local factors. This panel highlights some complexities, challenges and opportunities of engaging with health at the local level. Presenters will discuss recent or ongoing research on topics such as youth mental health, HIV/AIDS, women's health, and health services.

Communication Technologies, Media and Development

Chair: Amanda Watson, Visiting Fellow, SSGM, Coral Bell School of Asia Pacific Affairs, ANU

Speakers

Jon Berry, Senior Consultant, ITS Global
Case Study on the Role of Services Trade in Global Value Chains: Mobile telecommunications in Papua New Guinea

Ioana Chan Mow, Associate Professor Computing & Computer Education, National University of Samoa
Evaluation of the Use of Aptus within the Samoan Education Context

Joys Eggins, Research Officer, ABC International Development (MDI NBC project)
Youth-focused News and Innovating Content Delivery in Papua New Guinea: A case study of Tribe 92FM

Socio-economic development and lifestyles in the Pacific are changing due to increased access to mobile phones, other information and communication technologies and media outlets. This panel will discuss the relationships between communication technologies, media and development. In particular, it will closely explore the roles of mobile phones in Papua New Guinea and Samoa in terms of socio-economic development and education. It will also introduce and examine a new youth-oriented radio station in Papua New Guinea. It is anticipated that attendees at this session will be challenged in their thinking regarding contemporary communication practices in the Pacific.

	Main Conference Session Venue: NUS Fale		Parallel Session Venue: CSS Postgraduate Seminar Room	
12.00pm	Robson Tigona University of the South Pacific	Relationship between the Southern Oscillation and rainfall in northern Vanuatu and eastern Solomon Islands	Pakop Sovo Pacific Adventist University	Assessment of growth, yield and nutritional performances of soybean (Glycine max (L.) Merr.) under organic and inorganic nutritional treatments at the dry-lowland Central Province of Papua New Guinea.
12.30pm	Michael Ha'apio University of the South Pacific	Transformation of rural communities as an effective way to building resilience in the Pacific Islands Countries— A case study of Mondo and Keigold villages in the Solomon Islands.	Rado Faletić Montroix Pty Ltd	Horizon 2020 – the largest research funding program in the world.
1.00pm	Jale Samuwai University of the South Pacific	Allocating Adaptation Finance of the Green Climate Fund: How the Pacific might fare post 2020.	Ronald Aknonero University of Goroka	The discovery of bioactive compounds from indigenous species of mushrooms through ethno-mycological leads
1.30pm	Lunch Break (NUS Fale)			
	Chair: Prof. Alan Quartermain	Repertoire: Rooney Mariner	Chair: Prof. Letuimanuasina Emma Kruse Vaal	Repertoire: Lucia Chung Kwan
2.30pm	Dr Serena Heckler UNESCO Office for the Pacific States, Apia.	UNESCO's work in support of Science, Technology and Innovation: Capacity-building and policy support in the Pacific.	Hebo Oika University of Papua New Guinea.	Impact of Land Development to the MotuKoitabu People in Papua New Guinea.
3.00pm	Prof. Basil Marasinghe Solomon Islands National University	Can scientific achievements of ancient Melanesians motivate students to learn Chemistry?	Mose Mose & Tara Patu National University of Samoa	Evaluation of the use of the Aptus within an educational context at NUS.
3.30pm	Ronald Aknonero University of Papua New Guinea	Ethnological Documentation and the Chemistry of eight native Pandanus (Pandanaceae) varieties from Kere village, Sinasina District, Papua New Guinea	Anji Naidu University of the South Pacific	Role of ICT in meeting societal challenges: A Case Study of Youth Champ for Mental Health in Fiji
4.00pm	Afternoon Tea Break (NUS Fale)			

"Addressing the Challenges of Sustainability in the Pacific Islands"

d. List all equipment purchased with UREC funds during the project²

- Include cost of equipment and supplier.
Please refer to invoice below for cost and supplier for 60 tablets
- Indicate where and how the equipment will be stored.
60 tablets are stored in a locked filing cabinet under the care of Oloa Lipine our Faculty Administrative Assistant
 - Indicate how ongoing costs (e.g. license renewal costs, batteries etc.) associated with the equipment's use will be covered.
Tablets are charged from the power outlets.
- Indicate how the equipment will be used after the project is completed.
Equipment are now being used for the ongoing Aptus training workshops as well as FOS ODL workshops, Instructional design workshops and technology innovation workshops, NUS meetings.

² Any equipment purchased with UREC funds and worth SAT\$500 must be declared to UREC Finance personnel and listed on the NUS asset register.

COMMERCIAL INVOICE				
Date of Exportation	20160627	Invoice number:	20160627AFT-1	
Shipper(complete name and address)		Consignee (complete name and address)		
CYJY ECOM CO., LTD 3rd Floor, Building 8, Zhongxing Industrial zone chuangye road, Nanshan District Shenzhen, 518057.China Phone: 0755-26063125		Consignee name: National University of Samoa Aptus study - Ioana Chan Mow Receipt address: National University of Samoa, 1 Toomatago road City: Apia Country: Samoa Zip - no zip Contact phone : +685 7246969		
No.	Description of Goods.	Qty (PCS)	Unit value (USD)	Total Value (USD)
1	Onda V820w Windows 10 + Android 4.4 Tablet PC - WHITE 160559901	60	65.9	3954
	DHL shipping	60	10.5	630
2	Protective Case for Onda V820w - BLUE 158742002	60	4.8	288
	DHL shipping	60	2.8	168
	insurance			105.21
			total	5145.21
I/WE HEREBY CERTIFY THAT THE INFORMATION OF THIS INVOICE IS TRUE AND CORRECT AND THAT THE CONTENTS OF THIS SHIPMENT ARE AS STATED ABOVE				

Account name: Global Egrow (Hongkong) Limited
 Account number: OSA90000156510100
 Bank Name: BANK OF COMMUNICATIONS CO.,LTD OFFSHORE BANKING UNIT
 Account adress: NO 188,YINCHENG ZHONG ROAD,SHANGHAI,CHINA
 SWIFT Code: COMMCN3XOBU

IV. SUMMARY OF APPROVED BUDGET³

Travel	0 (MESC contribution)
Subsistence & accommodation	2040.00
Equipment & Consumables	\$17840.00
Miscellaneous	120.00

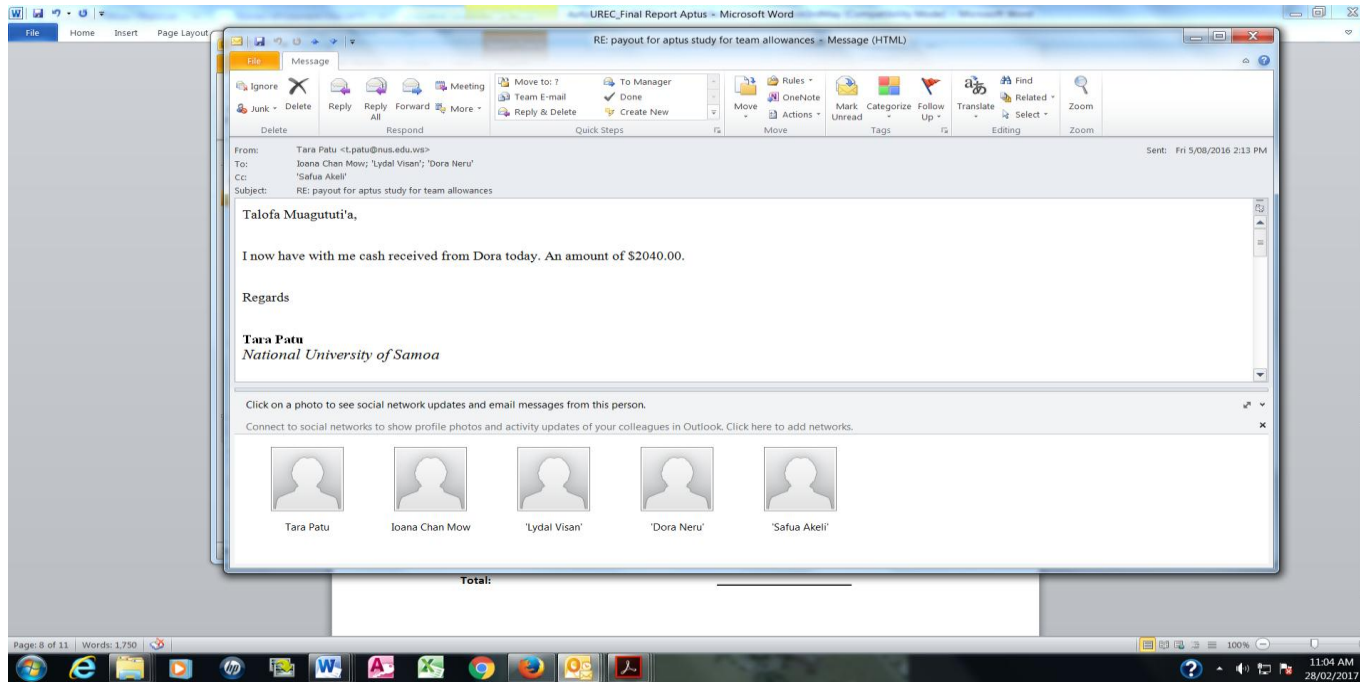
	TOTAL WST \$20,000.00

V. SUMMARY OF ALL INSTALMENTS RECEIVED⁴

Please refer to statement below from Finance Division

³ As was approved by UREC.

⁴ Instalments received during the reporting period and as was approved by UREC.



Date instalment received:

5th Sept 2016 from Dora CSS (refer copy of mail above)

VI. ACQUITTAL REPORT⁵

⁵ All original receipts must be given to UREC Finance personnel with only copies of receipts to be provided along with progress and/or final reports.

UREC PROJECT APTUS RESEARCH PROJECT (IOANA CHAN MOW)

Date	Paid to:	PO no.	Amount	Details
7/5/2016	Dora Neru (Aptus Study - cash cheque)	12481	2,040.00	Instalment - Cash cheque
7/5/2016	Ioana Chan Mow (Aptus Study)	12482	13,391.13	Installment - Direct trf to supplier
7/21/2016	L&L Customs Agent (Aptus Study)	12487	260.00	Tablets & cases clearance entry
7/21/2016	MfR (Aptus Study)	12488	2,024.50	Customs duty - Tablets & cases
7/25/2016	DHL (Aptus Study)	12490	100.00	DHL documentary fees for 4 entries
17-Aug-17	Tara Patu (Ioana Chan Mow Project)	19174	2,184.00	Bal contributed to Tara Patu airfare.
			19,999.63	

		Endorsed by UREC Finance personnel:
Total expenses	\$19,999.63	(Finance to sign upon receipt of all receipts and copy of final report)

Balance to _____ Any un-expensed funds must be receipted back to Finance with the associated receipt included in future

be paid out **\$NIL** progress and/or final report

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VII. CERTIFICATION BY PRINCIPAL RESEARCHER

I certify that all the details contained in this progress report are true and that all research partners and co-investigators agree that this report is an accurate representation of the project's progress so far.

Name: Ioana Chan Mow

Signature: _____

Date: 13th March 2018

Terms and Conditions for all Researchers to follow
As approved on 5th October 2001, Amended 2005

1. The project shall be carried out within a period of 12 months and at such time a detailed report of its implementation and outcome shall be provided to the Committee.
2. The Committee may at any time require a progress report from the researcher.
3. A copy of the completed research must be deposited with the Institute upon completion of the research.
4. The Researcher shall be accountable to the Committee for the funds given by providing receipts or other evidence of expenses and a log book of activities for the duration of the research.
5. The Researcher shall not publish the whole or any part of the outcome of the research without the written approval of the Committee being obtained.
6. The Researcher agrees to be bound by universal ethics and good practices of research and a code of research ethics that may be adopted by the National University of Samoa and amended from time to time.
7. The Researcher declares that the funding granted by the University is the only funding which he/she will receive to fund what is being sought and approved for this research.
8. The Researcher declares that the funds will be used for the purposes stipulated and detailed in the research budget unless an alternative use is approved by the Committee or the Director of the Centre for Samoan Studies.
9. Acceptance by the researcher of the offer comprises acceptance of all the conditions expressed and implied by this offer.
10. No monies shall be disbursed before acceptance of the offer by the researcher has been effected and a plan for the disbursement of funds is lodged with the Director of the Centre for Samoan Studies and the Finance Registrar.
11. In the event of the researcher breaching any of the terms and conditions of the funding hereby provided the Committee may take whatever action is necessary against the researcher including demanding that the researcher repays to the University all or part of any funds disbursed for the project.