Pacific Women in Geospatial

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Volume 1 Issue 1

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INSIDE THIS ISSUE

"…The 'Pacific Women in Geospatial' magazine is borne primarily out of the necessity for the advancement of women in geospatial around the Pacific region. It confirms that gender should not be an obstacle to succeed in this profession. Despite our efforts to reduce gender biases, gender remains to be a significant determiner of an individual's role and visibility in business and our society today…"

Editorial

By Vasiti Soko

Welcome to the first edition of "Pacific Women in Geospatial". First and foremost, I would like to thank FUGRO for sponsoring the printing of this magazine. Without their support, we would not be able to distribute "Pacific Women in Geospatial" to the girls and women in remote areas that have limited access to the internet. The editorial team for realising one of our dreams and turning it into a reality by volunteering their time to refine the articles and most importantly shine the light to the amazing women whose stories are deservedly featured here.

When I first thought of this initiative, I was slightly reluctant due to external pressures quite often exerted on us women for our obligations at home, work, community and society as a whole. Michelle Obama once said that "As a woman we must stand up for ourselves, for each other, for justice and for all"

Earlier this year, I was fortunate to have participated in a one week intensive Women in Leadership Initiative programme organised by the Australia Awards Women's Leadership Initiative's 2019, Leadership and Mentoring program. With 35 other Pacific women in the programme, we revisited and strengthened our leadership skills and career goals. One of mine was breathing life to this magazine.

On the 23rd of May, 2019, Fiji's minister for education, Honorable Rosy Akbar recognised that science, technology, engineering and mathematics (short for STEM) female were underrepresented. The statistics speak for itself with only 19% female in technology and 15% in engineering in the global context. While it's totally understandable that we won't solve these issues overnight, it's often taking the first step to addressing them is important. Stories in this magazine will not only showcase Pacific talents but potentially help the younger generation with different career options.

The geospatial industry is a growing industry all over the world and here in the Pacific we've created a hub (magazine) for women to collaborate, support STEM and promote the profession to girls in school.

Forestry

Akosita Lewai (Fiji)

Figure 1: Ms. Akosita Lewai

Akosita Lewai is the Director forest resource assessment & conservation with the ministry of forestry in Fiji. She attained her Bachelor of Arts degree major in Geography and Marine Affairs in 1999. She joined the ministry of forestry in 2002 as a civil servant and was promoted to Forest Officer GIS in the same year.

Forestry management services division is the database for the ministry of forest that specifically deals with the management of forest areas and activities within Fiji's natural forest.

During her stint with the ministry of forestry, she was influential in the mapping of the forest cover map. The method was using remote sensing by analysing satellite imageries. It was carried out in 2006 when the technology was rare. The output is the current forest cover map of Fiji covering seven main islands that were utilised on the national forest inventory sampling of plots to determine the existing stock and assess the total volume for Fiji's forest.

In 2013, Ms. Lewai assumed the position of Principal Forest Officer and the head of the division. The division was renamed to "Forest Resource Assessment & Conservation" in early 2018 to include the parks and reserves section. She was responsible for the unveiling of the Queens commonwealth canopy plaque in Colo i Suva forest park by the Duke of Sussex, Prince Harry in 2018 commemorating the extent and coverage of the commonwealth countries.

Ms. Lewai is a member of the technical committee for the mangrove management plan and the geospatial council. She is also the focal person reporting to the forest resource assessment and FAO. She thrives on the pressure of working in a male-dominated industry and is thrilled to highlight that there is a significant increase in women trained and working in the forestry field.

Figure 2: In the field conducting monitoring of harvest areas.

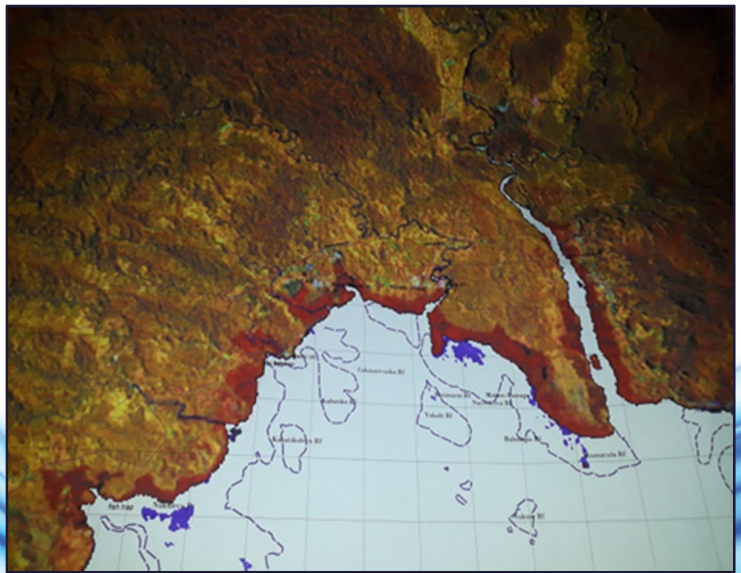

Figure 3: Analysis for Mangrove mapping using Landsat images

"...During her stint with the ministry of forestry, she was influential in the mapping of the forest cover, based on analysis via satellite imagery..."

Research

Cynthia Ombul (Papua New Guinea)

Cynthia Ombul holds a Bachelor of Science with honours in Environment Science and Geography majoring in GIS and remote sensing from the University of Papua New Guinea (UPNG). She works as a GIS Technical Officer with the University of Papua New Guinea - GIS & Remote Sensing Centre. She developed her passion in GIS on her first year of studying her undergraduate degree fascinated by the power of GIS analysis where everything is as simple as a click on the mouse.

With her passion for GIS, she engaged herself in a couple of researches within the field. In 2017, she carried out a research for her honours thesis using GIS and remote sensing to detect change in land use and land cover. An intensive four weeks on foot survey conducting population and socio-economic activities using GPS points in Hoskins-Mosa area in West New Britain Province (WNBP). A house to house head count was done and information on the types of land use activities were collected which included visiting a local village high up in the Nakanai Mountains.

The research was very challenging but yet interesting with the sole purpose of utilising GIS and remote sensing tool to assess land temporal changes in LULC in a period of 42 years and subsequently predict the likely changes that can occur over a given period in the future.

Using satellite images of different year period, a classification system was created and different land use and land cover classes were identified. Spatial patterns of change were analysed as well as the trend, rate and magnitude of the changes were measured. The drivers of changes were identified based on the data collected and analysed from the socio-economic and population survey. The future prospects of the change was successfully forecasted for Hoskins-Mosa taking into consideration the availability of land, the population growth rate and areas occupied by anthropogenic activities.

The trend of population growth rate and its density were mapped against the patterns and trends of land use and land cover change to identify the relationships between population and land used. For the first time change detection analysis in a local level in WNBP was done and clearly mapped out.

Calculations of the extent and rate of change that had occurred within the last 42 years in Hoskins–Mosa were quantitatively calculated and presented. The trend, rate and pattern of change were visually display to depict how much impact the human activities and population growth have caused on the natural landscape in the area.

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The research have shown how useful the tool of GIS can be in assessing and depicting land use and land cover change over different time period and could be very helpful in proper land use planning and management for sustainable development. A similar research like this is encouraged to be done in other areas to see how far we have affected the natural land cover in our struggle for survival.

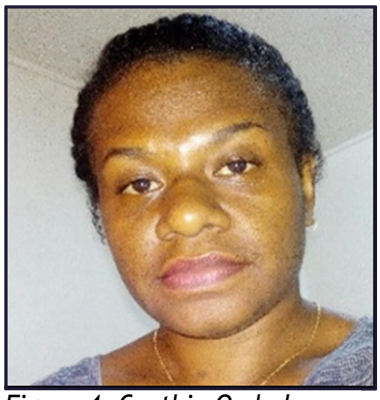

Figure 4: Cynthia Ombul

"...In 2017, she carried out a research for her honours thesis using GIS and remote sensing to detect change in land use and land cover..."

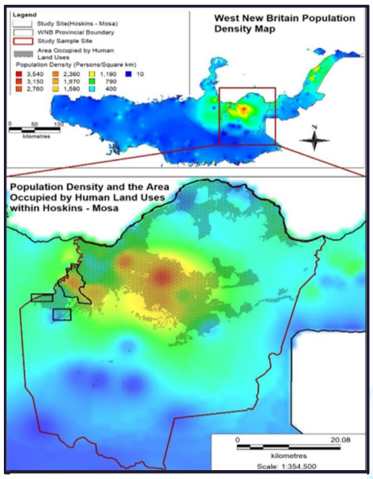

Figure 5: Population Density

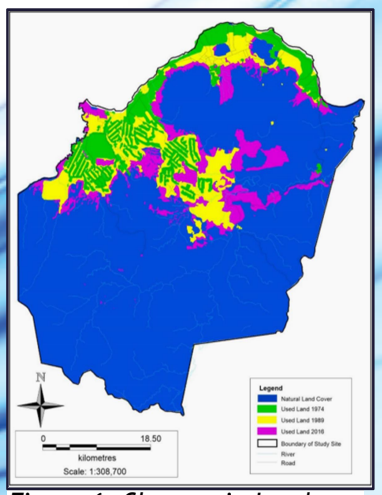

Figure 6: Changes in Land use cover map

Commercial Mapping

Ebony-Jean Ta'avili and To'oa Faleaupu (Samoa)

Figure 7: From left -Ebony-Jean Ta'avili, To'oa Faleaupu Brown

Ebony-Jean Ta'avili, originally from Siusega village and To'oa Faleaupu Brown, originally from Vaola village is currently employed with SkyEye - a successful local GIS consultancy Company in Samoa.

To'oa recently completed her Bachelor of Science majoring in Geography and Environment Science at the University of Auckland. She experienced GIS while taking some undergraduate courses and it was a pre-requisite to her programme.

Ebony is a graduate from the University of Canterbury with a Bachelor of Science majoring in Geography and Environment Science.

Both ladies have acquainted themselves with the application of GIS and remote sensing and how it has been used in the Pacific region. They both love working with various geospatial tools to perform data processing and spatial analysis that are made available by their company SkyEye.

In March 2018, Ebony was assigned a major project to map the main urban water catchments that were affected by Tropical Cyclone Gita. The project involved capturing images, generating point cloud data and identifying damaged areas. The data produced was packaged into workspaces for ''ready-to-use tools" in water catchment assessment.

"...SkyEye is utilising their services to observe reference points for Samoa through GNSS receivers measuring down to centimeter accuracy..."

Tooa has been involved in various projects with different stakeholders since August 2018. One of her roles includes making location maps for businesses.

Similar to other Pacific island countries, Samoa does not have a proper addressing system or street names and by geocoding business locations, they hope to solve some existing issues like finding locations of businesses for tourist.

Figure 8: Operating the drone in the field

They take pride in their work and how far SkyEye have evolved as a multifunctional geospatial company. They now incorporates engineering with GIS and remote sensing. One of their recent project included GIS and flying drones for topographical survey. The output was then used to design a river protection wall for flood-prone areas to better secure communities during the cyclone and monsoon season.

Samoa's climate change adaptation project was one of the successful projects they completed using the GIS tools they developed to monitor post project data. The tools allowed them to improve data management and promote the flow of information.

Using GNSS (Global Navigation Satellite System) and the GIS tools simultaneously, they have managed to improve their work in areas with no internet connection.

SkyEye is utilising their services to observe reference points for Samoa through GNSS receivers measuring down to centimeter accuracy.

In addition to their many roles, they are also involved in researching, developing tools and technology for the betterment of their community.

Graduate Student

Inesha Lise Mazini (Solomon Island)

Inesha Lise Mazini is one of the few females in the Solomon Island to graduate in the field of geospatial. Taking on the developer stream instead of an analyst stream, Iniesha knew exactly where she will contribute in her home island. She completed her studies from the University of the South Pacific and is currently awaiting the September graduation.

Having to attend the 2016 Annual Pacific Islands GIS & RS conference in Fiji, she finds GIS fun, and interesting with potential links to integrate with other fields. Additionally her love and passion with GIS was further strengthened after listening to other organistions speaks of their work.

In 2017, she was awarded the First Year outstanding student in geospatial Science by the Faculty of Science, Technology & Environment. She also volunteered as a mentor for the GS101 students for a semester and has enjoyed interacting with students, assisting them with their lab activities and assignments. Teaching GIS is exciting as it involves both hands on experience with tools, software's and theoretical component. One of the struggles she found as a mentor was debugging scripts that could not run.

It was tiring and sometimes frustrating, but after going through the steps again, not only were they able to solve the script but also built their confidence in the programming language. She is a firm believer that there is always light at the end of the tunnel.

She also participated on a 3 day project in Nadi, Fiji in 2018 by setting up new benchmark in Naboutini village. They flew drones to capture images of the village in order to create resourceful maps, processed in Pix4D, which can be used by GIS students in USP. Inesha plans to pursue her studies further in the near future and intends to specialise in GIS work.

GIS is her muse and as a famous geographer once said "Everything that happens; happens somewhere, and that 'somewhere' is what we GIS'ers are interested in".

Knowing about location in this present time when patterns and processes in our environment are changing dynamically and unprecedented disasters occurring will help us prepare and work to minimise their impacts. She is keen to work with other Pacific island women who hold the same passion as her and she knows through this network, she can build on what she knows and help others on her way to success.

Figure 9: Inesha Lise Mazini

"...In 2017, she was awarded First Year outstanding student in geospatial Science by the Faculty of Science, Technology & Environment..."

Figure 10: Field Work

Planning

Darlynne Takawo (Palau)

Figure 11: Darlynne Takawo

Darlynne Takawo hails from the beautiful island of Palau, located in the northern Pacific. Her career started as a Reality Aide and she quickly moved up the ladder to her current post as a GIS Analyst II. She is currently employed with PALARIS and their main role is to provide GIS professional support to government ministries and affiliates. The support allows government ministries to make informed decisions and formulate national policies that incorporate management of human, economic and natural resources for the Republic of Palau.

Darlynne understands the struggles of working in a male-dominated field but she found comfort in her supervisor who supports and motivates her to push on. She started taking classes in her island community college and was fortunate to attend training and workshop overseas. She is an advocate of GIS to both her colleagues and her community. She once conducted a short training for her staff in QGIS using UXO and has assisted in a number of projects including roads, sewer lines, census, agricultural farms, aquaculture farms, cadastral lots and invasive plants to name a few.

Importance of PALARIS:

• GIS increases the accuracy of measurements through Remote sensing technology and allows to measure areas that are inaccessible otherwise.

• GIS allows to super-impose layers to enhance decision-making capabilities. For example, many layers are needed for land use planning: GIS can over-lay them to facilitate the creation of a land use plan.

• GIS caters for the extrapolation of information and forecast potential scenarios if events were to occur- climate change and adaptation.

• GIS stores information for quick access and manipulation when different applications are devised allowing the same information to be used in many ways.

"...The support allows government ministries to make informed decisions and formulate national policies that incorporate management of human, economic and natural resources for the Republic of Palau..."

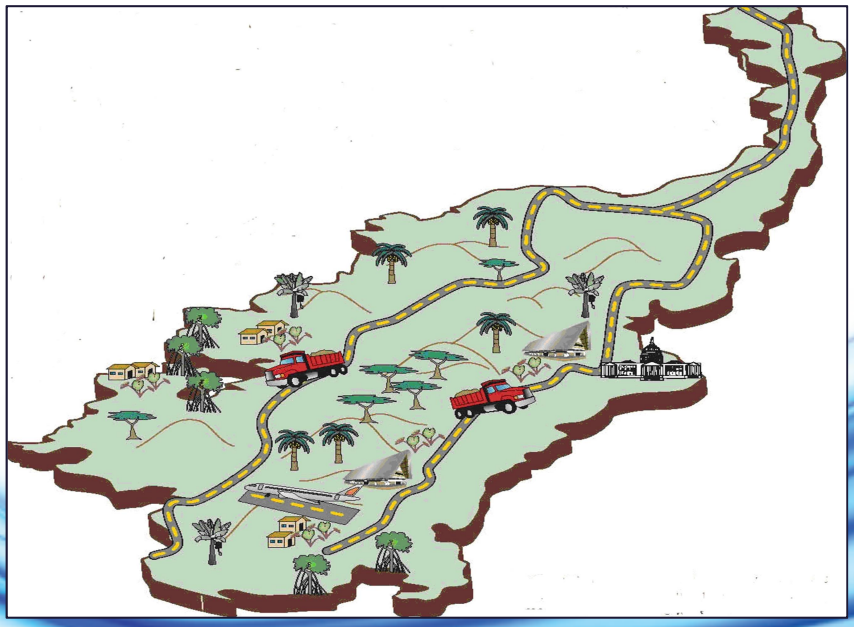

Figure 12: 3D Map of Palau

Utilities and Natural Resources

Jimaima Le Grand (Australia)

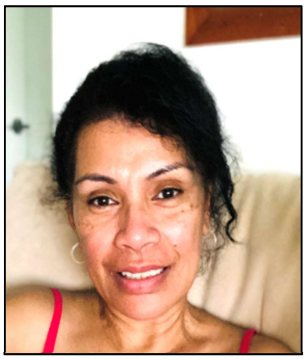

Figure 13: Jimaima Le Grand

Jimaima Le Grand, from Vanuavatu in Lau group of islands, was brought up in Viti Levu where her father worked as a Methodist Church Minister and her mother as a school teacher.

She enrolled at USP for Foundation Science before getting a scholarship to study surveying in the University of Southern Queensland and the Queensland University of Technology.

Ms. Le Grand worked as a surveyor for about 5 years before enrolling in the Master of Geographic Information Science course at the University of Queensland which is the area that she has been working in for the past 20 years. As a surveyor she mainly worked for the lands department in Fiji - Central/Eastern section on Viti Levu -doing typical surveying tasks like boundary re-definition as well as representing the department at various meetings in an advisory role. In Queensland, she worked as a graduate surveyor on roads and railway construction projects.

As a spatial scientist, she worked in the environment protection and natural resources management (NRM) sector for the Queensland government for 14 years. She also did stints in state development or infrastructure planning and primary industries. Most of the work was about using GIS to support sustainable development and use of natural resources and to provide science-based policies for the government.

Over time, she worked in the data management side of GIS, creating data and mapping but mostly in the spatial analysis side of things. She worked across a wide range of issues ranging from managing vegetation clearing where she initially co-wrote a prototype or GIS program to assess vegetation clearing applications as part of her studies and was offered a short-term contract to work on its implementation in the state government. It paved the way to other work such as addressing spatial data quality within the organisation.

"...she initially co-wrote a prototype or GIS program to assess vegetation clearing applications as part of her studies and was offered a short-term contract to work on the implementation of it in state government..."

She worked in, researching spatial models about water movement through soils and sediment movement through the landscape and the impacts of ground cover, addressing biosecurity issues such as mapping the spread of weeds or animals that are considered pests and predicted their expected impact as a result of climate variation, work in collaboration with other scientists and ecological economists to provide assessments on natural resource status planning and its impact economically for example the economic viability of carbon forestry and so forth.

In 2015, she worked on the MACBIO project and was based with the IUCN oceania office in Suva, Fiji. It was a two-year contract that involves carrying out some of the aspects of the marine spatial planning and deriving some of the base information to support the Pacific Island governments in determining their marine protected areas for the agreement on the conservation of biological diversity.

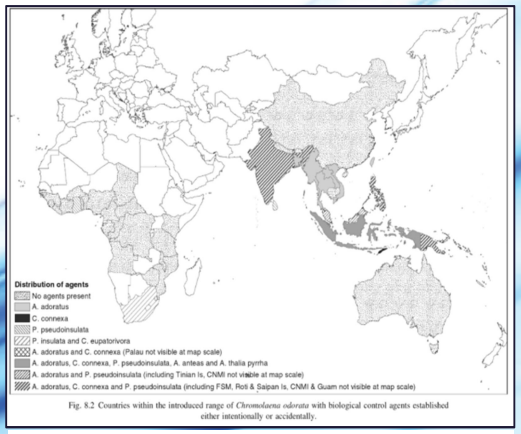

Fig. 8.2 Countries within the introduced range of *Chromolaena odorata* with biological control agents established either intentionally or accidentally.

Figure 14: Distribution of agent map.

Lands and Natural Resources

Lynette Sifa (Tonga)

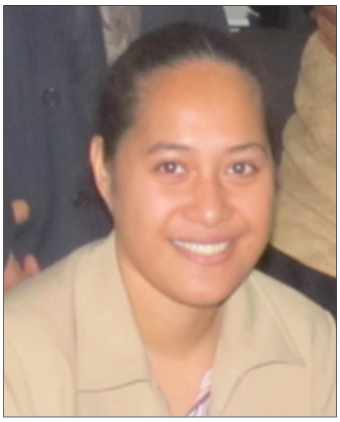

Figure 15: Lynette Sifa

Lynette Sifa is a 26 year old Tongan and currently works as a GIS Analyst for the GIS section, LGIS Division, and ministry of lands & natural resources. She had this position since 2014 as a returned scholar of the Ministry studying a double major in (BSc.) Geography and Information System at USP. She recently graduated with a Master of Science in Geographic Information Science from the University of Queensland, July 2018.

She has been enjoying working in-house and on the field for five years with the disaster and environmental management GIS related activities. Ms. Sifa is wants to be part of expanding GIS in Tonga's community by providing web map services.

There are only 3 women out of 9 GIS staff in her department, and considers herself fortunate enough to be part of the team.

Generally her duties include assisting her superior with managerial duties, but focus more on technical tasks. Furthermore, she represents the GIS section in local meetings and presenting in international conferences like the "Pacific GIS & Remote Sensing Council Annual Conference". She is also tasked with ensuring that baseline datasets are being digitised, collected, stored and updated consistently to achieve a high-standard quality. Providing in-house training and supervising new staff in using GIS software and tools are the best part of the job. Data collection using GNSS and serving the public and stakeholders through providing analytical maps of damage assessments, inundation models, LULC and environmental monitoring maps to support decision makers and other relevant authorities.

The highlight of her career is being part of various projects such as the TCIRCRP (tropical cyclone Ian reconstruction Climate Resilience Project) in April, 2014. GIS tools were used to identify households that were severely affected by the cyclones. The team digitised building rooftops to help report the damages incurred. These lead to the prioritisation of fund distribution to the most vulnerable households.

Another exciting project worth mentioning was the creation of the (P3DM Participatory 3-Dimensional Model) as part of the department of environment's BioRAP project in 2015, and again in 2016 for R2R (Ridge-to-Reef) (refer to Figure 16). GIS played a major role in the creation of the 3D models which aimed at educating the locals to be environmental conscious of our terrestrial and marine ecosystem especially the protected sites.

Ms. Sifa is enjoying her career in GIS and is not in a hurry to change it anytime soon. " A career in GIS is super cool because you can learn new things almost every day and get to do in-door tasks, outdoor or both like performing spatial analysis, image processing, writing scripts, or better yet travel to remote sites such as volcanic islands for data collection".

She acknowledges that it requires hard work and a lot of up skilling is needed to get ahead, " GIS is amazing and fun but it can also be a challenging because anything to do with GIS is also IT related and we have to constantly update our knowledge and experiences to stay on track".

" … A career in GIS is super cool because you can learn new things almost every day and get to do in-door tasks, outdoor or both like performing spatial analysis, image processing, writing scripts, or better yet travel to remote sites such as volcanic islands for data collection…"

Figure 16: Ridge to reef 3D model

Disaster

Mereoni Keteiwai (Fiji)

Mereoni Ketewai has been in space for the last nine years and it has been nothing but a challenging rewarding part of her life. She began this journey with Geographical Information System (GIS) back in 2006 when she started her first year at the University of the South Pacific.

"In all honesty I did not like the GIS units but the units had to be done as they were pre-requisites to completing my bachelors.

"In total there were 5 pre-requisites units, the core units of the GIS program which I am glad I chose allowed me to work in the area of disaster risk management, emergency response and management".

She has worked in the field of GIS in DRR for the last nine years and the work has taken her all over the Pacific region and the world. Some of which include:

• Carrying out GIS4DRM trainings both basic and advance to counterparts of the national disaster management offices in the Pacific. This capacity building exercises allowed me the opportunity to impart knowledge but more so learn from different country experiences and what works best where how and why.

• Travelling to the remotest islands states in the Pacific that was not accessible but by boat a few days at sea. She was part of an all-female survey team that engaged in rain water harvesting system work for all of Tokelau.

• Being part of a wider survey team that assisted in the post disaster needs assessments (PDNA) surveys in four major natural disasters in the Pacific. 2012 tropical cyclone Evan in Fiji, 2014 tropical cyclone Ian in Tonga, 2015 tropical cyclone Pam in Vanuatu, 2016 tropical cyclone Winston in Fiji.

It has not been an easy road for Ms Keteiwai. "I have had times where I had to work 10 times harder than my male counterparts, times where the integrity of my work was questioned and having to justify processes taken to complete a set of work".

"Even to the extent of whether I should be in this field".

Predominately a male industry, this should not discourage girls in getting into it and allowing them the satisfaction of working in science that gathers, analyses, manipulates, manages and presents a variety of spatial and geographical data.

Using GIS has allowed her to identify the needs of the most vulnerable and highly at risk during emergency response. It has allowed decision makers to make sound, informed, timely, life threatening decisions within the first 24 hours of a disaster.

All these opportunities, flexibility and the importance of the GIS tool have paved the way for her career that she has come to love today.

"...I have had times where I had to work 10 times harder than my male counterparts, times where the integrity of my work was questioned and having to justify processes taken to complete a set of work..."

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Figure 17: Mereoni Keteiwai

Education

Shweta Joshika Sharma (Fiji)

Figure 18: Shweta Joshika Sharma

Shweta Joshika Sharma recently completed her Bachelors of Geospatial Science from the University of the South Pacific under National Topper Scheme. She is currently a part time postgraduate science student, majoring in Environmental Science, is a lab demonstrator and marker at the School of Geography, Earth Science and Environments. During her time as a student, she was the first female to be awarded the gold medal for the most outstanding Bachelor of Geospatial Science.

Shweta had also been offered a Graduate Assistant scholarship by the University of the South Pacific to complete her master's in Geography at the beginning of the 2nd semester, July 2019.

Originally from Labasa, It was hard to live in Suva on her own at first. However the lecturers and the GIS family always made her feel at home.

In her second year of studies, her father passed away. Although she missed a lot of school work, she managed to get A's and A+'s in the courses she took that semester. In her final year, she was given the opportunity to be one of the lab demonstrators for the course Geospatial Information Systems (GS101).

After completing her degree, she wanted to further her studies but her mother, being a single parent, could not afford the high fees. Instead she accepted the Graduate Assistant scholarship offered by USP. Despite the hardships, she has learnt to deal with the circumstances patiently before an opportunity arises to continue with her plans. Additionally, she is a part-time lab demonstrator and marker for the courses Geographic Information Systems I (GS201) and Geographic Information Systems II (GS301) at the School of Geography, Earth Science and Environment.

Ms. Sharma intends to carry out her master's research with a focus on the accuracy of the GIS analyses when assessing damage caused by natural disasters. It will include fieldwork and GIS analyses to synthesis informative maps.

"The Pacific is yet to discover the power of geographic information systems and with more and more students enrolling in Geospatial Science every year, we will soon utilise GIS technologies to its maximum thus improving decision making".

She encourages youths all over the Pacific to take up the challenging yet interesting programme and help make a difference in the Pacific.

"...The Pacific is yet to discover the power of geographic information systems and with more and more students enrolling in Geospatial Science every year, we will soon utilise GIS technologies to its maximum thus improving decision making..."

Figure 19: Out in the field capturing data.

Exploration and Mining

Elizabeth Lomani (Fiji)

Elizabeth Lomani started her career in SOPAC/SPC as an IT attaché and later moved on to the geospatial unit.

"I was with the IT department when I was assigned to assist with training the TLTB staff on capturing data in GPS and transferring it to the GIS".

Figure 20: Elizabeth Lomani

The agricultural leases were expiring and drastic measures were needed to allow the tenants to own a residential property before the expiry of their leases. The project saved money for TLTB subsequently convincing their management to absorb the methodology as part of their mapping. This was the beginning of her journey that would see her working with projects in the Pacific region and around the world.

Ms. Lomani's first assignment overseas was in Vanuatu where she assisted in training remote sensing. It was titled "Image Backdrop Production" and it involved georeferencing of satellite imageries, aerial photographs topographic map and image analysis.

"That training motivated the participants as they were able to use that knowledge to deliver on their work outputs".

It was later replicated in Solomon Islands, PNG, Tonga, Samoa, Niue, Nauru, Fiji, Cook Islands, FSM and Marshall Islands.

She assisted in implementing the geospatial and ICT part of the European Development fund 8/9 project. "For me, it was an exciting opportunity as I got to work on both the geospatial and ICT side of things which were training GIS /RS/GPS, going out to the field in different areas of expertise, collecting, collating data, coding with map-server to store and query the datasets".

"At that time, Google earth and Google map, were unheard of, but similar applications were developed and implemented right here in the Pacific".

"...At that time, Google earth and Google map, were unheard of, but similar applications were developed and implemented right here in the Pacific ..."

New technologies were entering the region and she was part of the team that was driving it.

Ms. Lomani travelled the Pacific with her team establishing geospatial units in telecom PNG, SIEA in the Solomon Islands and environment unit in Kiribati to name a few. Later on in the project, she took the lead role in carrying out the tasks.

"Once I had the confidence and the knowledge to do the work, I was given the responsibility to carry out the activities until I left SPC".

In between employment, she worked as a consultant for the Asian Development Bank contractors on climate change and urban planning, prepared an Aerodrome map for Aviation Fiji Limited and developed an inundation model for Majuro airport on projected scenarios of Sea-level Rise with MarTina Corporation.

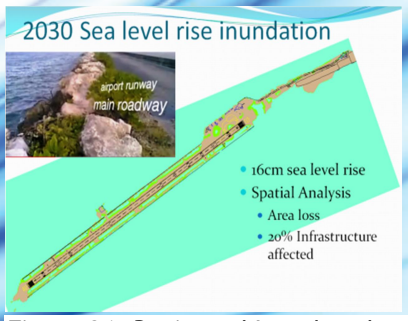

Figure 21: Projected Inundated areas if the sea rises by 30cm at Majuro airport.

She is currently employed as the GIS/RS specialist by Lion one limited; a gold mine company based at Tuvatu in Nadi. Her work includes developing applications suited for exploration and mining. "The work here is quiet diverse. We have the geology section, environment section and the construction section that differs significantly but we're always looking for a way to improve their work using GIS/RS/GPS technology".

Ms. Lomani enjoys working in geospatial and is appreciative of the opportunity to have worked under visionary leaders.

"Although they were male team leaders, the support they gave me to build my skills and experiences was tremendous and I will always be grateful for that".

Editorial Team

Ms. Soko holds a Master Geospatial Science from the Royal Melbourne Institute of Technology University in Melbourne, Australia. She has been working in the geospatial industry in Fiji and the wider Pacific for more than 10 years. Vasiti is a geodesy by profession. A former GIS Manager for the Fiji Sugar Corporation, team leader for the development of GIS with the Office of the Commissioner Western and the Mapping Specialist for ADB project on "Applying Space-Based Technology and Information and Communication Technology to Strengthen Disaster Resilience. She is currently developing the transformation parameters for Fiji's new datum out of her own interest working with Geoscience Australia. She is responsible for collecting, collating and finding funds to publish this magazine.

Figure 22: Vasiti Soko

Ms. Lomani has been in the geospatial industry for more than 19 years. She is currently employed by Lion One LTD as the GIS/RS specialist developing applications suited for exploration and mining. She is responsible for the technical editing and designing of the magazine.

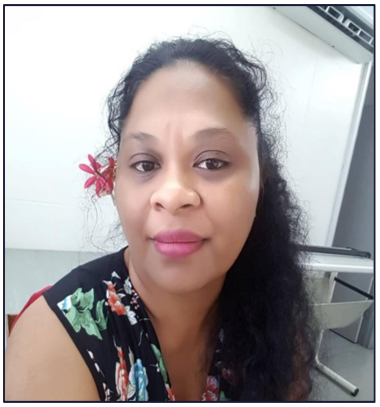

Figure 23: Elizabeth Lomani

Mr. Lomata is a private consultant with backgrounds in Law, Land and Information technology. A nomad by nature, his work has taken him all over the country, often spending years at different locations. He is responsible for editing before the final publication.

Figure 24: Taniela Lomata