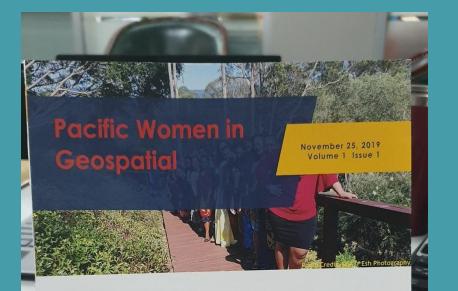
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South West Pacific Hydrographic Commission Wollongong 12-14 February 2020

- UGRO

Regional Highlights



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To'oa Faleaupu Brown

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"...The 'Pacific Women in

in geospatial around the Pacific region. It confirms that

gender should not be an obstacle to succeed in this

to reduce gender biases,

nder remains to be a significant determiner of an individual's role and visibility in business and our society

Geospatial' magazine is borne

primarily out of the necessity

for the advancement of women

profession. Despite our efforts

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 19% terrate 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.

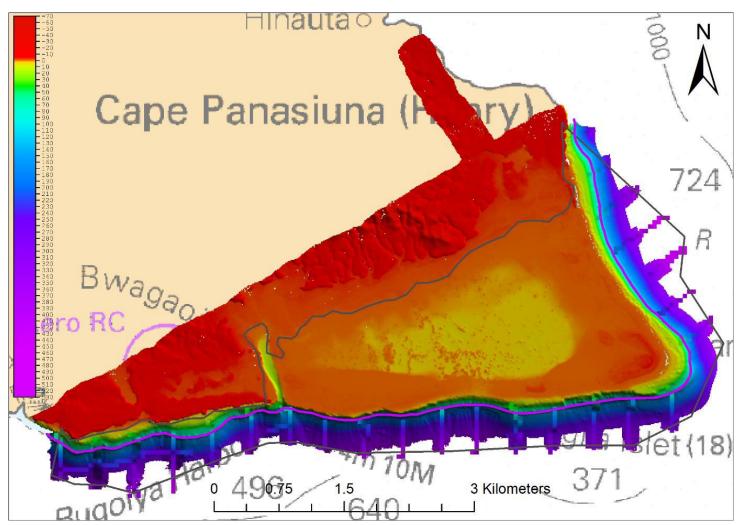
The geospatial industry is a growing industry all over the world and here in the The geospice created a hub (magazine) for women to collaborate, support STEM and promote the profession to girls in school,

https://pacific-data.sprep.org/dataset/pacificwomen-geospatial-magazine

Papua New Guinea 2017-2019

MBES and ALB survey of 30 locations in Papua New Guinea

- Client: PNG, National Maritime Safety Authority (NMSA) with Asian Development Bank funding.
- Objective: To conduct hydrographic surveys throughout the north and east of Papua New Guinea for charting purposes and to promote coastal trade, tourism and development.
- System: LADS HD and Riegl VQ-820-G Kongsberg MBES suite
- Over 20,000 linear KM's of MBES data combined with 27 ALB Flights

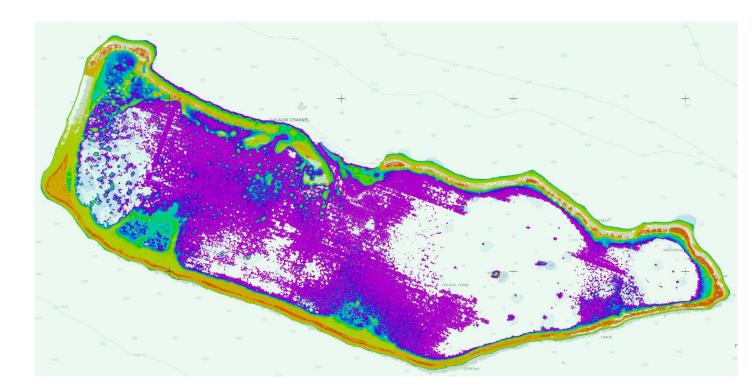


Misima Island IHO Order 1a and Order 2 ALB, MBES and SBES coverage with 100 m contour (purple) and contracted survey area (black)

Marshall Islands 2019

ALB survey of the Marshall Islands for coastal resilience efforts.

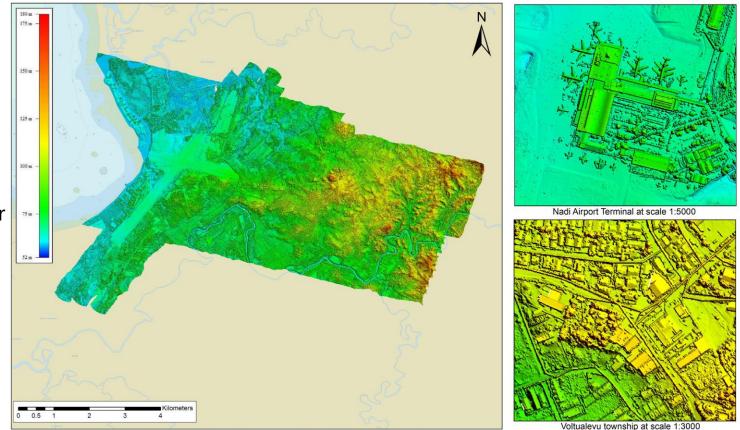
- Client: Pacific Community (SPC)
- Acquisition Period: 14 June to 27 June 2019.
- 9 flights total
- Objective: Acquire ALB data over Majuro Atoll and Eybe Island, Marshall Islands to help future proof coastal areas and communities.
- System: LADS HD and Riegl VQ-820-G





Fiji Airport 2019

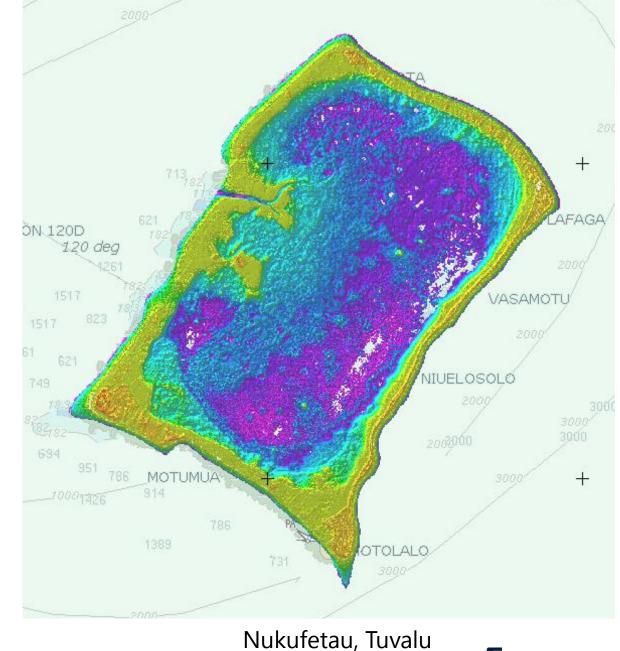
- ALB survey
- Client: Airports Fiji
- Acquisition Period: 6 May to 9 June 2019..
- Objective: Acquire topo data over Nadi Airport, for future upgrade planning.
- System: Riegl VQ-820-G



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Tuvalu 2019

- ALB survey of 9 atolls for the nation of Tuvalu
- Client: United Nations Development Program
 Acquisition Period: 14 May to 9 June 2019.
- Objective: Acquire ridge to reef ALB data over 9 Tuvalu Atolls to manage the threat of ongoing sea level rise and changing incidence of severe tropical storms. Tuvalu's small low-lying islands are being subject to enhanced exposure to wave over topping events and the incidence of marine flooding and inundation due to climate change and sea level rise.
- Coverage: 500 Square Kilometers.
- System: LADS HD and Riegl VQ-820-G

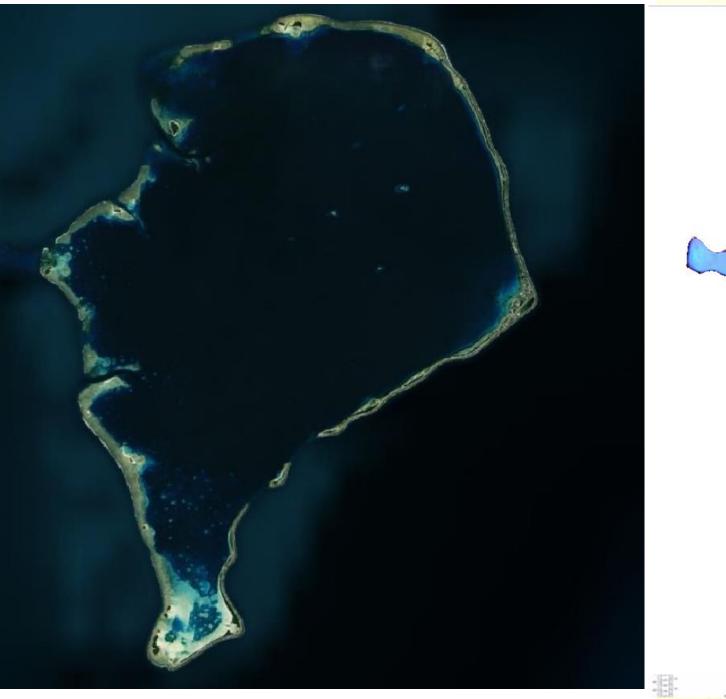


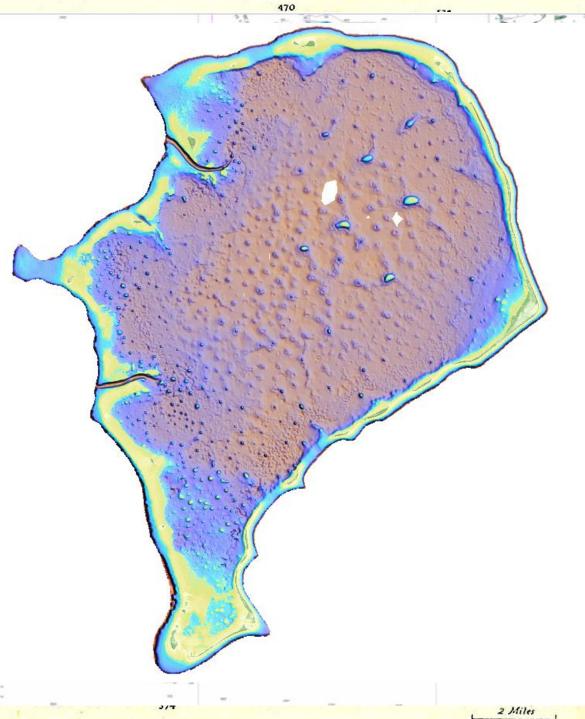
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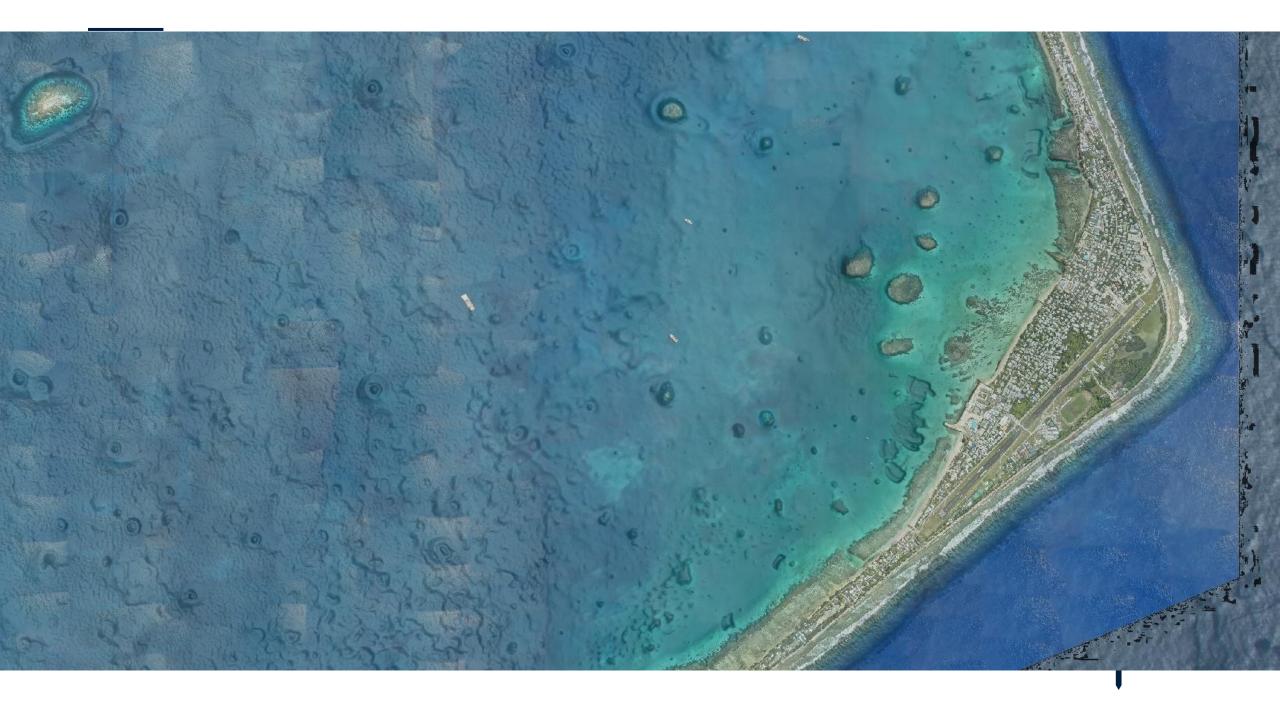


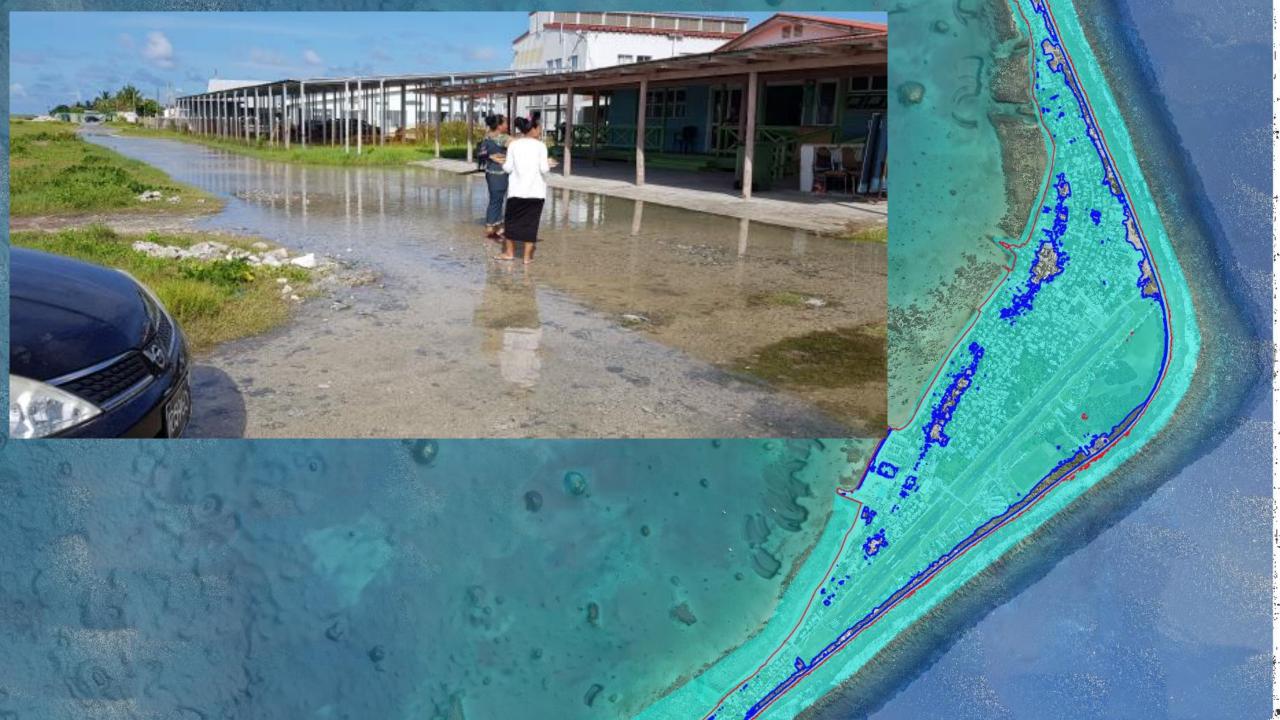
Tuvalu Coastal Adaptation Project Survey of all 9 Atolls

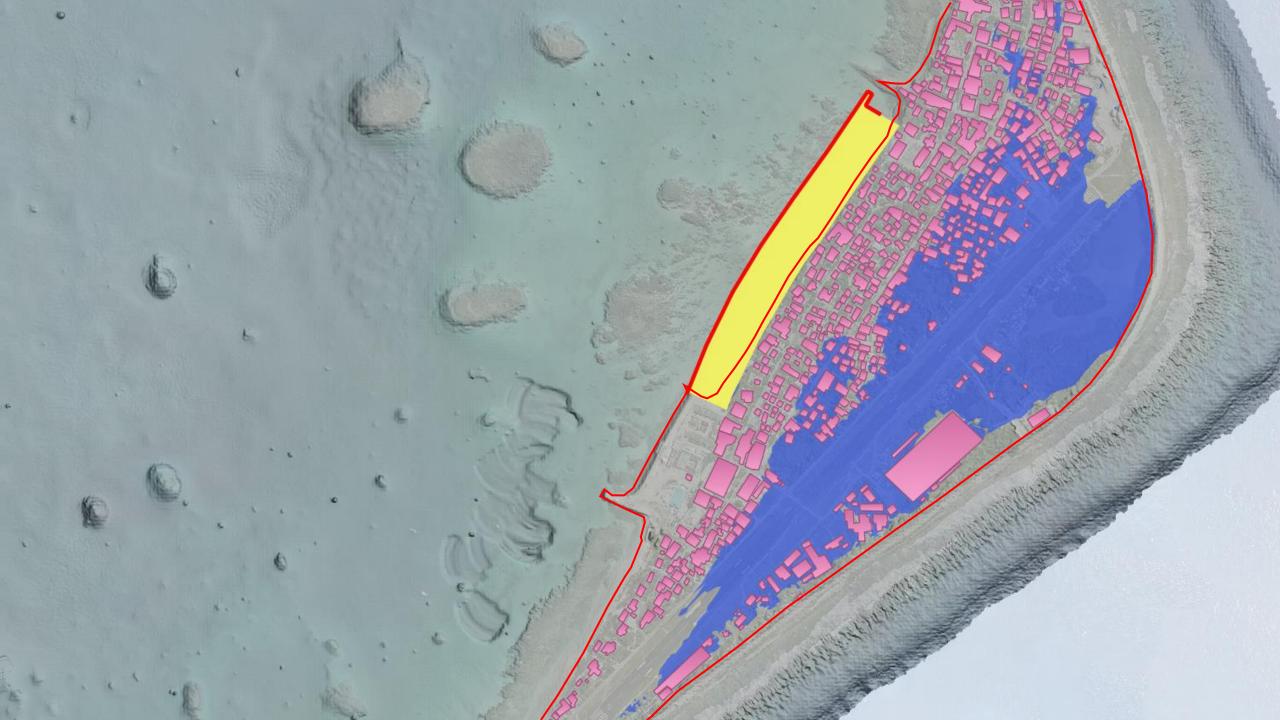




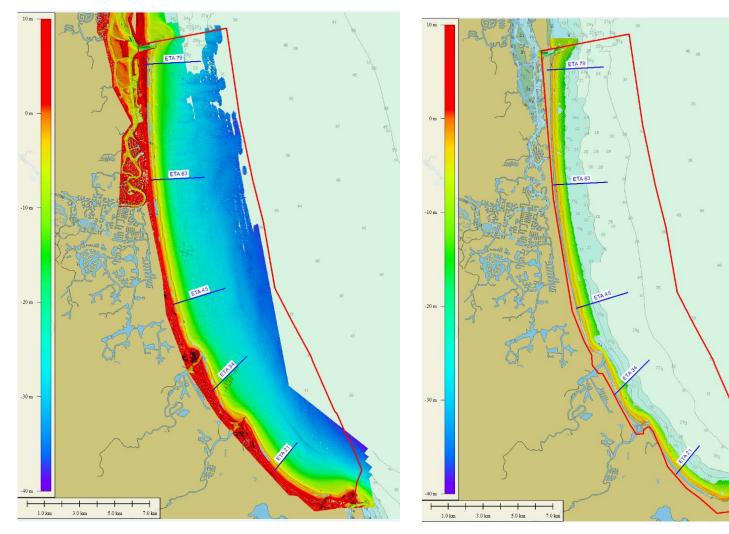








Current Project– Queensland ALB & SDB Monitoring



Project Objective:

Monitor coastal dynamics over 12 months (July 2019 to June 2020)

Survey size: ~200 SqKm

Survey Technic / Standard: ALB and SDB, IHO Order 1b

Project Status:

ALB Reference Survey completed SBD Monitoring on going

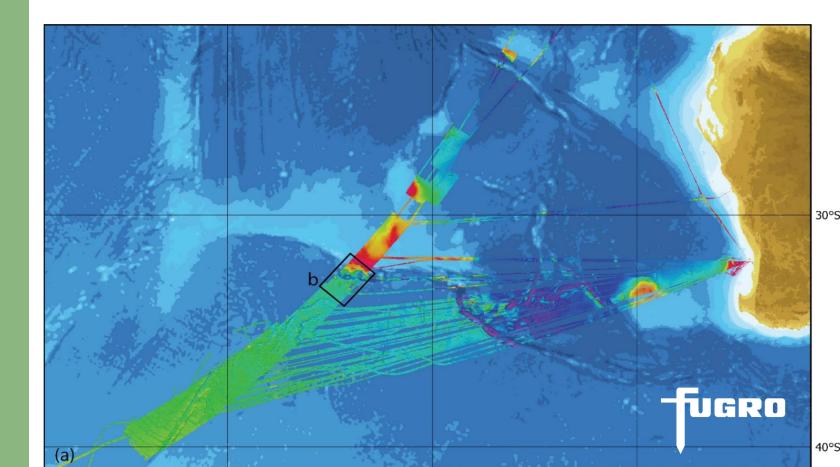


GEBCO Seabed 2030



Fugro's Asia Pacific fleet participating in our global effort to support Seabed 2030

>500,000 sqkm donated to date



Addressing the Tsunami Risk in Asia and Pacific States



ESCAP Sustainable Business Network

Participating in the United Nations Economic and Social Commission for Asia Pacific (UNESCAP) Sustainable Business Network task force on disaster and climate risk reduction

Pilot 1. Tsunami Detection using Advanced GNSS deployed at sea on Vessels

Pilot 2. Utilise helideck monitoring systems on offshore installation to augment tsunami warning systems



SWIRE





FAS900

Fugro Autonomous Surveyor



FAS-900 designed for utilisation in the **hydrographic** industry; Primarily for **broad area mapping of the seabed** with MBES for nautical charting applications.

FAS-900 Benefits include:

- Faster collection of high data quality;
- Reduces HSSE exposure through minimised offshore staffing;
- Provides sustainable operation through significantly reduced fuel consumption and carbon footprint.
- Hugh Parker (Adelaide) the Global Product Owner.



Remote Operations Centre

Remote Operations Centres established in Perth and Aberdeen to manage offshore operations reducing field exposure.

Data returned via Fugro Back2Base technology





RAMMS

No moving parts

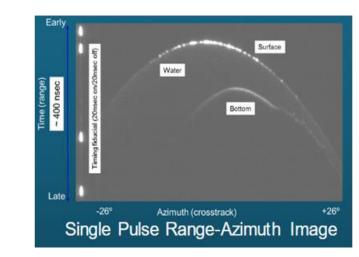
Low-power, Weight, Size

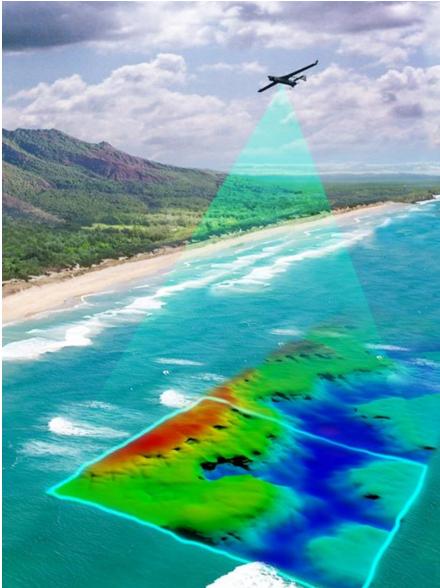
High Data Density

Drone Survey Capability

Pyxis generic point cloud data processing using ML & AI









Accredited Cat B Applied Hydrographic Survey Programme

24 week duration12 Places3 Points of Entry

N°**190** FIG/IHO/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC)

CERTIFICATE OF RECOGNITION

The FIG/I910/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers, having reviewed the programme **Applied Hydrographic Surveyor Programme (AHSP)** submitted by the FUGRO ACADEMY/FUGRO GREAT BRITAIN (NORTH) MARINE LTD (UNS) against the Standards of Competence for Category "B" Hydrographic Surveyors, S-5 B Edition 1.0.1, and being satisfied that it meets the requirements prescribed in the Standards, hereby awards this certificate of recognition for a period of six(6) years.



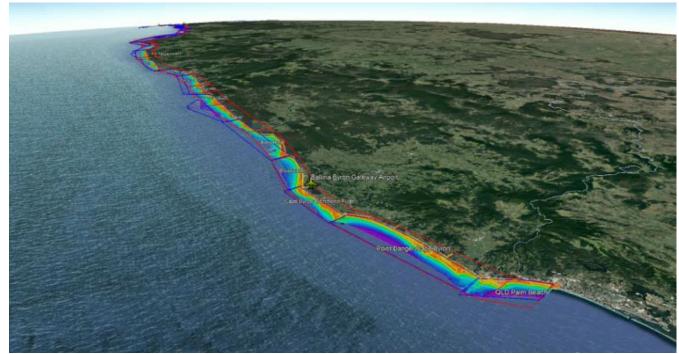


First course completed 2019. 2020 course currently training students from Australia, PNG (NMSA), India, Africa etc. World Hydrography Day - Survey Seminar (Suva)

New South Wales 2018

- Survey period: 14 weeks
- Area flown:~9,500 SqKm
 Final data Coverage area: ~7000SqKM
- Number of flights: 80 (~4hrs duration flight)
- 6 flights / week conducted on average during the course of the entire project (Up to 12 flights/week)

90kmm of coastal area fully surveyed per week





We unlock insights from Geo-data, for a safe and liveable world

Our Mission

