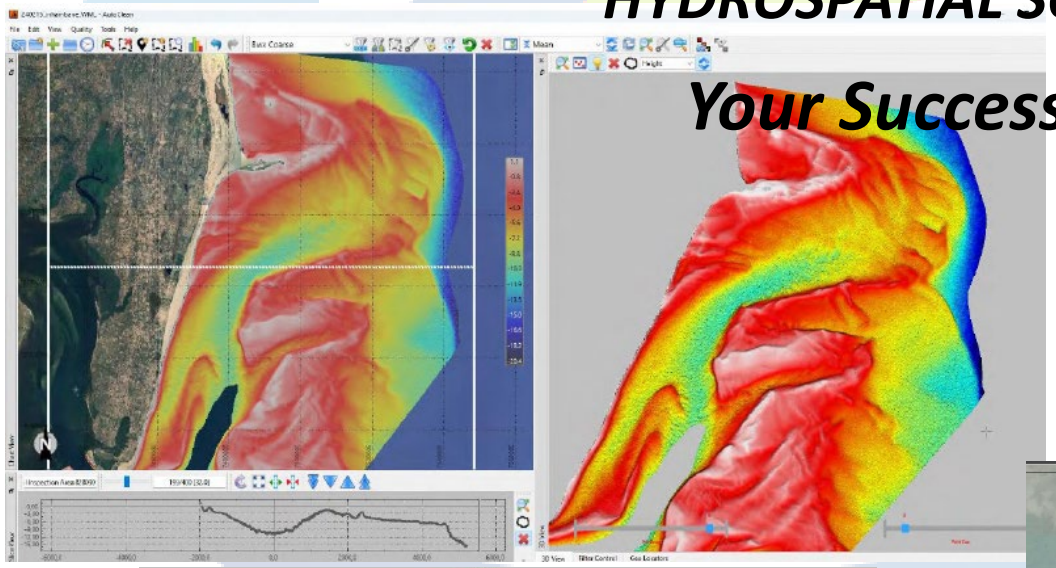
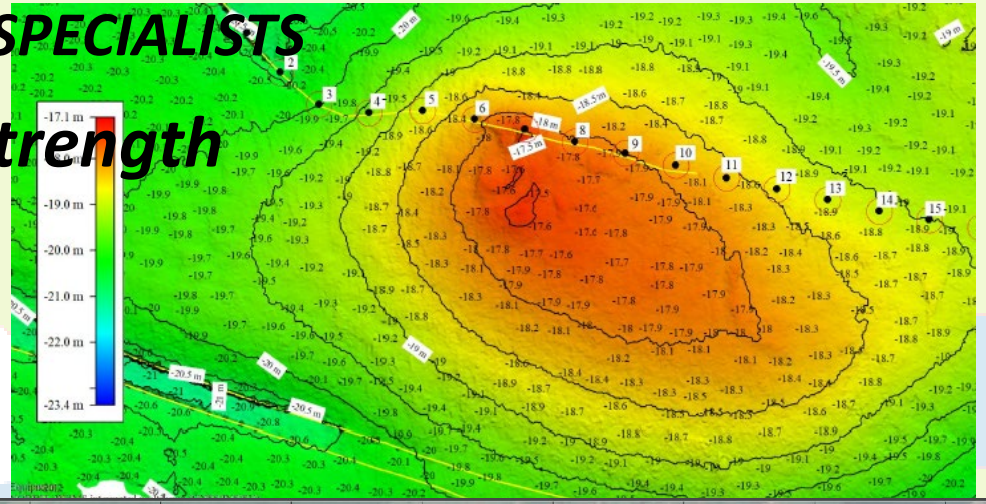
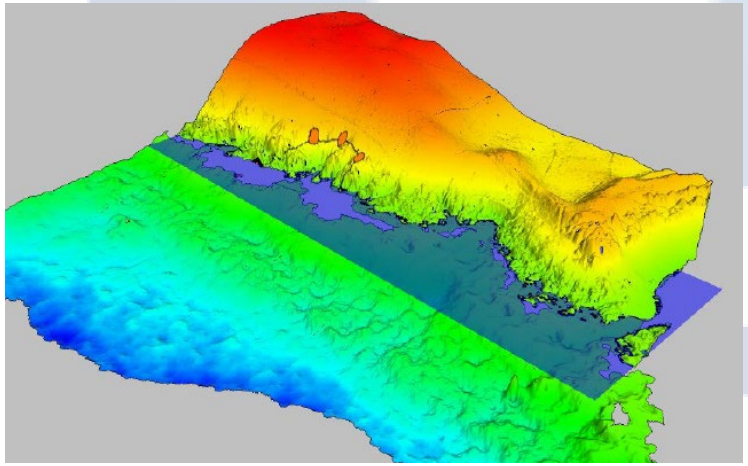
AMAZA SURVEY SERVICES

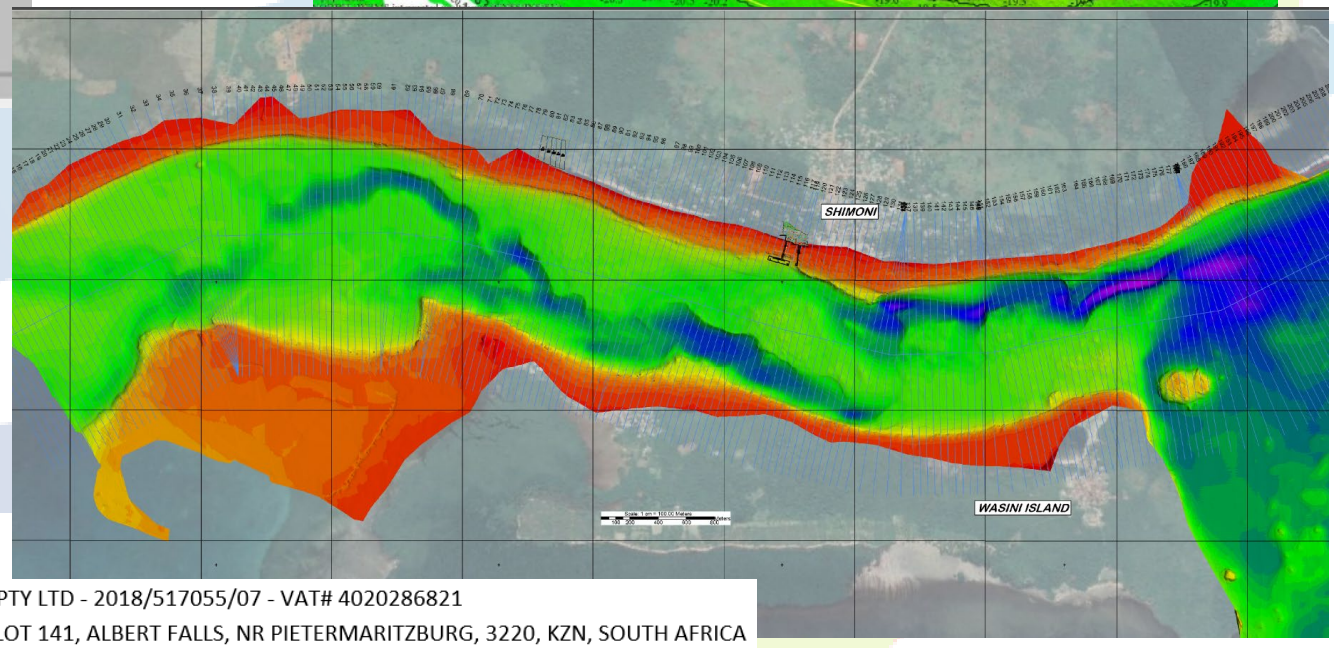
HYDROSPATIAL SOLUTION SPECIALISTS

Your Success is our Strength









AMAZA SURVEY SERVICES PTY LTD - 2018/517055/07 - VAT# 4020286821

PO BOX 192, CRAMOND, 3220, KZN, SOUTH AFRICA - PLOT 141, ALBERT FALLS, NR PIETERMARITZBURG, 3220, KZN, SOUTH AFRICA

- **Hydrospatial consultancy**
- **Equipment sales & rental**
- **Training & capacity building**
- **Project management**

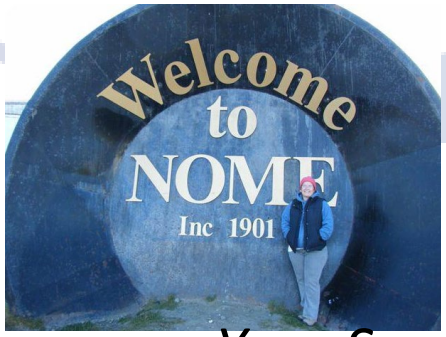
“Our Vision is to empower our Clients and Customers with hydrographic technology and hydrospatial services that facilitate opportunity, growth and diversification, to ensure profitability and sustainable growth by providing a professional support structure and world class systems supported by a small, passionate and dedicated team.”

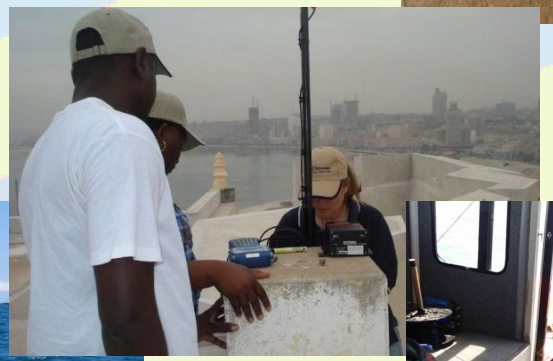
Your Success is our Strength

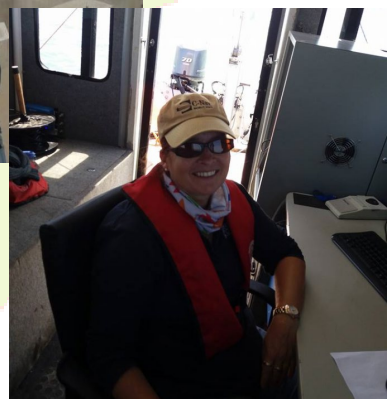
Who am I?

- 30 years in the industry
- BSc Hons from Plymouth University (UK)
- HPAS Level-0 Accredited Hydrographer (IHO/FIG/ICA)
- Professional Hydrographic Surveyor (SAGC)
- Chartered Surveyor (RICS)
- Mine Surveyors Certificate of Competency (Sea Mining) – Namibia
- Alternate Member on the SAGC Council
- Professional Development Officer HSSA

- IHO Empowering Women in Hydrography (Mentor)
- Hydrographic Surveying lecturer – 3rd year students at UKZN (BSc Land Survey)
- Amaza Survey Services PTY Ltd – established 2018 and registered with and regulated by RICS
- Technical expert – multibeam processing / geospatial data management / system configurations & interfacing / capacity development
- Global experience – Alaska to Zambia ☺
- Experienced in offshore mining, dredging, marine construction, cable route inspections, debris & hazard surveys, salvage, academia & research, EIA





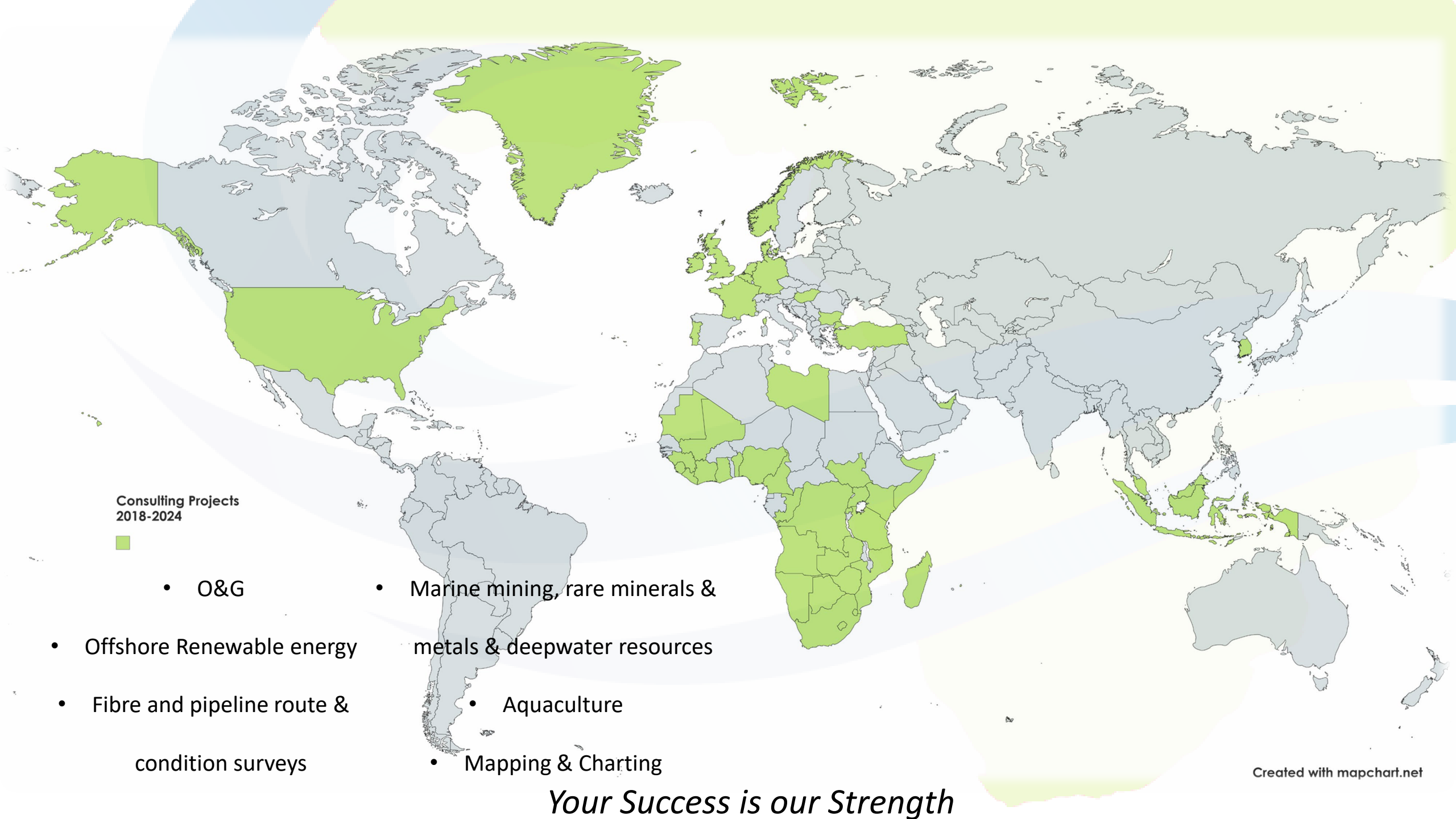


Your Success is our Strength

- Port & Coastal Engineers
- Dredging contractors
- Port Authorities
- Marine construction & port infrastructure
- Salvage
- Diving & inspection works
- Environmental Management
- Offshore mining & resource management

- Water Affairs & Land Management
- Post-disaster assessment & remedial works
- Research & academia
- Offshore mining & sand-winning projects
- Rare minerals & metals
- Trans-shipment feasibility studies
- Underwater Inspections

Your Success is our Strength



- O&G
- Offshore Renewable energy
- Fibre and pipeline route & condition surveys
- Marine mining, rare minerals & metals & deepwater resources
- Aquaculture
- Mapping & Charting

Your Success is our Strength

AML OCEANOGRAPHIC

NORBIT

CHCNAV

explore more

EOMAP

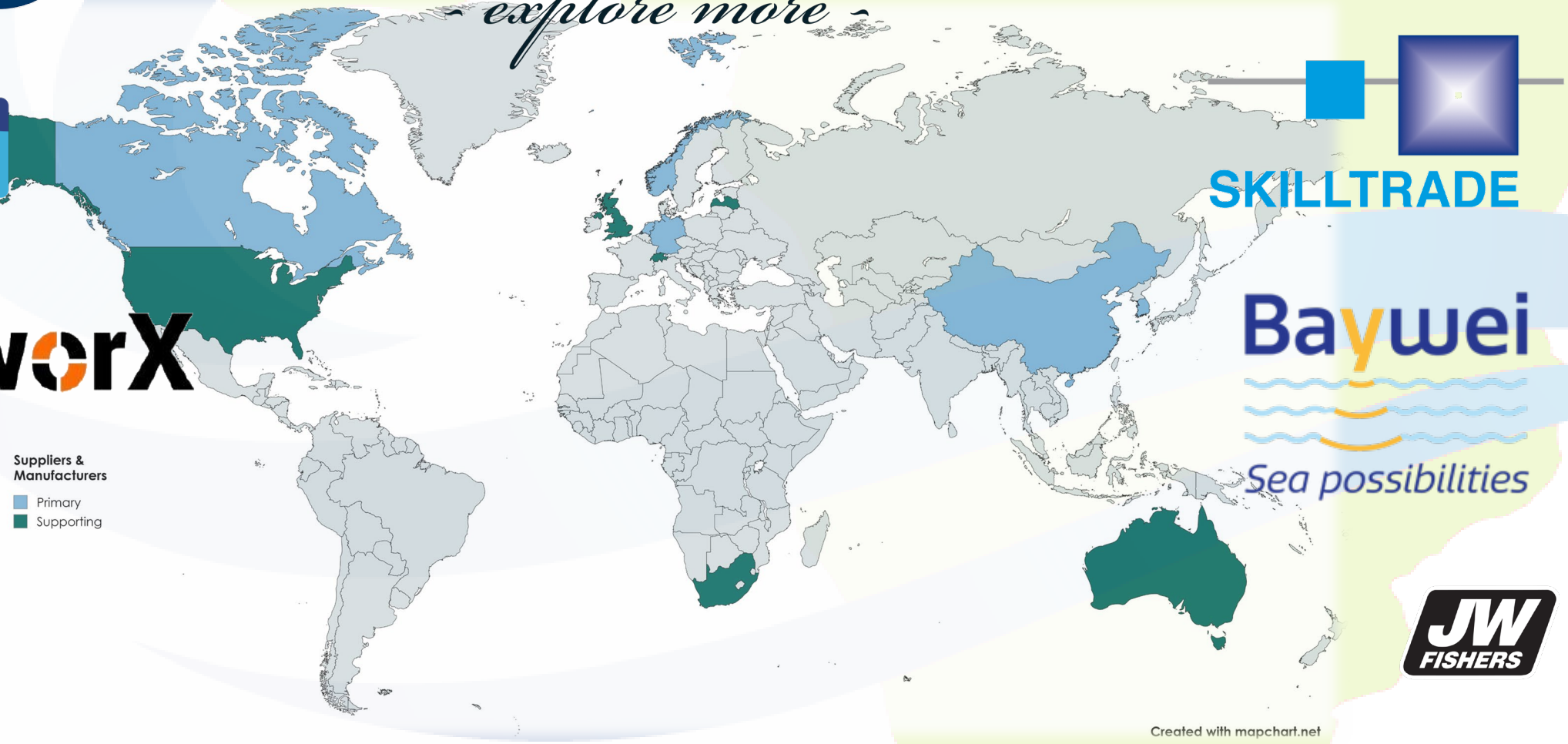
detect more.

SKILLTRADE

BeamworX

Baywei

Sea possibilities



SEABED

JW FISHERS

OBSCAPE | ENVIRONMENTAL OBSERVATIONS

EchoLogger

SunNav

CEE HydroSystems

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BeamworX

NORBIT

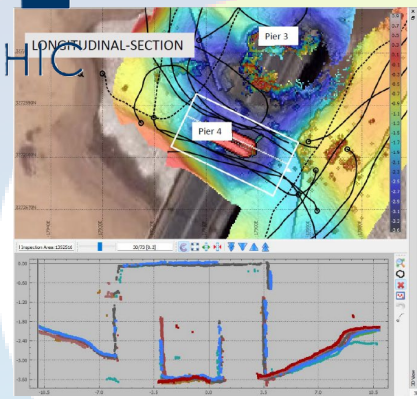
- explore more -

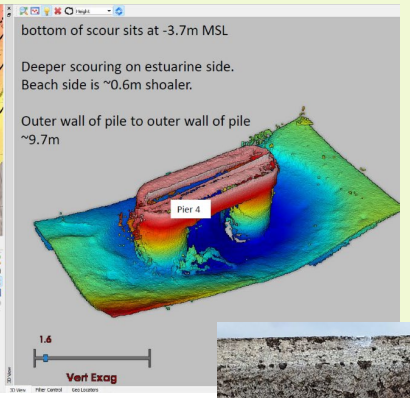
AML OCEANOGRAPHIC

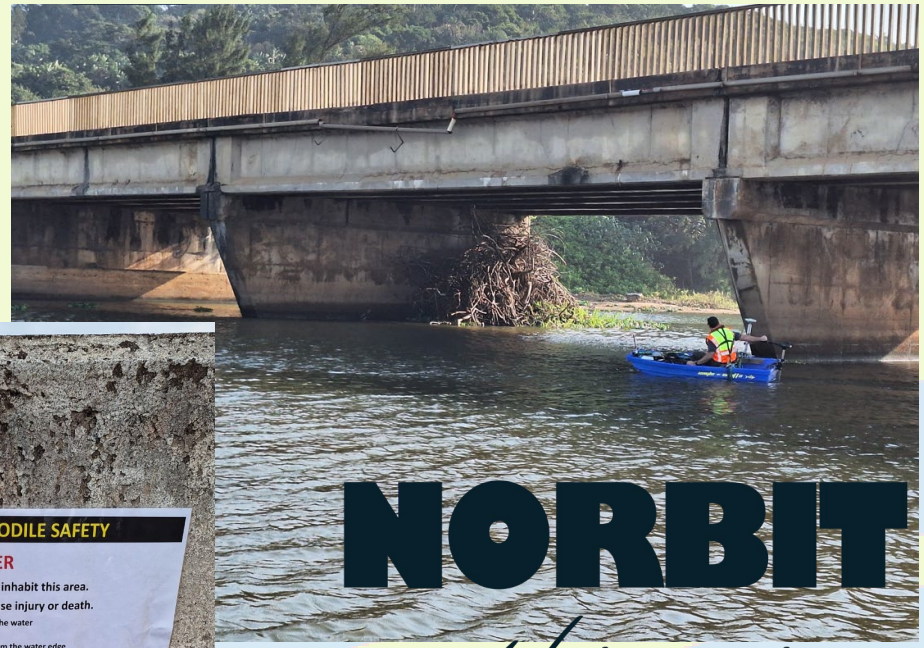
Your Success is our Strength

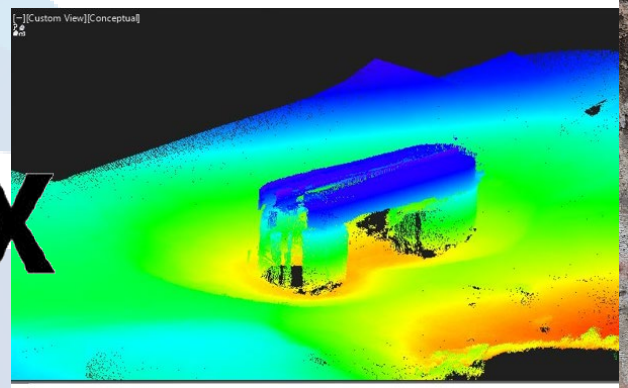
AML OCEANOGRAPHIC

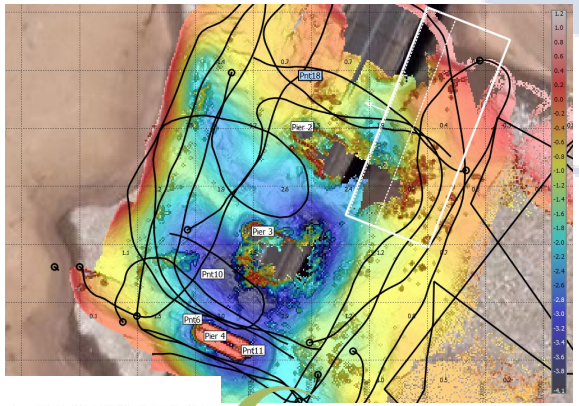
BeamworX

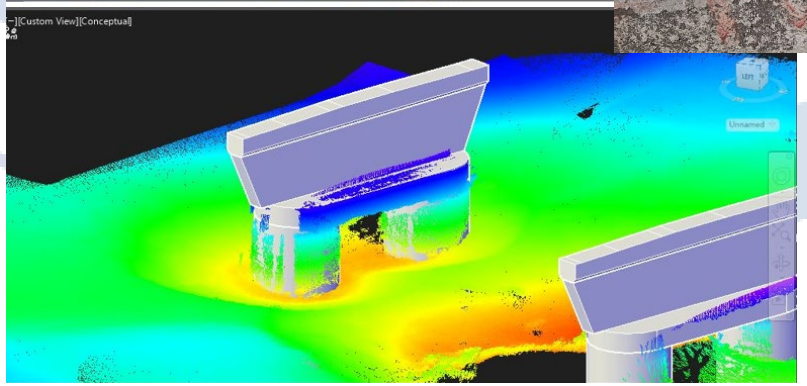












AUTOCAD CIVIL 3D

global mapper

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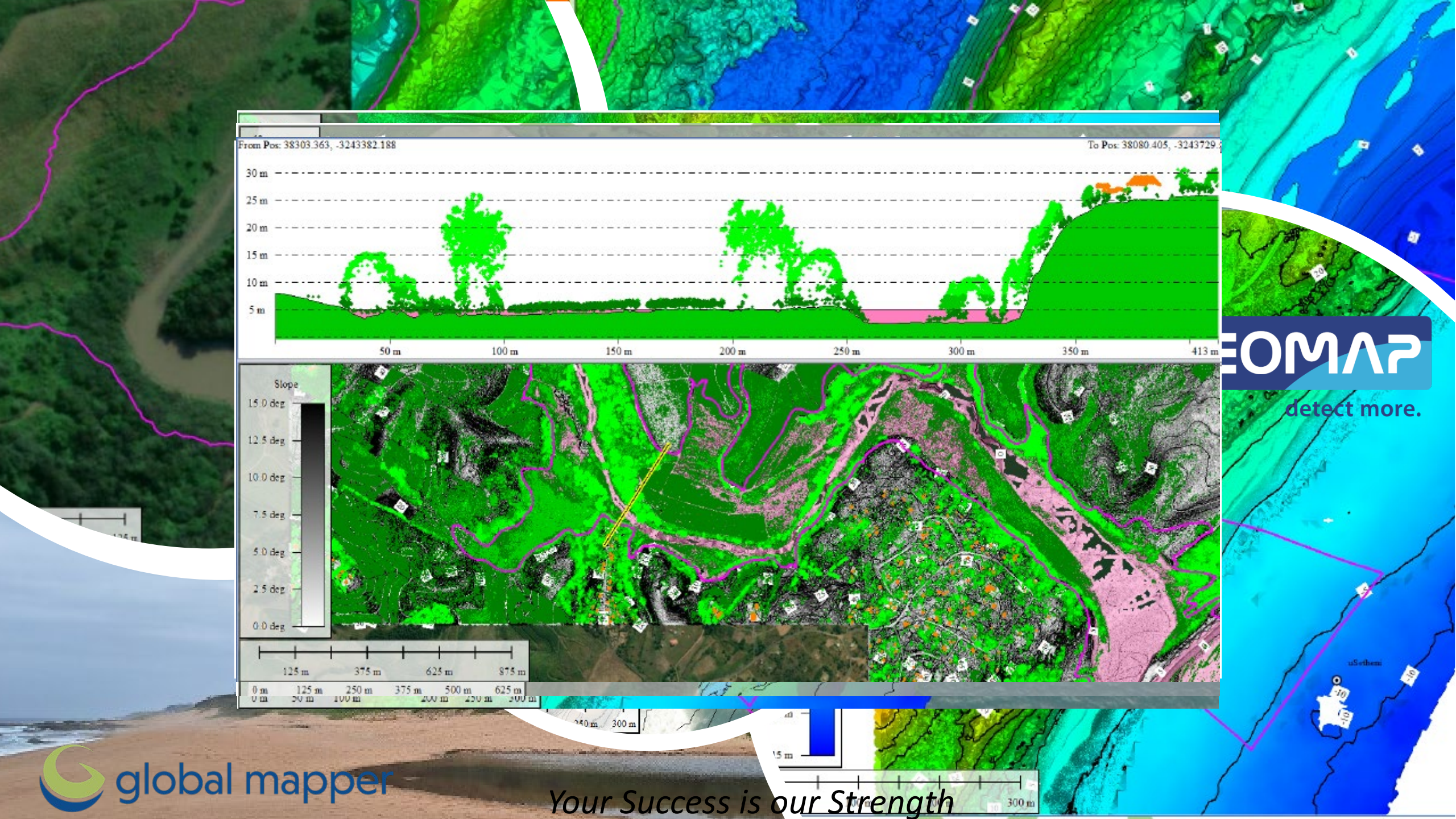
From Pos: 38303.363, -3243382.188
To Pos: 38080.405, -3243729.2
30 m
25 m
20 m
15 m
10 m
5 m
50 m
100 m
150 m
200 m
250 m
300 m
350 m
413 m
Slope
15.0 deg
12.5 deg
10.0 deg
7.5 deg
5.0 deg
2.5 deg
0.0 deg
125 m
375 m
625 m
875 m
0 m
125 m
250 m
375 m
500 m
625 m
EOMAP
detect more.
global mapper
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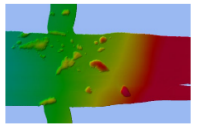
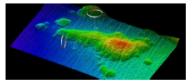
– HYDROGRAPHIC TRAINING – CAPACITY BUILDING – TEAM DEVELOPMENT –

NORBIT - explore more -

Patch Test Procedure

- The patch test procedure involves recording a series of lines at various depths in multiple directions.
- The patch test solves:
  - Roll
  - Pitch
  - Yaw
  - Latency (not relevant for modern multibeam systems)
- Roll errors are most significant and have the greatest impact on the data.
- For best results:
  - Use RTK positioning.
  - Perform the calibration in calm sea conditions.
  - Deeper water is generally better, especially for pitch and yaw calibrations.





– SKILLS ENHANCEMENT – GAP ANALYSIS – MENTORING –

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Thank You ☺

Siyabonga

Hamba Kahle

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