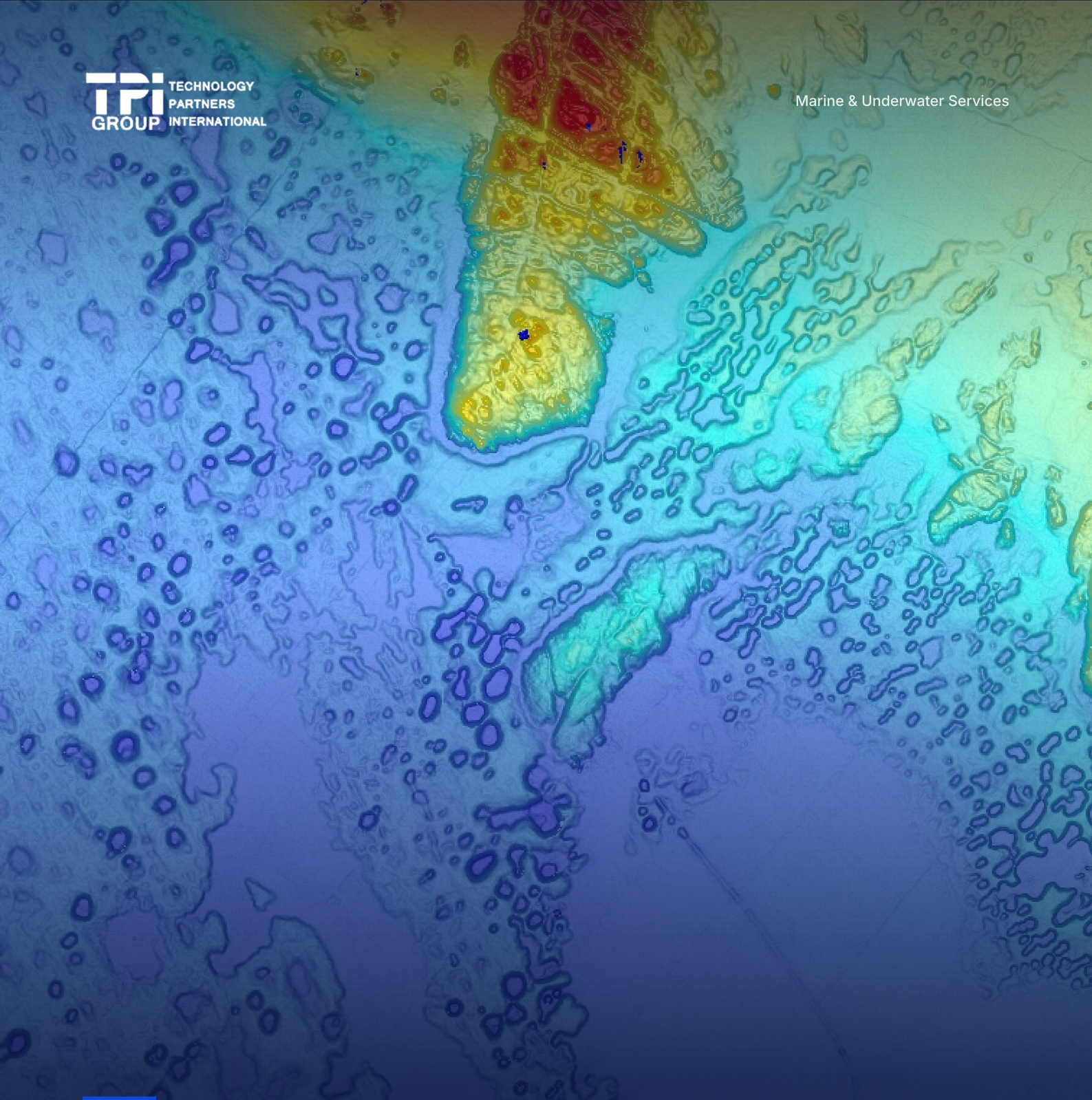
TPI GROUP TECHNOLOGY PARTNERS INTERNATIONAL

Marine & Underwater Services



Bathymetric & Seabed Surveys

Depth, terrain and seabed change, measured on a datum you can compare against.

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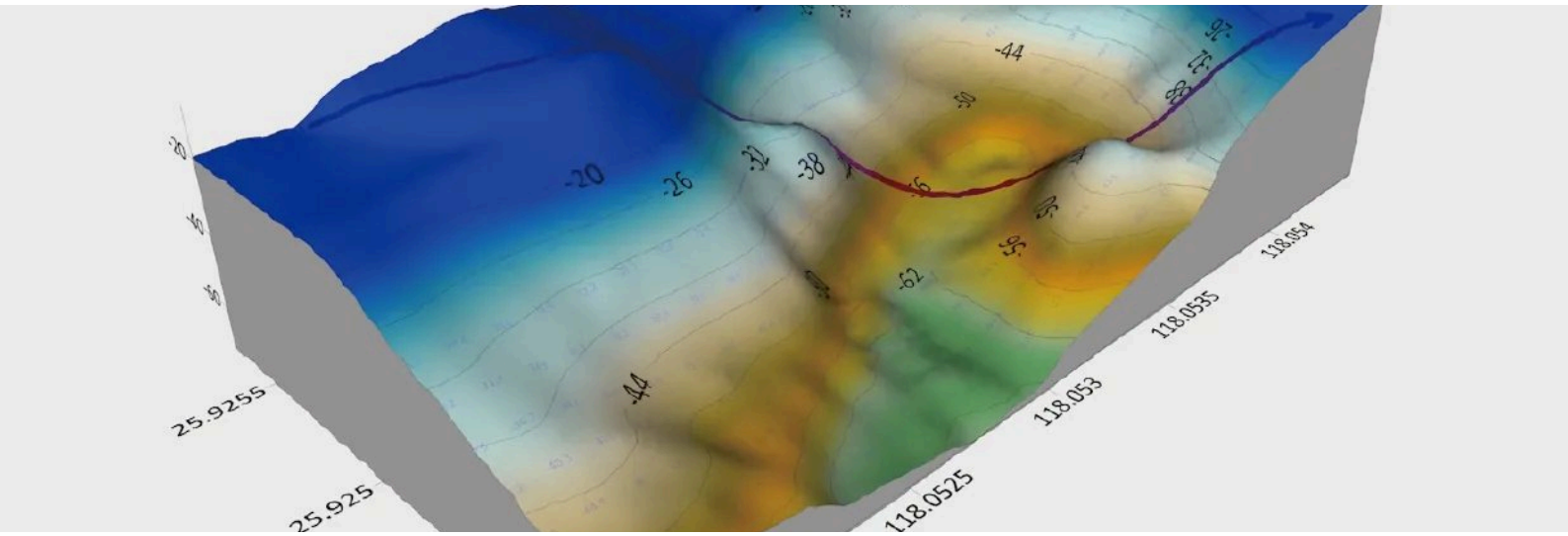
We plan local bathymetric and seabed surveys around the coverage, resolution and accuracy the work needs, then select depth sensors, positioning and processing to suit. Underwater imagery adds context to the depth data.

Survey lines run against an agreed datum. Live 2D and 3D views let us spot and close coverage gaps before demobilising, and checked depth points feed the contours, profiles, terrain models and volume estimates you receive.



What we cover

Local bathymetric surveys

Automated path planning covers the agreed area along operator-supervised lines, recording positioned depths at the specified spacing.

Profiles and terrain models

We review 2D and 3D seabed maps during the survey. Checked depth points support contours, profiles and terrain models at the resolution the data allow.

Scour and erosion surveys

We map bed depressions and exposed foundations around structures and crossings. Comparable repeat surveys show where scour has progressed.

Reservoir capacity and sedimentation

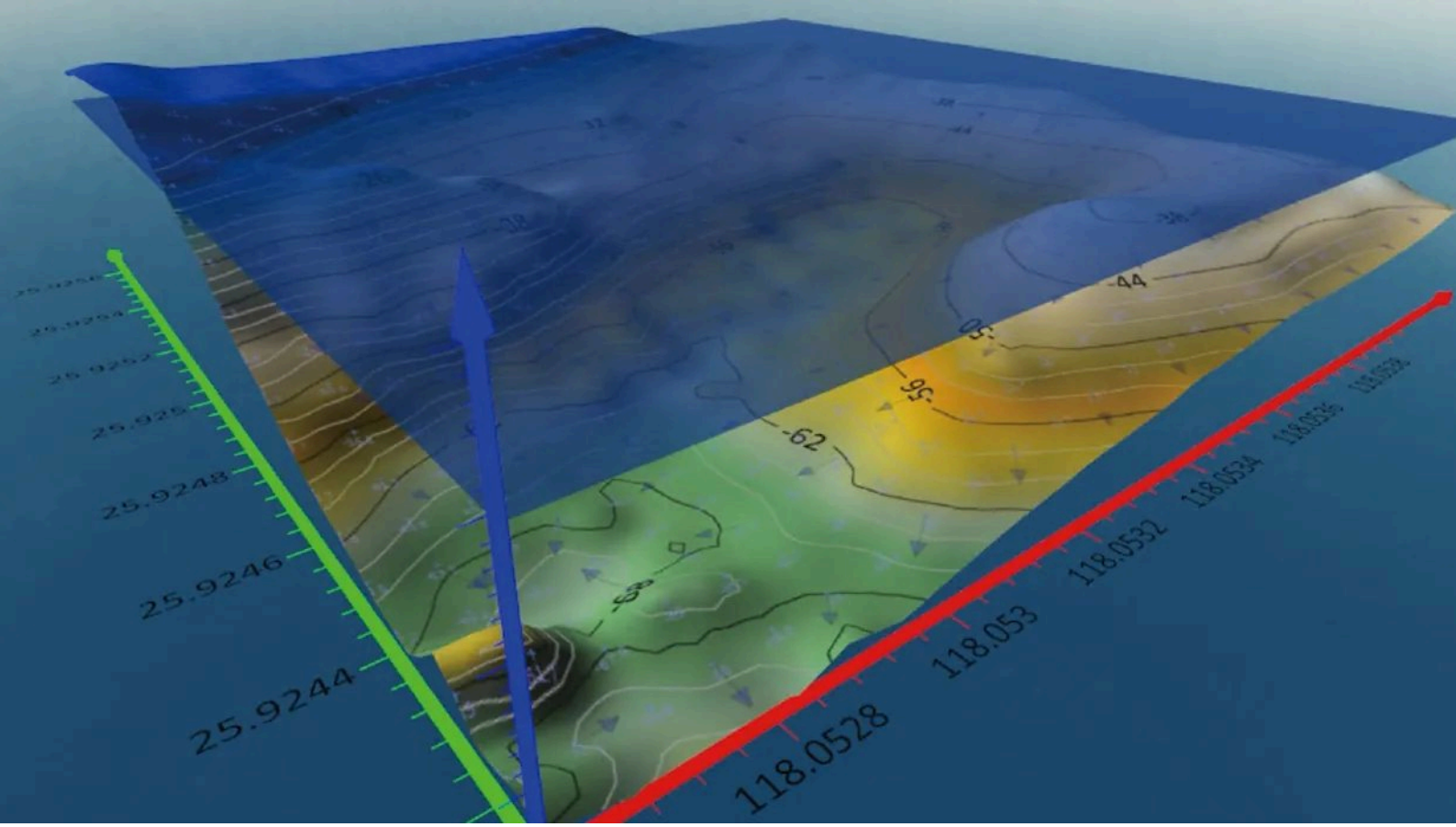
We estimate storage at a stated water level. Repeat surveys on a common datum show how deposition or erosion changes the available capacity.

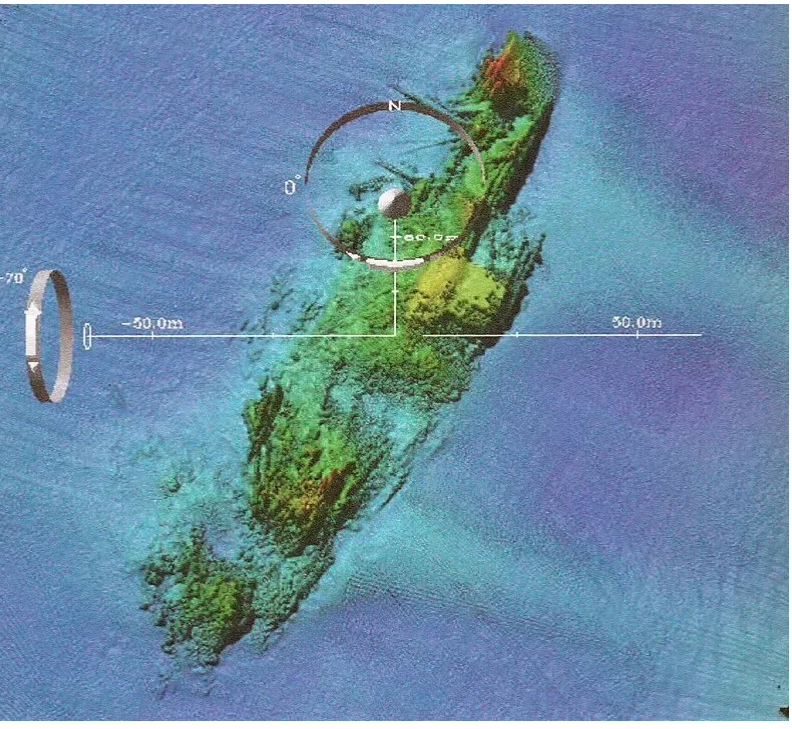
Dredging assessment support

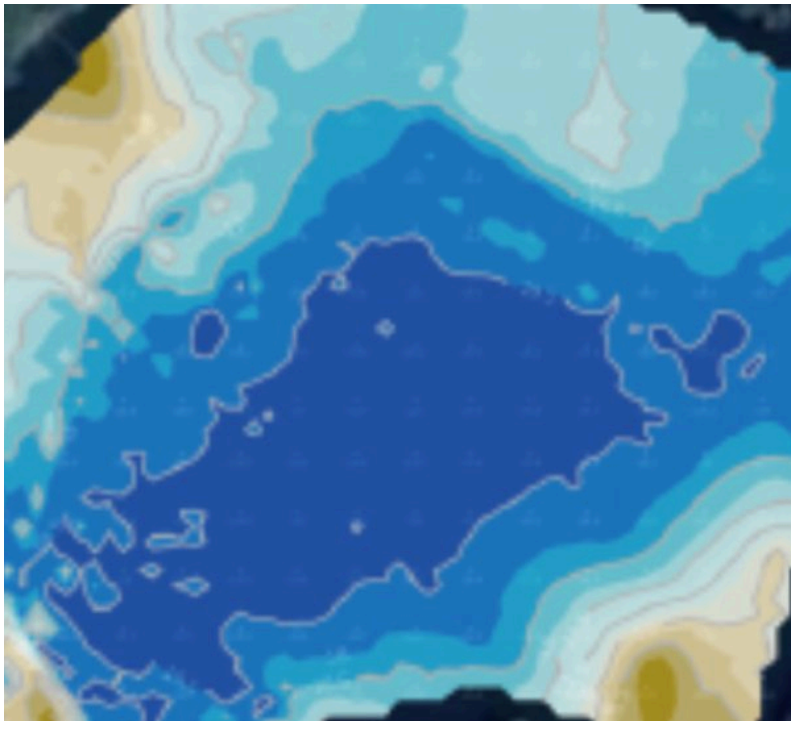
We compare bed levels before and after dredging and, where coverage allows, calculate the volume of material removed or deposited.

Seabed features and obstructions

We record the positions of visible or sonar-detected features within the survey area and state the positioning method used.







Where it is used

Offshore structures, ports and berths, intakes and outfalls, bridge foundations, reservoirs, pipeline crossings and coastal works.

Scope and limits

Coverage, point density and achievable uncertainty depend on the sensors and positioning selected; the proposal states the method, the deliverables and whether a separate hydrographic survey platform is needed. Formal hydrographic standards, dredging acceptance and certified clearance need specifically agreed equipment, coverage and verification.

What you receive

Depth data and survey plans

Referenced depth points and plan views at the agreed coverage, with coordinate and vertical datum information.

Profiles, contours and models

Seabed profiles, contour plans or terrain models, where the acquired data support them.

Change and feature records

Scour or sediment-change comparisons and obstruction observations, where they are in scope.

Technical survey report

Method, equipment, reference systems, quality checks, achieved coverage and limitations, with agreed CAD or GIS outputs.

To scope the work, send us

- The survey boundary
- Purpose
- Reference datum
- Preferred output formats
- Expected depths
- Required accuracy and resolution
- Previous surveys



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