

# venterra Subsea Services

## Subsea Services Division:

- ✦ A Division established to deliver industry-leading safe subsea services utilising next-generation, mission critical subsea equipment, designed to streamline offshore construction, by reducing vessel time and enhancing operational precision
- ✦ Drawing on expertise from within the Venterra Group, this Division is positioned to partner with key clients to reduce cost of offshore construction by introducing innovative equipment that will enable our clients to differentiate from their competitors, by mitigating risk and providing a cost-efficient service.



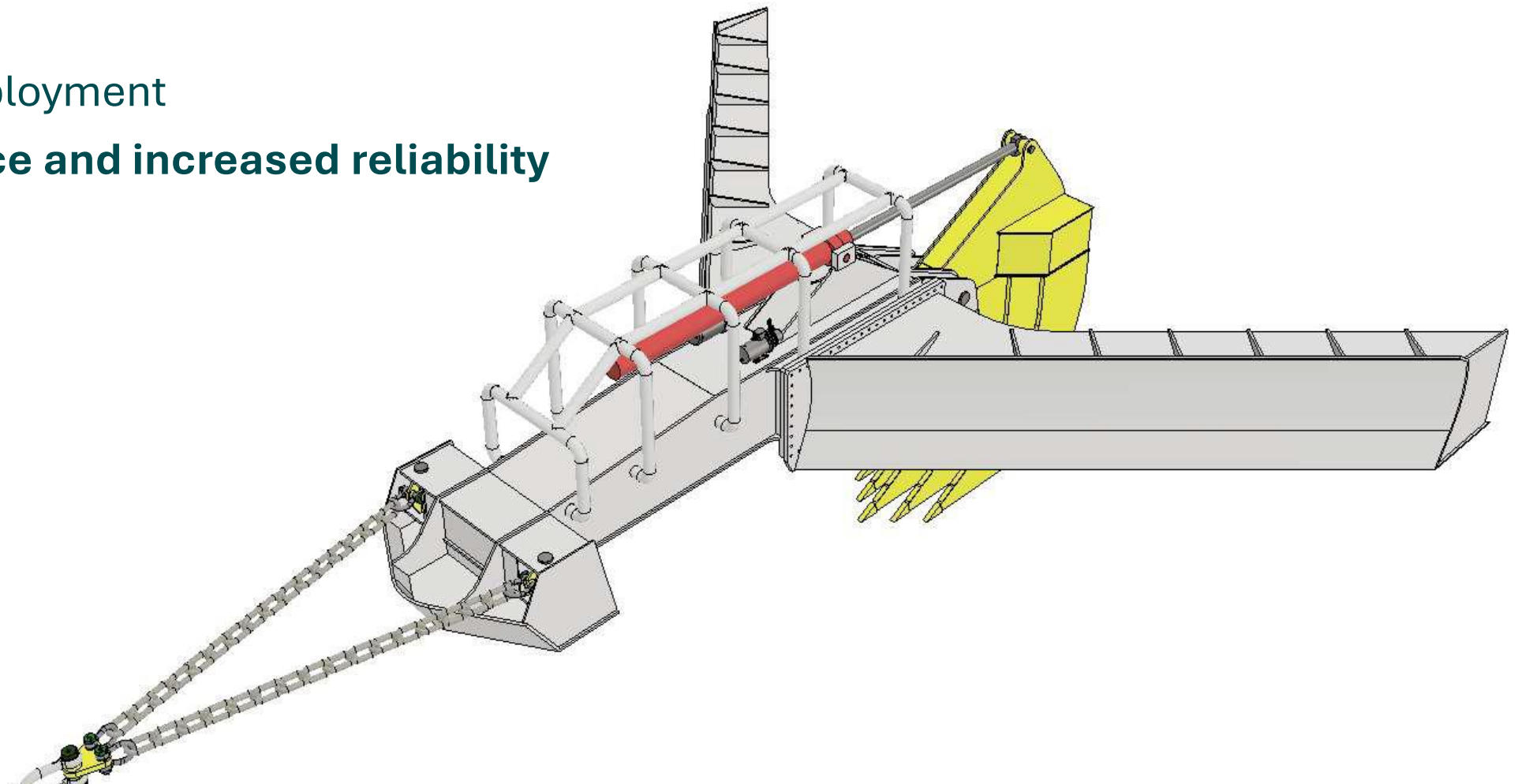
Venterra Subsea Services team have been involved in subsea activities for over 26 years. Over this period, the team has played a key role in the development and operation of over 25 bespoke subsea systems.

# Subsea Services - Route Clearance



## Modular Boulder Clearance Plough – MBCP -1


- ❧ **MBCP -1** is a heavy-duty modular boulder clearance plough designed for **pre-lay seabed preparation and route clearance** for cable and pipeline installation. It is designed to remove both **surface and optionally subsurface boulders** in a single pass
- ❧ The fit for purpose design is compact and light, **reducing the towing forces required**, expanding the number of potential host AHTS vessels and **reducing fuel consumption**
- ❧ Its modular architecture can be easily disassembled to **enable low-cost shipping**. This design also accommodates **rapid mobilisation** onto a wide range of vessels of opportunity. This feature offers a competitive advantage over incumbent solutions.
- ❧ **No specific LARS system is required** for AHTS deployment
- ❧ Innovative design is simple for **ease of maintenance and increased reliability**

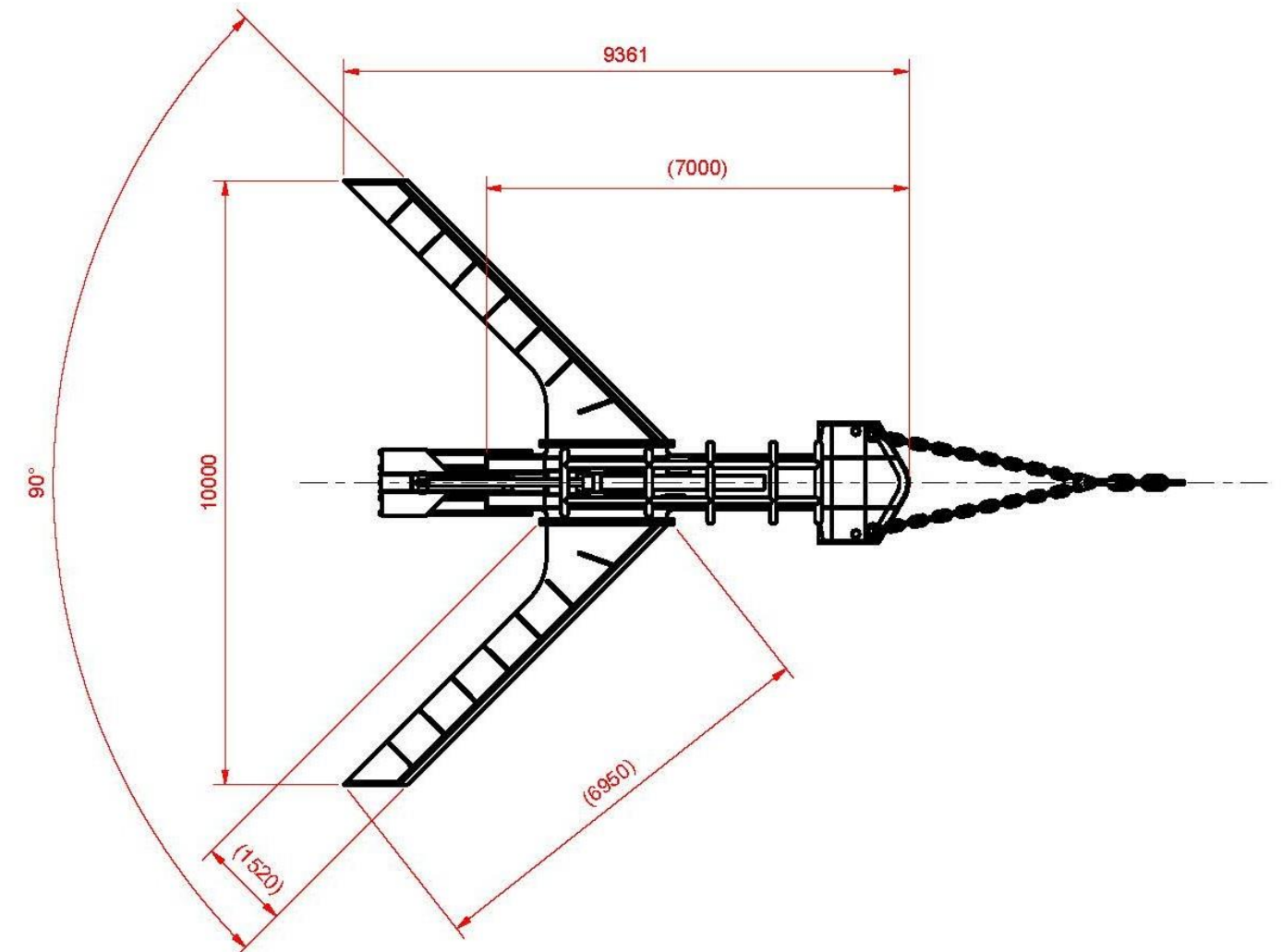


# Subsea Services - Route Clearance



## Modular Boulder Clearance Plough – MBCP -1

- ❧ The Plough is designed and built by  S B I T utilising their knowledge and expertise in plough design
- ❧ In Boulder clearing configuration - common chassis fitted with a share designed to suit soil conditions, removing boulders and clearing away from the corridor to suit the subsequent trenching vehicle.
- ❧ The share presented is optimised for sandy soils, with lots of partially buried boulders.
- ❧ The share is hydraulically raised and lowered using a share linkage
- ❧ The lifted boulders are further cleared laterally by the mouldboards, along with surface boulders, to a cleared width of approx. 10m (can be extended if required).
- ❧ A light weight, low bollard pull system is ideal for the Jones Act tonnage in the USA, where there is a need for boulder clearance.

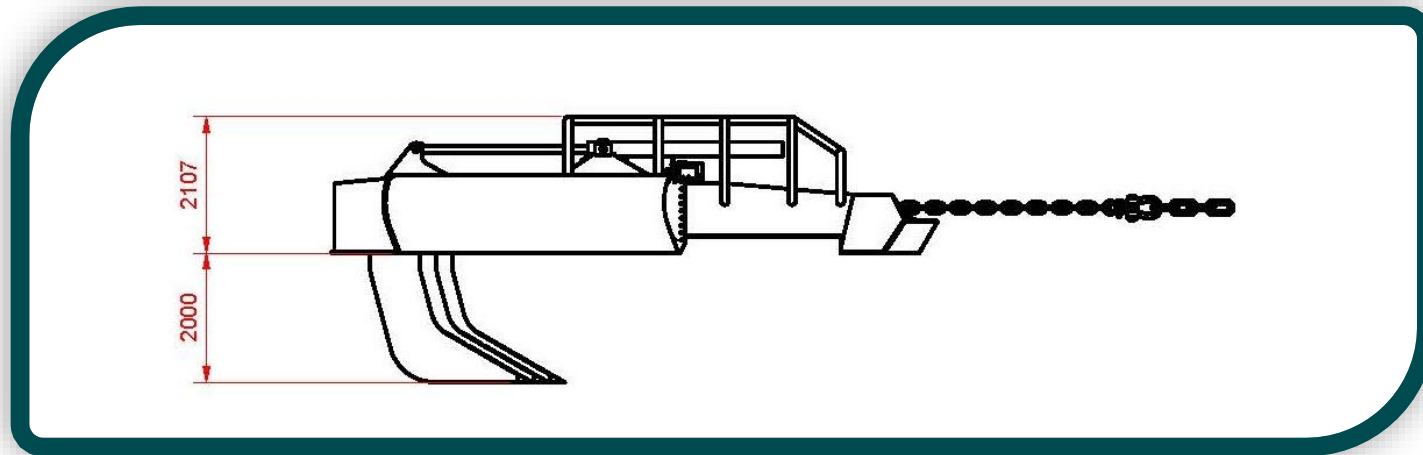


**Venterra seeking launch client to provide input into final design**

# Subsea Services - Route Clearance



To complement the MBCP-1 , Venterra Subsea Services can offer full turnkey route clearance options:



## MBCP-1 - Support

- ✔ Associated Project Management, Engineering and Procedures
- ✔ Supply of mobilised vessel spread (including survey and offshore management)
- ✔ Third Party Geotechnical Analysis
- ✔ Route clearance commercial support



## ROV Boulder Grab

- ✔ High grade sensor payload
- ✔ Manoeuvrability
- ✔ Optional Independent LARS
- ✔ Tooling options for OoS cable removal



## Complimentary Services-

- ✔ Pre lay grapnel run (PLGR)
- ✔ Out of Service Cable Removal
- ✔ Crossing construction (mattress installation)
- ✔ Associated surveys

# An End-to-End Smart Route Clearance and Scouting System



A single offering that moves from intelligent seabed reconnaissance to efficient physical clearance and post-operation verification.

- **Forward Scouting** provides high-resolution, non-extractive imaging (SPI/PV, drop camera, ROV, acoustic backscatter, etc.) to identify sediment types, boulder presence, and ecological constraints before mobilization.
- **Advanced Data Services** adds AI-assisted boulder detection and classification, integrating multi-sensor datasets into a 3D geospatial layer that can be directly ingested into Subsea Services' plough and grab operations.
- **Venterra Subsea Services' Route Clearance (MBCP-1 and ROV Grab)** then executes the optimized clearance operation, informed by aforementioned data, minimizing vessel time and rework.
- **Post-construction monitoring** documents seabed recovery, verifies clearance effectiveness, and demonstrates compliance with permit conditions, closing the data loop and validating environmental performance.

## Benefits for Developers and Installers:

- Reduced uncertainty and vessel days by pre-mapping obstacles and validating clear corridors digitally.
- Streamlined pre-lay preparation by coupling Forward Scouting environmental and geophysical intelligence with Venterra's subsea equipment.
- Minimized environmental footprint through targeted clearance and verified habitat preservation.

## Feedback



Are there any gaps in current subsea services where you see a need for innovative solutions or new market entrants?



What types of technology advancements or equipment developments would improve the overall service offering to you or your clients?



Looking ahead, are there specific challenges in offshore operations that you feel are not being addressed by existing subsea capabilities?

# Get in touch

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