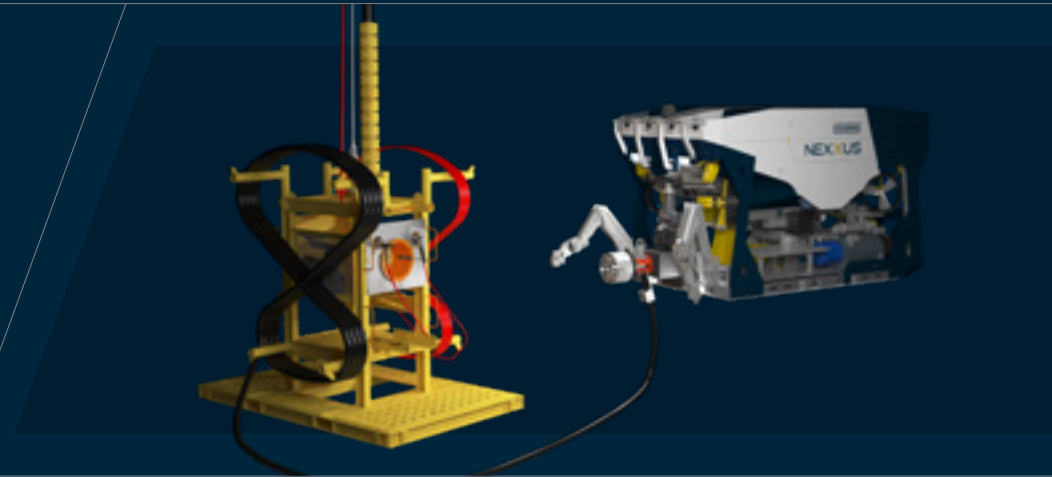


Installation and Workover Control Systems (IWOCs)



A dark blue diagonal stripe runs from the top-left corner towards the bottom-left corner, leaving a white triangular area in the top-left.

Connecting What's Needed with What's Next™

THE GLOBAL IWOCS SPECIALIST

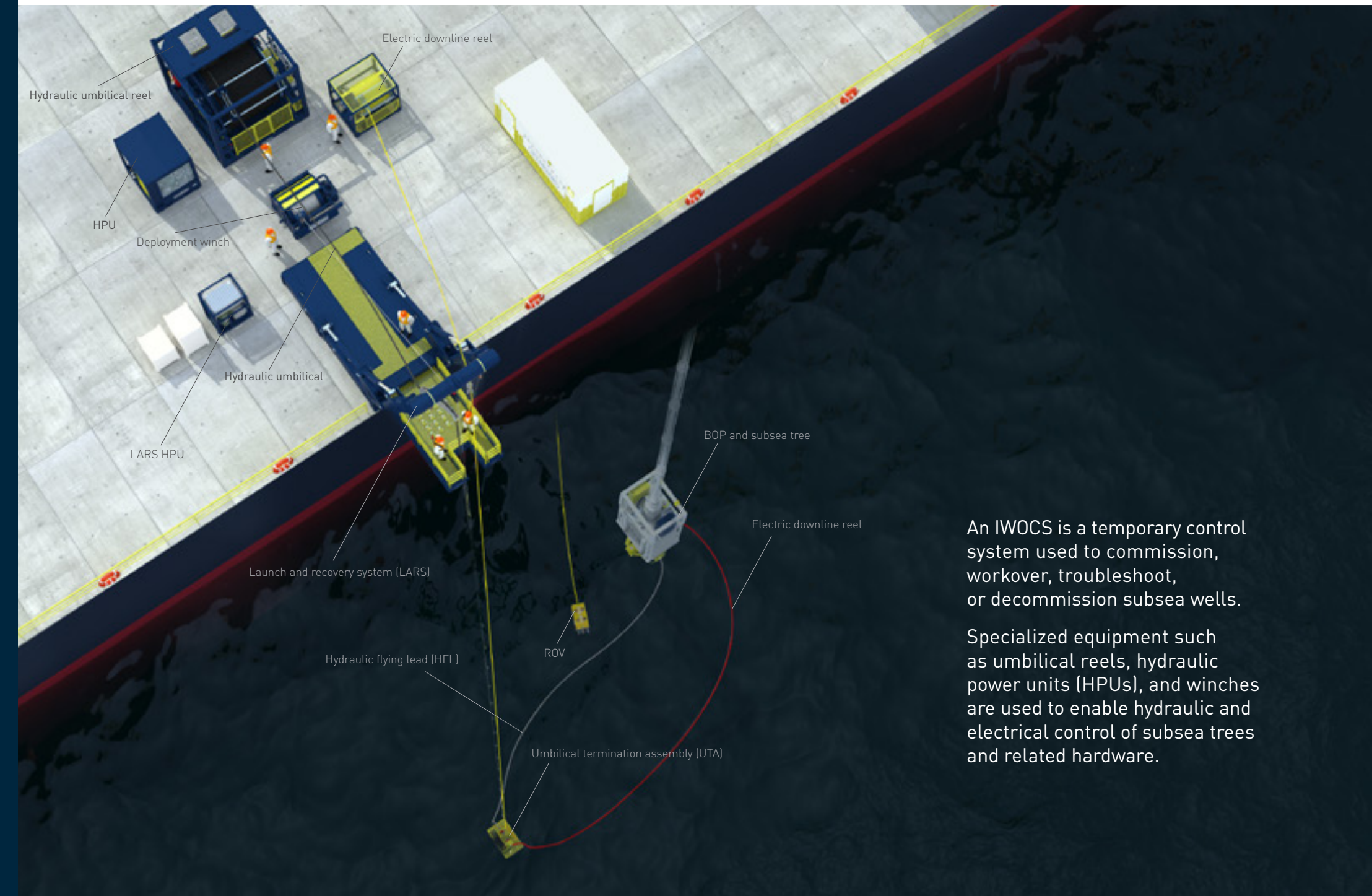
With 800+ jobs over the past 25 years, we are the industry leader in reliable and specialized IWOCS services.

As your trusted IWOCS service partner, we partner with operators of all sizes to simplify operations, and deliver projects on time and on budget.

Our systems are designed for both rig- and vessel-based operations, and are adaptable to provide the utmost operational flexibility.

Typical work scopes include:

- tree installation
- completion
- workover
- intervention
- plug and abandonment (P&A)



An IWOCS is a temporary control system used to commission, workover, troubleshoot, or decommission subsea wells.

Specialized equipment such as umbilical reels, hydraulic power units (HPUs), and winches are used to enable hydraulic and electrical control of subsea trees and related hardware.



POPULAR IWOCs SERVICE MODELS

- Traditional rental systems
- Lease options tailored to your requirements
- Storage, maintenance, and operation of customer-owned IWOCs equipment
- Other options available

Complete IWOCs lifecycle management

A custom IWOCs solution for any project worldwide

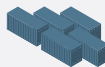
Whether you require a short-term rental or a custom-built IWOCs package, we partner with you to deliver the most efficient, reliable, and cost-effective solution.



Experience and data on dozens of rigs worldwide



Greater than 99% uptime



Largest fleet of rental IWOCs in the world



Taxation, storage, insurance, mobilization, and demobilization management



All critical components manufactured in house

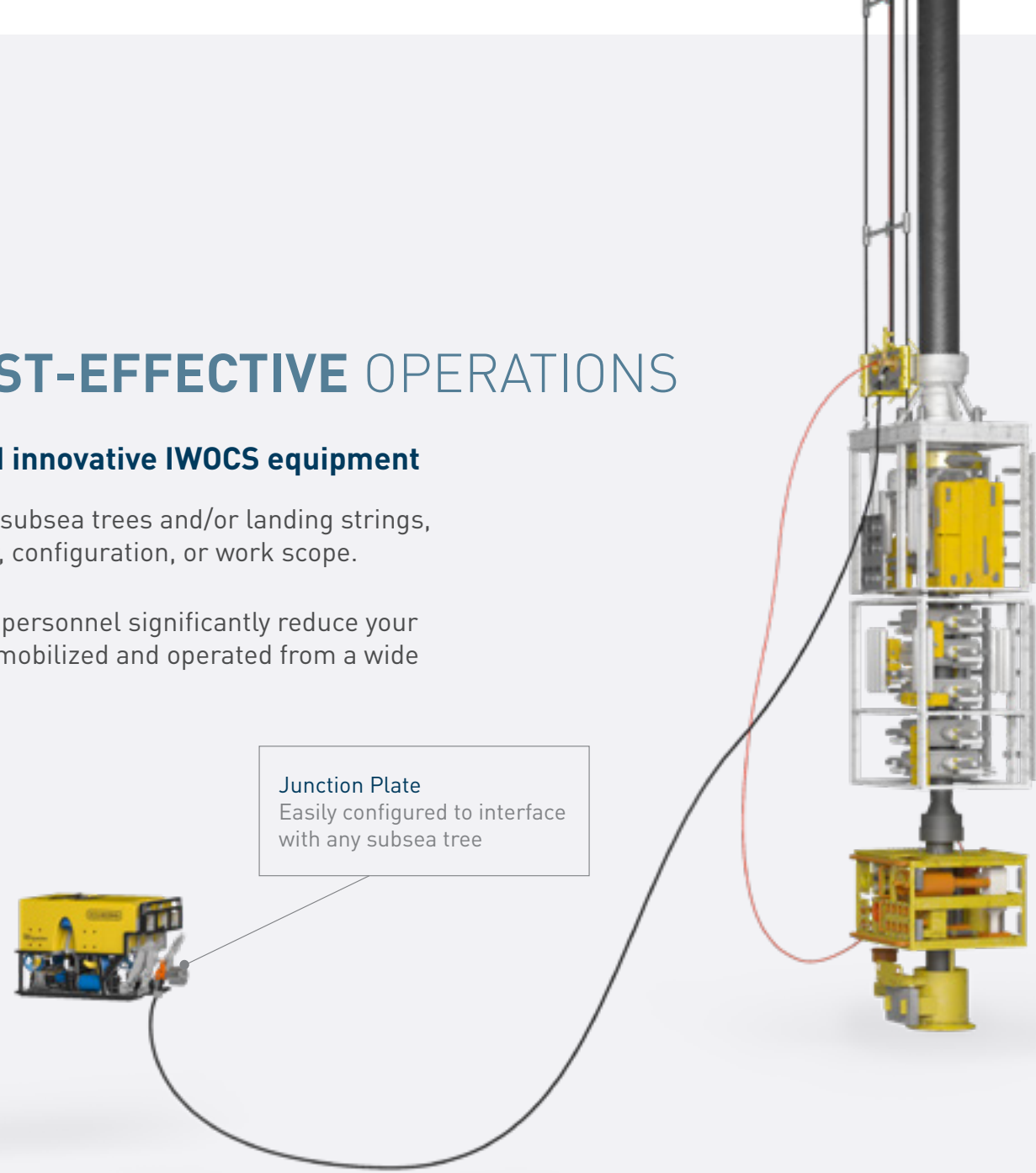


RELIABLE AND COST-EFFECTIVE OPERATIONS

With our adaptable, reliable, and innovative IWOCs equipment

Our systems can be used to control all subsea trees and/or landing strings, regardless of equipment manufacturer, configuration, or work scope.

Adaptable equipment and experienced personnel significantly reduce your interface risk. Our IWOCs fleet can be mobilized and operated from a wide range of vessels and rigs.



The largest fleet of rental IWOCs in the world is available to meet your specific requirements for size, configuration, and capabilities.

MULTIPLE DEPLOYMENT OPTIONS

The IWOCs umbilical and its subsea termination may be deployed in many ways. The ideal deployment method depends on project specifics, rig configuration, and your philosophy.

With four standard deployment options available, there is more flexibility in configuring your ideal IWOCs solution, than with any other service company.

1 CLAMPED TO RISER

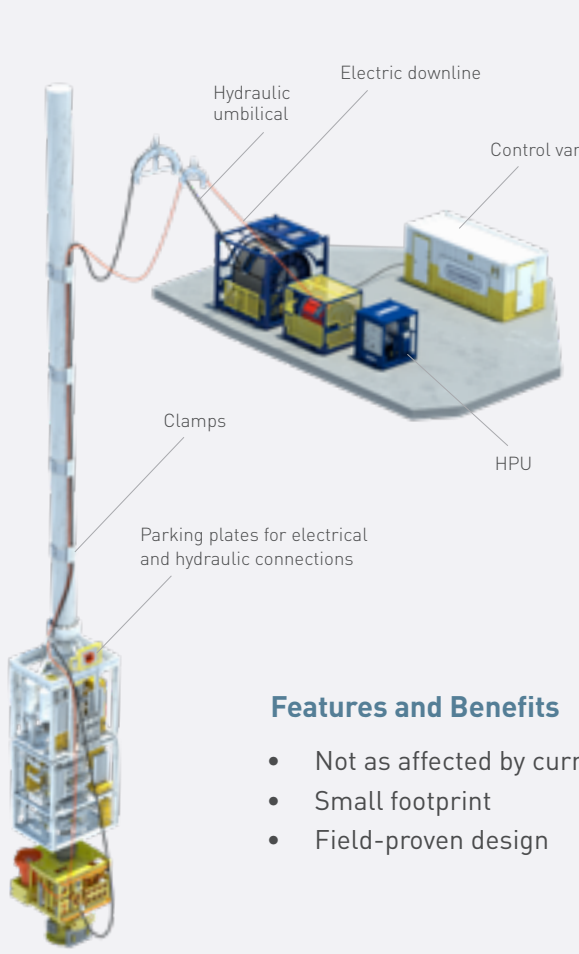
2 DUAL GUIDE WIRES

3 LARS (CONVENTIONAL UMBILICAL)

4 LARS (SELF-SUPPORTING UMBILICAL)

1 CLAMPED TO RISER

This method is the most simple and saves space in the moonpool area, but is only able to be deployed/retrieved with the marine riser.

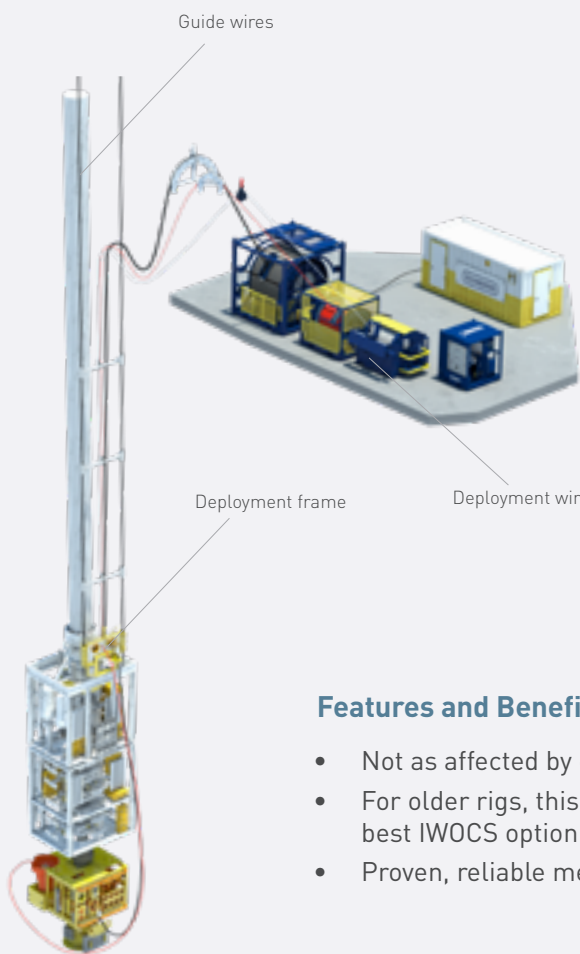


Features and Benefits

- Not as affected by currents
- Small footprint
- Field-proven design

2 DUAL GUIDE WIRES

The system can be deployed and retrieved independent of the marine riser.

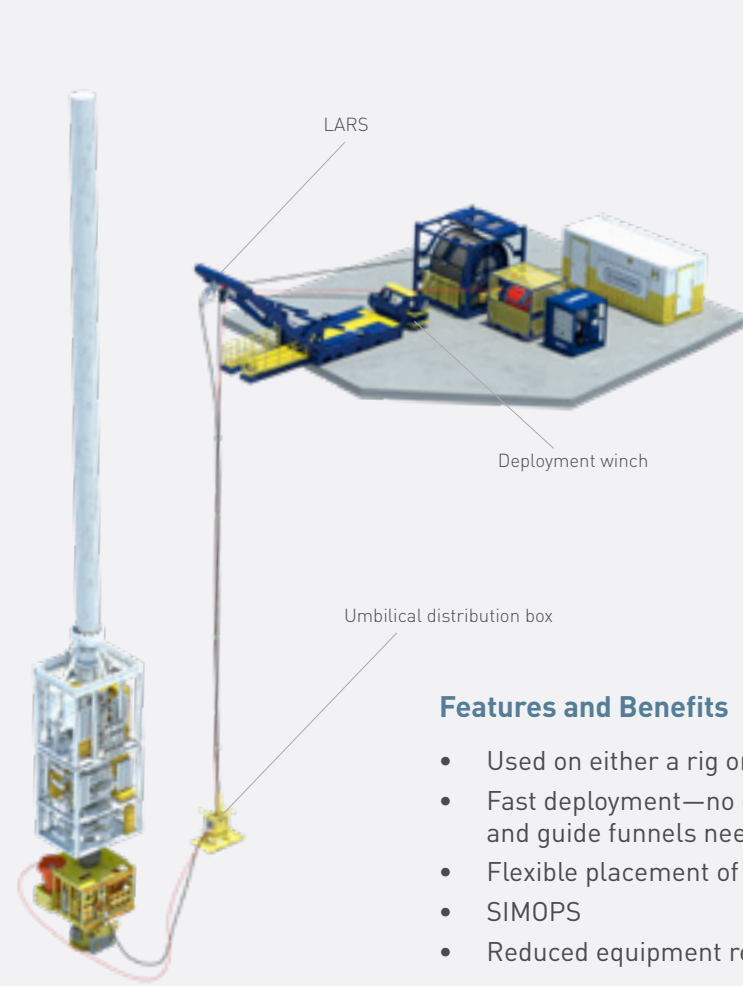


Features and Benefits

- Not as affected by currents
- For older rigs, this may be the best IWOCs option
- Proven, reliable method

3 LARS (CONVENTIONAL UMBILICAL)

The launch and recovery system (LARS) method improves deployment time, reduces equipment, and offers flexible placement on the rig or vessel.

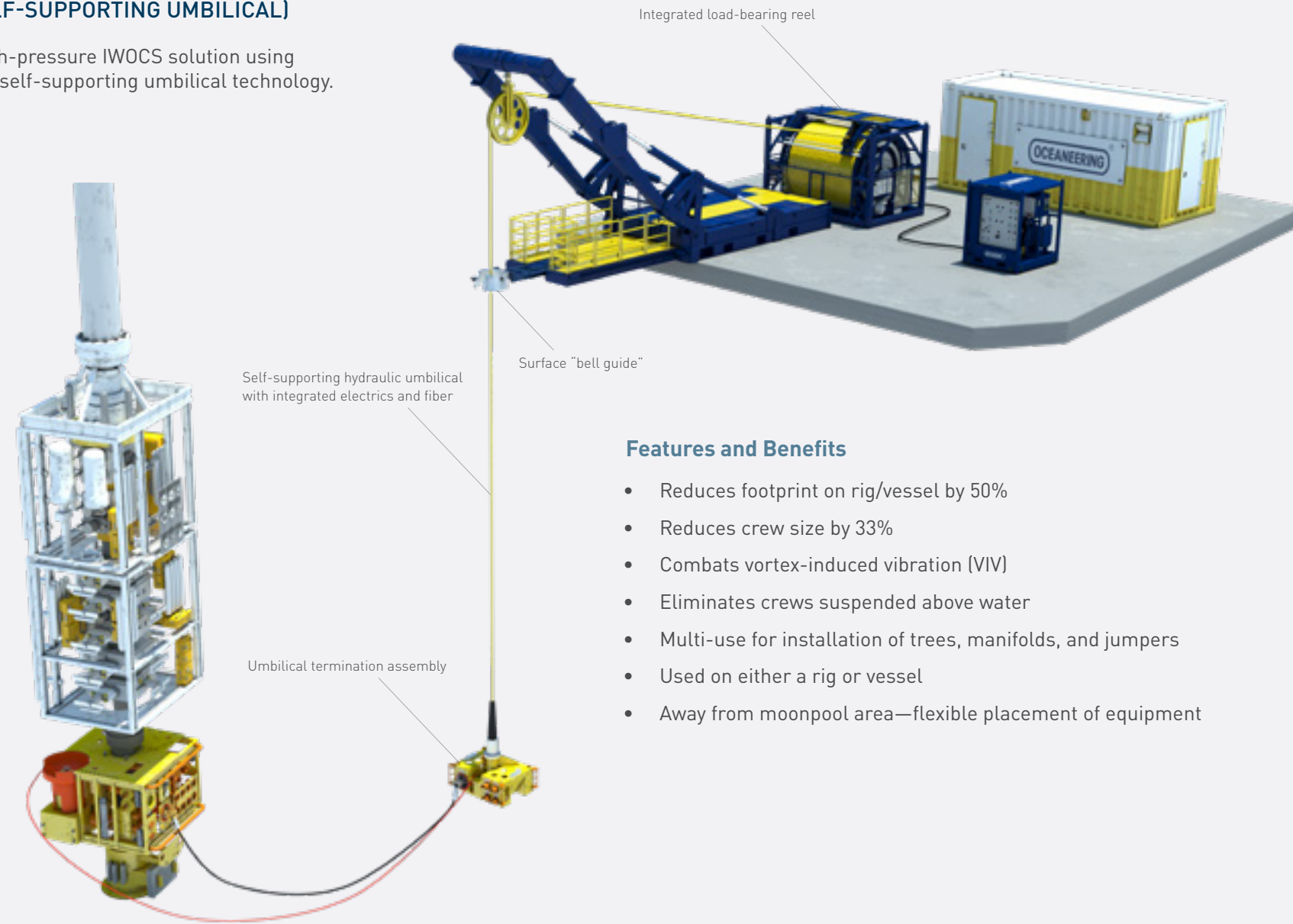


Features and Benefits

- Used on either a rig or vessel
- Fast deployment—no guidewires and guide funnels needed
- Flexible placement of equipment
- SIMOPS
- Reduced equipment requirements

4 LARS (SELF-SUPPORTING UMBILICAL)

A proprietary high-pressure IWOCs solution using industry-leading self-supporting umbilical technology.



Features and Benefits

- Reduces footprint on rig/vessel by 50%
- Reduces crew size by 33%
- Combats vortex-induced vibration (VIV)
- Eliminates crews suspended above water
- Multi-use for installation of trees, manifolds, and jumpers
- Used on either a rig or vessel
- Away from moonpool area—flexible placement of equipment

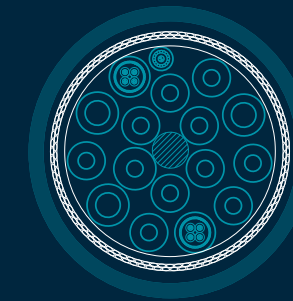
A self-supporting LARS deployment greatly expands an operator's weather window, which reduces deployment time, improves uptime, and lowers operational costs.



Operable in 5+ knots current and/or extreme sea state. Deployable in up to 2.5 knots (66% increase vs. traditional)



World's first IWOCs umbilical qualified for 15,000 psi with true 4:1 safety factor



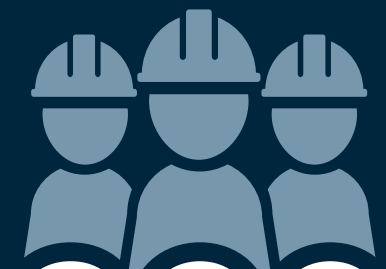
World's first IWOCs umbilical qualified with fiber



Reduces deployment time by 50%



Reduces crew size by 33%



200

dedicated technicians
available worldwide



Depth rating

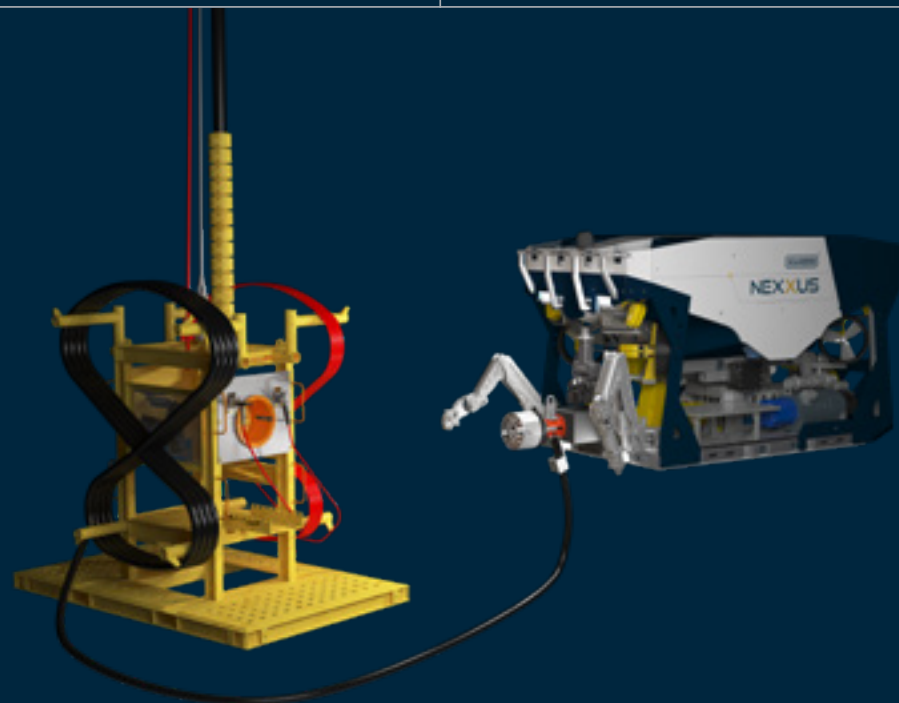
11,000 ft
(3,350 m)



Rapid worldwide response

Equipment and personnel are
stationed worldwide

Facilities available worldwide for
tree system integration test (SIT)



Working pressure
up to **15,000 psi**

25 YEARS

of IWOCS experience



99% uptime



24/7 x 365 support

JOB-SPECIFIC EQUIPMENT

We have solutions to solve your next project challenge. Whether you require a chemical injection pump or a stand-alone rental HPU, our fleet of job-specific equipment can be combined to create the perfect IWOCS solution.



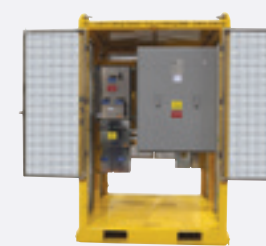
HIGH-COLLAPSE-RESISTANT (HCR) HOSE

- Hydraulically driven reeler with levelwind and failsafe brake
- Integrated HPU
- Up to 11,000 ft (3,300 m) water depth
- DNV certified



HYDRAULIC POWER UNIT (HPU)

- Capable of up to 20,000 psi while offering a reduced footprint vs. traditional HPUs
- Used for SIT, dockside, or commissioning of newly-built hardware
- DNV certified



PORTABLE OFFSHORE TRANSFORMER UNITS

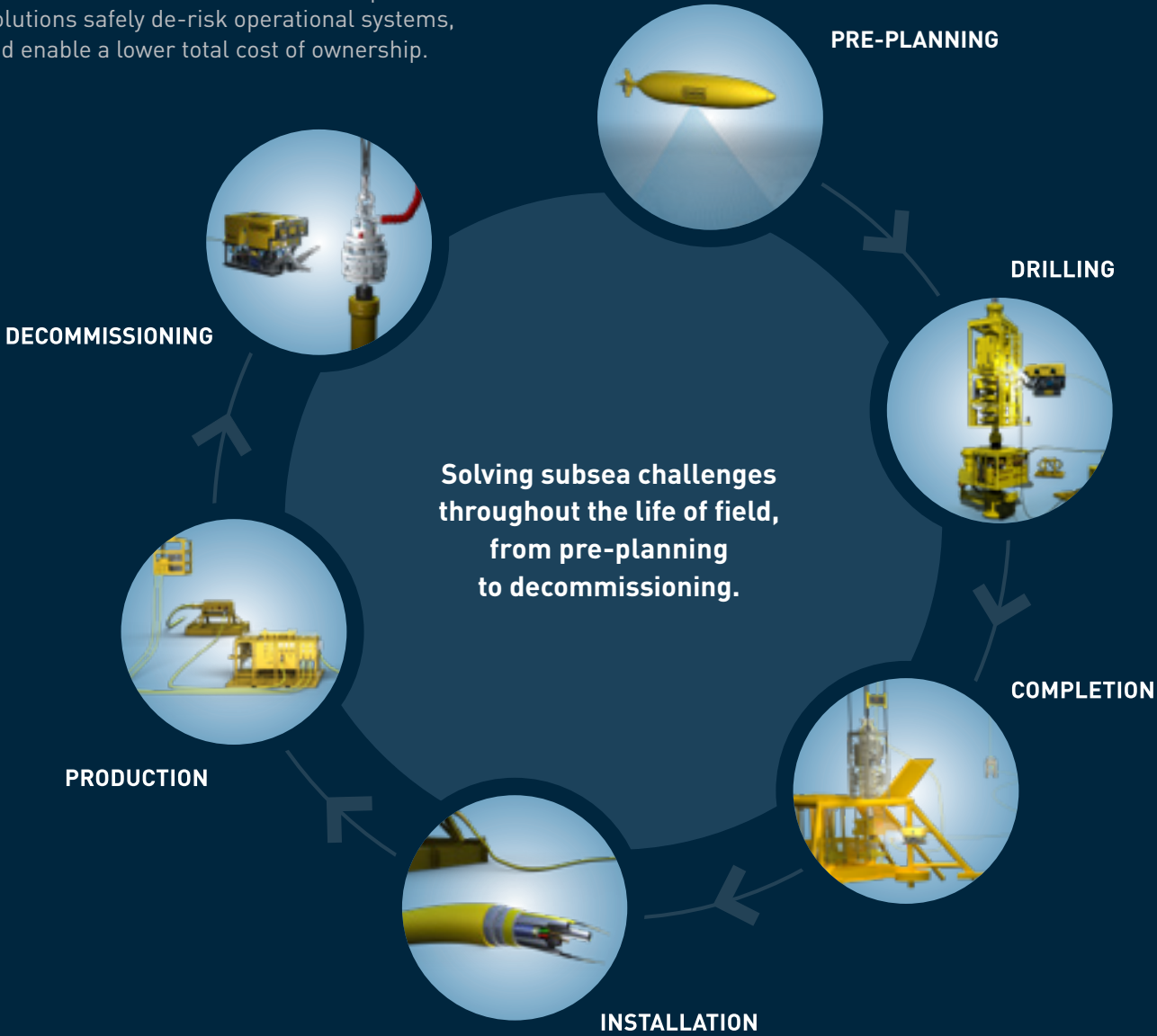
- Used on newer rigs where power supply must be converted from 690 volts to 480 volts
- IECEx certification
- DNV certified



CHEMICAL INJECTION PUMP

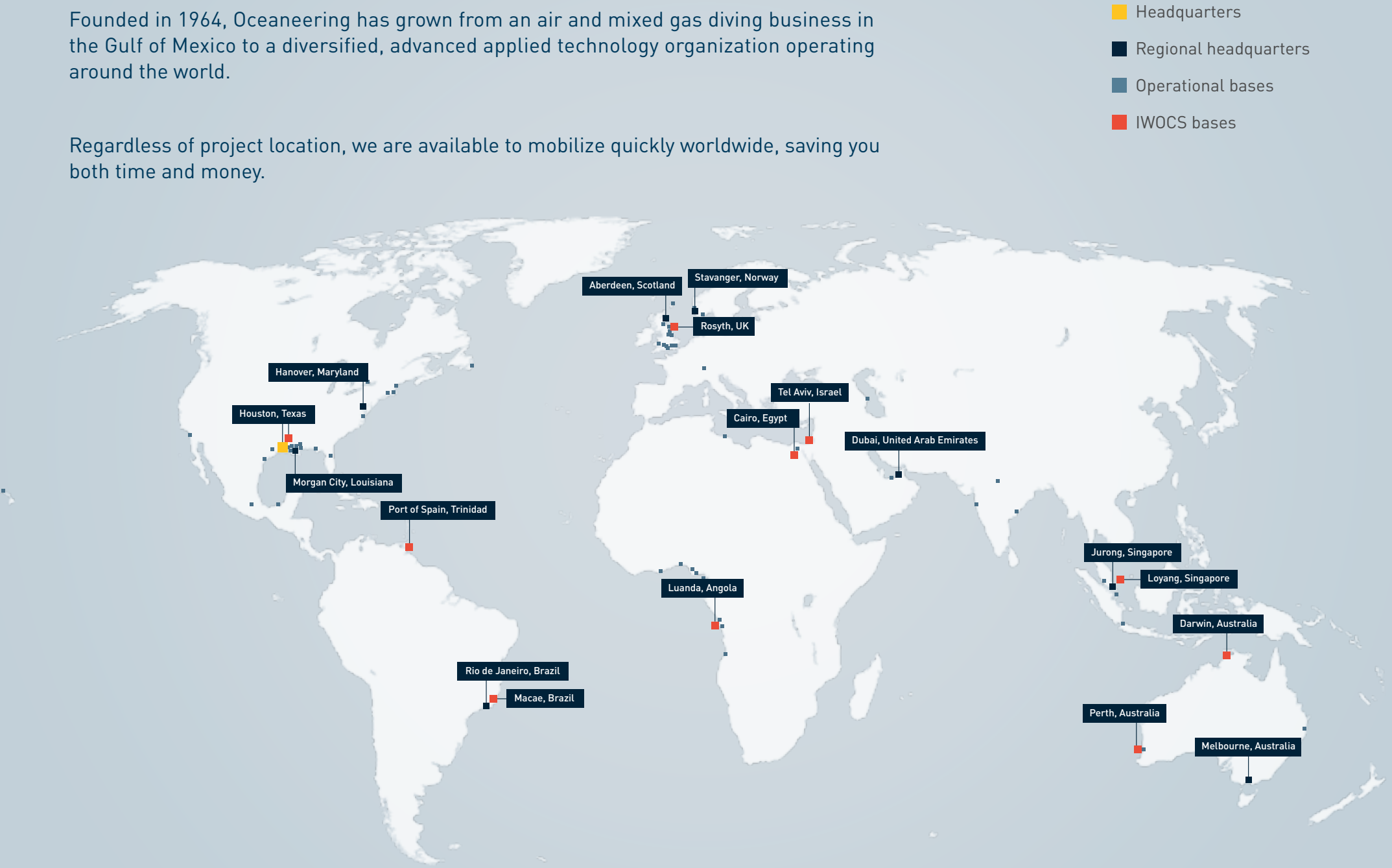
- Used for chemical injection during IWOCS operations
- High-flow capabilities
- DNV certified

Oceaneering is the subsea connection specialist that responds to your challenges, from routine to extreme. Our innovative portfolio of technologies and solutions safely de-risk operational systems, increase reliability, and enable a lower total cost of ownership.



Founded in 1964, Oceaneering has grown from an air and mixed gas diving business in the Gulf of Mexico to a diversified, advanced applied technology organization operating around the world.

Regardless of project location, we are available to mobilize quickly worldwide, saving you both time and money.



oceaneering.com/IWOCS

iwocs@oceaneering.com

Tel.: (+1) 832 467 7927



oceaneering.com