



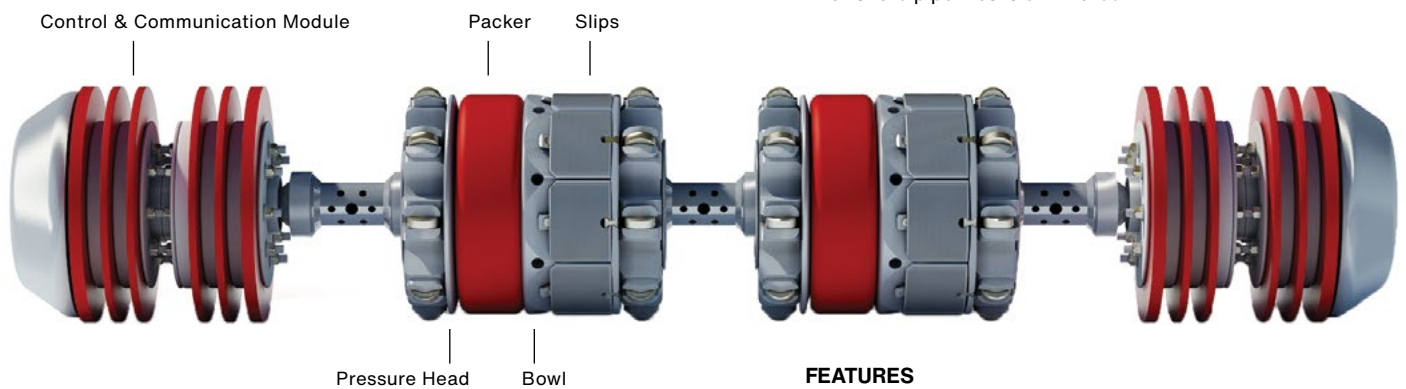
Pipeline Solutions

SmartPlug® isolation technology is the only system of its kind that makes it possible to hydrotest a pipeline section immediately after remedial pipe work without breaking the integrity of the isolation, saving time and money.

ENVIRONMENTAL IMPACT

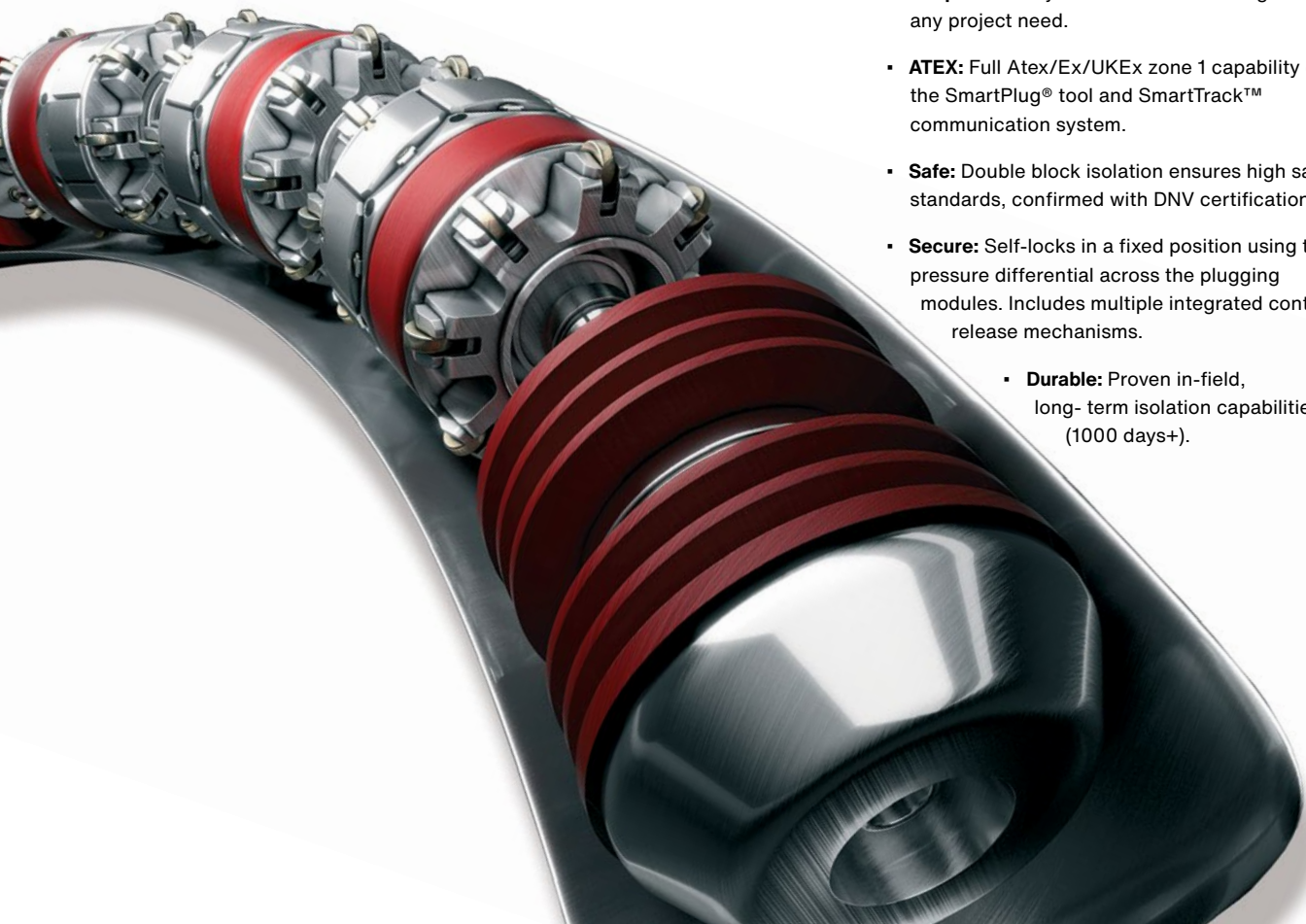
SmartPlug® isolation technology helps customers save money while protecting the environment. Intervention and repairs are completed with minimum disruption, providing these benefits:

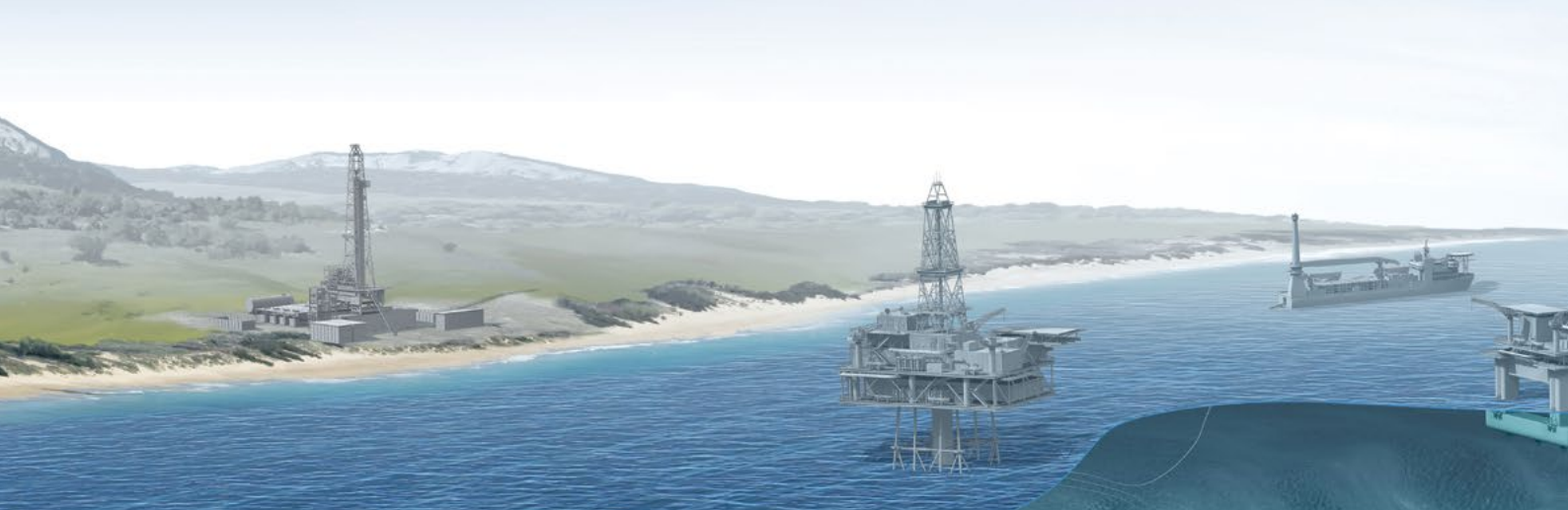
- Reduced down time during maintenance.
- Bleed down volume is eliminated or drastically reduced, avoiding release of hydrocarbons.
- No need to treat chemicals or dispose of contaminated water before re-commissioning.
- Eliminates risk of introducing new leak paths
- Risk of accidental flooding during construction of offshore pipelines is eliminated.



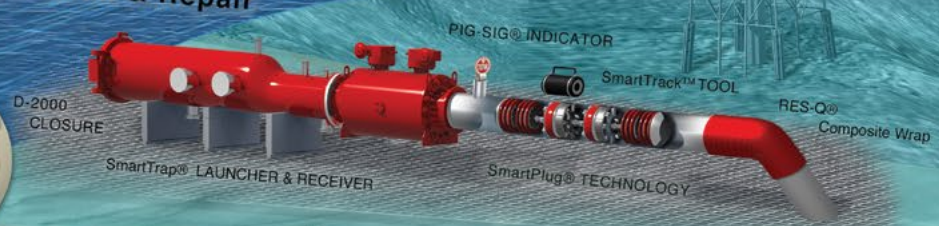
FEATURES

- **Highly Piggable:** Bi-directional pigging functionality through individual articulated modules, in all pipeline diameters ranging from 8" to 48".
- **Intelligent:** Remotely operated and tracked through the SmartTrack™ system, also enabling off-site activation and remote monitoring.
- **Adaptable:** Fully customized and configured to any project need.
- **ATEX:** Full Atex/Ex/UKEx zone 1 capability on both the SmartPlug® tool and SmartTrack™ communication system.
- **Safe:** Double block isolation ensures high safety standards, confirmed with DNV certification.
- **Secure:** Self-locks in a fixed position using the pressure differential across the plugging modules. Includes multiple integrated contingency release mechanisms.
- **Durable:** Proven in-field, long-term isolation capabilities (1000 days+).

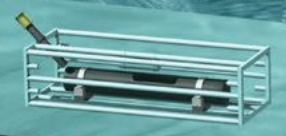




Topside Intervention & Repair



SUBSEA MINOR REPAIR



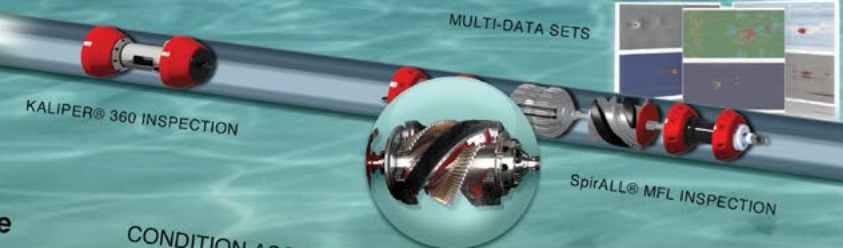
Intervention & Repair



INVENTORY PROTECTION



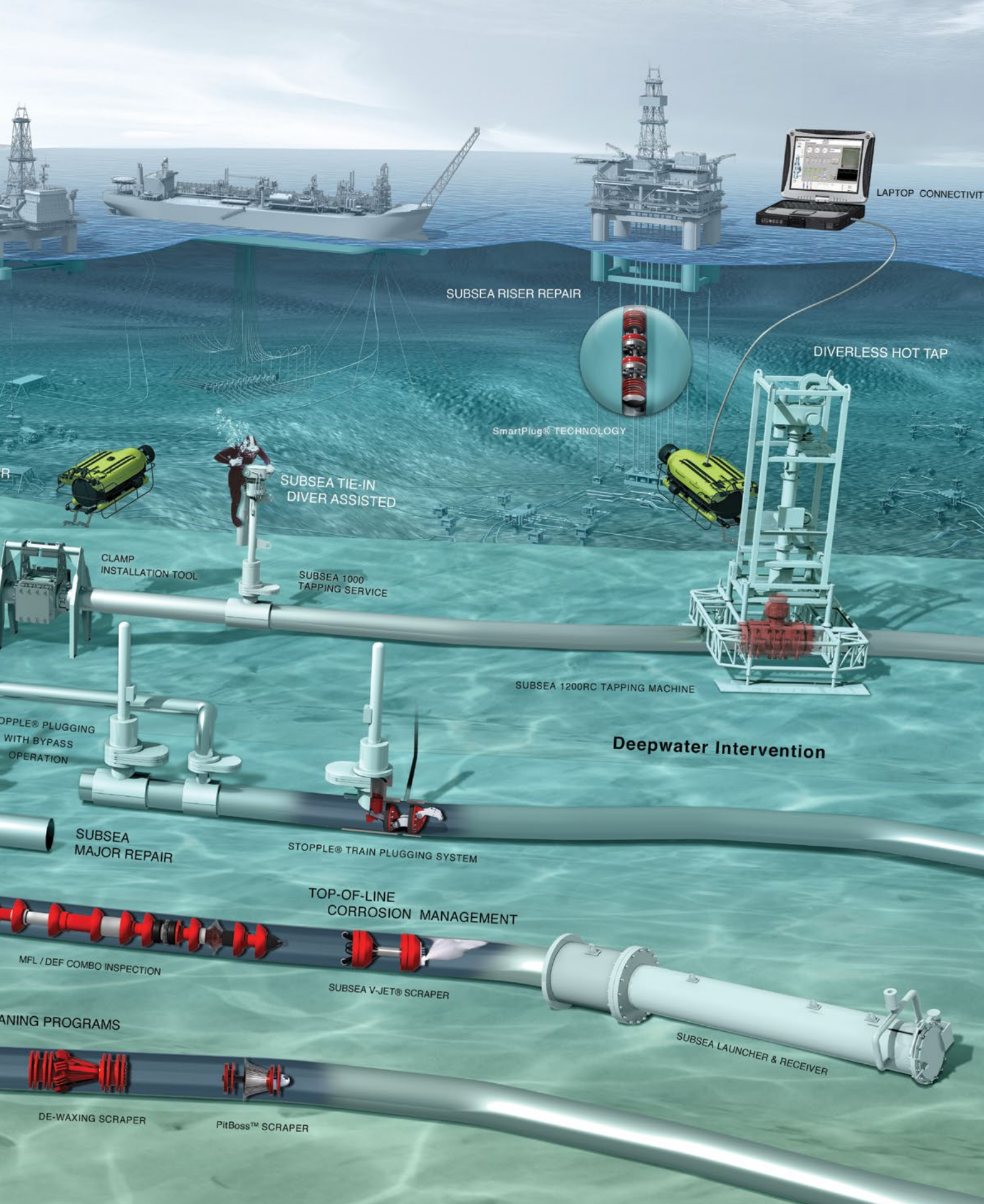
Integrity Management



INLINE INSPECTION

Flow Assurance





SmartPlug® isolation technology makes it possible to isolate pipelines safely at any operating pressures. This means that maintenance and repairs can be conducted quickly, without bleeding down the entire system.

Downtime worries? Problem solved.

A pipeline under repair bleeds money with every passing hour. The solution? SmartPlug® inline isolation technology. Operated by remote through wall communication, the SmartPlug tool's "double-block and monitor" isolation capabilities ensure a safe, reliable pressure isolation.

One system, many applications.

TDW has used SmartPlug® technology globally during hundreds of maintenance operations like these:

- Valve, riser and launcher system repair and replacement
- Pipeline section repair and replacement.
- Pressure testing and leak detection of pipeline sections.
- Isolations of live pipelines during commissioning, decommissioning, re-routing and tie-in — onshore and offshore.
- Protection of pipelines and inventory during construction and overhead lifting operations.



www.tdwilliamson.com

📍 HEADQUARTERS ● LOCATIONS ▲ MANUFACTURING ★ REPRESENTATIVES

North and South America +1 918 447 5000
Europe/Africa/Middle East +32 67 28 36 22
Asia Pacific +65 6364 8520
Offshore Services +47 51 44 32 40

