Amplify Subsea Performance

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Meeting the challenges of subsea production to deliver long-term value goes beyond the capabilities offered by any individual service provider. Our response is Subsea Integration Alliance – an alliance like no other.

Amplify subsea performance with Subsea Integration Alliance

Enabling subsea developments to efficiently deliver the greatest economic potential for the life of the field.

Introducing Subsea Integration Alliance

As Subsea Integration Alliance, we continuously enhance our individual capabilities, products and project delivery within subsea production systems (SPS) and subsea umbilical, riser and flowline (SURF) systems. Together, as Subsea Integration Alliance, we have further expanded our capabilities towards the integrated delivery of projects.

At the same time, we have significantly adapted our engagement models – allowing us to interact earlier with customers, and to support them in choosing the system, and product solutions that best match their project needs.

Subsea Integration Alliance brings these initiatives together into a fully integrated subsea offering.
Uncover the true value

Value delivery framework.

The value delivery framework reflects the key real-world drivers of our customers. The approach of Subsea Integration Alliance considers every aspect of it when developing solutions – keeping an open mind and a balanced view to unlock as much value as possible from each project.

Early collaborative engagement, utilising our subsea value framework, enhances investment returns across subsea projects.

Make it right. Make it smart. Make it happen.

Secure the best options for the life of your asset.

Subsea Integration Alliance develops value-focused customer solutions. We address the full field lifecycle from selection, concept evaluation and design, project delivery, to operational integrity management and field optimisation.

Smarter. Earlier.

End-to-end integration introduces an unprecedented level of efficiency to subsea projects by eliminating costly revisions, avoiding delays and reducing risks.

From day one, Subsea Integration Alliance adds value throughout the life of the field.

**CAPEX**
- Taking a system-wide view on the combined costs of SPS and SURF, well construction, topsides, process and hosts – standardising interfaces and identifying the most capital-efficient options.

**OPEX**
- Understanding the ongoing costs of subsea operations including manpower, logistics, chemical and power consumption, and factoring in less visible expenses such as inspection, intervention, maintenance and repairs.

**Environment**
- Identifying the financial impact of any taxes resulting from projected CO₂ emissions, with the option to build in technologies to control or actively reduce the carbon footprint of operations.

**Uptime and reliability**
- Exploring ways to maximise the availability of subsea and topside facilities, as well as opportunities to reduce the incidence of shutdowns and lessen the impact of start-ups.

**Incremental recovery**
- Engaging subsurface expertise to connect subsea systems with asset recovery to help avoid under-recovered reserves and optimise the value of additional hydrocarbons produced.

**Accelerated recovery**
- By quickly defining the best solution, and developing it faster, Subsea Integration Alliance shortens the time to first oil, resulting in shorter payback time.
Select the best case

We engage with our customers at the earliest stage of the asset's lifecycle to fully understand and address the key drivers, ensuring delivery of the optimum solution.

Using our digital collaboration platforms, we explore a full range of quantified scenarios with all the disciplines, and in real time to configure the best solution from the world’s leading combined subsea portfolio.

Through early engagement, value is created for customers by lowering costs, streamlining schedules and unlocking new value. From the initial stages of project planning all the way to final investment decision, we solve economic challenges making sure the asset has the best possible opportunity to gain sanction.

Optimise the system

Move beyond the selection stage and accelerate your subsea development process.

The Subsea Integration Alliance approach involves creating the required system design by engaging the team that will ultimately deliver it.

A fully costed, scheduled and validated plan enables operators to gain sanction, and avoid surprises.

- Systems approach ensures delivery of requirements and an optimised solution
- Aligns manufacturing with planning
- Optimisation of interfaces between design, manufacture and installation
- Enables rationalisation, cost optimisation, design and process alignment, and standardisation considerations
- End-to-end engineering and execution
- Execution and delivery plans built on the right experience and know-how

Deliver with certainty

Reduce the number of interfaces, lower costs, and streamline schedules.

Subsea Integration Alliance integrates and delivers all levels of execution – design, component testing, quality assurance, scheduling, logistics planning, risk management, fabrication, site testing, loadout, installation, and pre-commissioning – as one team.

We engineer, procure, construct, install and commission capital-efficient subsea solutions. The Subsea Integration Alliance approach optimises phase development and increases delivery and deployment assurance.

- Combined project delivery teams
- Integrated engineering
- Combined schedules and sequencing
- Integrated supply chain
- Optimised local content
- Connected facilities, yards, and bases
- Experience and know-how

Operate

Maximise the performance of your asset with leading life of field solutions to enhance production management and asset integrity outcomes.

The portfolio of solutions from Subsea Integration Alliance includes monitoring platforms, inspection systems, remote intervention and repair systems, as well as fluid intervention systems. These offerings help monitor and control subsea production and processing, assure flow, and maintain long term throughput. Industry-leading life of field and aftermarket solutions maintain asset integrity at optimum levels.

- Digitally enabled platforms
- Connected subsea systems
- Life of field service and support
- Efficient operations
Integrated Field Development planning

Early engagement to enable, accelerate, and enhance subsea production.

The Integrated Field Development (IFD) service maximises asset value by dynamically connecting reservoir, production and economic models with well, subsea infrastructure, and topside facilities in a single, collaborative environment.

This connected approach allows us to develop the asset based on reservoir and hardware considerations for the life of the field. Taking a full system view enables Subsea Integration Alliance to drive out cost and balance investment against recovery, to identify the precise point where dollar per barrel is minimised.

Solutions that best meet your project requirements financially, technically, practically and logistically.

Subsea Integration Alliance tools and methodologies allow us to combine various disciplines and the full range of subsea technologies in one collaborative platform – seamlessly unifying planning and execution.

- Integrated asset modelling connects reservoir and production system decisions
- Subsea Planner* collaborative field development planning solution creates costed 3D layout designs with dynamic reservoir and production models that change as the field matures
- Project definition and execution system to quickly build a clear picture of exactly what is needed for the study project, how to manage it as well as the cost and time required

*Mark of Schlumberger
Leading subsea technology portfolio

Subsea Integration Alliance has access to one of the broadest portfolios in subsea, comprising market-leading technologies. Working as an alliance allows us to standardise and optimise systems across the technology portfolio.

**Powered Production Systems**
Relying solely on reservoir drive means that pressure, productivity and recovery all decline at a faster rate than necessary.

- Designed and engineered for the unique challenges posed by specific subsea applications, OneSubsea powered production systems help you achieve full asset potential.
- At the core of powered production systems is OneSubsea’s industry-leading single-phase boosting pump, multiphase boosting pump, and multiphase compressor. From the heavy oil fields of the Republic of Congo to the uncompromising Australian brownfields, we deliver significant investment returns and operational improvement on a global stage.

**Subsea Production Systems**
OneSubsea provides fully integrated subsea production systems, incorporating field-proven technology and products.

- Decades of experience and engineering innovation have helped to ensure that our product range – from wellheads and trees, to manifolds and flowline connectors, to production controls and workover systems – drives technically superior field development solutions. From deepwater to ultra-deepwater, from greenfield to brownfield, OneSubsea delivers the right solution for any challenge.

**Standard configurable systems**
OneSubsea delivers capital-efficient, pre-engineered standard configurable systems.

- Each system is fully qualified and adequately documented to provide customers with the details to align with our technical specifications. Project tenders are streamlined and OneSubsea is able to engineer, manufacture, and deliver system solutions globally as soon as 12 months after contract award. Our standard configurable systems include subsea trees, manifolds, controls, connection systems, and wellheads.

**The result is a technology portfolio that is designed to reduce the number of interfaces, lower costs and streamline schedules.**

**Flowline Systems**
High performance and cost-efficient Flowline Systems to enable optimal field architecture.

- The Subsea 7 flowline portfolio encompasses the full range of cross section and material solutions, from simple corrosion coated flowlines, to wet insulation, Pipe-in-Pipe, active heated systems, and internal PE coated systems. Our Electrically Heat Traced Flowline pipe technology manages flow assurance, to overcome the challenges of longer distance tiebacks and greater water depths, cost-effectively.

**Pipeline Bundles**
Subsea 7's track record includes the successful design, fabrication and installation of over 80 Pipeline Bundles.

- The Pipeline Bundle neatly incorporates all structures, valves, pipelines and control systems necessary to operate a field in one single product, delivering considerable value and potential cost savings for a wide range of applications, including HPHT field developments.

**Riser Systems**
By taking into account field characteristics such as water depth and environmental conditions, our riser systems meet the ever-increasing challenges of deepwater and harsh environments.

- Subsea 7’s riser portfolio includes decoupled riser systems such as the Single Hybrid Riser, the Hybrid Riser Tower and the Buoysancy-Supported Riser – successfully proven in major deepwater projects. Coupled riser systems include Flexibles, Steel Catenary Risers and Steel Lazy-Wave Risers (SLWR), including the first SLWR system deployment on Brazil’s BC-10 project.
Integrated Project Delivery

Bringing together the big event.

Subsea Integration Alliance combines the strengths of Subsea 7 and OneSubsea, Schlumberger with strong global project delivery capabilities and an outstanding track record.

- EPCI project management capability
- Fully integrated teams, clear single-point accountability and established governance models
- Global Projects Centre organisation with the processes, systems, capabilities and a track record for large, complex project execution
- Local presence and commitment to local value creation
- Fit-for-purpose systems and processes – within SURF, SPS and Integrated Project Delivery

Integrated Project Delivery balances integrated project management with control. We make sure our processes and working methods remain customised and fit-for-purpose for each task, based on lessons learnt over the years.

Our fully integrated project teams provide customers with end-to-end safety and quality leadership. We proactively consider personnel safety, environmental impact, and our social responsibilities.

Our re-engineered organisational and delivery models centre around collaboration, transparency and customer focus for greater efficiency and lower costs. Customers experience more robust and predictable project execution through the integrated management of risk, schedule and interfaces.

Utilising leading technology, our modern fleet and extensive manufacturing capacity, Subsea Integration Alliance teams provide customers with the safest, most efficient and cost-effective solutions for their unique field development needs.
Total lifecycle solutions

Improving productivity, maintaining availability.

To maximise lifelong value we provide customers with solutions that optimise the overall performance and returns from their assets. Our total lifecycle approach begins with early engagement to ensure optimal economic performance and is delivered through our project execution and technology portfolio and supported throughout the life of field by leading aftermarket capabilities.

Our combined capabilities allow customers to maximise recovery rates, achieve the highest levels of uptime and availability, and maintain asset health in the most efficient manner.

Improving productivity
- Monitoring and control
- Analytics and insight
- Connected systems
- Future-ready solutions

Maintaining availability
- Operational systems
- Asset integrity and monitoring services
- Inspection systems
- Autonomous vehicles
- Remote intervention and repair systems
- Fluid intervention systems
- Digitalisation – monitoring and optimisation

Global network

Subsea Integration Alliance has the resources and capabilities to assure delivery of subsea projects of any scale, anywhere in the world.

We maintain operational facilities worldwide to support the asset management needs of our global customer base. Each facility is tailored to the asset management requirements of the region it serves.

Our global operations include an extensive infrastructure of pipeline spoolbases, fabrication and operations support yards. These strategically positioned assets, in conjunction with a network of local partners, are central to developing strong and sustainable local businesses.

A diverse fleet and strategically-positioned global assets.

Subsea 7 has one of the most capable and versatile vessel fleets, including chartered and high-specification owned vessels. Balancing operational flexibility while retaining full control of the capabilities makes our services unique.

With offshore operations managed, crewed and operated by highly-experienced marine and construction personnel, we respond quickly and sensitively to customer demands; leveraging the full strength of our global resources and know-how.
Subsea Integration Alliance is a non-incorporated strategic global alliance between Subsea 7 and OneSubsea®, the subsea technologies, production and processing systems division of Schlumberger, bringing together field development planning, project delivery and total lifecycle solutions under an extensive technology and services portfolio.

As one team, Subsea Integration Alliance amplifies subsea performance by helping customers to select, design, deliver and operate the smartest subsea projects. This eliminates costly revisions, avoids delays and reduces risk across the life of field.

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