



## Technip and Schlumberger announce joint development agreement

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### Companies Bring Advanced Flexible Pipe Integrity and Surveillance to Deepwater Operations

Technip and Schlumberger announced today the signing of a global cooperation agreement to jointly develop subsea integrity and surveillance solutions for flexible pipes used in deep offshore oil and gas production. The new agreement extends the collaboration between the companies that began in 1998.

The agreement is initially focused on surveillance systems activities for new and challenging flexible pipe applications such as those required in the deepwater pre-salt environment in Brazil. Several key Schlumberger technologies used in subsurface applications have been identified for integration into Technip's new Ultra Deepwater flexible pipe designs.

Alain Marion, Senior Vice president, Subsea Assets and Technologies, Technip, commented: "By combining Technip's technical and manufacturing knowledge of flexible pipe with Schlumberger's surveillance technology, a new generation of intelligent flexible pipe will be created. The "measurement-enabled" flexible pipe will provide significant value to the industry in safety, reliability, and performance. This new combination enhances Technip's already extensive portfolio of flexible pipe products, which represent key components for the development of ultra deepwater fields."

One of the initial integrity solutions that the partners expect to develop and qualify is focused on the use of optical fibres to monitor a variety of parameters characterising pipe behaviour. Andy Hendricks, Vice President Subsea, Schlumberger, explained: "The extremely robust nature of fibre-optic sensors in deepwater environments, combined with the possibility of using a single interrogation unit for a whole production system, makes this solution both technically and commercially superior." The new technology combination extends Schlumberger subsea products and services, which already include other surveillance technologies, production flow assurance engineering, and light-vessel well intervention project.

As part of the collaboration, retrofit solutions will also be pursued to address the large number of flexible pipes in operation utilising proven technologies and methodologies applied subsurface, but now tailored to the flexible pipe domain.

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### Technip

Technip is a world leader in the fields of project management, engineering and construction for the oil & gas industry, offering a comprehensive portfolio of innovative solutions and technologies.

With 23,000 employees around the world, integrated capabilities and proven expertise in underwater infrastructures (Subsea), offshore facilities (Offshore) and large processing units and plants on land (Onshore), Technip is a key contributor to the development of sustainable solutions for the energy challenges of the 21st century.

Present in 46 countries, Technip has operating centers and industrial assets (manufacturing plants, spoolbases, construction yard) on five continents, and operates its own fleet of specialized vessels for pipeline installation and subsea construction.

The Technip share is listed on Euronext Paris exchange and over the counter (OTC) in the USA. For more information, visit <http://www.technip.com>

### About Schlumberger

Schlumberger is the world's leading supplier of technology, integrated project management and information solutions to customers working in the oil and gas industry worldwide. Employing approximately 77,000 people representing over 140 nationalities and working in more than 80 countries, Schlumberger provides the industry's widest range of products and services from exploration through production.

Schlumberger Limited has principal offices in Paris, Houston and The Hague and reported revenues of \$27.16 billion in 2008. For more information, visit [www.SLB.com](http://www.SLB.com).

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