

F O O

A broad range of flexible pipe systems with advanced integrated solutions.



F O O

What is it? How does it work? What are its components? What are its applications?

A fit-for-purpose structure

A flexible pipe is a configurable product made up of several layers. The main components are leakproof thermoplastic barriers and corrosion-resistant steel wires. The helically wound steel wires give the structure



The widest range of services

TechnipFMC is the only offshore contractor that seamlessly integrates design, engineering, manufacturing and installation services through its unique integrated Engineering, Production, Construction and Installation (iEPCI) capability and Subsea 2.0 products. Our regional staff regularly interfaces with clients worldwide. Our Flexibles Technology centers coordinate flexible pipe related engineering within our regional business units.

Flexible Pipe Plants

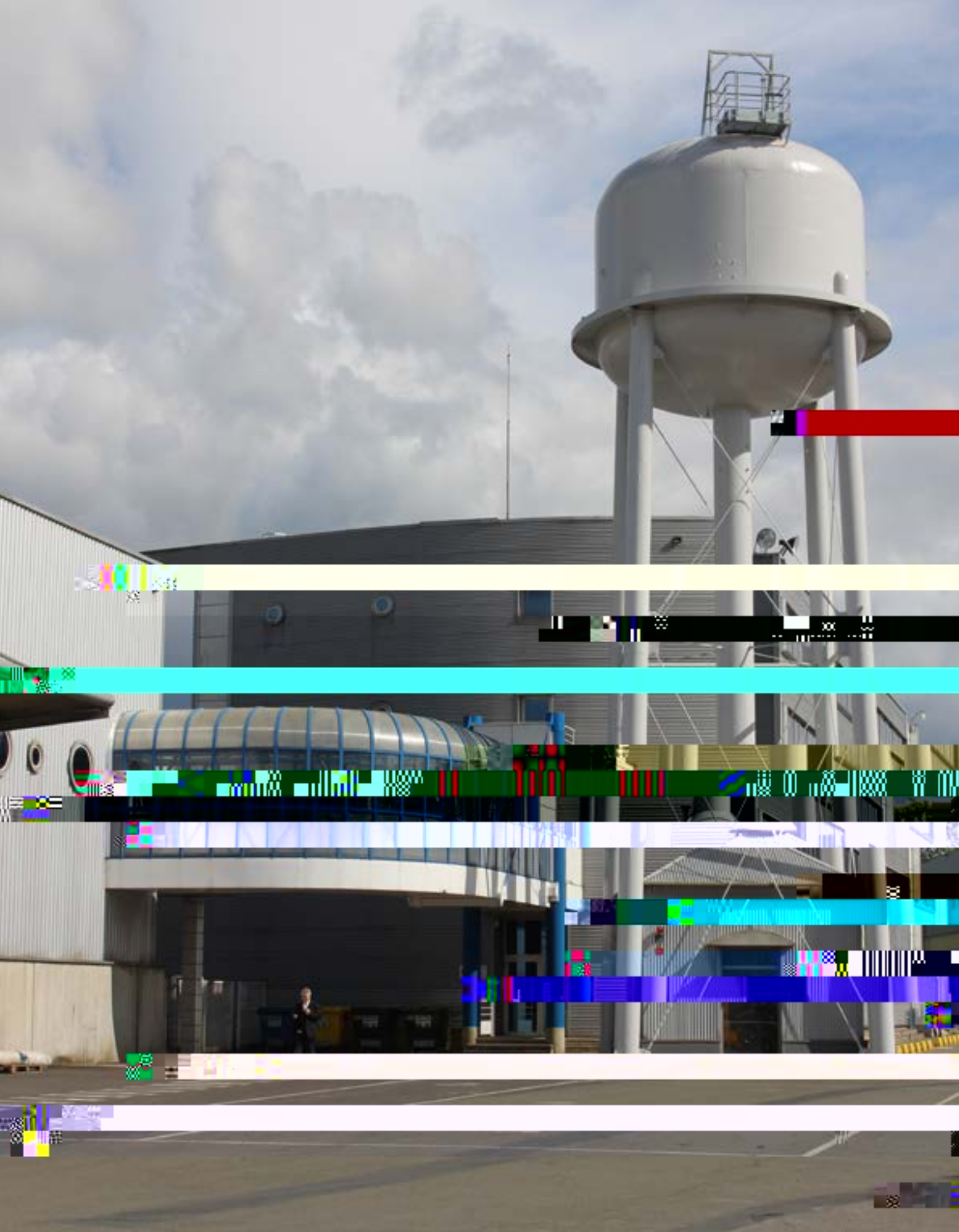
TechnipFMC currently operates four flexible pipe plants:

Flexi France (Le Trait, France) was upgraded in 2017.

Flexibras (Vitória, Brazil)

AsiaFlex Products (Tanjung Langsat, Malaysia) was inaugurated in 2010 to serve the Asia Pacific and Middle East subsea markets

Flexibras Açú (Port of Aiea, Portugal) was inaugurated in 2014 to serve the European and Middle East subsea markets



Engineering

Our engineering group meets two main objectives: Being close to our clients to answer their needs while and ensuring a sustained level of engineering excellence. This is achieved through Local engineering departments in each of our business units performing most project engineering tasks within the project teams;

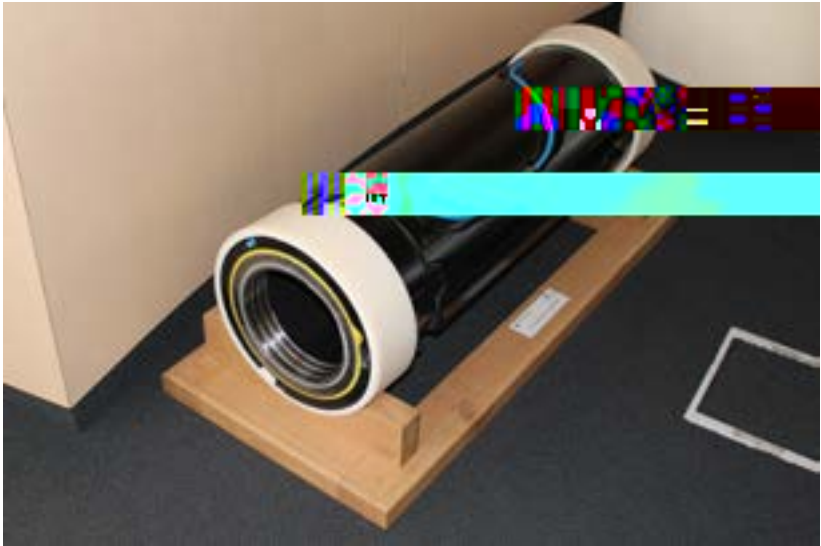
A center of excellence in Le Trait sharing the same site as the main flexible pipe manufacturing technology and

All engineering and manufacturing centers sharing the same design rules.

A specific offer is available relating to flexible risers

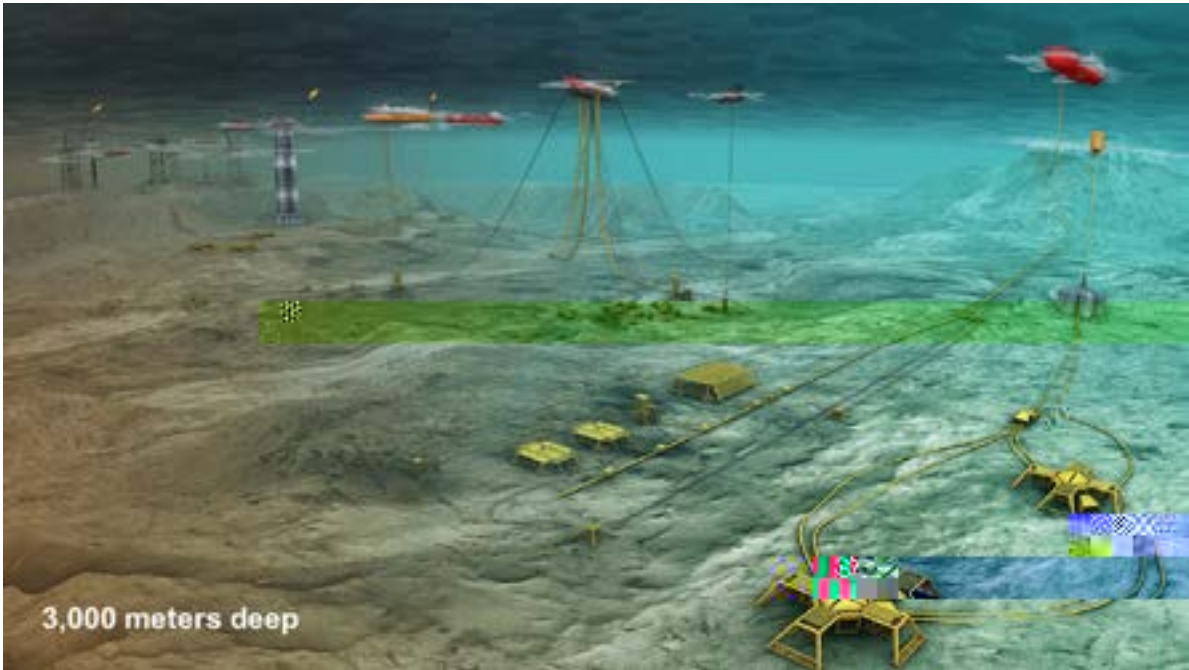
Integrity management

TechnipFMC Subsea Services offers a dedicated suite of services and technologies for asset surveillance to improve subsea operations in terms of uptime, production and OPEX throughout the asset lifecycle.



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Our ultra-deepwater performance range extends from 1,000 to 3,000 meters.

Deep Immersion Performance (DIP) full scale tests were conducted in the Gulf of Mexico in 2010 with 7" and 9" ID tested at 3,000 meters water depth.

2010: 6" and 10" for sour service in 2,100m water depth

2011: Supply and installation of 6", 8" in 2300mWD for Libra project and supply of 9.13" risers in 2,240mwd on Iracema Norte project

We are making full use of our capacity to efficiently and effectively evolve the configurability of flexible pipes. In ultra-deepwater developments, the steel layers

are most affected, with each improvement answering a specific client-led challenge:

Internal carcass for collapse resistance

Pressure vault for collapse and weight

reduction2010 with 7" and 9" ID tested

at 3,000 meters water depth

2010: 6" and 10" for sour service in 2,100m water depth

2011: Supply and installation of 6", 8" in 2300mWD for Libra project and supply of 9.13" risers in 2,240mwd on Iracema Norte project

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