



Technip Technology Webcast

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Safe Harbor

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Technology at Technip

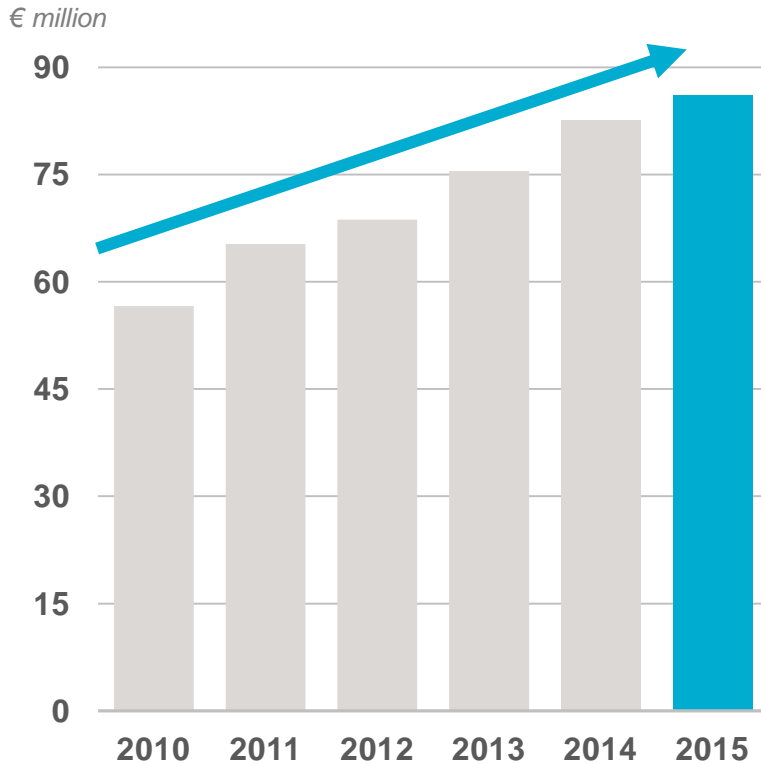


Research & Development

A Strategic Focus to Better Anticipate the Industry's Challenges



€86 million of group R&D investment in 2015



600+ patent families registered, in over **90** countries



500+ experts in our global network



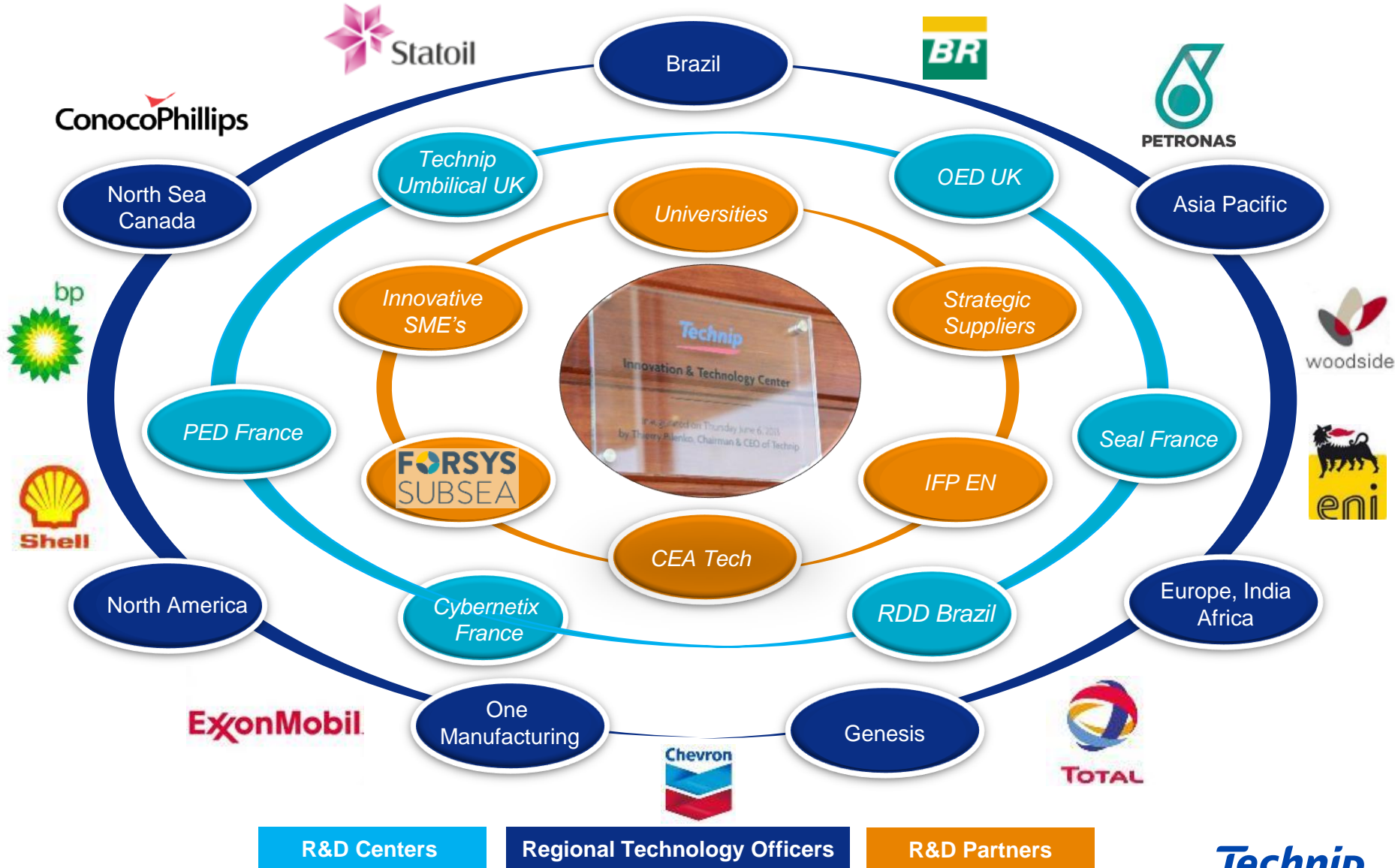
10+ R&D centers covering our business segments



1 Innovation & Technology Center in France

Subsea Technology Organization

A Set up Turned to Innovation and Strategic Partnerships Worldwide



R&D Centers

Regional Technology Officers

R&D Partners



A Strong Innovation Culture

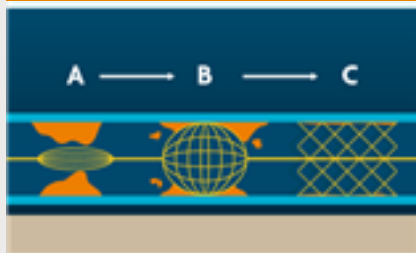
Fostering Innovation and Leveraging our Talents' Expertise to Develop Innovation Culture across the Group



Yammer Innovation Challenge

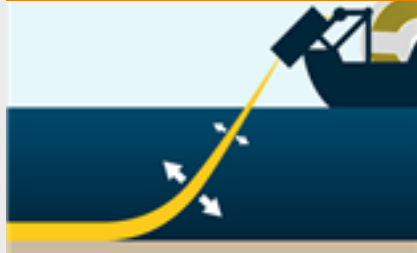
- Use a collaboration tool to think the innovation differently
- Propose original concepts to invent the future of pipelines

SMA Stent in Pipe



Develop more efficient pipelines

Flat Pipe



Easier and cheaper installation



Jacques Franklin Award

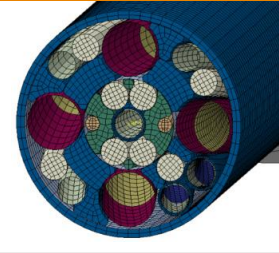
- Recognize some of the best initiatives undertaken within Technip
- 9 Subsea technology winning initiatives in 2015

DTS⁽¹⁾ Monitoring



Deliver key integrity and flow assurance Information

FEA⁽²⁾ Model Builder



Identification and mitigation of potential installation issues

(1) DTS: Distributed Temperature Sensing
(2) FEA: Finite Element Analysis

Pioneering Subsea Innovation to Address Industry's Challenges



Addressing Industry's Challenges



Reduce Projects Costs

- Capex/Opex reduction
- Time to first oil

Increase Efficiency

- Recovery maximisation
- Higher pressure
- Ultra deep water

Enhance Life of Fields

- Continuous monitoring
- Maintenance

Reduce Projects Costs

Technology Driving Cost Efficiency



- Making projects viable in a low oil price environment
- Reducing development and operating costs to unlock value

Qualifying cost effective products



- **New polymer grade for flexible pipe**
 - 6 to 20 time cheaper than actual grades

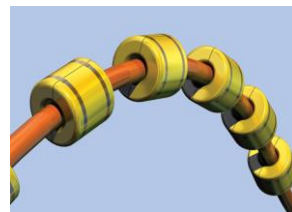


- **Insulation for rigid pipeline**
 - significantly cheaper solution for North Sea market

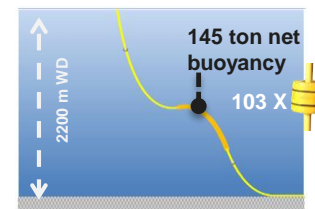
Bringing innovative solutions in our operations and to our clients



- **Unmanned Surface Vessel**
 - remove need for DSV vessel
 - increase safety and operational efficiency
 - smaller carbon footprint



- **Improved fatigue methodology**
 - reduce quantity of buoyancy
 - significant cost saving on procurement and installation time



Increase Efficiency

Developing Technically Enabling Technologies



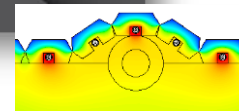
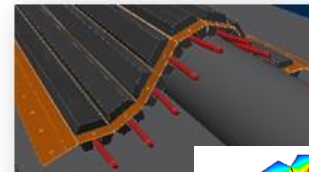
- Manage more complex production fluids and fields
- Maximize production recovery efficiency

Thriving on ultra deep water technical challenges

- **Composite armour**
 - higher strength (x2)
 - lower weight (/4)
 - go deeper and reduce installation tension
- **Aluminum core cable**
 - improved fatigue performance
 - brings power to subsea processing equipment in ultra deep water

Developing disruptive technologies

- **ETH pipe-in-pipe**
 - safely prevent hydrate plugs
 - eliminate production loop
- **ETH-blanket**
 - deployed on existing pipeline
 - detect and resorb areas of blockage through active heating



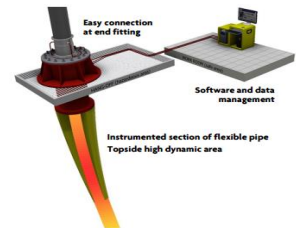
Enhance Life of Fields

Providing the Technology to Maximize Performance over the Life of the Field



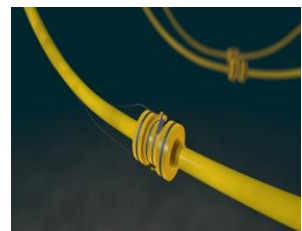
- Manage assets throughout their life cycle
- Provide our clients with valuable data

Integrating leading-edge electronics and flexible riser expertise

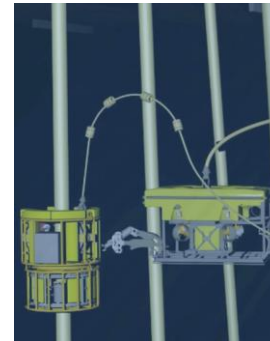


- **Morphopipe**
 - structural health monitoring
 - live data on flexible riser behavior
 - monitor riser integrity

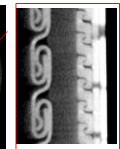
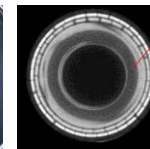
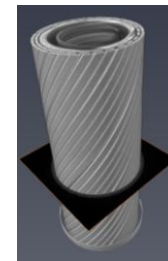
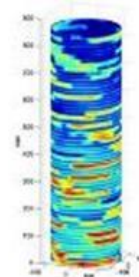
- **Pressure and Temperature Monitoring System**
 - flow performance enhancement in deepwater applications
 - non intrusive system



Providing step-change in inspection of in-service risers



- **In-service Riser Inspection System (IRIS)**
 - evaluate health of components and analyse degradation rhythm
 - allows underwater inspection
 - no production disruption



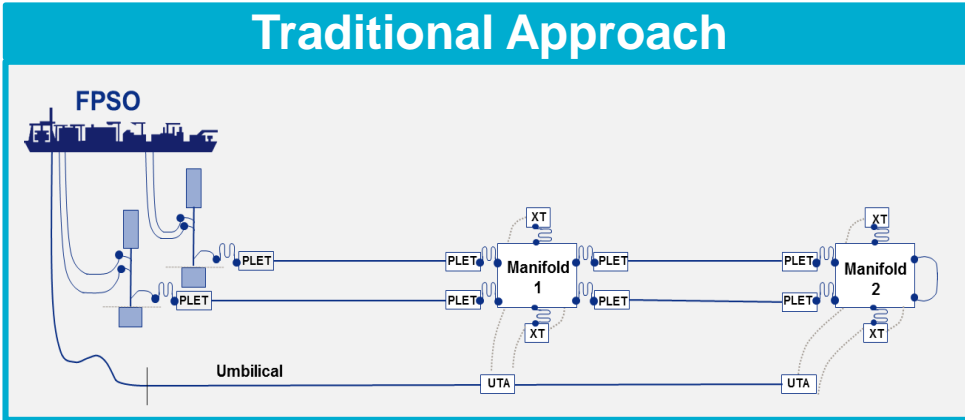
TechnipFMC: Reinventing Subsea Fields from Concept to Project Delivery and Beyond



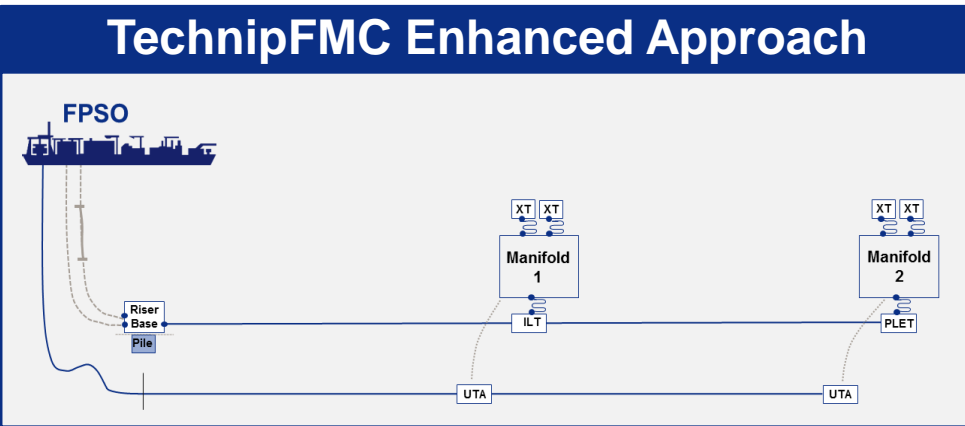
From Concept...

TechnipFMC Approach: Creating Value

Traditional Approach



TechnipFMC Enhanced Approach



50% of risers and flowlines



6 PLETS at end of flowlines



time to **first oil**



offshore installation duration



execution **interfaces** and **risks**



~30% Capex Reduction

... to Project Delivery...

Optimizing the Combination of Best in Class Technologies



Subsea processing



ETH PIP



Increased efficiency



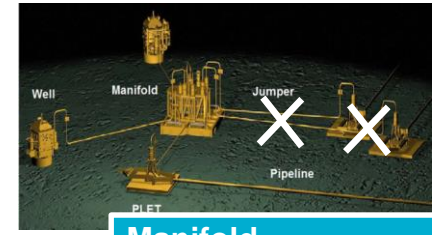
Connector



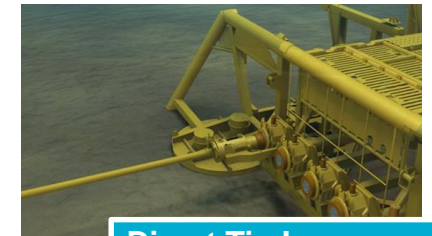
Flexible pipe



Optimized connectivity



Manifold



Direct Tie-In



Simplified architecture

... and Beyond

From Data to High Value Information to Extend Life of Fields

Monitoring

Integrity and flow,
Production data,
House-keeping
data,
Slugging, Vibration
Structure, Armour,
Tension, Fatigue

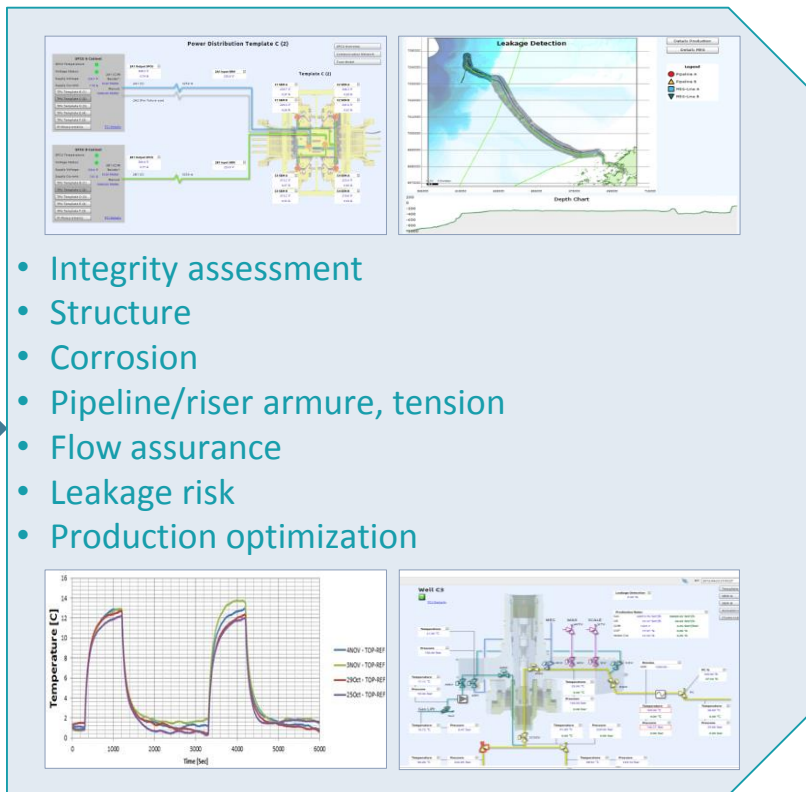
Inspection

(Hull, SURF, SPS,
Mooring)

Survey

(Mapping, Route
survey)

RAW DATA



**Integrity
Management
and Production
Enhancement**



Key Take-aways

Innovation and Technology Development is at the Heart of Technip's Strategy

- **Deploy differentiating technologies to drive cost reduction**
- **Shape the future with step changing technologies making our client's challenging projects economically viable and more efficient**
- **Expand our technology portfolio and services**

Thank You



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