

### **Laurent DECORET - Group SVP Innovation & Technology**

Innovation & Technology Center, Rueil-Malmaison, June 22, 2015

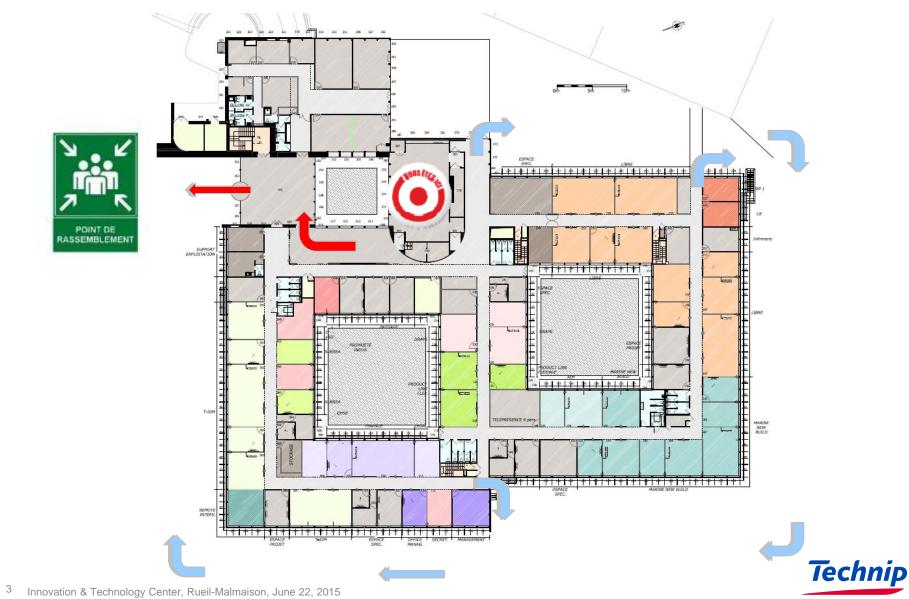


# **Agenda**

- Safety Moment
- Proactive Response to the Current Market Challenges
- Technip's Subsea Business Adapted to the New Environment
- Pursue Differentiation through Technology and Innovation
- Conclusion



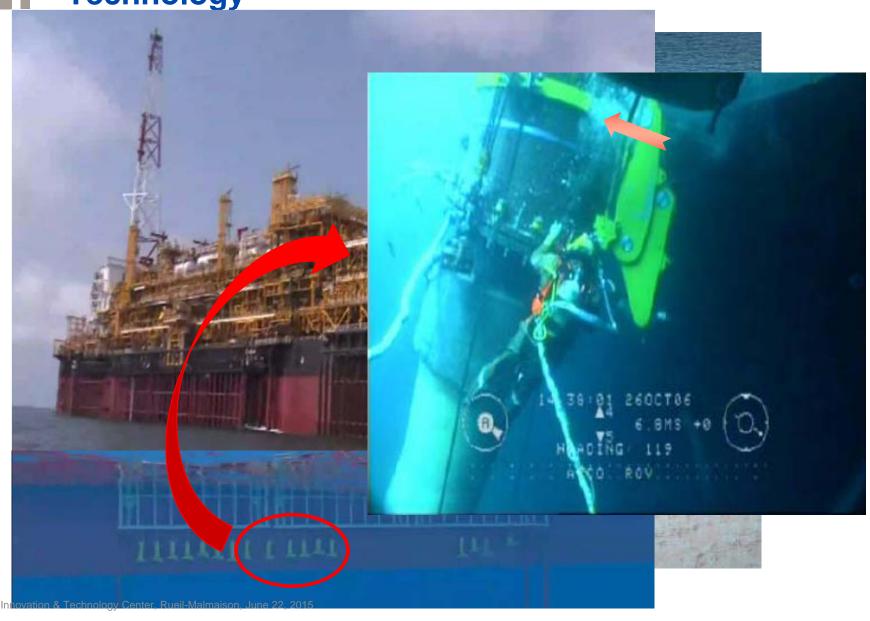
# **Evacuation of the Building**



# **Safety Moment**



Improving the Safety of our Operations through Technology



# Proactive Response to the Current Market Challenges





# **Challenges Today in the Oil and Gas Industry**

## In terms of activities and type of reservoirs...



## ...and impact from lower oil price

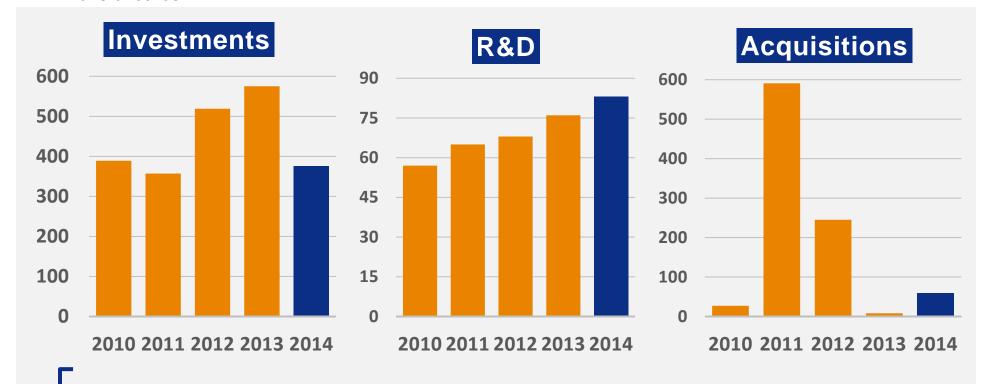
- Consequences for the industry:
  - Client capex discipline
  - Cost reduction necessary by supply chain
  - Consolidation of contractors and operators in the oil and gas sector
  - Projects moving to the right





# Technip's Sustainable Investments to meet Today's Challenges

in millions of euros



Maintain our competitive advantage through strategic investments, acquisitions and alliances



# **Technip's Strategic Market Orientation**



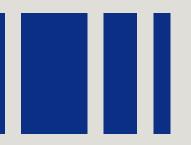
- Ageing infrastructures
- Flow assurance & recovery rates
- Ultra-deepwater reserves: towards 4,000 meters
- Difficult reservoir conditions
- Arctic

**Quality & Reliability** 

**Cost effectiveness** 

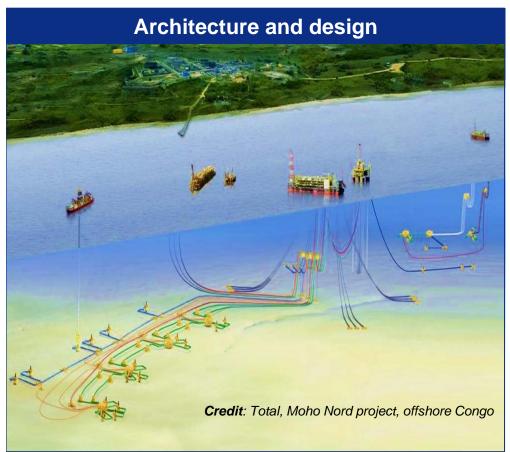
Technip

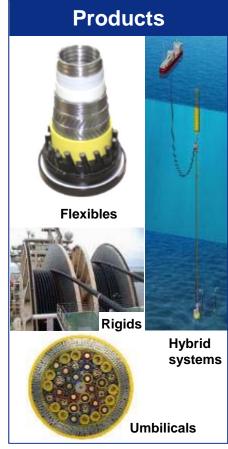
# **Technip's Subsea Business Adapted to the New Environment**





# **Vertical Integration Leveraging Capabilities**



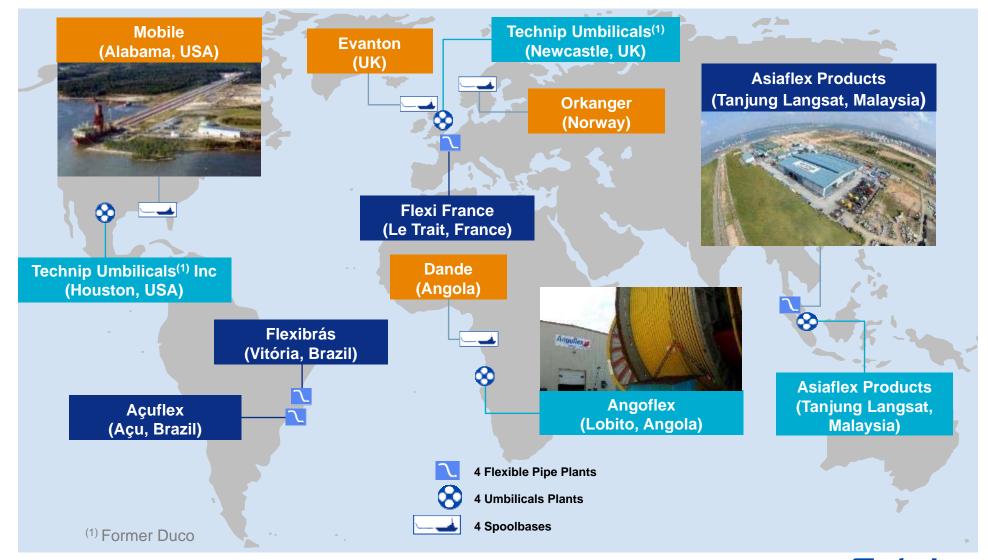








# Technip's Manufacturing Plants and Spoolbases around the World





# **Açu Plant: One of the Most Technologically Advanced Flexible Pipe Plants Ever Built**

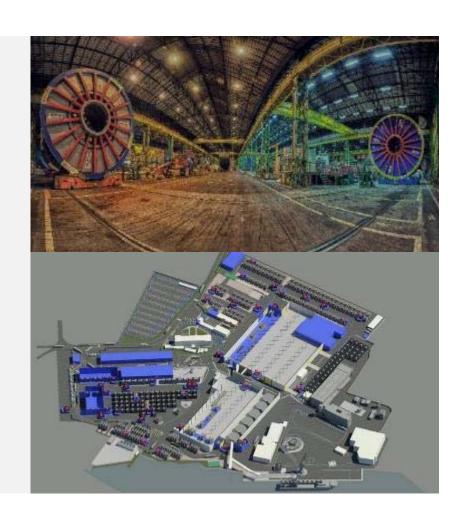
- High-tech solutions for 3,000 meters water depth:
  - Largest high-end flexible pipes with diameter up to 22"
  - Largest & heaviest reels
  - Thickest carcass machine
  - Zeta and Teta & PSI profiles for high-end & ultra deepwater application
  - Armouring machine designed for presalt wires including carbon fiber armour
- High utilization with current projects:
  - Sapinhoa Norte
  - Iracema Norte
  - Iracema Sul
  - Lula Alto
- Strategically located to serve the future demand of Brazilian fields





# FlexiFrance Modernization to Reinforce its Global Position in the Production of Flexible Pipes

- €68 million investment over 4 years
- Strengthening Technip's expertise and industrial capabilities
- Prepare plant for global ultra deepwater market with similar capacities to Açu
- Upgrade focus:
  - Increasing reel diameter from 9.6m to 12m, doubling the reel pipe storage capacity
  - Installation of new-generation machines and site optimization to accommodate new reels
  - Creation of a new area dedicated to testing some of the world's most sophisticated flexible pipes







# Newcastle Plant Upgrade: World's largest and most capable steel tube umbilical facility

- Designed to serve the future needs of the industry for larger, more complex and longer umbilicals
- State-of-the-art instrumentation and control systems, as well as integrated steel tube welding station to deliver first class quality
- Large storage carousels
- Perfectly located at Newcastle upon Tyne adjacent to the existing thermoplastic facility with deepwater berth





# Technip's Differentiation through its Fleet Strategy

### Broad capabilities from deep to shore

Flexible-Lay & Construction, S-lay, J-Lay, Rigid Reel-Lay, Diving Support

Fleet flexibility through mix of contract types

full-owned, jointly-owned, long-term and short-term charters and leases

### Top tier assets

Heerema alliance for deepwater projects
Flexible pipelay PLSVs for Brazil
Diving assets for North Sea and Canada
Construction vessels for complex West African projects









Track record & good utilization worldwide



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# **Skandi Africa and Deep Explorer: Two High-end Vessels to Join our Fleet**



- Dedicated to deepwater projects in Africa
- Largest flexible-lay capacity vessel (650t) similar to the new Brazilian PLSVs
- Delivery scheduled in Q4 2015



- Dedicated to North Sea and Canada for diving support market
- Sister ship of Skandi Arctic: interchangeability and cost saving efficiencies through standardization
- Delivery scheduled for 2016

Sustaining our competitive position in different markets

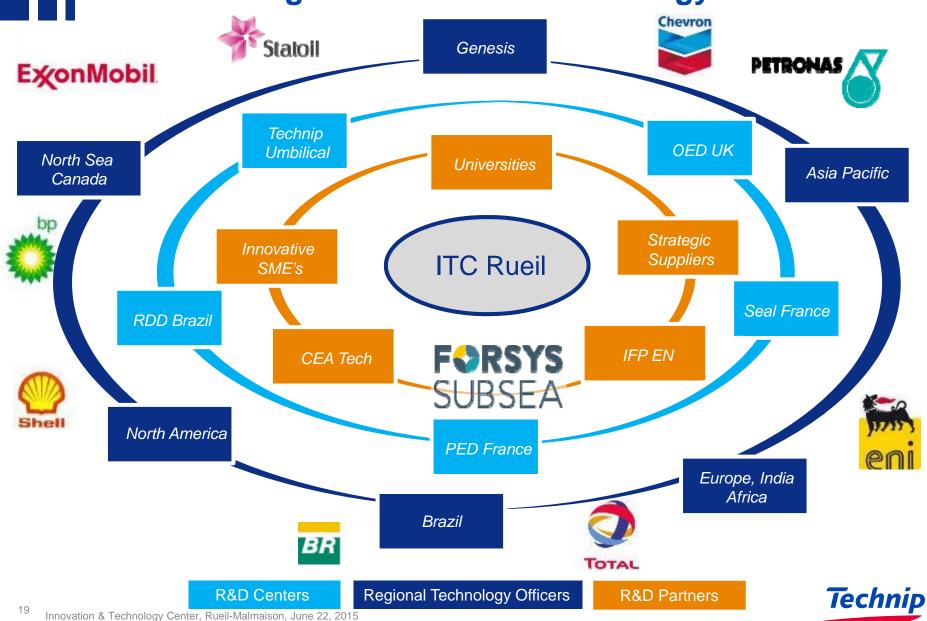


# Pursue Differentiation through Technology and Innovation





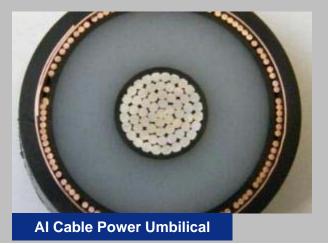
# **Coordinating our Enhanced Technology Network**

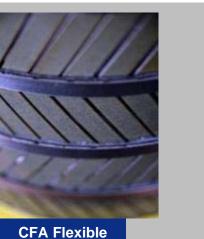


# **Developing Innovative Technologies**

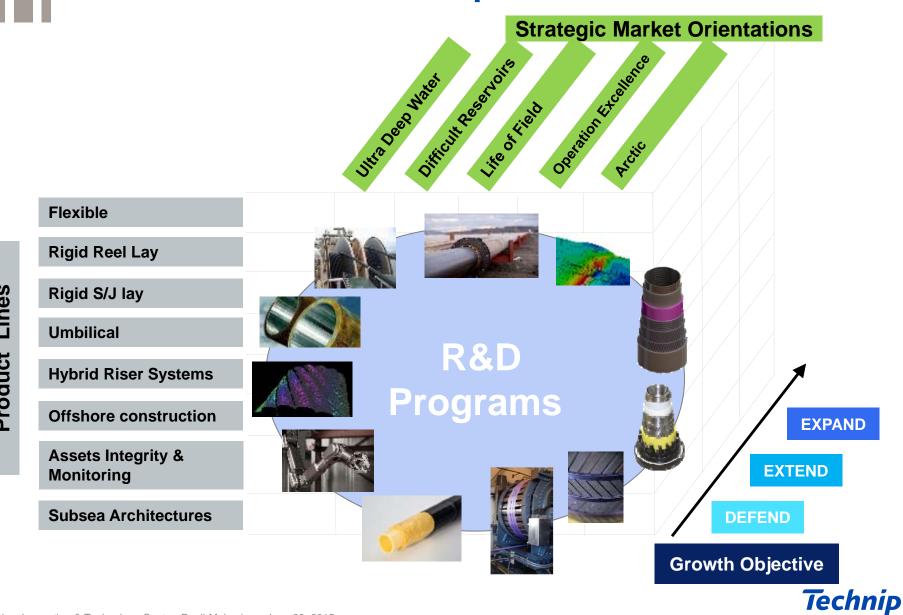








## A New Framework to Map our R&D Efforts





# **Examples of Technology for each of our Growth Objectives**

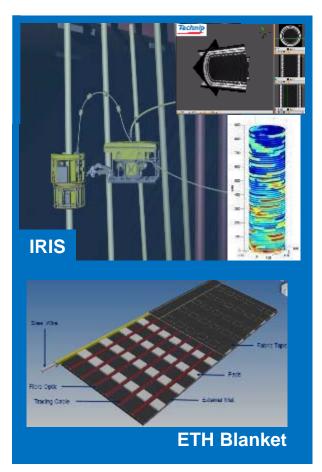
## **DEFEND**



## **EXTEND**



## **EXPAND**







## **Key Take-aways**

- Sustain R&D efforts on all of our product lines
- Open innovation and increased technology collaboration with our clients
- Pursue our leading competitive edge with differentiating technologies and assets
- Focus on making our client's projects economically viable

Think technology, think Technip





