



Wells Fargo Deepwater & Subsea Technology Forum

Brad Beitler, Executive Vice President

November 29, 2018



Disclaimer

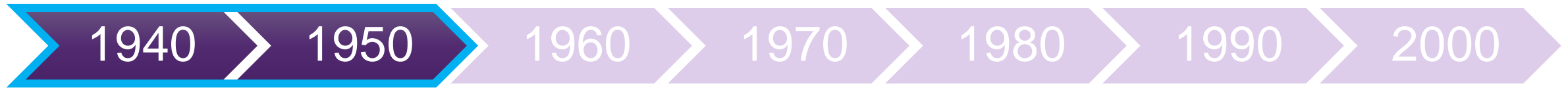
Forward-looking statements

We would like to caution you with respect to any “forward-looking statements” made in this presentation as defined in Section 27A of the United States Securities Act of 1933, as amended, and Section 21E of the United States Securities Exchange Act of 1934, as amended. The words such as “believe,” “expect,” “anticipate,” “plan,” “intend,” “foresee,” “should,” “would,” “could,” “may,” “estimate,” “outlook” and similar expressions are intended to identify forward-looking statements, which are generally not historical in nature.

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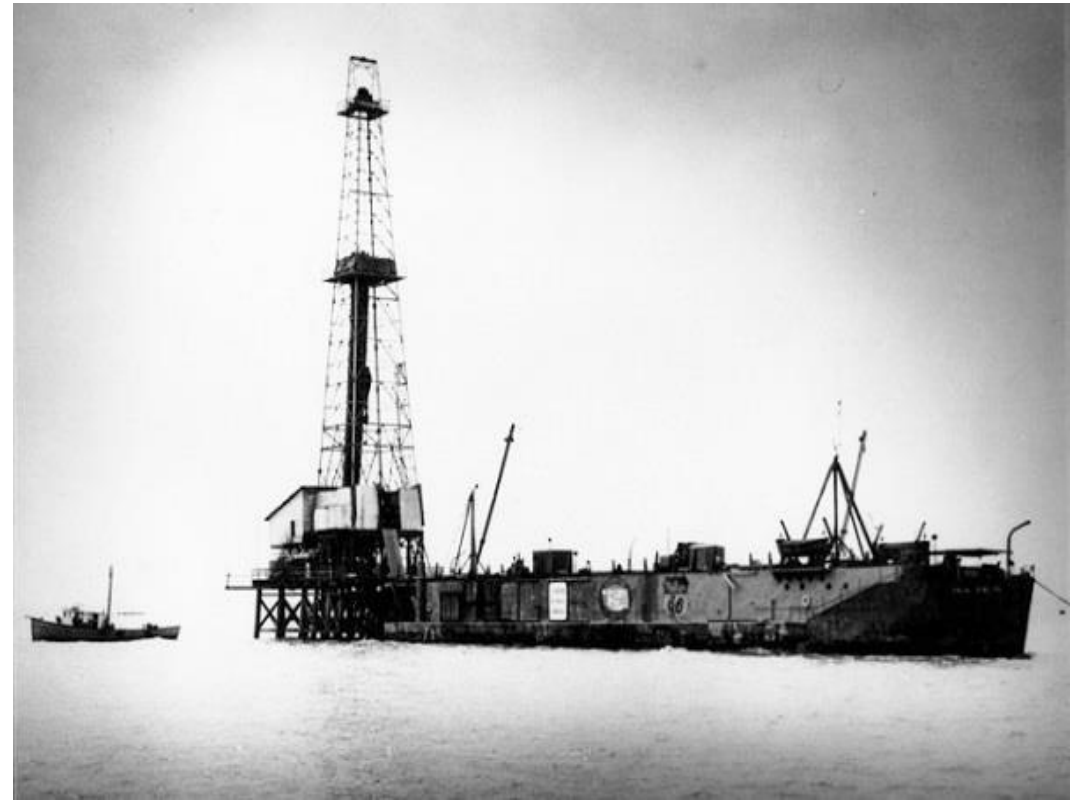
We caution you not to place undue reliance on any forward-looking statements, which speak only as of the date hereof. We undertake no obligation to publicly update or revise any of our forward-looking statements after the date they are made, whether as a result of new information, future events or otherwise, except to the extent required by law.

In the beginning



- > Wells had been drilled for years in swamps and very shallow waters close to shore
- > New offshore seismic technology revealed promising geology in deeper waters (~400 feet)
- > Kerr-McGee (Anadarko Petroleum) drilled the first offshore well out of sight of land in 1947

From the shallow shelf of the Gulf of Mexico emerged a new industry



Offshore soon became an emerging industry

1940

1950

1960

1970

1980

1990

2000

- > Following Kerr-McGee's bold step, offshore areas like the Gulf of Mexico, North Sea, and West Africa became home to giant platforms
- > Platforms were economically justified with large oil and gas fields in deeper waters, but not all discoveries supported this approach
- > In order to make smaller fields economic, wells were completed and placed on the seabed to flow to nearby existing platforms



Subsea completions



Shallow Water
1960s



Fire Safe Valves Under Platform
1968

The first subsea completions were born

Early subsea technology explored many options

1940

1950

1960

1970

1980

1990

2000

- > As subsea completions gained credibility, major oil companies invested heavily in technologies to cope with deeper waters and higher pressures
- > Major oil companies created large underwater production centers in the Gulf of Mexico and North Sea; similar work soon followed in Brazil

Early innovations in deepwater technologies serve as the foundation for applications still in use today



**Petrobras Garoupa
One-atmosphere Tree
1975**



**Petrobras Enchova
Diver Assist Tree
1979**

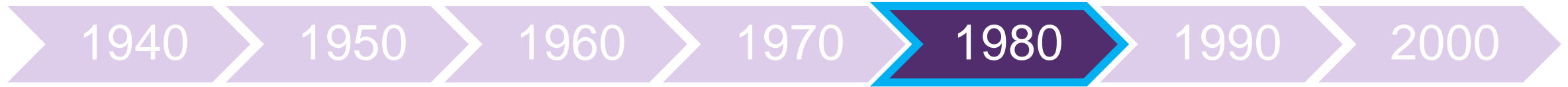


**Shell Expro Cormorant
Underwater Manifold Center
1979**

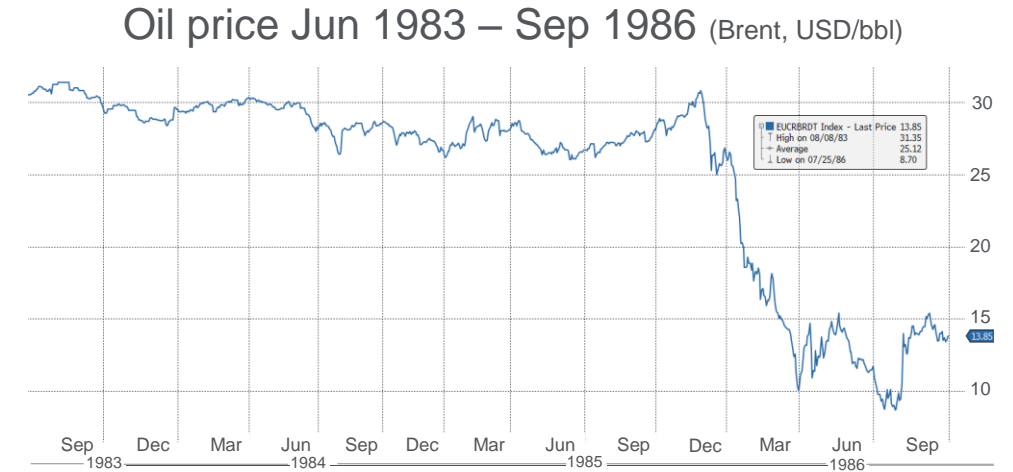


**Flexservice 1
First Flexible Reelbarge
1979**

Further development was slowed by a cycle turn in the 1980s



- > The price of oil declined significantly in 1986, forcing the industry to reduce investment and dramatically downsize
- > Subsea technology development was still funded despite the uncertainty, albeit at much lower levels
- > North Sea operators continued to innovate with new subsea technology; floating production systems were piloted in the UK / Norway before moving to Brazil and Africa



Source: Bloomberg LLP



Statoil Heidrun
Norway 1985



Statoil Gullfaks
Norway 1986



Buchan Alpha
UK 1974

Subsea technology investment slowed with the commodity cycle, but innovation continued

Back on track, subsea goes mainstream

1940

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2000

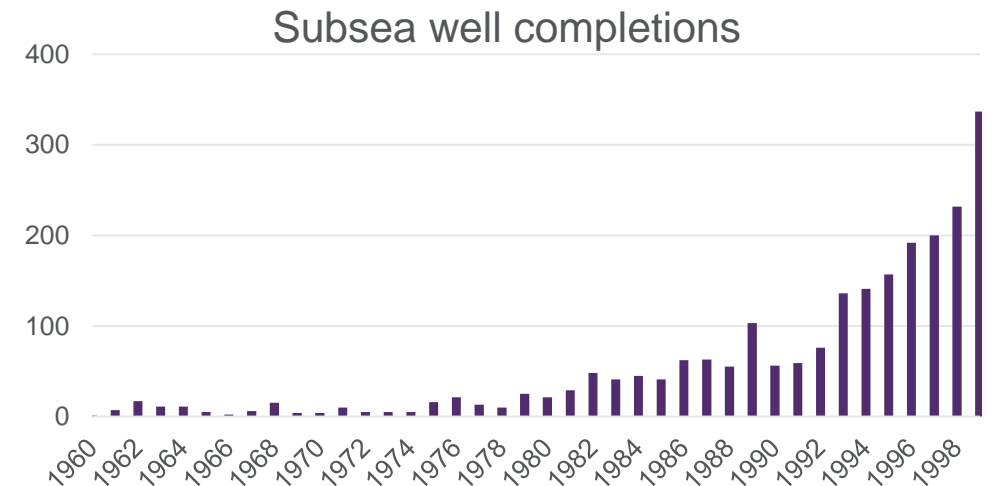
- > Major oil companies were buying leases and drilling successful exploration wells in the emerging deepwater market (>3000 feet)
- > With a high level of deepwater prospects, subsea technology was required to enable:
 - > Increased water depths
 - > Higher pressures
 - > Longer offset distances
 - > Diverless operations
- > With strong demand for subsea completions, Technip and FMC Technologies (FMCTI) strategically entered deepwater; FMCTI formed an exclusive alliance with Shell Offshore



Statoil HOST System
North Sea 1995



Shell Mensa Manifold
Gulf of Mexico 1997

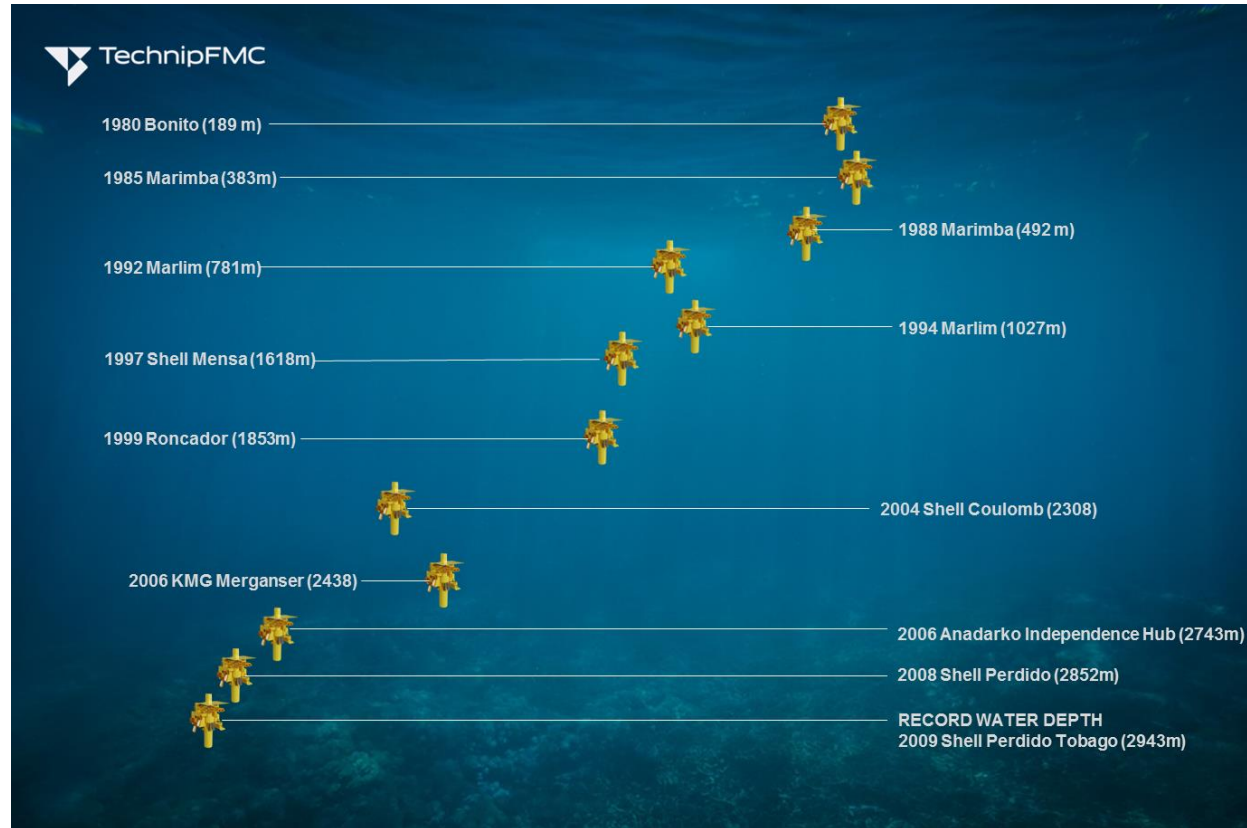


Source: Wood Mackenzie

“We foresee a time when subsea-based systems are the first consideration for deepwater field development.”

Shell/FMCTI Alliance Charter document (1995)

TechnipFMC emerges as a leader in product innovation



Enhanced Vertical Deepwater Tree



Subsea Processing



Riserless Light Well Intervention



HP/HT 15K Subsea Tree



TechnipFMC led technological advancements in subsea production equipment

Demonstrated track record of developing innovative, “next generation” technical solutions

- > Pioneered flexible pipe technology in the 1970’s
- > Remain at the forefront of flexible pipe innovation with cutting-edge technologies
- > Addressing new challenges of deepwater fields through development of next generation Hybrid Flexible Pipe



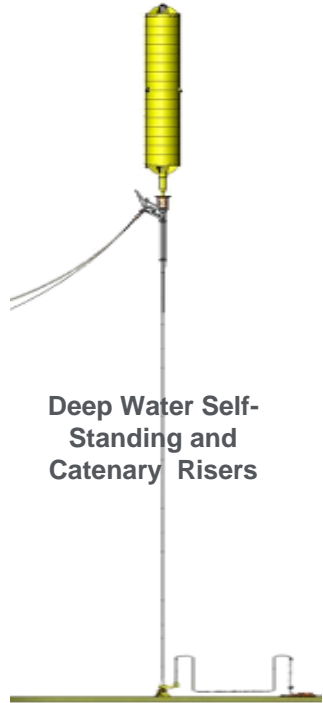
Original Coflexip Flexible Pipe



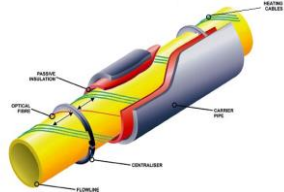
State-of-the-Art Installation Assets and Methods



Spar Platform



Deep Water Self-Standing and Catenary Risers



Heated Flowlines



Hybrid Flexible Pipe

1970's 1980's 1990's 2000's 2010's and beyond

TechnipFMC pioneered flexible pipe technology; more than 10,000km of TechnipFMC flexible pipe have been installed worldwide

With innovation came highly complex, customized solutions

1940

1950

1960

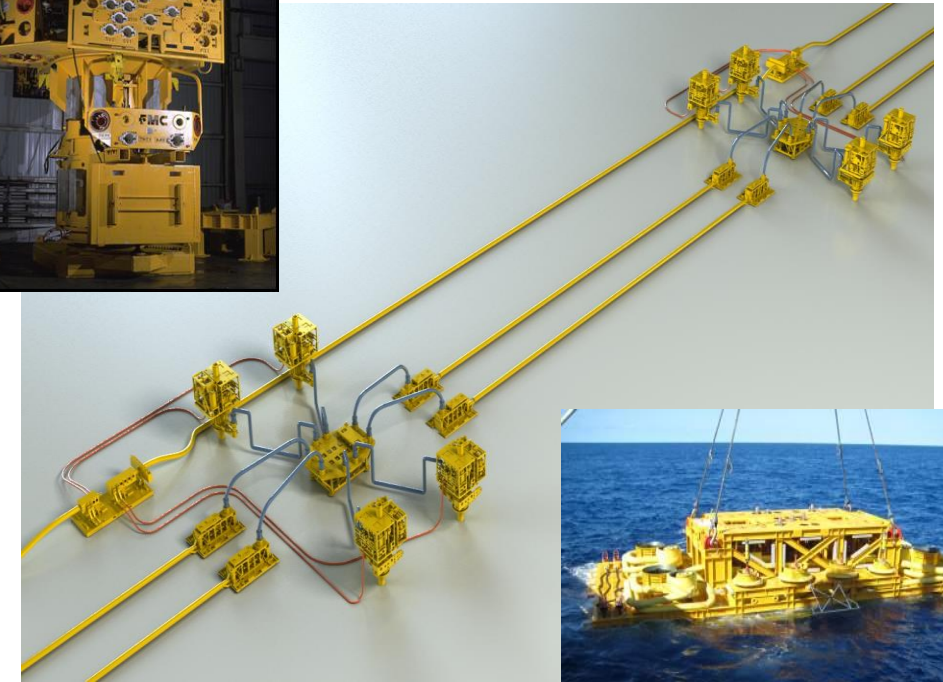
1970

1980

1990

2000

- > Strong client relationships and alliances allowed us to develop and deploy new technology
- > However, each client defined a different standard to meet their detailed requirements
- > Demand was high and lead times were long, while solutions became highly customized

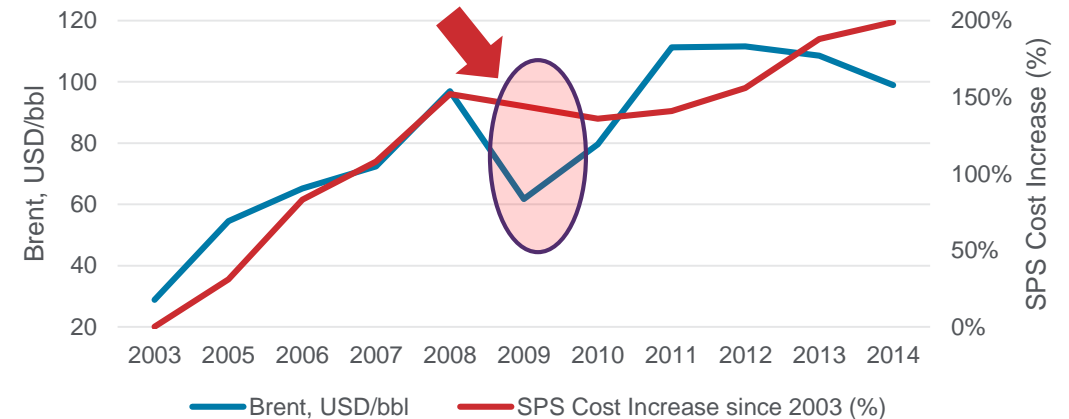


Costs quickly escalated due to strong demand, low repeatability, and high customization

2008 was a setback, but it should have been a wake-up call

- > Many clients defined a different standard to meet their requirements
- > The high cost of customization was further impacted by the long lead times created by surging subsea demand
- > Despite high commodity prices, operator returns declined as subsea equipment costs increased

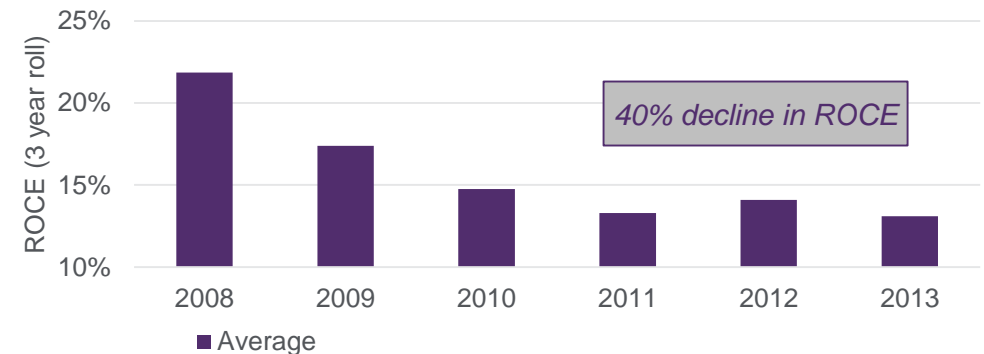
Subsea production equipment cost vs Brent



Source: Wood Mackenzie, Equinor

Even with oil prices exceeding \$100/barrel, the industry was challenged by high cost developments, low financial returns, and declining subsea demand

Diminishing operator returns (ROCE)



Source: Bloomberg LLP; average ROCE (return on capital employed)
Includes APC, BP, CVX, COP, XOM, RDS, EQNR, TOT

It was time to think differently...

A new approach – lean, simple, and standardized solutions

TechnipFMC's solution: **Subsea 2.0™**

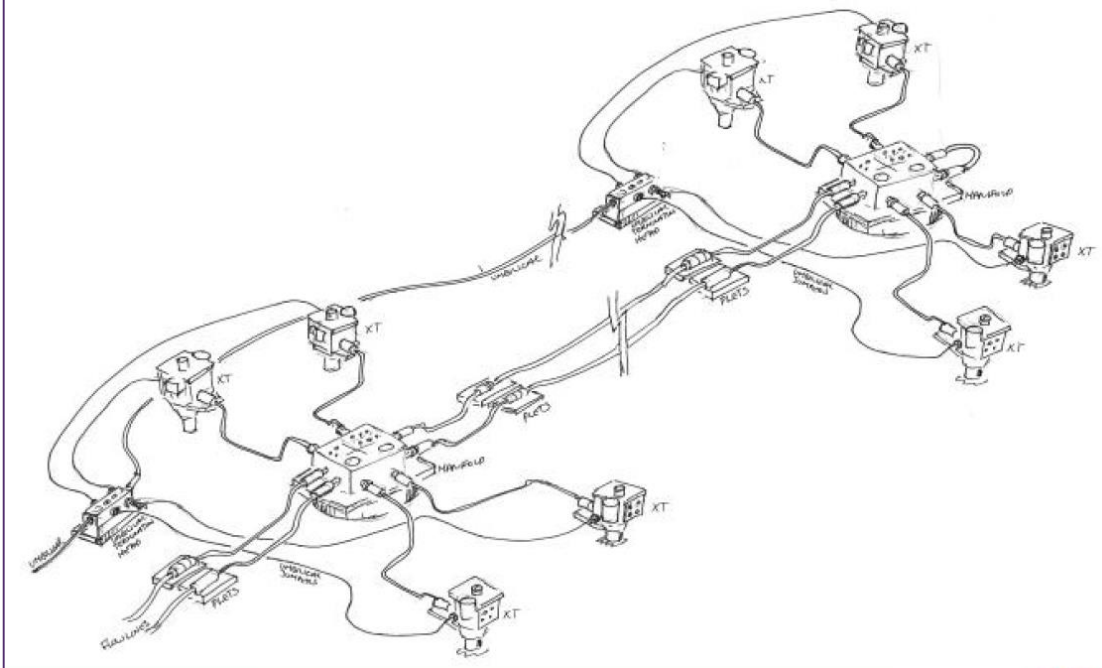
- > 50% reduction in part count
- > 50% reduction in weight and size
- > Modular architecture – configured to order
- > The same or greater functionality

Reducing lead times and improving installability to make subsea projects leaner, simpler, and more standardized

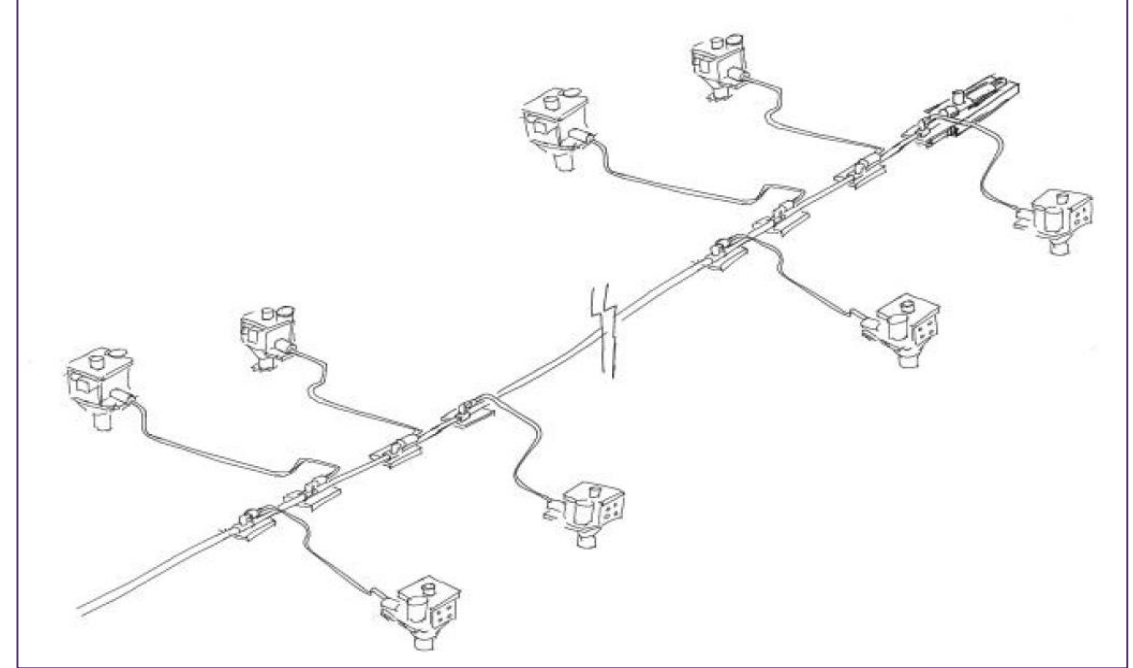


Subsea 2.0™ also enables lower cost, integrated field architecture

Traditional approach

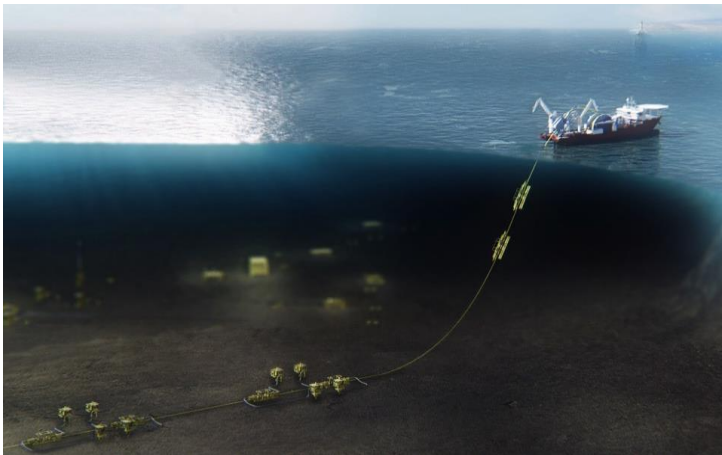


Subsea 2.0™ an enabler to iEPCI™



A field design incorporating Subsea 2.0™ and iEPCI™ can remove over half of the subsea structures while maintaining the same field operability

Making subsea short-cycle with Subsea 2.0™ + iEPCI™



TechnipFMC is changing the subsea paradigm from a long-cycle to a short-cycle business, using Subsea 2.0™ and a truly integrated approach (iEPCI™) to field development

The industry is changing; iEPCI™ is being adopted

Repeat oil majors



- Gumusut-Kakap
Malaysia

Phase 2
expansion project

- Kaikias
Gulf of Mexico

Phase 1
development
project

*“The most
competitive subsea
development in the
Gulf of Mexico”
Shell, May 2018*



- Trestakk
Norwegian Sea

Industry's first
iEPCI™

- Visund Nord
Norwegian North Sea

Improved Oil
Recovery (IOR)

*“A new ‘fast-track’
record for Equinor”
Equinor, September 2018*

Innovative independents



- Who Dat
Gulf of Mexico

Multiphase Pumping
System



- Fenja
Norwegian Sea

Longest application
of Electrically Trace
Heated pipeline in
the world – 37km



- Lancaster
UK North Sea

Early Production
System

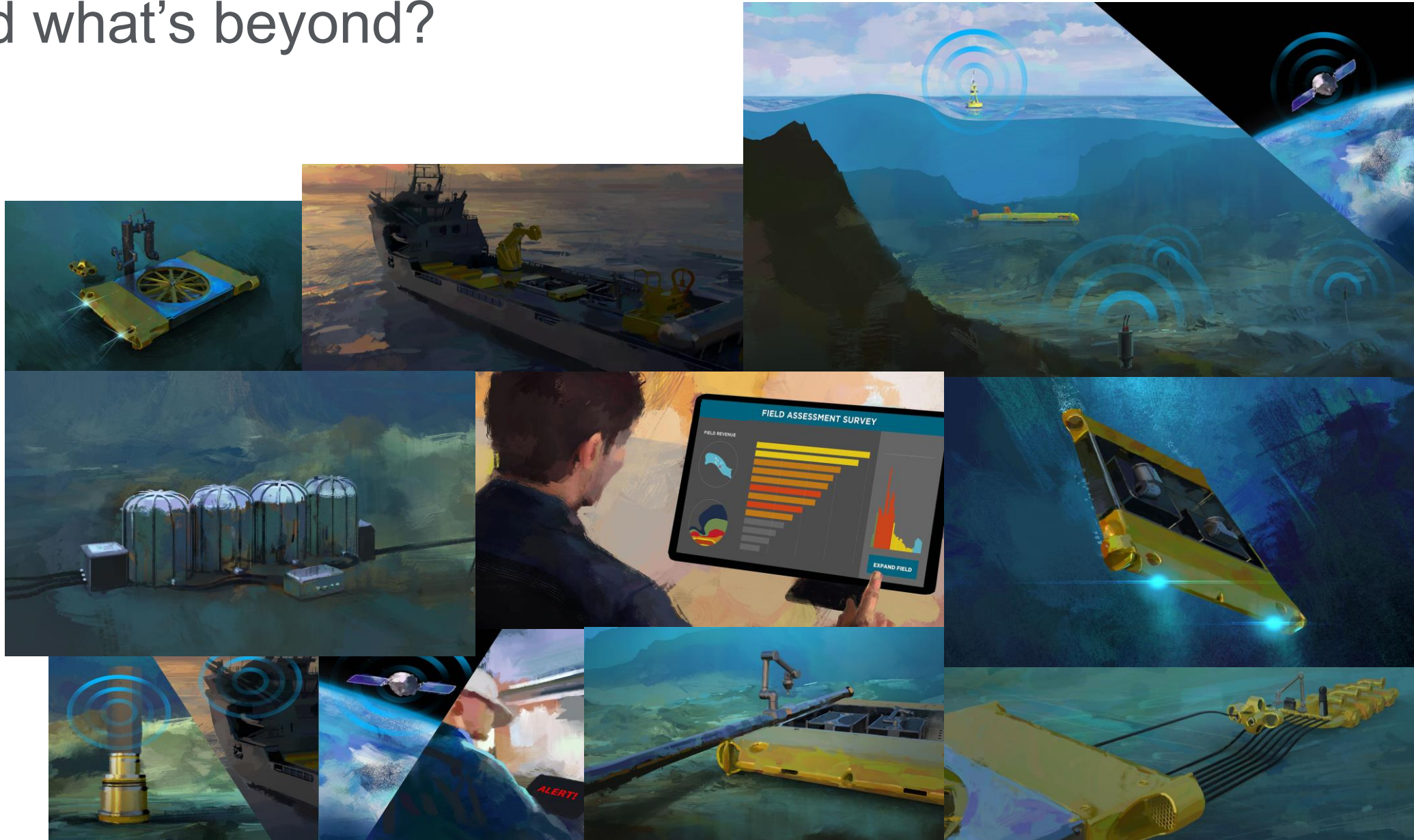


- Karish
Israel

Full field
development –
subsea and FPSO

With fast adoption – from both repeat customers and innovative independents – and a diverse geographic spread, TechnipFMC is at the forefront of this changing landscape

And what's beyond?





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