

Asset Security in Oil & Gas

An opportunity for new technology and collaboration



5/13/2019

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One vision. One purpose. Vision Purpose Bringing together the To enhance the performance of the scope, know-how world's energy industry and determination to transform our clients' project economics



TechnipFMC snapshot

1

Integrated solutions provider for the oil and gas industry

2

Stock exchange listings – NYSE and Euronext Paris

\$10B

Total company market capitalization¹

\$13B

Total company revenue²

\$15B

Total company backlog³

\$6B

Total company cash balance⁴



¹ Public market quote from Bloomberg, LLP; TechnipFMC market capitalization as of February 21, 2019.

² Revenue as of December 31, 2018; Source: Form 8-K filed with the SEC on February 20, 2019.

³ Backlog as of December 31, 2018; Source: individual company data as found in Form 8-K filed with the SEC on February 20, 2019.

⁴ Cash and cash equivalents as of December 31, 2018; Source: Form 8-K filed with the SEC on February 20, 2019.



2018 results











▶ Total Company

Revenue

\$12.6bn

Adjusted EBITDA*

\$1.5bn

Inbound orders

\$14.3bn

Year-end backlog

\$14.6bn

Business segment highlights

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Subsea

Revenue

\$4.8bn

Adjusted EBITDA

Inbound orders

\$5.2bn

Backlog

\$6bn

We successfully delivered three IEPCI™ projects, two for Equinor and one for Shell's Kaikias development

Our services business returned to growth and was awarded a master services agreement by Petrobras in Brazil

Onshore/Offshore



Revenue

\$6.1bn

Adjusted EBITDA

Inbound orders

\$7.4bn

Backlog

\$8.1bn

A strong execution performance helped us deliver Trains 2 and 3 early for Yamal LNG in Russia. Train 3 was 12 months ahead of schedule 2018 was the second highest inbound level for Onshore/Offshore in the last decade and our competitive advantage drives industry-leading returns

▶ Surface Technologies ∘



Revenue

\$1.6bn

Adjusted EBITDA

\$260m

\$1.7bn

/

\$470m

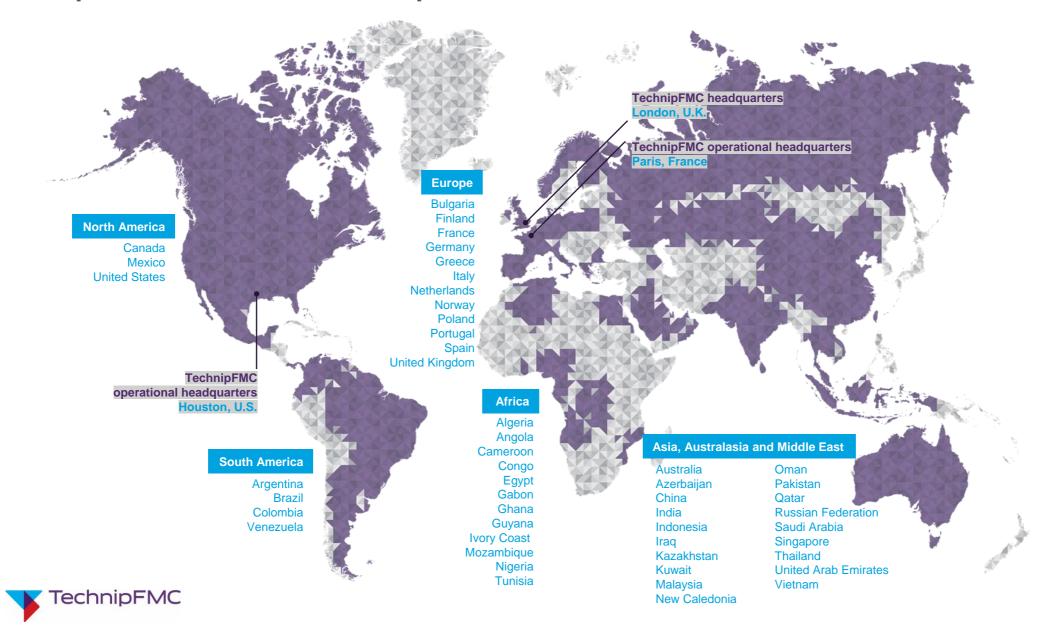
Backlog

Total segment orders grew by 36 percent percent, driven by 70 percent growth outside the Americas

Our frame agreement with Chevron leverages the value we create through our integrated drilling and completion offering

*Adjusted EBITDA is a non-GAAP measure. Adjusted EBITDA as presented excludes the impact of charges and credits from continuing operations as identified in the reconciliation of GAAP to non-GAAP financial schedules. A "large" award ranges between \$500 million and \$1 billion (TechnipFMC share).

Unique worldwide footprint



Broadest portfolio of solutions for the oil & gas industry **ONSHORE/OFFSHORE** Onshore facilities related to the production, treatment and transportation of crude oil and natural gas, as well as transformation of petrochemicals such as ethylene, polymers and fertilizers Combines engineering, procurement, construction and project management within the entire range of fixed and floating offshore crude oil and natural gas facilities **SUBSEA** SURFACE Products and systems used in deepwater exploration and production Products and systems used in offshore exploration and

- of crude oil and natural gas
- Systems used to control the flow of crude oil and natural gas from the reservoir to a host processing facility
- Integrated design, engineering, manufacturing and installation services for infrastructure and subsea pipe systems

- production of crude oil and natural gas
- Wellhead systems and high pressure valves and pumps used in stimulation activities for oilfield service companies
- Full range of drilling, completion and production wellhead systems



Comprehensive offering – from concept to project delivery and beyond

A unique global leader in oil and gas projects, technologies, systems and services

Onshore/Offshore Subsea Surface Project management, proprietary Subsea products ☐ Drilling, completion and production technology, equipment and early studies wellhead equipment, chokes, compact ☐ Trees, manifolds, control, templates, to detailed design valves, manifolds and controls flowline systems, umbilicals & flexibles ☐ Subsea processing ☐ Treating iron, manifolds, and ☐ Offshore reciprocating pumps for stimulation ☐ ROVs and manipulator systems Fixed platforms (jackets, self-elevating and cementing platforms, GBS, artificial islands) and Subsea projects floating facilities (FPSO, semi ☐ Advanced separation and flow-☐ Field architecture, integrated design submersibles, Spar, TLP, FLNG) treatment systems ☐ Engineering, procurement ☐ Flow metering products and systems ☐ Onshore Gas monetization, refining, ☐ Marine, truck, and railcar loading Subsea services petrochemicals, onshore pipelines, systems ☐ Drilling systems furnaces, mining and metals ☐ Installation and maintenance services ☐ Installation using high-end fleet ☐ Asset management & production ☐ Frac-stack and manifold rental and ☐ Services optimization operation services Project management consultancy, ☐ Field IMR and well services process technologies ☐ Flowback and well testing services



Subsea competitive strengths

Market leading positions built upon innovation and deep industry knowledge

Differentiated offering of integrated products, services: iFEED™, iEPCI™ and iLoF™

Technology advancements to drive greater efficiency and simplification



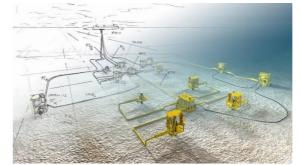










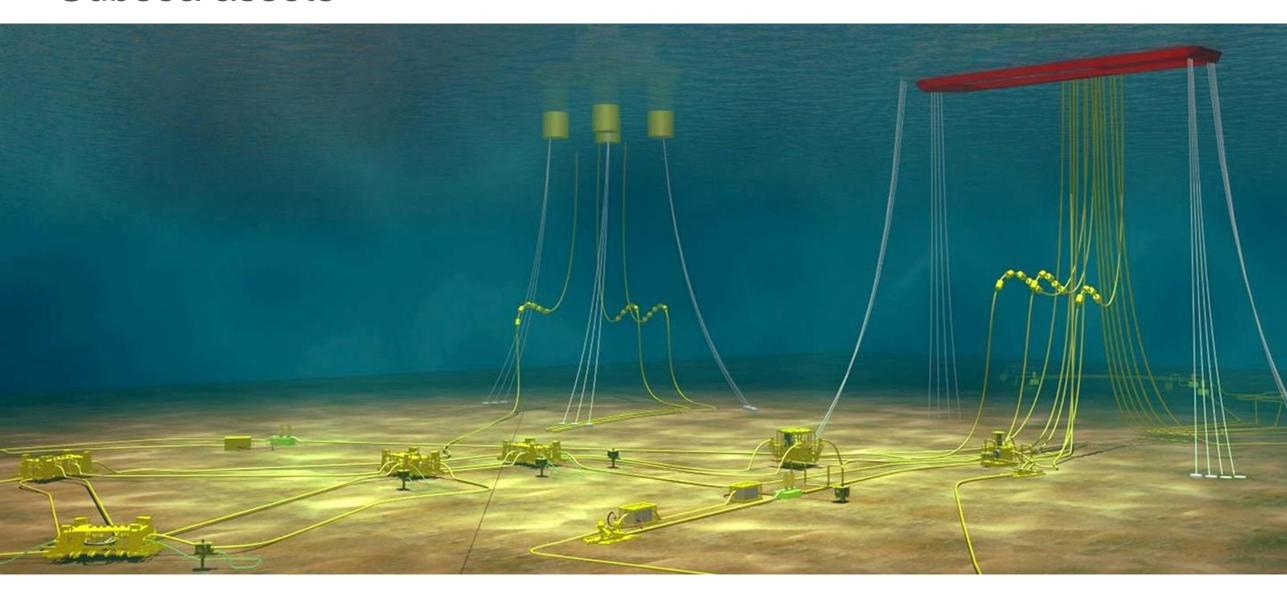




FEED Studies	Subsea Production Systems	Flexibles	Umbilicals	Installation	iEPCl™	Field Services
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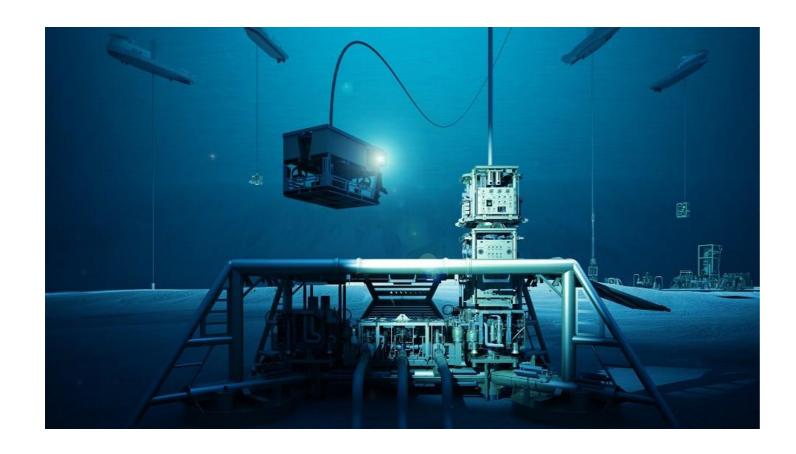


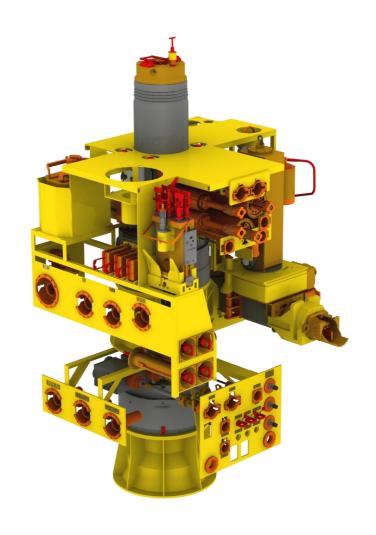
Subsea assets





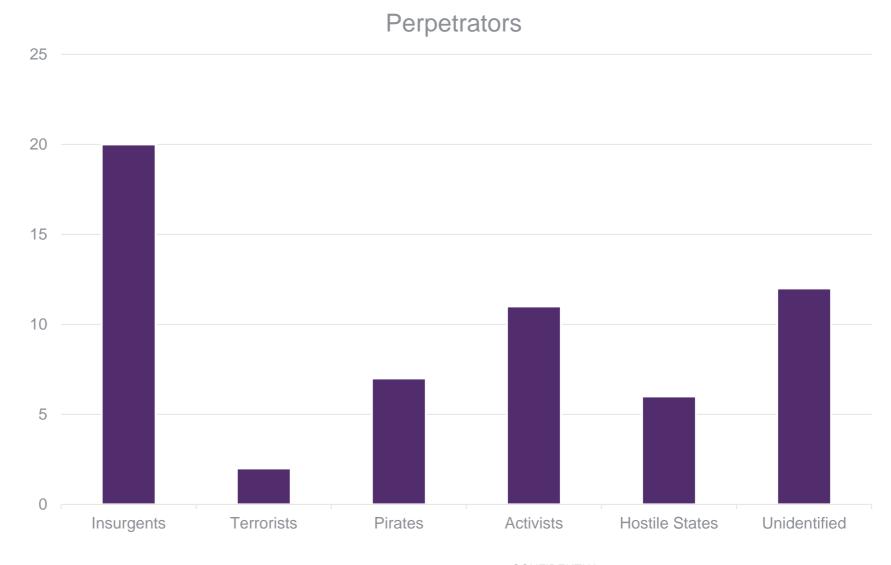
Subsea assets





Threats to asset security

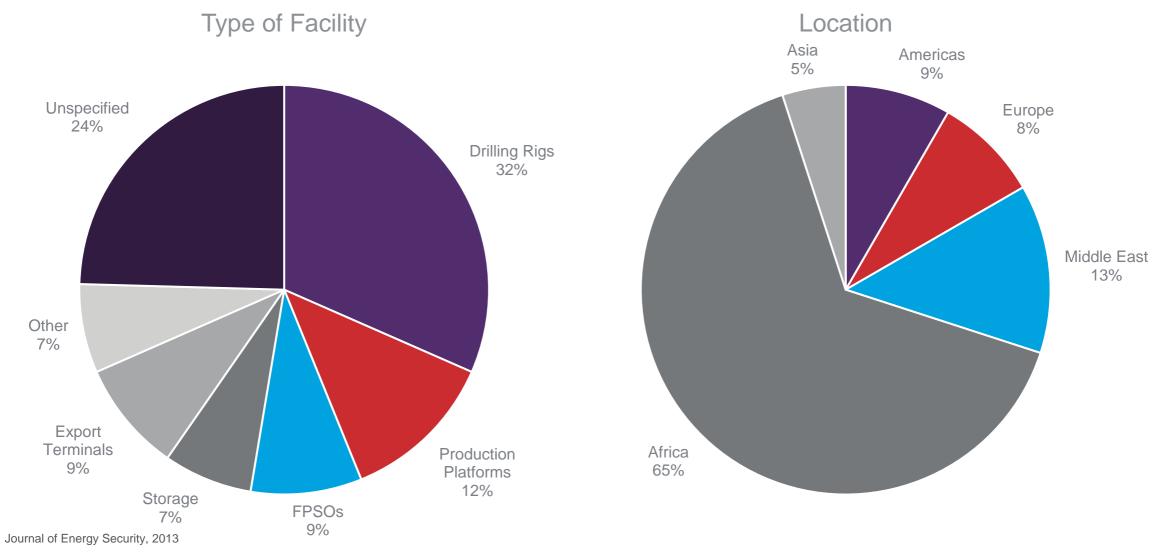
- 1. Piracy
- 2. Terrorism
- 3. Insurgency
- 4. Organized crime
- 5. Civil protest
- 6. Inter-state hostilities
- 7. Vandalism
- 8. Internal sabotage



Journal of Energy Security, 2013



Breakdown of 60 incidents





What's at stake?



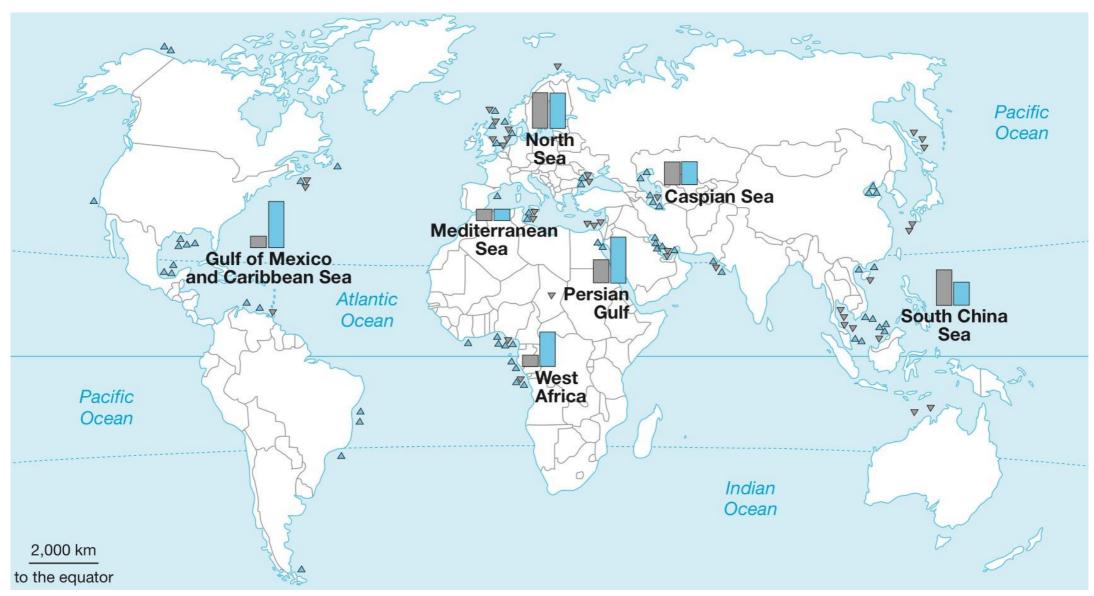






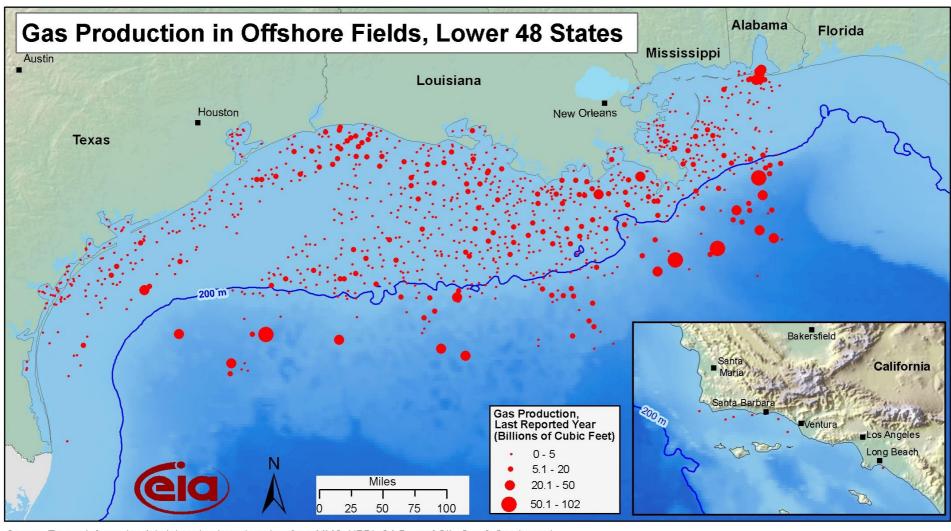


Asset distribution



EIA, 2016

Vulnerability - widely distributed



Source: Energy Information Administration based on data from MMS, HPDI, CA Dept of Oil , Gas & Geothermal Updated: April 8, 2009

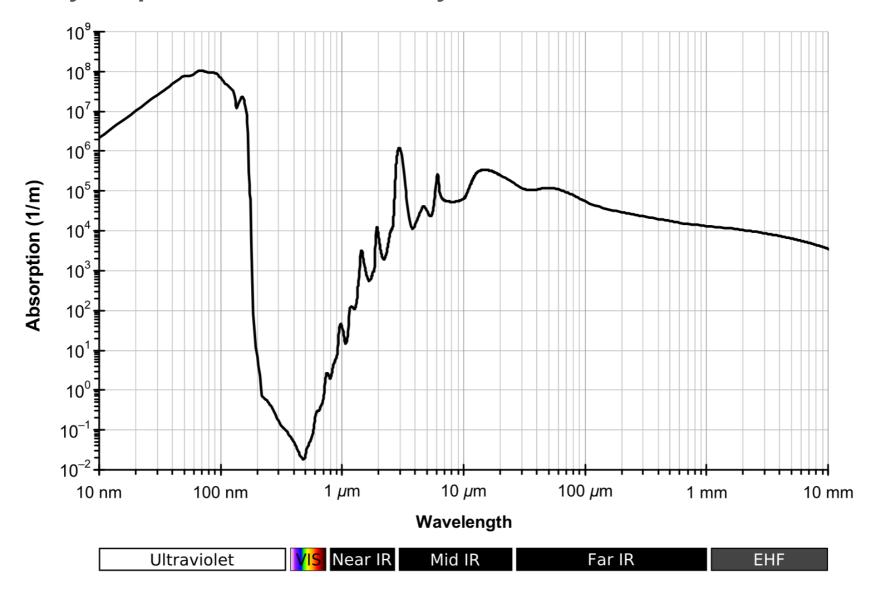


Vulnerability – low awareness



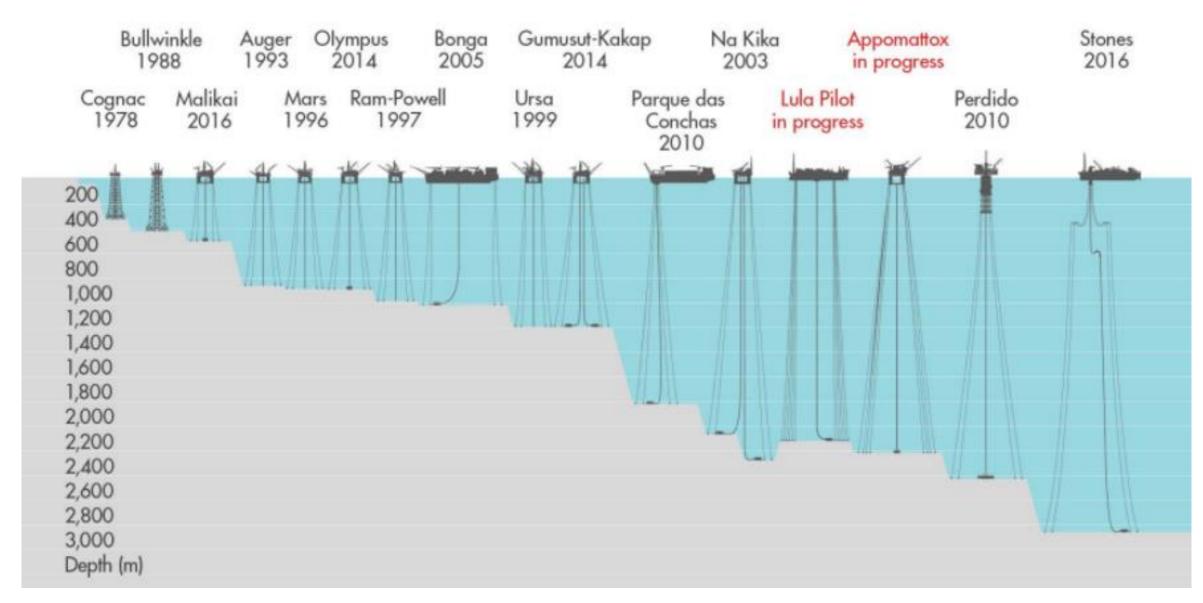


Vulnerability – poor connectivity

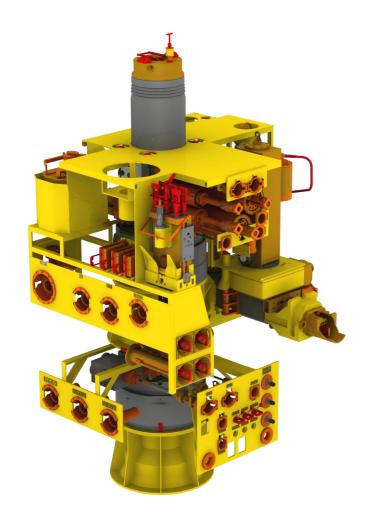




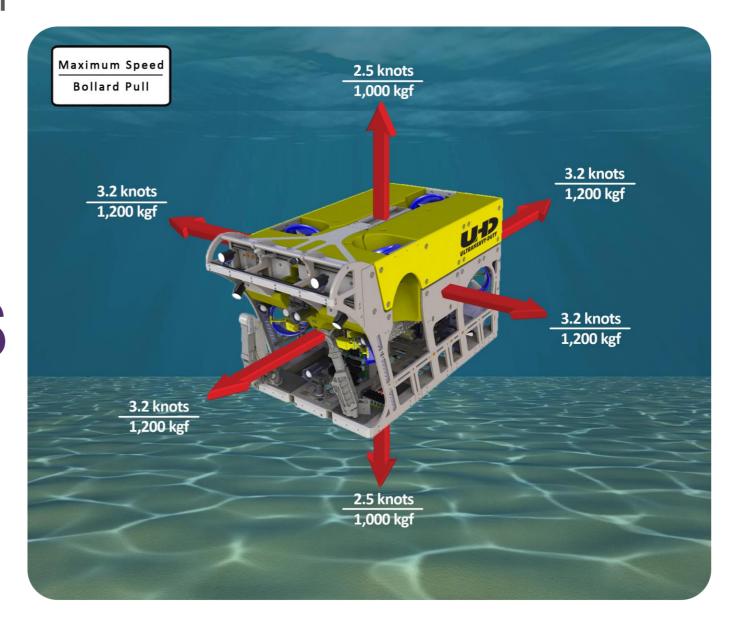
Protection - remote



Protection - robust design



VS



Right-sized production equipment – more vulnerable?









What can we do to better protect our subsea assets?





Pan industry effort to develop a subsea wireless network

Awareness

More ubiquitous sensing



Coverage & Response

Enables dynamic assets (supervisory controlled robots)





