Competitiveness of Deepwater Technology The E&P Innovation Chain of the Future - Disruptive, incentives, ideas.

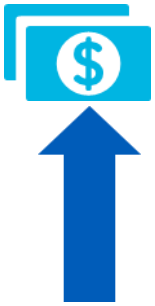
October 27th, 2016

Imagination at work

Deepwater Technology Competitiveness & Innovation

- How we can reduce the cost & increase productivity?

- Reduce Cost
  - Standardization
  - Simplification
  - Production process
  - …



- Increase Productivity
  - Water injection
  - Gas injection
  - WAG
  - Boosting (Pump & Compression)
  - …

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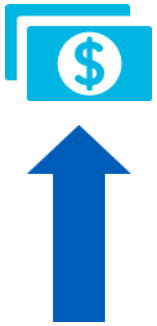
Deepwater Technology Competitiveness & Innovation

- How innovation can help?

- Reduce Cost
  - Advanced Drilling Methods
  - Unmanned platform
  - New materials
  - Design to Cost
  - Brilliant Factory
  - Additive Manufacturing
  - …



- Increase Productivity
  - Digitalization (Digital Twin)
  - Production Optimization Systems
  - Subsea Processing Systems
  - Pumps & Compressors
  - Subsea Electrification
  - Flow Assurance methods
  - …

Innovation is Key for increase deepwater competitiveness

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The physical and the digital worlds are meeting, all the way from wellhead to refinery.

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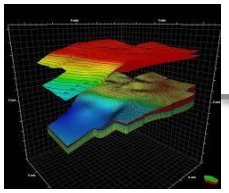
Subsea Smart Field - Digital Twin - Vision



Reservoir

Subsea Wells

Subsea Equipment

Equipment

Well

Reservoir

Production Optimization Systems

Equipment life / failure Prediction	Production system optimization Flow Assurance	Reservoir optimization
Customer Value	**Reduction of NPT**	**Higher production**	**Higher recovery**

GE Internal - For internal distribution only.
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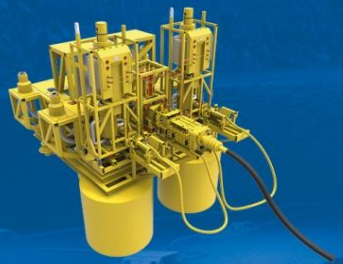
Subsea Power & Processing Systems



Boosting

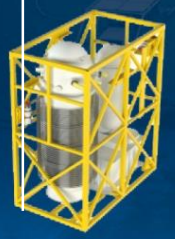
Compression

Separation

Seawater Injection

Power

GE Store

Subsea Systems	Power Conversion	Digital Solutions	Aviation	Turbomachinery Solutions	Well Performance Services	Power & Water
						

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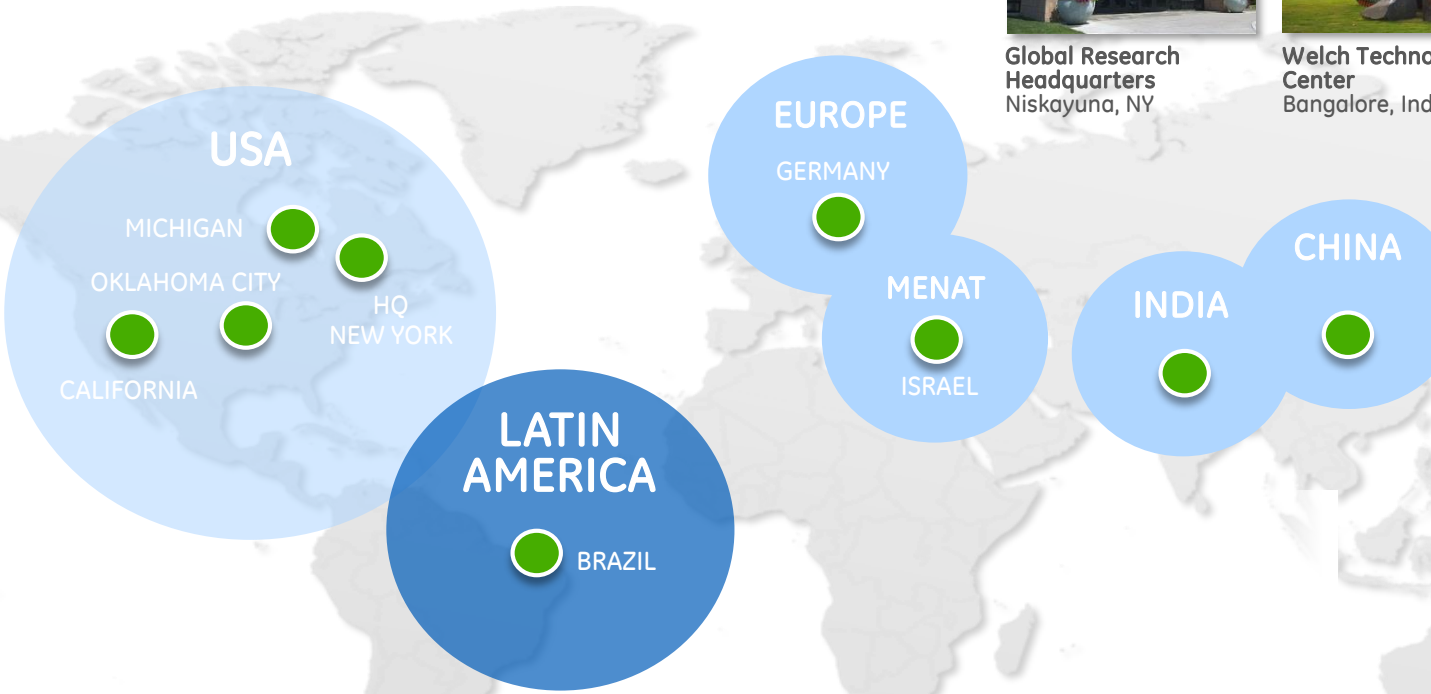

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