



GE OIL & GAS ANNUAL MEETING 2016 Florence, Italy, 1-2 February

Digital Industrial Transformation

Jeff Immelt Chairman and CEO GE

The world





BUSINESS COMMITMENT

Slow Growth Volatile Populism Invest to Win Accelerate Productivity Move Quickly



Global trends...Extraordinary times

3B

GROWTH IN GLOBAL POPULATION BY 2050 65%

GROWTH IN GLOBAL GAS DEMAND FROM 2010 TO 2040

International Energy Agency Market Report - January 2015 EXXONMOBIL - The Outlook for Energy: A View to 2040

50%

OF DEMAND FOR NATURAL GAS WILL BE MET BY LNG IMPORTS OR LOCAL PRODUCTION OF UNCONVENTIONAL GAS BY 2040 40+

YEAR AGING INFRASTRUCTURE IN MANY MARKETS



DEMAND FOR ENERGY WILL CONTINUE TO RISE DESPITE CURRENT VOLATILITY



THE PORTFOLIO: World-class technology businesses

GE STORE: Foundation for world-class performance

DIGITAL INDUSTRIAL: Leading a new productivity revolution

CULTURE OF SIMPLIFICATION: Speed and customer outcomes



VALUABLE: Win in the market, build with investors



What is the benefit from the larger GE organization? Driving innovation ... delivering at scale



- GE R&D spend
- 50,000 engineers
- 7 Global Research Centers, including the O&G-focused GTC
- 1 Advanced Manufacturing Center
- 13 O&G Technology Solutions Centers
- FastWorks approach ... entrepreneurial; poised to pivot

NEW ENABLING TECHNOLOGIES Physics based models Imaging and sensing Next-gen compression

NEW PRODUCT INTRODUCTIONS Validate technologies Aviation rigor Co-develop w/customers

LARGE-SCALE CUSTOMER PROJECTS

Systems-level thinking Rigorous design process Integrating the GE Store

Managing through cycles

Aviation (2001-03)

Engine shipments

-25%



- + Supported customer solutions
- + Lowered cost
- + Expanded capability

Long Term Technical Leadership







GE technology opportunity

Innovation approach

Reduce total system cost Increase recovery factor

Redesign system architecture Extend the digital thread

Develop disruptive technology Digitize for outcomes Automation Architecture Modularization Molecules that Matter



LNG

Subsea &

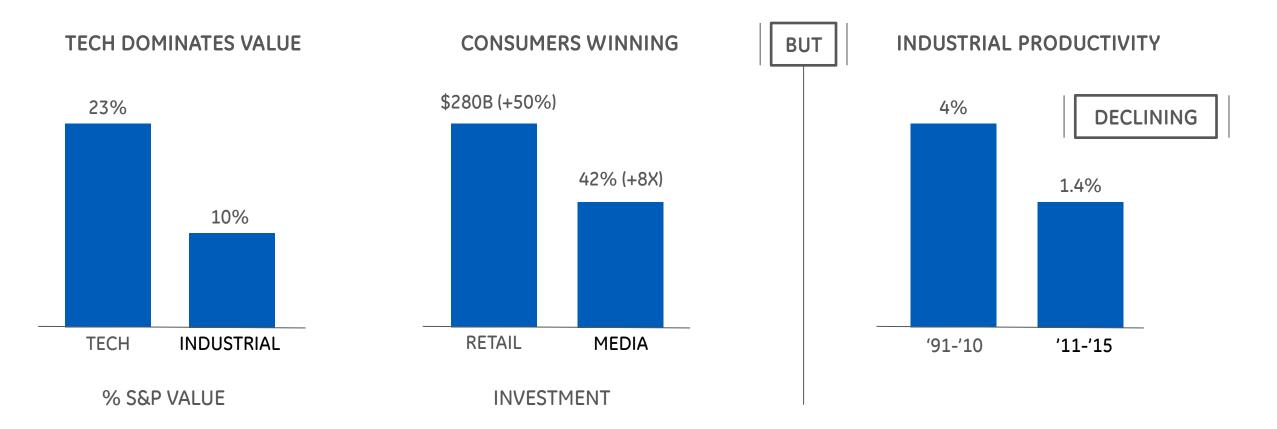
Offshore

Onshore & Unconventional

Outcome: Cost + Cycle + Throughput



Industry must go digital: It's our turn!



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- Industrials have not benefitted from internet investments
- Industrial Internet changes the game ... "Power of 1%"
- Opens up a \$225B market

Physical + analytical

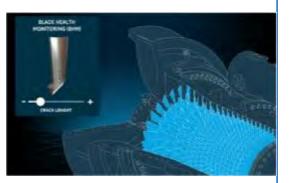
Physical

Multiple materials in complex systems — hundreds of patents in each product

Operating with high efficiency & durability in extreme conditions

Analytical

1 gas turbine
compressor blade
monitoring potential:
500 gigabytes per day



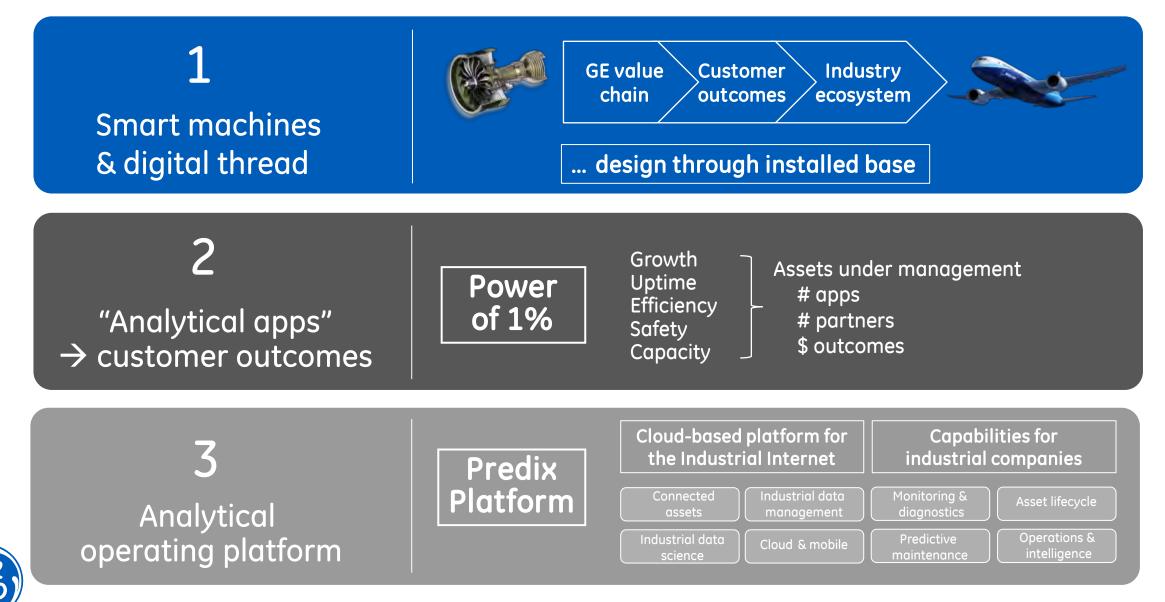
Capability of technology is changing

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Every industrial company must be a software & analytical company



Digital Industrial framework









Each week a well is out of commission offshore, lost revenue to operators is:

>\$3 MM per week

Benefits of Predictive Maintenance



Maximize production



Predictable delivery

Lower maintenance costs

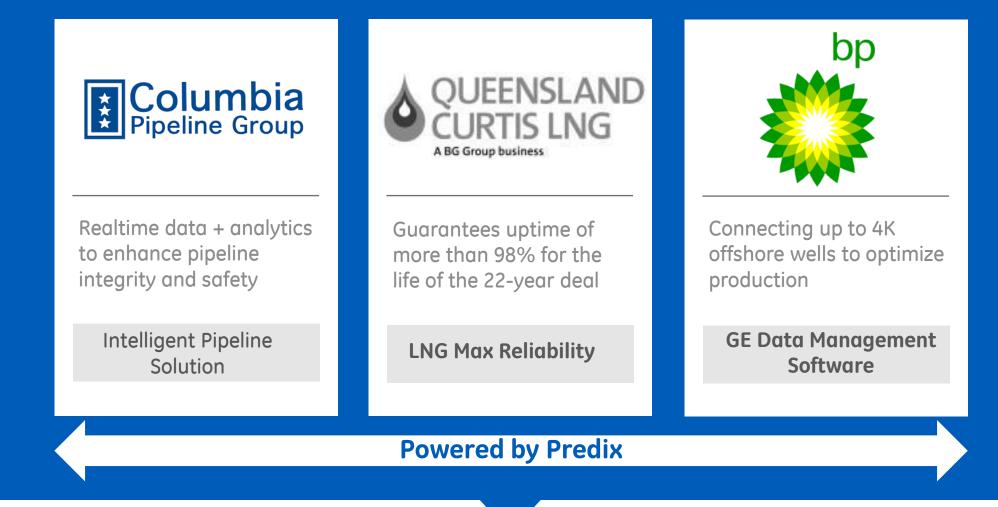


Workforce downtime



Average annual cost for a mid-sized LNG facility due to unplanned downtime is: \$150 MM

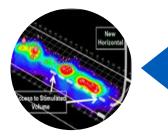
Digital Solutions: Outcomes for customers & industry





FLEXIBILITY = MORE EFFICIENT ASSETS AND OPERATIONS

Onshore O&G Solutions



DIGITIZING THE ROCK:

Connectivity to the reservoir – Digital rock physics – Intelligent geological inventories – Sweet spot mapping – At-the-bit sensing – Reservoir and fracture characterization – Reservoir visualization and flow characterization – Reservoir performance optimization and sustainment

GE Store

SMART IRON:

Downhole sensing – Flexible and reliable artificial lift solutions – AL evaluation, selection, and lifecycle planning – Integrated hybrid AL solutions – Automation – Precision brilliant drilling systems – Predictive production systems – Advanced instrumentation AL systems

Physical + Digital

r cosing DOWS

INVISIBLE OILFIELD:

Re-thinking hydraulic fracturing (initial, subsequent, and alternative stimulation) – Downhole processing – Downhole/Pipeline power induction – Harvesting natural reservoir energy – Multiphase fluid analysis – Remote operations – Zero discharge – Flexible, mobile, and modular fit-for-purpose water treatment – Secondary and tertiary recovery ecosystems

Yield @ Cost + Ecomagination

Consistency through a tough cycle

Build our team

- **Customer-centric regions** ... Aligning our footprint to match your needs (manufacturing/services localization); Partnership/collaboration at core
- **2** One commercial team ... making commercial interactions easier with global consistency
- **3** Technologically superior product companies ... Designing, building & delivering market-leading technologies
- **4** Lean enabling HQ ... Driving simplification and sharing best practices globally to enable front-line focus on your results

Focus on solutions

- Launched new technologies including small & large scale gas turbine range, high pressure compressor, multiphase flow meter
- **Created GE Digital Solutions** for Oil & Gas with full stream offerings, including LNG, Pipeline and Downstream
- Industrial Financing solution for oil and gas infrastructure projects
- New customer partnerships Statoil Powering Collaboration, PEMEX MOU, co-creation agreements and CSAs

CUSTOMERS DETERMINE OUR SUCCESS. WE HAVE TRANSFORMED OUR ORGANIZATIONAL STRUCTURE TO SERVE YOU BETTER. Leading through cycle

Focus on what you control

Few charts / Few studies / Few consultants

Believe in "Self Help"

Fast, Flexible + Customer focused

Protect the Future



Our path forward

The core of GE is technology Digital will drive productivity We are focused on customers Play for the long term







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