



### Global trends...extraordinary times

3B

**GROWTH IN GLOBAL POPULATION** BY 2050

65%

GROWTH IN **GLOBAL GAS DEMAND** FROM 2010 TO 2040 50%

OF DEMAND FOR NATURAL GAS WILL BE MET BY LING IMPORTS OR LOCAL PRODUCTION OF UNCONVENTIONAL GAS

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

BY 2040

YEAR AGING **INFRASTRUCTURE** IN MANY MARKETS





DEMAND FOR ENERGY WILL CONTINUE TO RISE DESPITE CURRENT VOLATILITY

# With critical industry challenges









Price Volatility Workforce Turnover Operational Islands

Safety Risks



## Navigating Uncertainty in the Digital Era

#### INDUSTRIAL INTERNET

ADVANCED SOFTWARE PLATFORM (PREDIX)

- Industrial data growing at 2x other data
- Most complex data set

ADVANCED MANUFACTURING

DESIGN INNOVATION

MANUFACTURING INNOVATION

MATERIALS INNOVATION

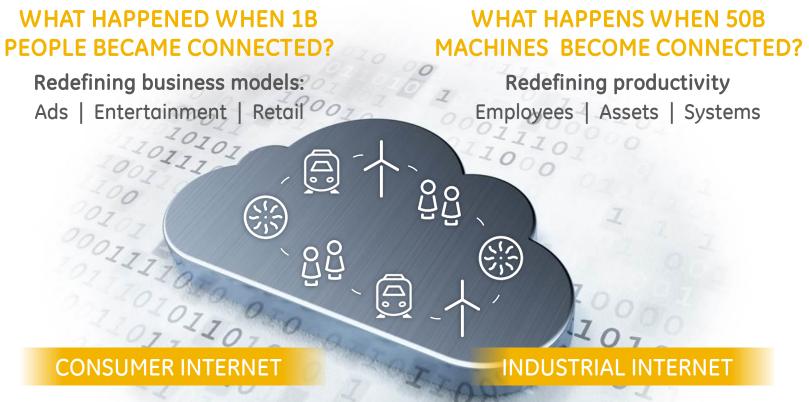
- New paradigm = manufacturing technology + material innovation
- Digital thread

OPEN INNOVATION WITH CUSTOMERS & COLLABORATION ECOSYSTEM ... TECHNOLOGY ACCELERATION



## This is the Digital Industrial Revolution

The Industrial Internet is a deep meshing of the digital world with the world of equipment and machines. It is enabled by advanced computing, data analytics, low-cost sensing and new levels of connectivity, all permitted by the internet.





## **GE's Predix**

### The software platform for the Industrial Internet









#### **Machine Centric**

Connect, make machines intelligent, and optimize them from anywhere in the network

#### **Industrial Big Data**

Optimized for real-time, large-scale analytic and asset management

#### **Modern Architecture**

Rapidly deliver consumer grade Industrial Internet apps with a cloud-agnostic platform

#### **Resilient & Secure**

Protect industrial data and control access to machines, networks and systems

Operational Technology (OT) leaders: underserved by today's IT platforms



# What does it mean for Oil & Gas?

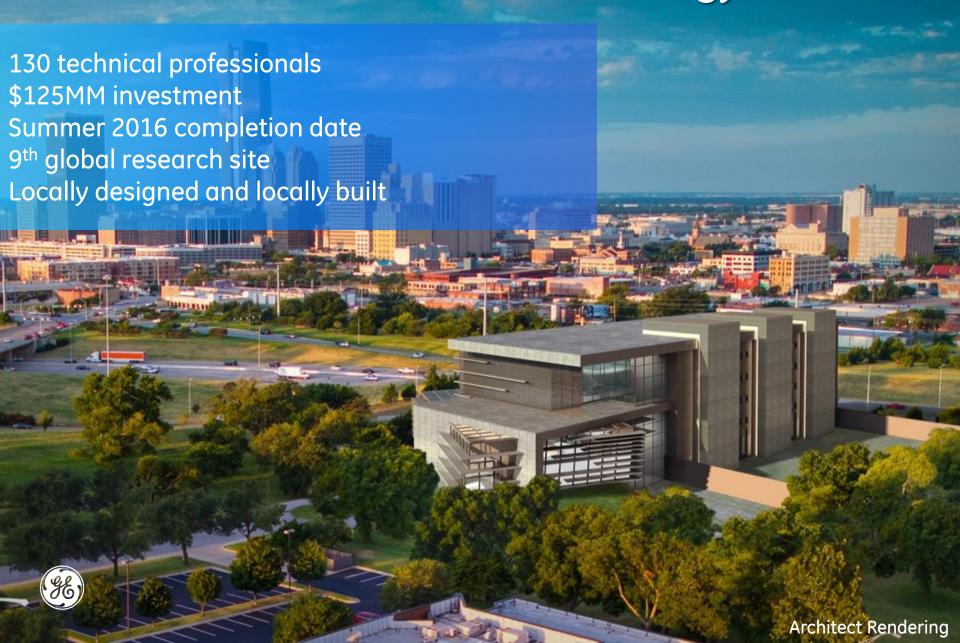








# The GE Global Oil & Gas Technology Center



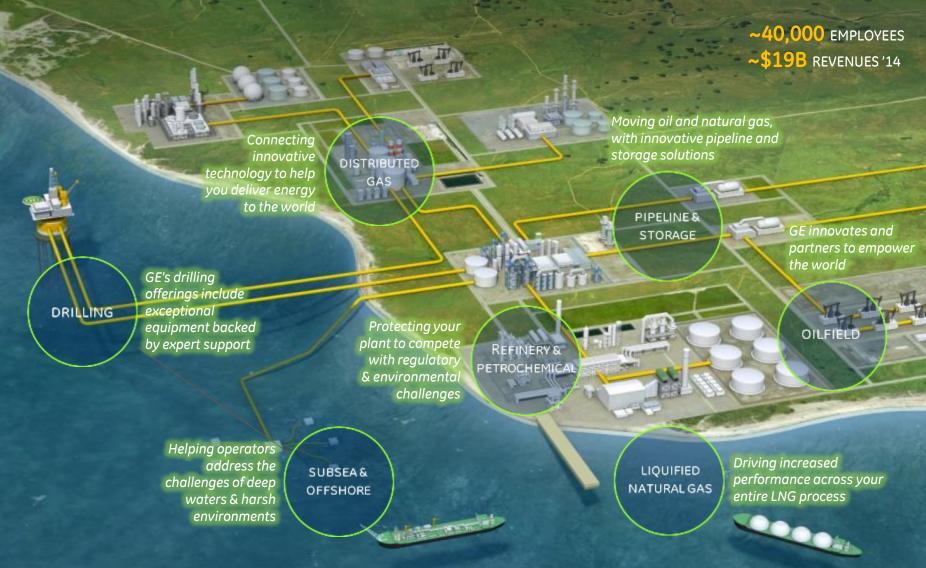
# An office built around a lab





"GETTING DEEP INTO THE ROCK"

# Technology and service solutions across the industry





BRINGING TOGETHER THE DIGITAL AND PHYSICAL WORLDS



