



# THE DIGITAL INDUSTRIAL COMPANY

## WHAT IS A DIGITAL INDUSTRIAL COMPANY?



Digital Technology

+



Industry Domain Expertise

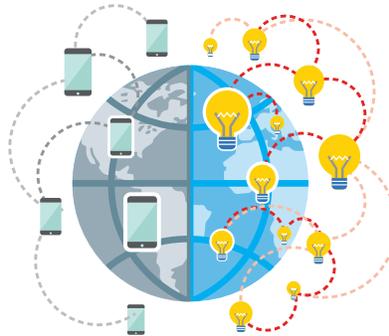
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Software-defined Machines and Solutions

## THE WORLD IS CHANGING...

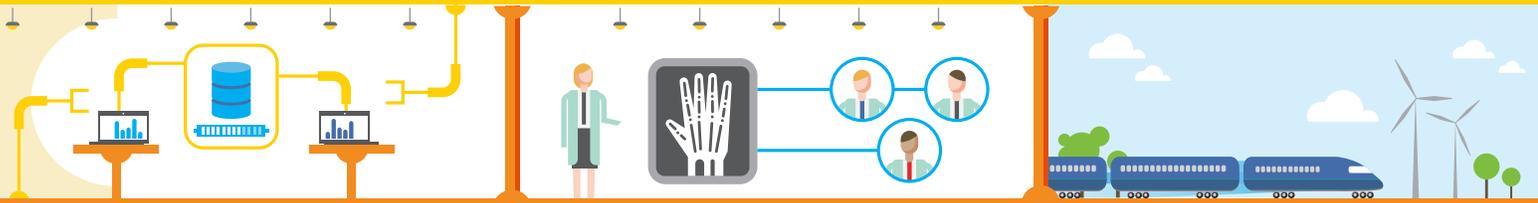
In 2015, there were about **5 billion TOTAL** Internet-connected devices.



## SO GE IS CHANGING

While in 2020, **50 billion** machines will be online.

## WHAT CAN A DIGITAL INDUSTRIAL DO FOR YOU?



Doctors can better **HELP PATIENTS** by sharing information and high-resolution scans with peers around the world.

Data and analytics are used to build a Digital Twin, or model, of every GE machine. For example, a Digital Twin of the Evolution Locomotive **MINIMIZES FUEL CONSUMPTION AND EMISSIONS.**

### CONNECTING MACHINES, DATA AND PEOPLE

Every day, GE analyzes...

**50 MILLION** data elements from

**10 MILLION** sensors on

**\$1 TRILLION** of managed assets

By the end of 2016, GE will...

Create **100** GE applications.

Have **20,000** developers (internal and external) using Predix.

Be operating fully connected "Brilliant Factories".

Realize at least **\$1 BILLION** of increased productivity for GE and for our customers

"Simplification is essential to become the Digital Industrial. We are leaving the world of professional silos, disconnected spreadsheets and bureaucratic workflows to agile teams that are mission-based. We are acknowledging that, to the next generation, speed and simplification are synonymous with quality and innovation... We will lead in both technology and culture... we will not be burdened by old industrial procedures." **Jeff Immelt**



# TALK THE TALK

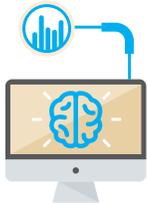


## A IS FOR AMAZING

### INDUSTRIAL INTERNET:

Term coined by GE. Refers to the integration of physical machinery with networked sensors and software.

The Industrial Internet gathers data from machines, analyzes it in real-time, and then uses it to detect flaws and reduce unplanned downtime.



### GE DIGITAL:

A \$6B business with 30,000 employees in 2016, GE Digital brings together all of the digital capabilities from across GE into one organization to provide customers with the best industrial solutions and the software needed to solve real world problems.

Where do the businesses fit in? Each GE business has a Chief Digital Officer that reports to the business CEOs and the CEO of Digital. The CDO's role is to plan their business's roadmap for software and analytics.



### PREDIX™: An operating system, built by GE, for the Industrial Internet.

It provides the technical foundation needed to run industrial apps. Predix is at the center of GE's effort to become a top 10 software company by 2020.



### DIGITAL THREAD: A web of data.

Think of it as the "health record" of all industry. It includes data from operator logs to weather patterns, and can be added to as needed. For example, we can compile the digital threads across multiple plants to get a full understanding of the efficiency of processes and product lines.



### CLOUD:

A metaphor for the virtual network of the internet.

Like a series of storage units, filled with data.



### ASSET PERFORMANCE MANAGEMENT (APM):



By harvesting the ubiquitous sensors, data analytics and user experience of the Industrial Internet, we can move from reactive to proactive maintenance.

### DIGITAL TWIN:

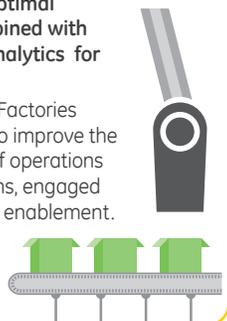
A software model of an physical asset or process. The model is the "twin" of a jet engine, gas turbine, compressor, etc. Helps detect flaws and prevent unplanned outages.



### BRILLIANT FACTORIES:

Factories where lean manufacturing and optimal productivity are combined with advanced software analytics for better outcomes.

GE is creating Brilliant Factories across its businesses to improve the speed and efficiency of operations through lean operations, engaged employees, and digital enablement.



"We act. We learn. We get better. We insist on being more than we are today. Some companies are retreating; we are moving forward to become the Digital Industrial." -- Jeff Immelt

Our success as a Digital Industrial depends on partnering with our customers. We must access the data and deliver outcomes by working together.

