

GE Digital

June 23, 2016

CAUTION CONCERNING FORWARD-LOOKING STATEMENTS:

This document contains "forward-looking statements" – that is, statements related to future events that by their nature address matters that are, to different degrees, uncertain. For details on the uncertainties that may cause our actual future results to be materially different than those expressed in our forward-looking statements, see

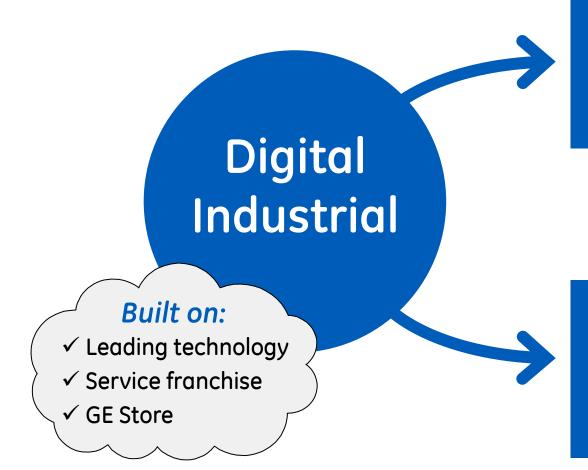
http://www.ge.com/investor-relations/disclaimer-caution-concerning-forwardlooking-statements as well as our annual reports on Form 10-K and quarterly reports on Form 10-Q. We do not undertake to update our forward-looking statements. This document also includes certain forward-looking projected financial information that is based on current estimates and forecasts. Actual results could differ materially.

NON-GAAP FINANCIAL MEASURES:

In this document, we sometimes use information derived from consolidated financial data but not presented in our financial statements prepared in accordance with U.S. generally accepted accounting principles (GAAP). Certain of these data are considered "non-GAAP financial measures" under the U.S. Securities and Exchange Commission rules. These non-GAAP financial measures supplement our GAAP disclosures and should not be considered an alternative to the GAAP measure. The reasons we use these non-GAAP financial measures and the reconciliations to their most directly comparable GAAP financial measures are posted to the investor relations section of our website at www.ge.com. [We use non-GAAP financial measures including the following:

• GE Industrial operating & Verticals earnings and EPS, which is operating earnings of our industrial businesses and the GE Capital businesses that we expect to retain.

Digital Industrial



Part of the GE Store

- ↑ Productivity and margins
- ↑ Services topline growth rate
- ↑ Customer value ... products & services

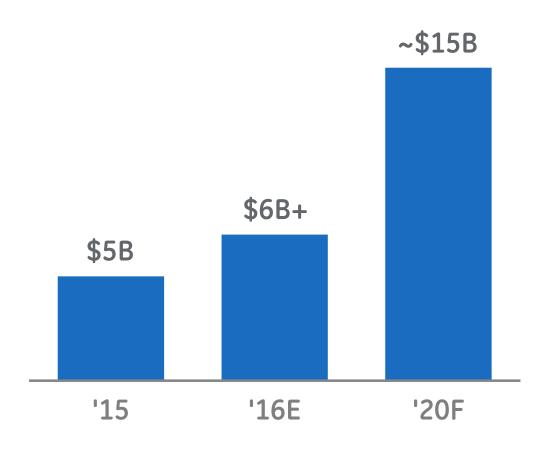


Potential for new business

- + Predix operating system for the Industrial Internet
- + New industries ... new GE customers
- + Global partner framework

Committed to success

Digital revenue



- Customer outcomes → service growth
- 2 Incremental productivity
- 3 Launch "killer" applications
- Predix as the operating system in the Industrial Internet ecosystem

Services evolution

Repair **Technology**

Big Iron







- + Advanced repairs
- + Part upgrades

Contractual Services



'00s

+ Risk sharing

+ Monitoring &

diagnostics

- + Software-enhanced output/performance
- + Remote inspections

Digital Industrial

Backlog \$226B



- + Analytics-enabled uptime



- + Partners
- + Field engineers

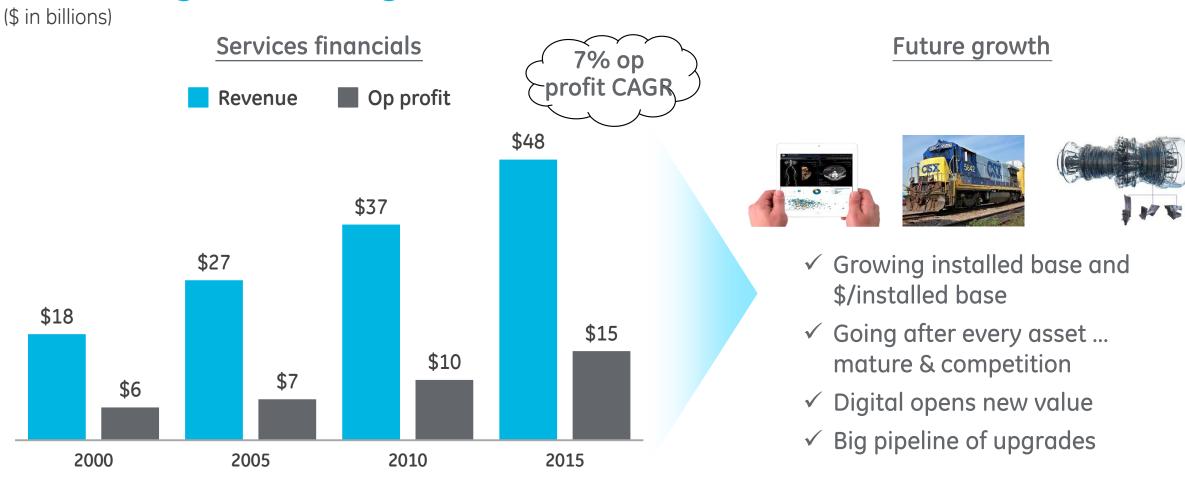
Technology Application

GE Digital

Customer

Outcomes

Services growth engine



Proven services track record ... next generation services growth enabled by digital

GE view of the Industrial Internet

Why it's important

- Big market ... ~\$225B in 2020 ... could be bigger
 - + Industrial world needs platform
- Real value creation for customers
 - + Will drive next wave of Industrial productivity
- Significant opportunity to drive internal productivity
- Further differentiates competitiveness with customers

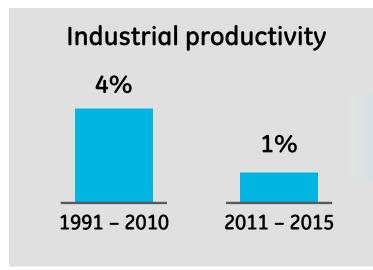
GE uniquely positioned

- Started initiative in 2011 ... have invested heavily
- \$226 backlog, domain/physics, access to data
 - + Product redesign capability
- First mover advantage ... partnerships and hiring key talent
- Complete platform ... delivering edge to cloud processing, security, data governance

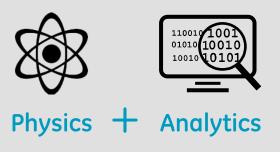


Digital transformation

The Idea



Meets the Digital Twin

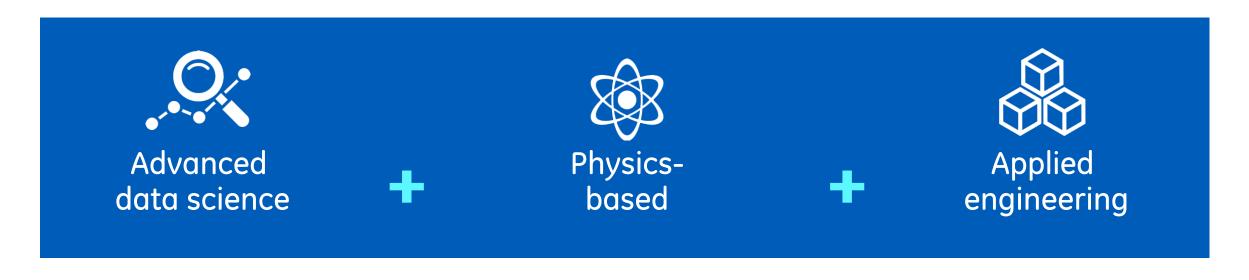


The Principles

- Deliver outcomes
- Consumer ≠ industrial
- Talent follows ideas
- Assets + devices matter

- Build digital content
- Reform IT
- Simplify culture
- Industrials trust each other

GE delivers the winning formula





Market opportunity

Digital industrial revolution by 2020

	Consumer ~\$170B	Enterprise [IT] ~\$200B	Industrial [OT] ~\$225B
Applications	\$80B	\$130B	\$125B
Platform	\$90B	\$70B	\$100B

Consumer ≠ industrial



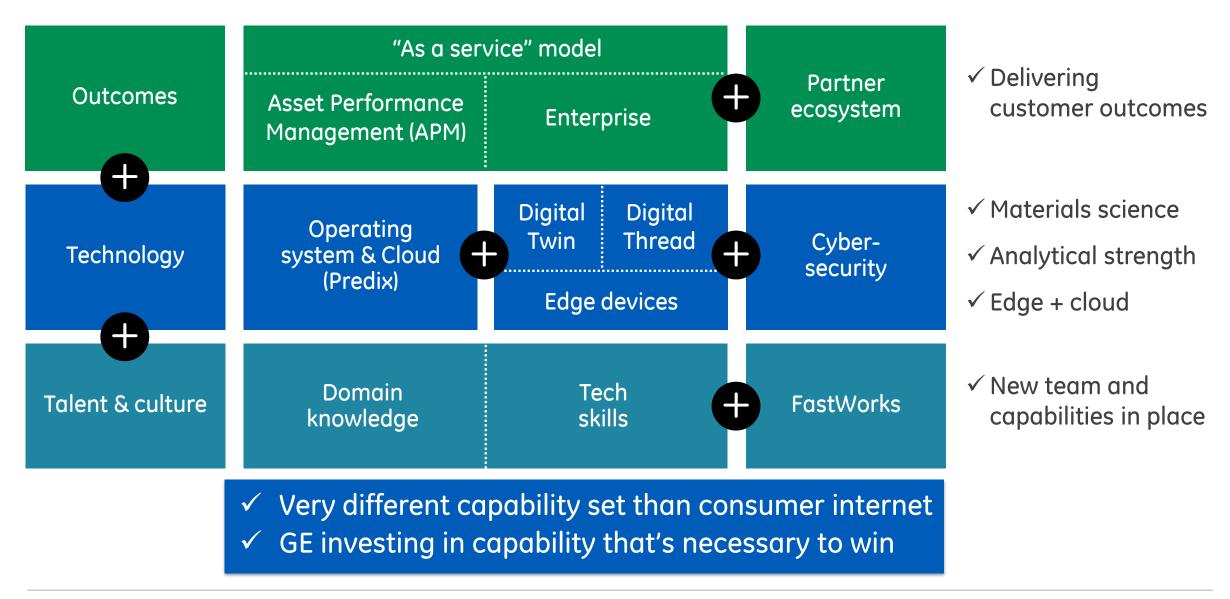
Consumer

- Superficial asset impact
- Data volume in terabytes per day
- User managed security
- Regionalized data storage
- Compute in the cloud: reactive



- Mission critical asset value
- Data volume in PB per day
- Multi-layer security
- Customer-focused storage
- Compute at the edge: proactive

Industrial internet building blocks



Landscape sample

Established tech companies, telcos, industrials, and niche players all vying for success in the industrial internet either on a standalone basis or with partners





HUAWEI







































How we view the technology competitive landscape



Automation only

- Product lifecycle management
- Manufacturing execution systems



Cloud platform

- One-size-fits-all
- General purpose
- Standard tools and apps



Systems of record

- Standard ERP
- Not connected
- Transactionbased SW



Analytics only

- Not industrial strength
- Not multi-modal



- Industrial requirements built in
- Integration from edge to cloud
- Industry vertical and horizontal applications built in
- Deep domain & engineering knowledge augment Digital capabilities

What does it take to win?

	Domain & scale	Digital Industrial Platform	Commercial ecosystem
What we need	 Deep industry domain & operational insights Ability to win in services Each GE business with its own digital industry app strategy & integrated digital portfolio Global scale, depth & reach 	 Predix as dominant digital platform, both inside & outside GE APM as the 1st "killer app" "All in" with Ops Optimization, Digital Thread, Digital Twin, Intelligent Environments & Cyber-security 	 GE platform which creates the industrial app economy Global partner ecosystem of developers, integrators & key technology companies Digital commercial capabilities in GE Digital & GE businesses
What it takes to win	 100s of GE Digital industrial apps across our businesses 	1,000s of GE & partner apps on Predix	 100,000s of app developers in the Predix ecosystem
Defend against	Smaller competitors attacking our Industrial markets	Larger competitors attacking our Industrial markets	Larger competitors attacking our Platform

GE Digital organizational structure

GE Digital (horizontal)

GE Businesses (vertical)

GE Digital CEO & GE CDO

- √ Horizontal product lines
- ✓ Predix operating system
- ✓ Digital infrastructure
- ✓ Separate P&L
- √ Commercial leadership
- ✓ GRC software research

Business CDOs

- ✓ Incentive plans aligned to GE Digital
- ✓ Common metrics
- Mutual accountability

Business CEOs

- ✓ Product extensions
- ✓ Vertical product lines
- ✓ Digital business strategy
- ✓ P&L within each business
- ✓ Drive Digital culture

One GE Digital team. Connected today ... ability to quickly scale & adapt to business needs.

Today's agenda

Building the horizontal

Defining success Khozema Shipchandler

Technology leadership Harel Kodesh

Commercial approach Kate Johnson

Digital Thread Jim Fowler

Organization Jen Waldo

Building the vertical

Power Digital Ganesh Bell

Executing with customers Azeez Mohammed

Healthcare Digital Charles Koontz

Transportation Digital Seth Bodnar

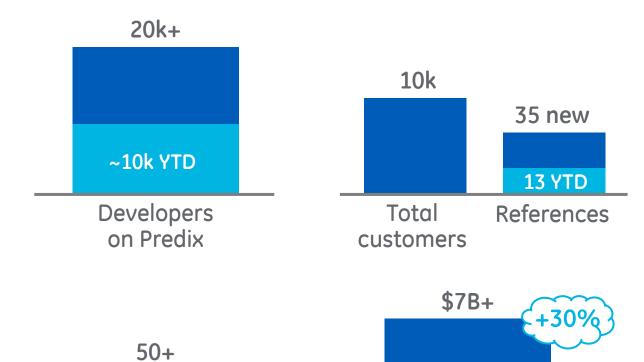
Services Kevin McAllister

Engineering/Manufacturing Jeff Connelly

Current Maryrose Sylvester



Leading success indicators – 2016 targets



31 YTD

Partners

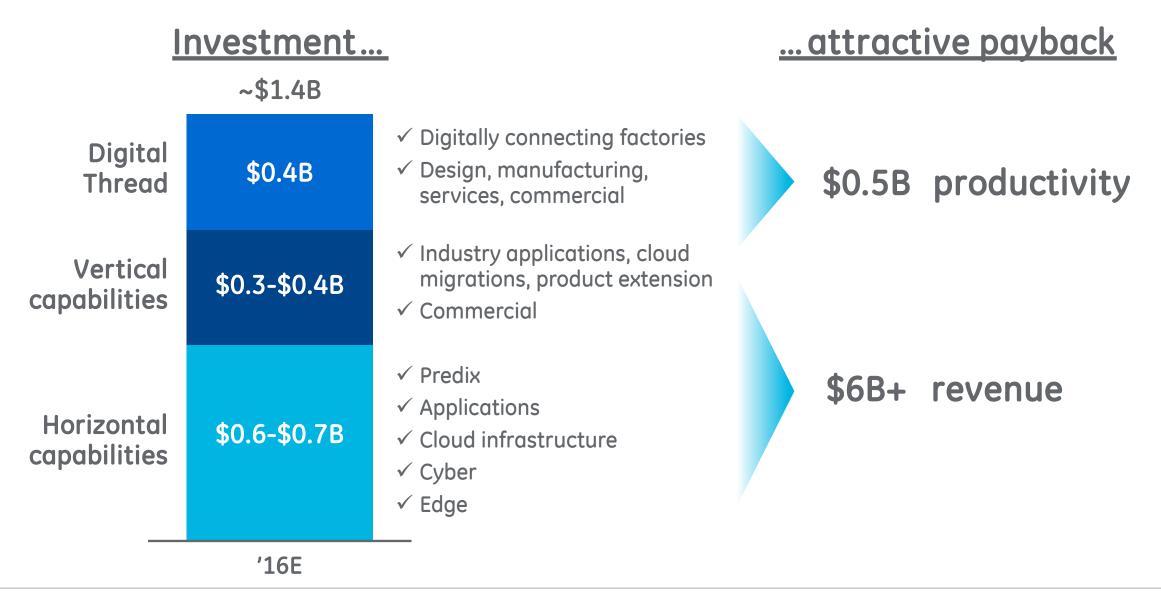
- ✓ Additional developers drive innovations, interest & stickiness of platform
- ✓ Customer proof points of new digital solutions confirm customer value
- Ecosystem drives exponential growth
- ✓ Industrial applications deliver the outcomes & efficiencies customers want

Goal: create a broad industrial internet ecosystem to lead digitization of the industrial economy

\$1.2B 1Q

Orders

Investing at scale



Portfolio

Orders of \$7B+

Business	<u>'16 V%</u>
Power	>30%
Oil & Gas	>30%
Renewables	>40%
Aviation	>30%
Energy Connections	>100%
Transportation	>30%
Healthcare	<10%
Current	F
Digital core	>100%

- ✓ Broad-based contribution across every business
- ✓ Re-building Healthcare portfolio, target 10%+ growth rate in 2017
- ✓ Significant expansion into new verticals
- Growing globally ... partners / ecosystem expand reach

Strong foundation to build from ... working on a path to \$1B+ for every business

How we generate revenue

Through services

<u>Standalone</u>



Upgrades ... ↑ value to existing deals

Revenue share ... share of apps sold





Licenses or subscription ... GE, 3rd party or partner developed



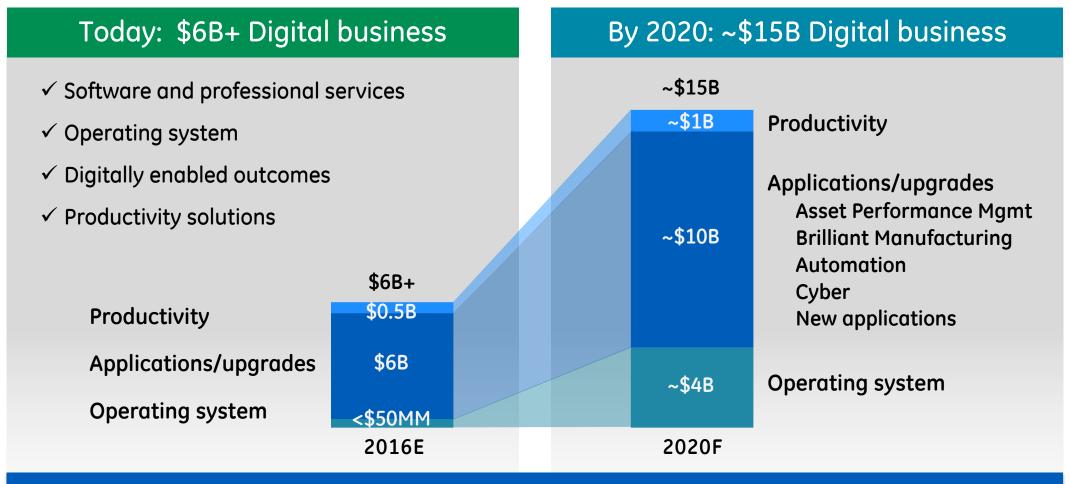
Outcome-based ... asset specific offering; GE/customer share the benefits



Platform-as-a-service ... Predix operating system; price per micro-service

Incremental value from each revenue stream

Future value creation



Current period return through productivity and new revenue streams ... long term 30%+ operating margins accretive to bottom line

Strategic investments & accelerators

Pivotal.

- Components needed for Predix architecture model
- Greater influence over op. system for Ind. Internet



- Leader in cloud based field service management
- Enabler of Digital Thread strategy



- Critical accelerant for smart building strategy
- Enables faster monetization for Current



- Improve fossil-fuel-fired power plants
- Accelerate & enhance value-proposition

wurldtech

- Assess & protect GE's & customers' infrastructure
- Added protection to industrial internet offerings

Future considerations

- ✓ Accelerate platform services & capabilities
- ✓ Rapid market entry
- ✓ Enhance tech stack
- ✓ Build vertical adjacencies

Will deploy capital to expand technology capabilities & commercial offering

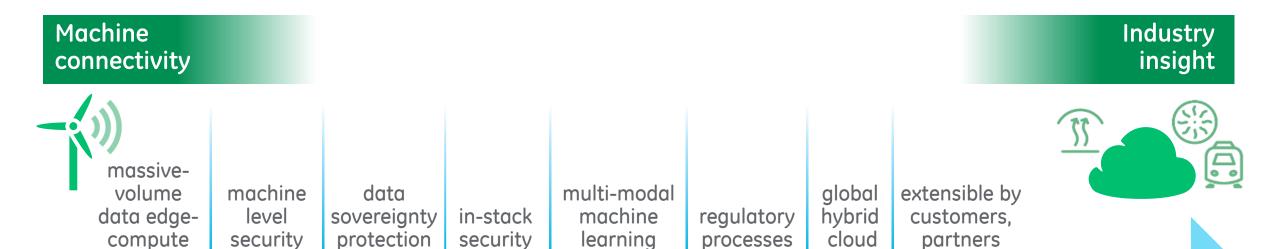
Cultural change

- Energizes entire company ... Digital Thread and Predix demand internal & commercial transformations
- Strengthens strategic customer relationships & enables delivery of unprecedented outcomes
- Hired external talent & paired with internal GE executors. CDOs bring expanded view of market, fresh ideas, new models ... attracting the best. Repositioned CIO.
- Operating with renewed urgency and intensity, investing at rate required, unafraid to experiment, fail fast & pivot
- GE uniquely positioned to do this. Domain + analytics our "killer app" ... very few have capital and knowledge required.



Industrial requires a whole new operating system

Predix, the operating system for industry





What it takes to run a digital cloud-based industrial business

Industrial-focus semantics

- System of asset abstractions
- In-stack security

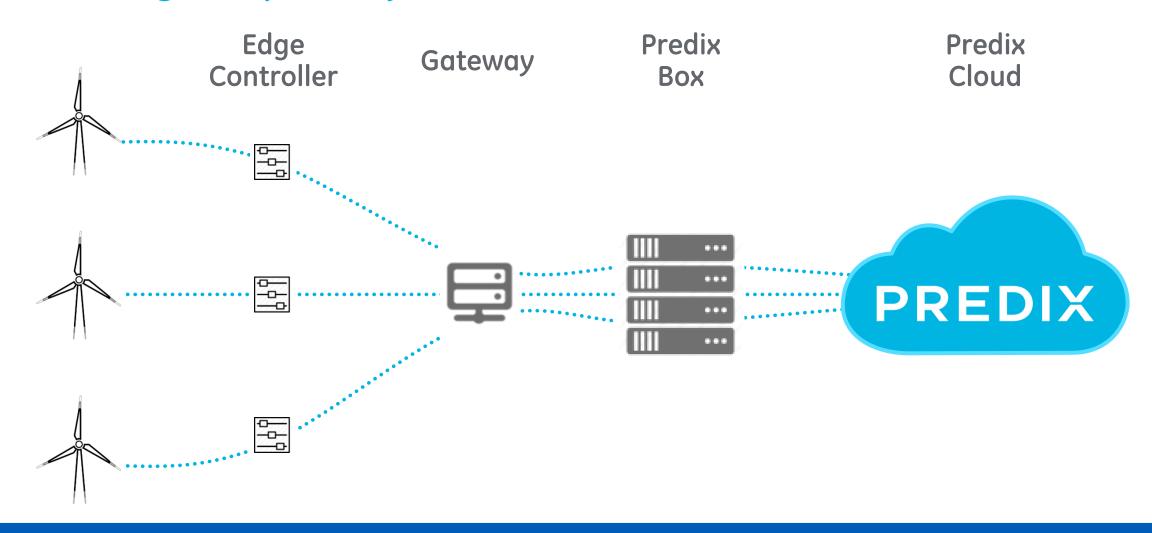
Industrial-focus operations

- Right scaling the data centers
- Critical infrastructure security
- Distributed compute from cloud to edge

Industrial-focus intelligence

- Multimodal machine learning stack
- Combining unsupervised and modelbased machine learning algorithms

Predix edge capability



Built by industry for industry

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Digital Twin

Physics & analytics













New language of productivity







No unplanned downtime

Asset optimization

Machine learning/pattern recognition

Continuous tuning

Condition-based repair

Analytics based lifing

Per asset models

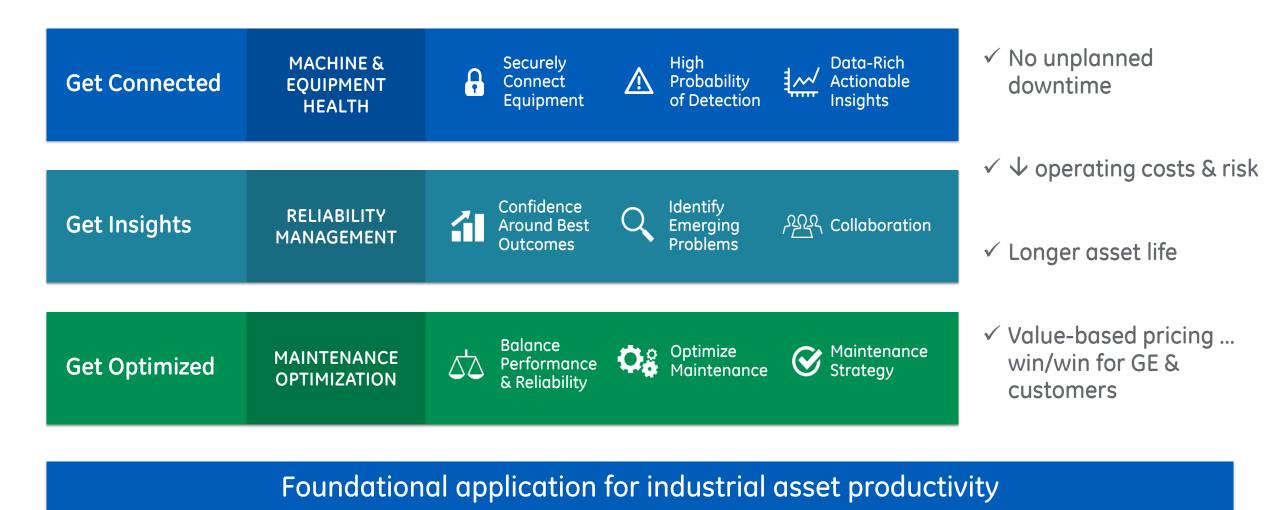
As-a-service models

Ecosystem benefits

Physics and analytics – a portfolio approach

Business Problem ML Technology **Physics Model Business Outcome** Learning from a low Integration with Increased uptime, Fleet number of events **Lifting Models** optimize maintenance Segmentation Bayesian estimation. Spallation, and Metal schedule for aircraft similarity search, clustering. Fatigue models engines Move unplanned Unsupervised and Integration with downtime to scheduled Supervised Learning of the **Performance Model Early Warning Asset Operational Model** Using Thermal model downtime in Aviation and to produce virtual sensors Gaussian Mixture Model, locomotives Similarity Based Model **Supervised Learning of Systems Performance** Reduce fuel consumption Asset performance Models while maintaining **Performance** Neural Network. Gate Cycle model of Power production MW target **Optimization Active Learning** Plant, real time control of **Power Plant** Learning from a low **Integration with Selected** Decrease service Services number of Shop Events Domain Knowledge. turnaround time for **Optimization** Ridge Regression. Survival analysis. engines in shop Similarity Search domain features

Asset Performance Management (APM)



Predix cyber security design



Secure and certify operational infrastructure

... app users to operational



Bring operational availability and governance with "IT"

... at every connection and layer



Protect OT/ IT in an app factory delivery model

... automated secure apps



Establish user-based world for industrial apps

... end-to-end visibility

End-to-end cyber, information and operational security

Why Predix

- An operating system, built by GE, to deal with the key abstractions, performance & cyber security requirements of industrial assets
- Defines a standard ontology & abstraction that allows complex industrial asset models to be queried & processed in a standard way, removing an obstacle for entry & innovation
- Provides a standard way to connect machines, data & people while delivering analytical insights in realtime to optimize industrial infrastructure & operations
- Distributed edge computing ... build & run high fidelity digital twins of industrial machines in the cloud or at the edge
- Machine learning capabilities ... optimized for the industrial internet to build, run & train analytics models



Commercial approach

Close big Predix-powered deals ... marquee customer references

Build digital commercial engine ... digital thread for efficiency & scale

Establish GE as a reference ... tap into adjacencies

Develop strategic partnerships ... build out a rich ecosystem

Dedicated team of Digital experts working horizontally & vertically to drive adoption

Commercial talent: the winning combination

Digital Talent

- Software sales lifecycle
- Solution architects
- CIO relationships
- Demos & use case vernacular
- CIO pain points

~1,000 Commercial resources

- Deep industrial domain
- VP Ops & C-suite relationships

Industrial Talent

- Service franchise
- Industrial KPIs
- COO/Engineering pain points

~13,000 Commercial resources

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Industrial Outcomes

Outcome

Selling

Efficiency, yield, downtime, throughput, quality, safety

Combining digital and industrial talent to drive meaningful customer outcomes

Predix wins – APM as the killer app







Solution

APM software and Predix Enterprise-wide APM

- APM
- 1,000+ GE & non-GE equipment connected to Predix

Outcome

- Provide analytical insights at enterprise scale through knowledge sharing on demand
- Eliminate disruptions by being proactive and analyze problems more efficiently

- Shift from unplanned outages to planned outages
- Significantly reduced maintenance costs
- Optimized asset life

- Increasing reliability by 1%
- Reduce volumetric downtime
- Decrease excess flash gas
- Manage maintenance costs

Predix wins – beyond the asset for enterprise health







Solution

 Smart automation and digitized manufacturing platform OperationsOptimization (OO)

- APM software and Predix
- Operations Optimization (OO)
- Business Optimization (BO)
- Predix (across Gas, Wind, Nuclear)

Outcome

 Increasing manufacturing productivity, facilitating speed of innovation Increasing operational efficiency, and reducing fuel consumption

- Increased analytics velocity as part of digital transformation
- Improved reliability with APM
- Reduced SCRAMS and improved plant performance with OO
- Better power forecasting with BO

Predix wins – making new markets



TOSHIBA



Solution

Predix + scheduler application

 Predix + application for predictive maintenance and service scheduling Predix + asset health application

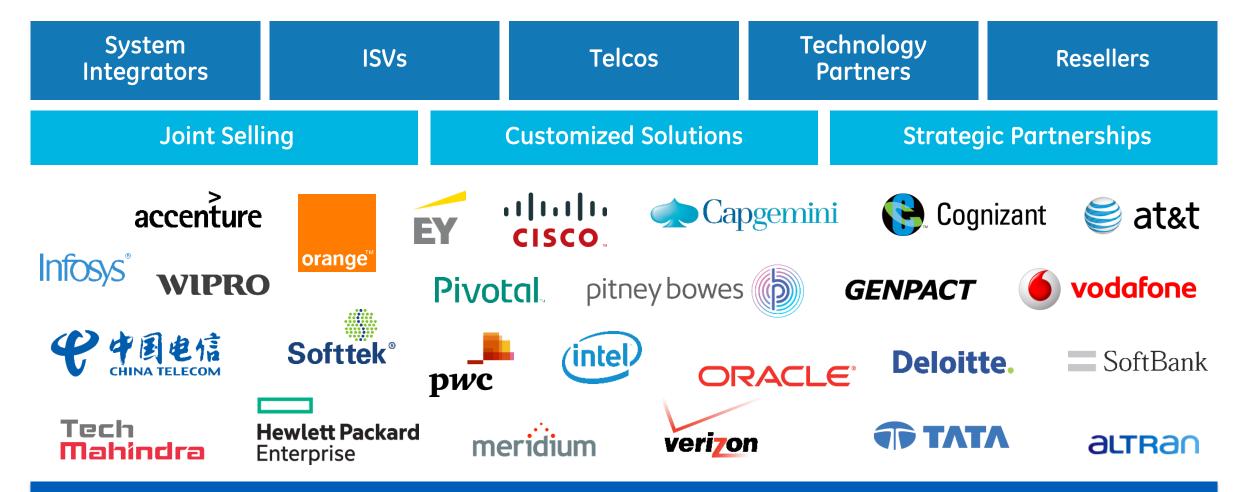
Outcome

- Reducing cost and project delays
- Improving controller productivity
- Enhancing customer satisfaction

 Predix is the architecture platform supporting Toshiba IOT solutions & services

- Up to 10% machine efficiency
- Up to 20% increases in machine yield
- Up to 15% savings on parts replacement
- Up to 10% tech support time-savings

The partner ecosystem is our force multiplier



275+ target accounts across 30+ partners ... 1,000s of certifications drive share and help build the app economy ... 10x multiplier

Portfolio of services offerings aligned to customer journey

Buyer's Journey

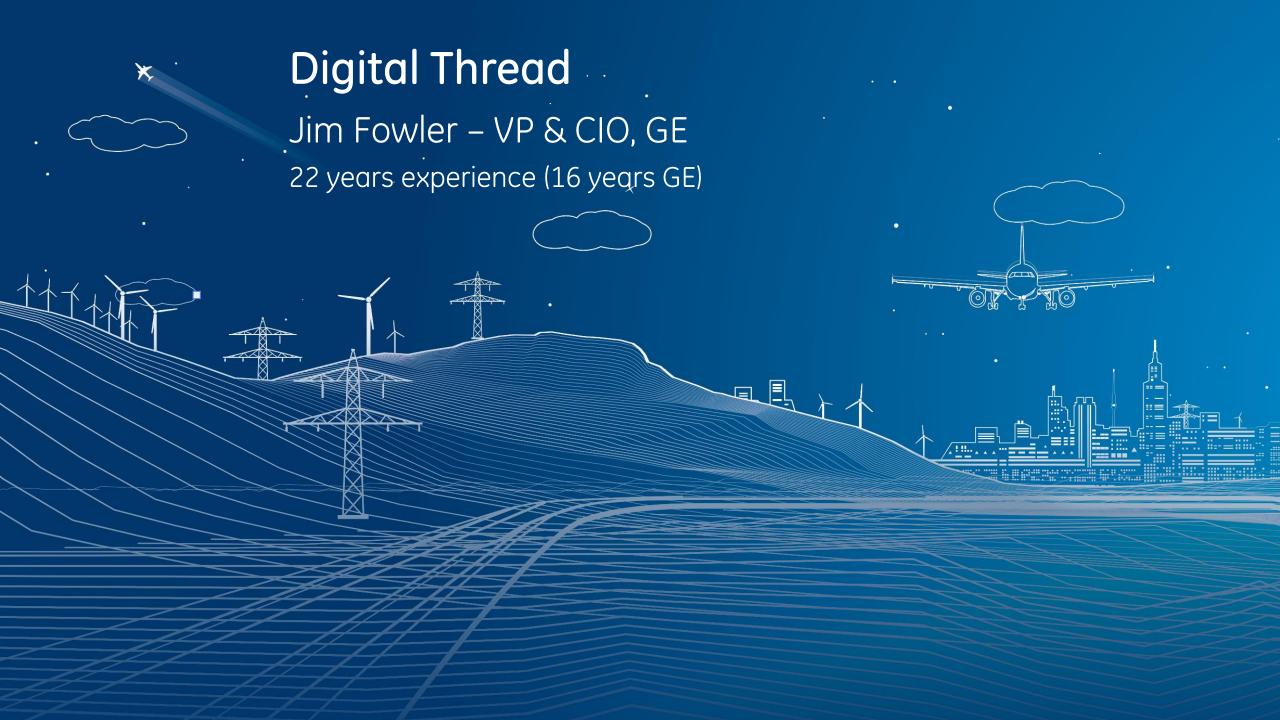
Design

Deliver

Support

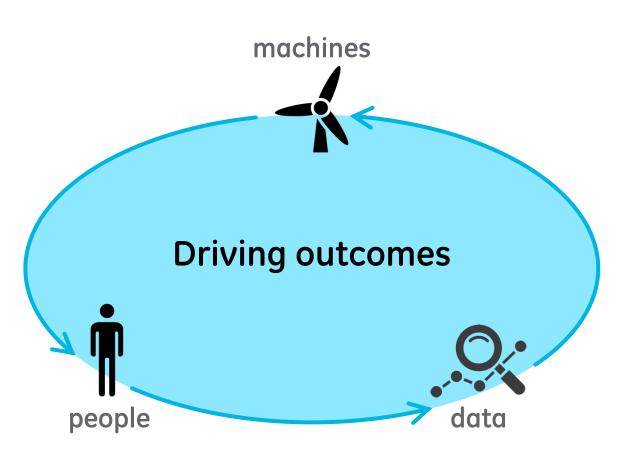
Grow

Advisory services	Rapid start services	Implementation services	Managed services	Support services
IIOT workshopDesign thinkingData science	 Cyber APM Brilliant Manufacturing Predix Operations Optimization 	ArchitectureMigrationBlueprint	 Remote monitoring and diagnostics Security ops center 	Certification programsServices



What is the Digital Thread?

Connecting people, machines & data throughout the value chain to drive previously unattainable outcomes by changing the way we sell, manufacture, design & service



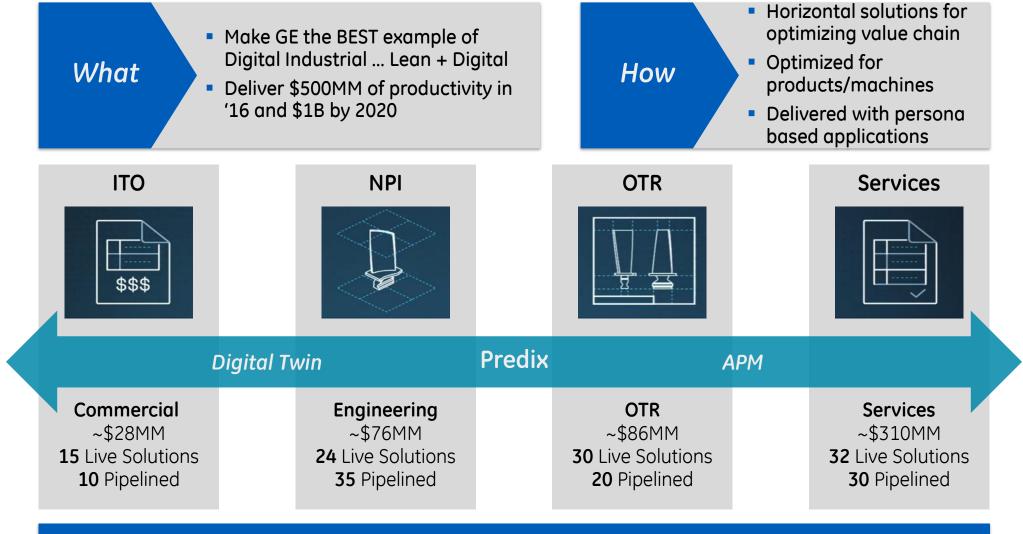
How?

- ✓ Using Predix, advanced analytics, talent & the Digital Twin to create speed
- ✓ Scaling reusable solutions to solve GE wide problems / pain points

Why?

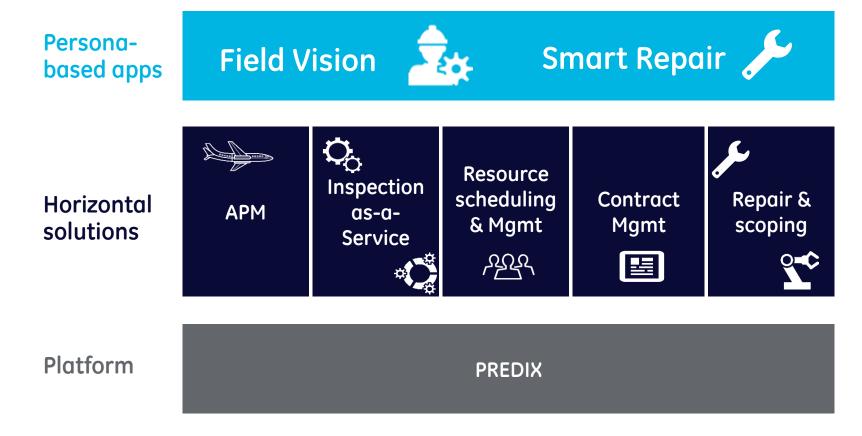
- ✓ Driving \$500MM of internal productivity in 2016 & \$1B by 2020
- ✓ World class user experience to make GE the workplace of the future

Digital Thread strategy



'16 goals ... enable \$500MM+ in cost out and connect 75 factories

Services at GE - horizontal solution



Across GE

- ✓ Personal based applications driving services productivity
- ✓ Built on reusable services that are tied to Digital Twin models
- ✓ Eliminates low value manual work
- ✓ Analytics drive the work scope
- ✓ Optimizes the services value chain

Enterprise data + machine data driving ~\$250MM in productivity Internal reference site ... services tools key for Predix customers

Services repair facility at GE – Grove City (Transportation)



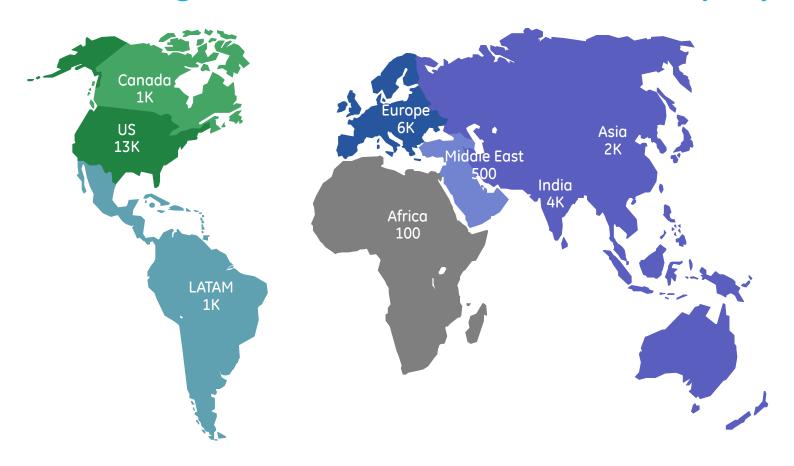
Early identification enabling conditional remanufacturing ... controlled through Auto-Routing

- ✓ Auto-fed conditional work scopes
- ✓ Real time repair status

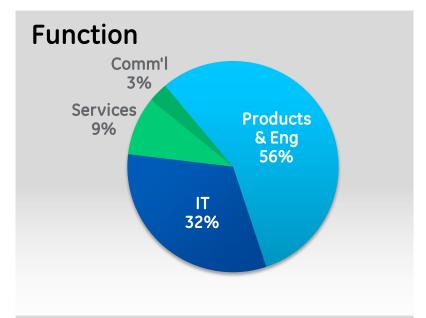
\$25MM productivity in '16

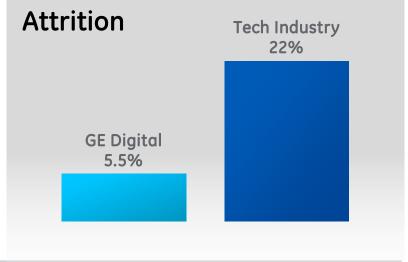


GE's Digital Workforce ...~28K employees globally

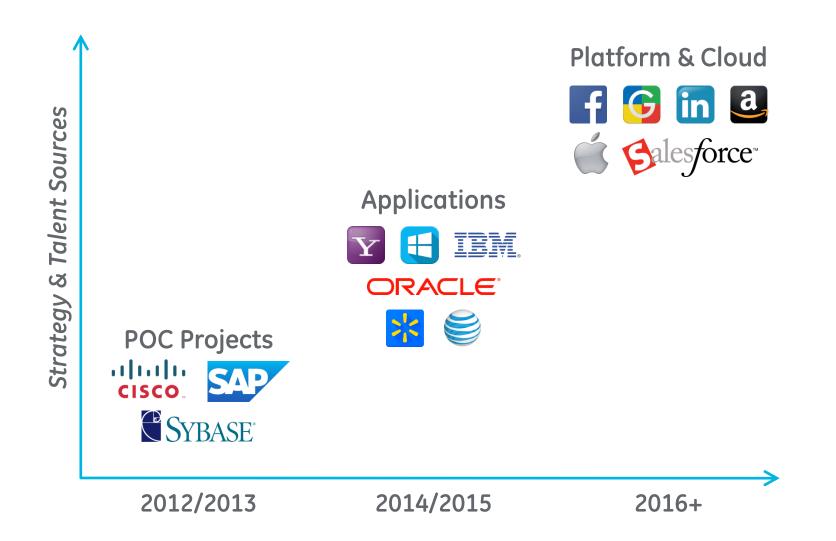


Tech industry external hires into GE 5,500 through 2015 ... +2,000 more by YE 2016





Building the GE Digital talent pool





Development Experience

full stack, platforms for applications, frontend/backend, dev ops

Skills

REST API, JavaScript, Java, node.js, React, Hibernate, Python, Jenkins

Education

Degrees: CS, electrical engineering Schools: UC Berkeley, Stanford, MIT, Cornell, Carnegie Mellon, UT Austin, USC

Transforming our approach to digital talent

Recruiting

Model: Outsourced → Insourced

Candidates: Active → Passive

Brand: Limited → Growing

Compensation

Market: Industrial → Tech

Structure: Base →

Base + Bonus + Equity

Learning

Delivery: Classroom → Online

Focus: Leadership →

Technical

Career Development

Leaders: Managerial →

Technical

Careers: Band climb \rightarrow

Capability growth

Culture & Community

Community: Unknown →

Connected

Culture: Industrial →

Digital industrial



Power Digital Solutions



- Digital agenda becoming a top priority for Power & Utility CxO's
- Electricity Value Network (EVN) is an emerging opportunity: \$95B by 2020

Priorities

- Category defining portfolio from sensor to cloud (AGP to APM)
- Leverage Alstom + GE installed base
- Grow new portfolio +80% VPY ... 20+
 DPP customers since launch
- Drive customer adoption & success
- Lead with enterprise digital transformation
- Innovate new business models (e.g. outcome-as-a-service)

Digital Transformation of Electricity



~\$1.3T

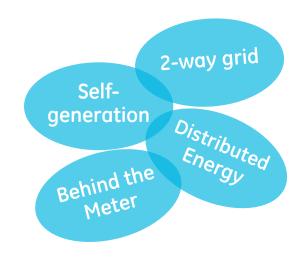
Industry value

\$2T+

\$387B

Societal impact

APM



Business models under threat

Customers investing "innovation dollars" into software companies

\$500MM+











Digital is a Board priority

Digital transformation market opportunity

Generation Grid **Prosumers** Value Chain \$50B \$40B **TBD Opportunity** \$5B 2020 2020 2020 \$95B opportunity across the EVN by 2020 **Business Optimization Outage Management Energy Efficiency as a Service** Current **Plant Operations Optimization** Wide Area & Congestion **Energy Intelligence** Categories **Energy Management System Asset Performance Management**

Emerging Categories

Renewable Integration Management	Micro-Grid, Demand Response, Virtual Power Plant			
Distributed Energy Resource Management	Integrated Customer Services			
Digital Field Worker				
Cyber Security				
Platform for Supply Flexibility	Platform for Demand Flexibility			

Portfolio solution map



BUSINESS OPTIMIZATION (BO)

Market Intelligence & Forecasting

Portfolio Optimization Fuel Nominations Financial Settlement



OPERATIONS
OPTIMIZATION (OO)

Performance Metrics Plant Optimization

Outage Management Fuel Supply Management Financial Planning

Regulatory Compliance



ASSET PERFORMANCE MANAGEMENT (APM)

Machine & Equipment Health

Reliability Management

Maintenance Optimization

PREDIX



EDGE & ADVANCED CONTROLS

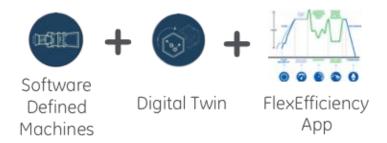


CYBER

Machines to cloud – story of digital outcomes

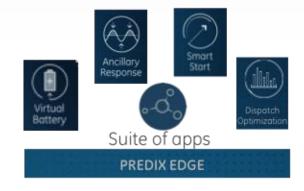
AGPs

- Outcomes delivered via analytical applications close to "edge"
- Customer journey of analytics and digital twin
- Sold alongside hardware retrofit



Edge

- Next gen "AGP" expanding to rest of fleet
- Evolution to Predix Edge Platform +
 Edge Apps (e.g: Virtual Battery,
 Ancillary Response, Smart Start)
- Digital twin from sensor to cloud

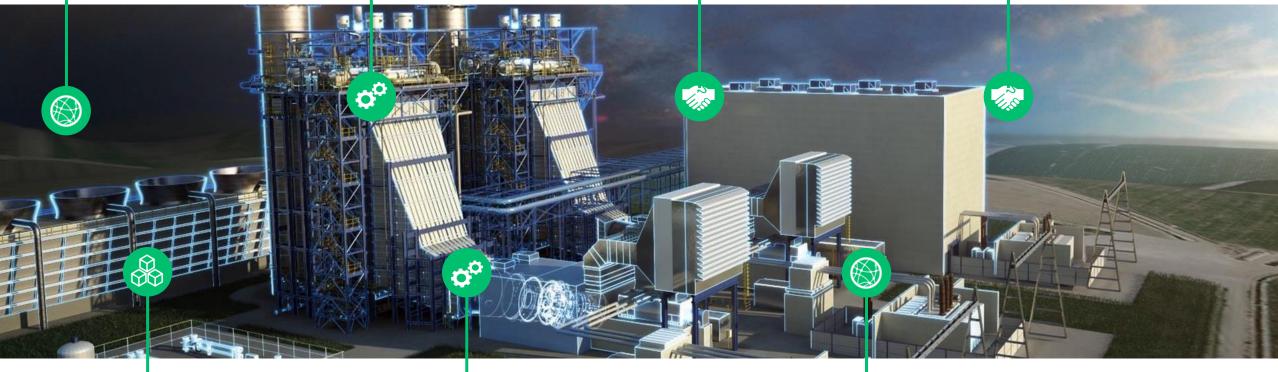




Power & utilities: winning with the ecosystem

- Data Sources: Data acquisition
 Examples: Integ, Genscape
- OEM: Creating analytic packs
 Example: Woodward, oOEM

- System Integrator: GTM scale Examples: PwC, CapGemini, E&Y
- Advisory/Academia
 Example: EPRI, Stanford



Asset Mgmt: Winning BoP ... beyond the turbine Example: Meridium

Plant Operations: Enabled Enterprise
 Examples: Ingen, Neuco, etaPRO

Business Opt: Winning trading efficiency **Examples:** Power costs, Pioneer, Allegro

Innovating with new business models

- Software as a Service (SaaS)
 - ✓ Connect assets
 - ✓ APM, OO, BO
- 2 SaaS within multi-year agreement
 - ✓ Underwrite outcomes, ↑ return
 - ✓ Include SW in every reneg
- 3 Outcome-as-a-service (OaaS)
 - ✓ New offering to TX customers
 - ✓ Next generation CSA offering





















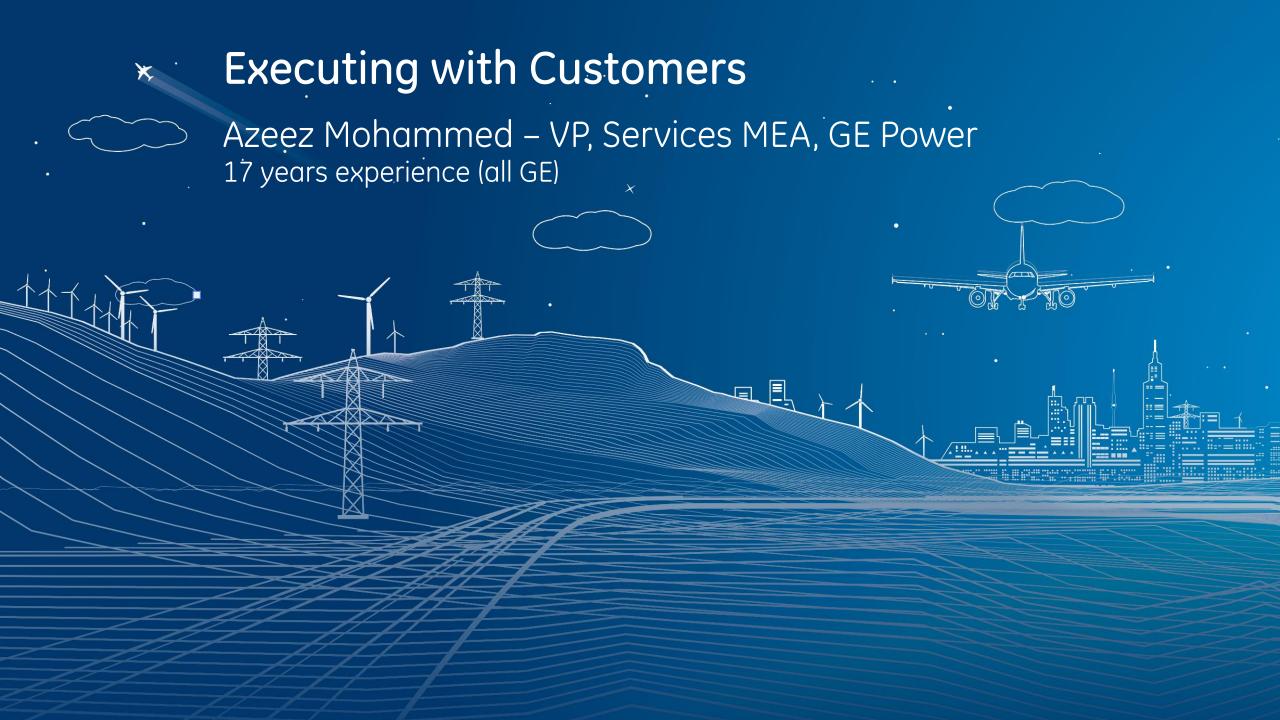








Expanding TAM & wallet share



Digital solutions capturing needs of MEA power customers



✓ Efficiency improvement

✓ Better reliability

Emerging demand for power













Angola

Customers building out infrastructure

✓ Real-time visibility

 \checkmark CAPEX \rightarrow OPEX

Case study 1: APM improves reliability of LNG complex



Improve volumetric down time (VDT) ... 1 day VDT multi-million savings for an LNG complex

7 LNG Train ~1.5KM long with mechanical & electrical assets



Customer dynamics

- ✓ RAS Gas ... 2nd largest LNG producer & 45% of Qatar's GDP
- ✓ GE's APM to reduce volumetric downtime, decrease excess flash gas & manage maintenance costs
 - Significant value in flash gas/train per annum

GE solutions for a typical LNG processing plant

- ✓ Power APM + LNG extensions + Predix
- ✓ 1,000+ GE & non GE equipment connected to Predix
- ✓ Estimated savings @ 2 days of down time multi \$MM
- ✓ Long term commitment ~25 year recurring revenue

Expand to other power intensive industries e.g. smelter, water, etc

Case study 2: Saudi Electric Co. (SEC) – Generation Optimization



Single source of truth aligned to SEC's KPIs ... phase I solution for a mixed fleet of 500+ units

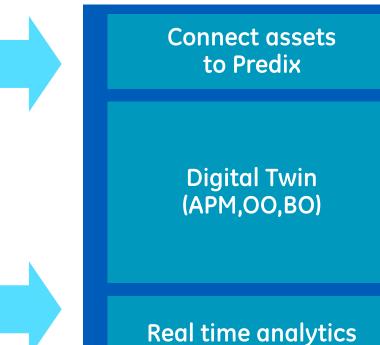
Predix Cloud

Operational Inputs

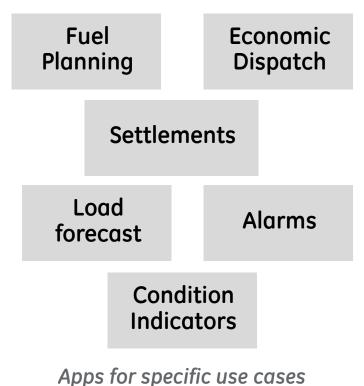
- 40 GW
- 500+ units
- GE + non-GE
- Gas & steam turbines
- 16 large power plants

Financial metrics

- Fuel delivery
- Dispatch schedule
- IPP data
- Dispatch actuals
- Balancing requests



SEC Business Value



SEC viewed as fleet leader ... 30+ asset managers in MEA need similar solution

Case study 3: HUBCO – selling outcome as a service



Up to 4% efficiency driven by Digital Twin ... optimizing process & hardware at plant level

Optimal

setting



Digital

Power Plant

Process

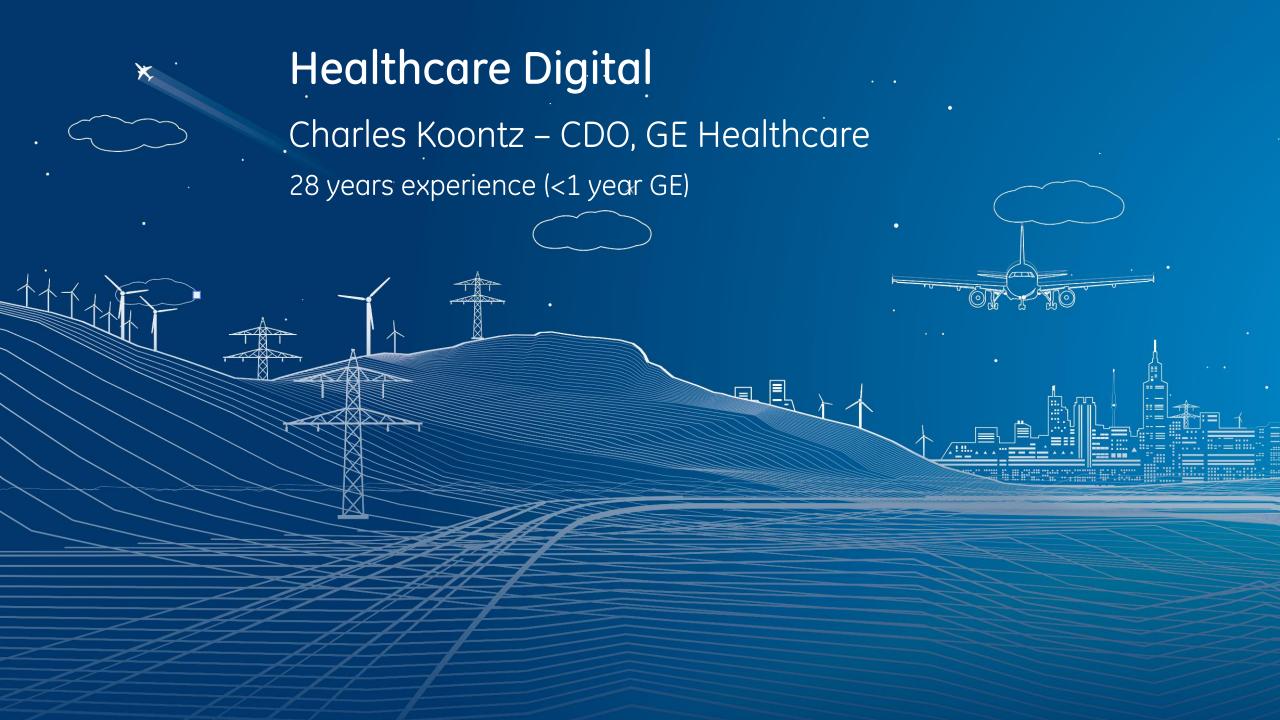
engineering

- ✓ GE advantage ... bringing physics based expertise & data analytics to deliver value for customer
- √ How we are executing ... typical financials:

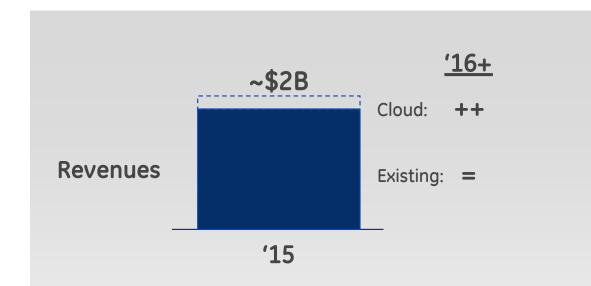
Product	Efficiency	10 year value
APM	1%	\$50MM
Neuco OO	1%	\$50MM
OO (Gas)	1.5%	\$75MM
Hardware/svc	0.5%	\$25MM

- √ ~\$200MM of additional value from existing installed base with minimum hardware changes
- √ Gain share model

Improving life & performance of aging installed base ... global opportunity



GE Healthcare Digital



- + Deep installed base/customer relationships
- + Leader in Radiology imaging
- + Gaining share in enterprise imaging & financial management
- Multiple platforms

Dynamic healthcare marketplace

- Shift to pay-for-performance & value-based care
- Care delivery moving outside the hospital
- Transition to cloud to handle large volumes of data
- Providers looking for new business models to monetize their data to improve patient outcomes

GEHC investment priorities

- Own the digital layer that sits above the GEHC hardware install base – connectivity, analytics, and applications
- Stand up the GE Health Cloud as a platform and establish a 3rd-party ecosystem
- Build out a robust solutions organization in conjunction with ecosystem of partners
- Develop differentiated applications to enable collaborative care that improves clinical outcomes

Accelerating shift towards value-based healthcare

Industry Forces Care Delivery shifting Explosion of data Risk moving

Systemic Reactions

GOVERNMENT POLICY
Enabling the
value agenda

CONSUMERS
Bear more risk,
demand value

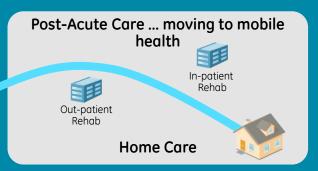
DIGITIZATION
System-wide
connectivity to enable
value delivery

NEW ENTRANTS
Creating disruptive
models to capture new
profit pools

New Paradigms of Care

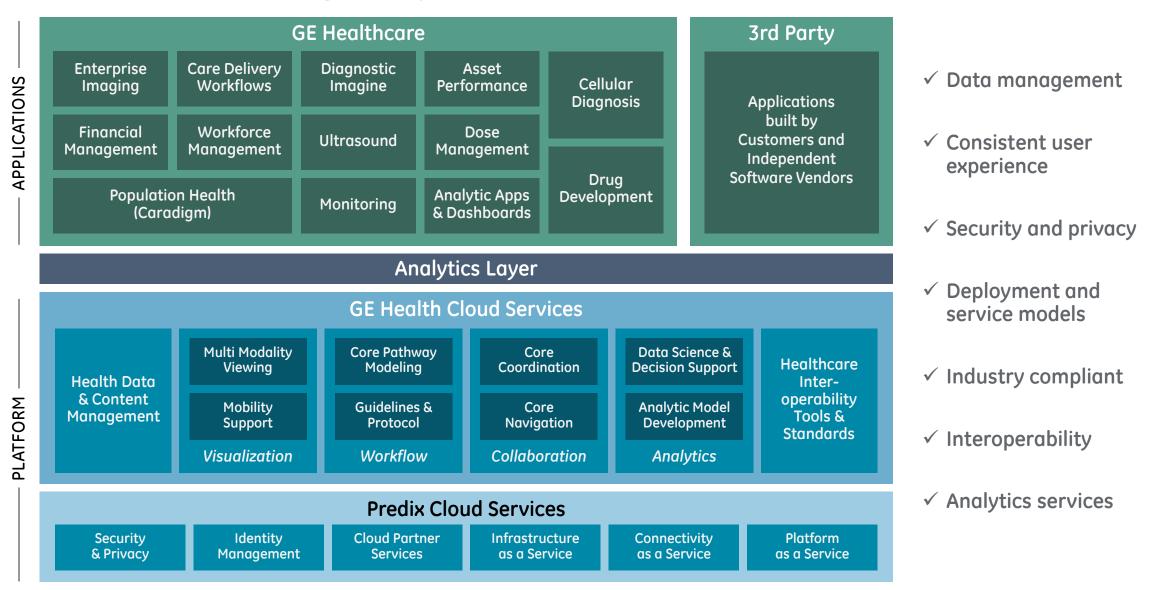






Analytics will enable value based care

GE Healthcare Digital portfolio



HW & SW installed base creates competitive advantage

Hardware

- 1MM imaging & ultrasound machines installed
- 16K scans every minute on a GE machine
- 124K machines under "active management"

Software

- 69B images under management
- 73MM medical records in quality reporting database
- \$220B in financial transactions processed annually

Why GE Healthcare wins

- Utilize deep clinical domain to properly apply insight to caregiver workflow
- Connect clinical + financial + operational data to generate insights
- Wing-to-wing view of imaging value chain
- Continuous pipeline of new imaging data
- Leverage Predix platform for security, user experience, analytics engine

Become the partner of choice to help providers move to the digital future

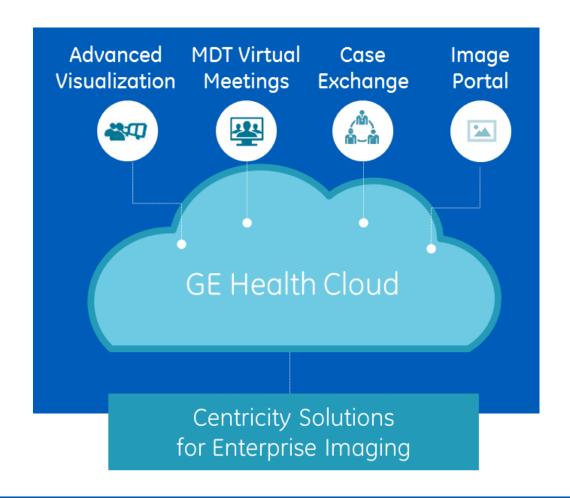
GE Health Cloud is a differentiator for large enterprise wins

East Midlands Radiology Consortium (EMRAD)

- 6MM patient population across diverse regions
- 2.5MM exams/year ... 50K clinicians ... 7 NHS trusts
- Severe radiology resource constraints → led to outsourcing significant # of exams/year

Contract details

- New cloud apps (collaboration, image sharing)
- Termed "Vanguard innovation project" ... NHS will use EMRAD as model for follow-on trusts
- Scheduled to go live in 2H'16



Create clinical collaboration network to provide timely radiology care

Asset Performance Management in Healthcare

Expanding capacity through data-driven workflow optimization

Houston Methodist

- Not-for-profit health system serving the greater
 Houston area with a fleet of GE systems
- Robust demand for outpatient scans & high volume of inpatient studies causing operational bottlenecks
- Utilized GE machine data and advisory services to drill down to actionable operational improvements



Machine Utilization data Analytics to optimize throughput

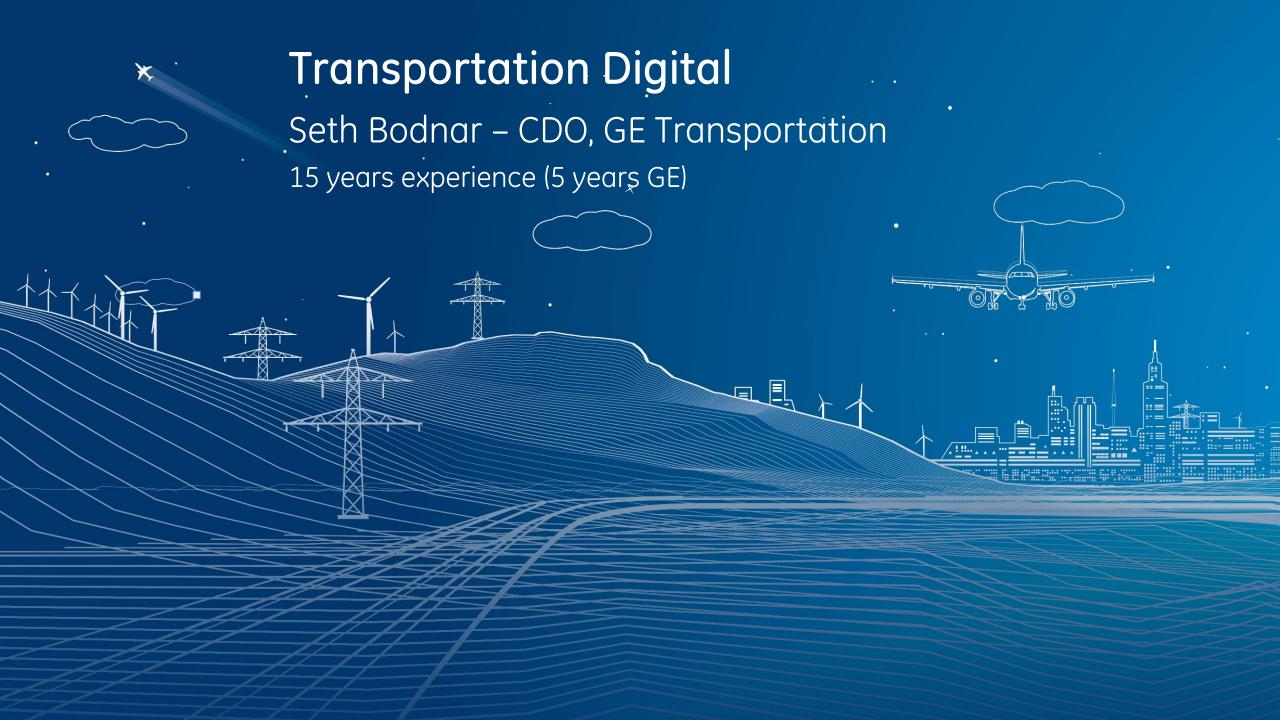
Advisory Services

Impact

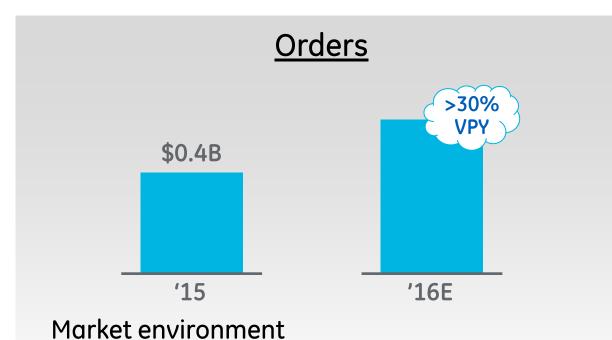
- Methodist: 10-30% shorter MR exams →
 3,250 additional cases/year (\$4MM additional revenue)
- GE: commercialize APM offering across GE IB

↓ exam times and ↑ throughput↑ fleet asset utilization

Analytics as a service ... ↑ service renewals, ↑ price



Transportation Digital



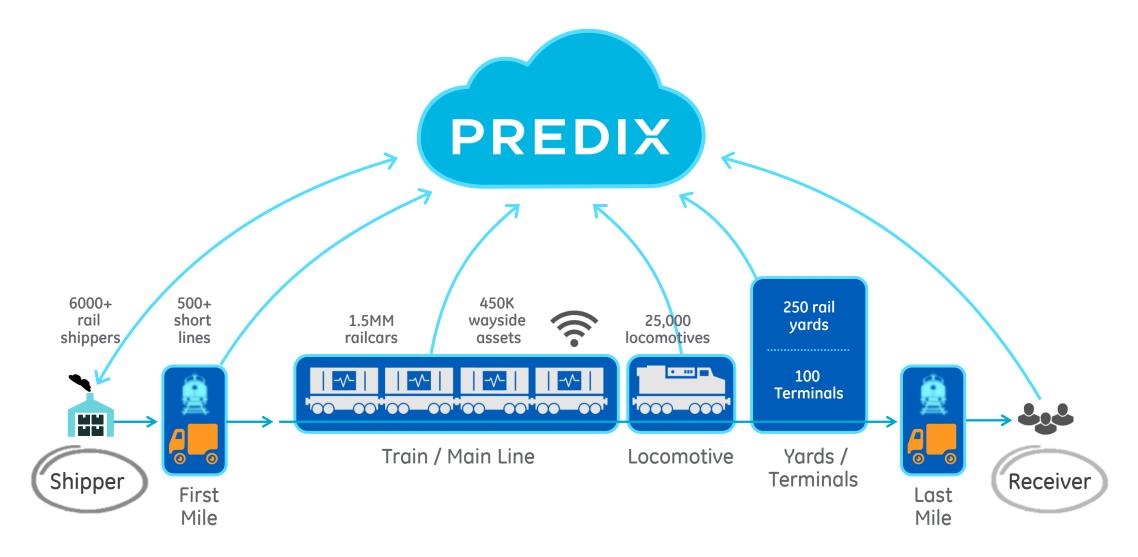
- Carload volumes down ... shift away from coal
- Intermodal key... industry growth driver
- Focus on supply chain sensitive volumes ...
 opportunity for end-to-end solutions

Priorities

- Grow from our core & drive customer productivity ... enable locomotive as "mobile data center"
- Build-out Rail Operating System (rOS) & leverage Predix ... cohesive, connected suite of offerings
- Enable integration of rail supply chain ... first mile/last mile connectivity
- Expand ecosystem partners for adjacent growth ... integrated inspection, analytics
- Enhance customer engagement ...
 outcome selling & strategic engagement

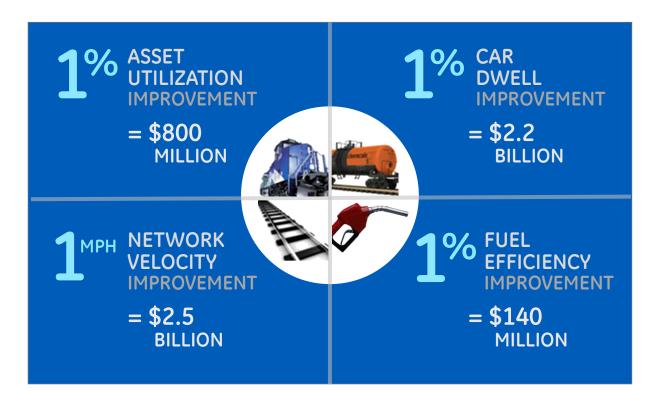
Leveraging Predix & innovating with customers to create digital solutions to deliver key outcomes

Transportation Digital value chain



Delivering for our customers

Railroad outcomes





Train performance



GoLINC



- Network, comm, processing platform
- Predix-edge enabled; >6,000 in service
- Locomotive mobile data center

Trip Optimizer



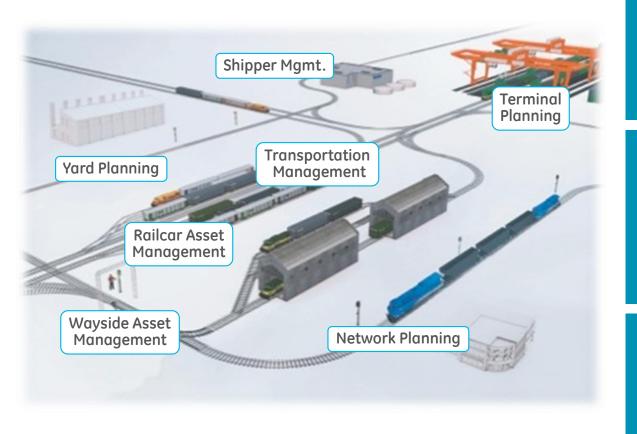
- EPA-certified Energy Mgmt. Solution
- 10% ↑ in fuel efficiency
- >90MM gallons saved, 125MM auto miles

LocoVISION



- High def. digital video recording system
- Enables onboard video analytics
- Detects rail flaws wide gauges, etc.

Network performance



Movement Planner



- Real-time network optimization
- 2 N.A. installs covering 1/2 of traffic
- 10% ↑ in network velocity

Smart Intermodal Terminal



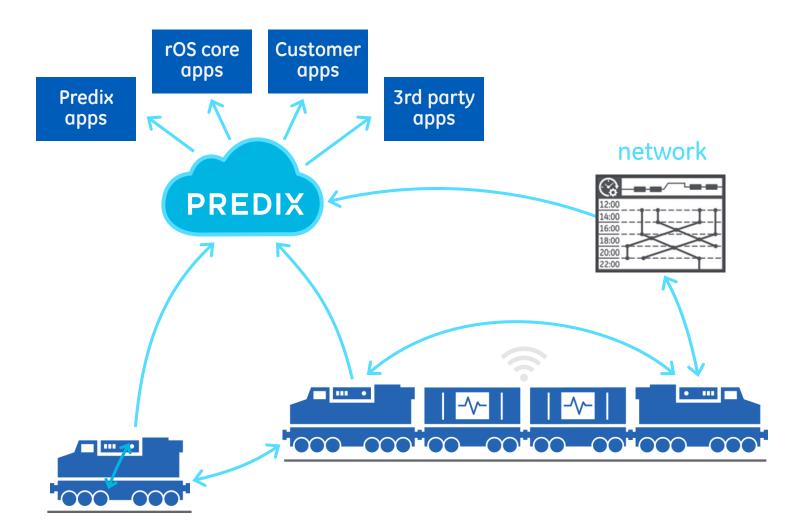
- Next gen Terminal Operating System
- Architected on Predix
- 100+ terminals, 30MM containers/yr

Transportation Management



- Automates train, switching ops
- SaaS solution serving ~500 short lines
- ~8MM carloads handled per year

Predix: powering the portfolio

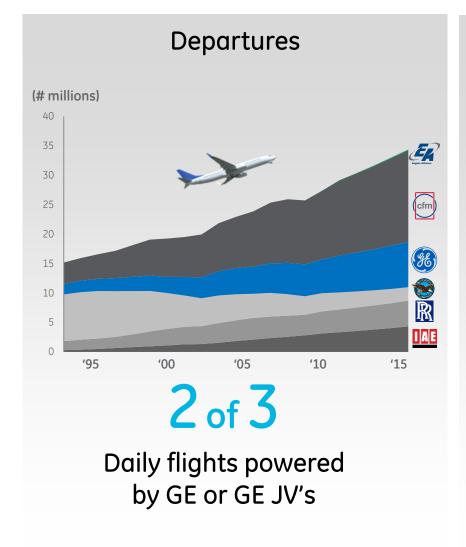


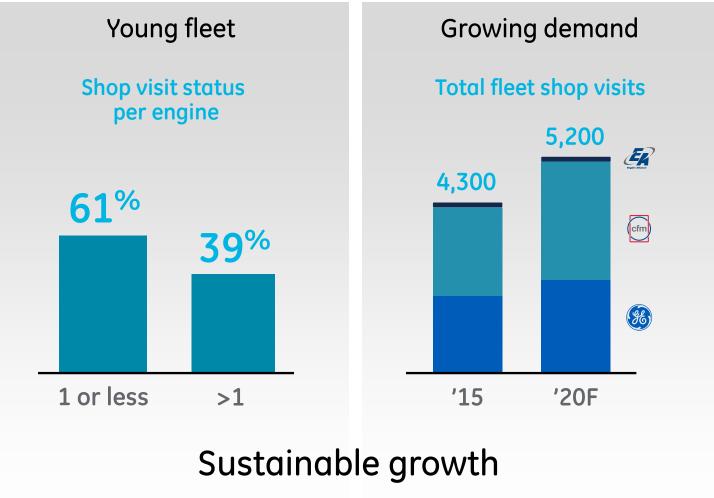
Predix

- Operating system that connects our apps
- Leverages data across disparate system & drives productivity
- Performance analyticsdriving data-drivenoutcomes



A growing installed base





Our Services value proposition

Backlog \$115B		
	Services (\$B)	
CF34		\$7
CF6		\$10
CFM / LEAP		\$29
GE90 / GE9x		\$44
GP7000		\$4
GEnx		\$21



TrueChoice Flight Hour

Optimizes lifecycle cost with flexible risk transfer options



TrueChoice Material

Provides material options for new, used parts and repair for MROs and operators



TrueChoice Overhaul

Optimizes cost per shop visit

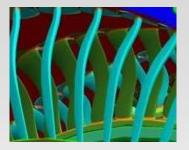


TrueChoice Transitions

Tailored to changing ownership horizons

Technology upgrades into the installed base

Enabling technologies ...



Aerodynamics Efficiency



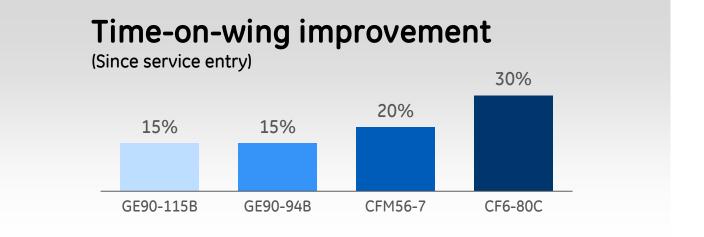
Cooling Durability

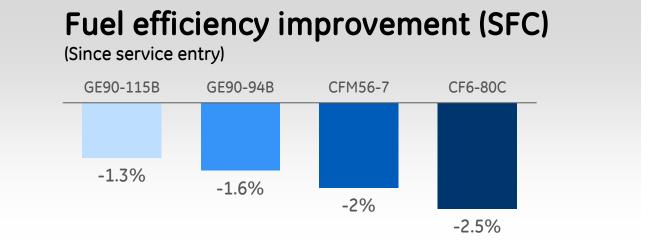


MaterialsDurability, efficiency



CoatingsDurability





Customer value through the lifecycle



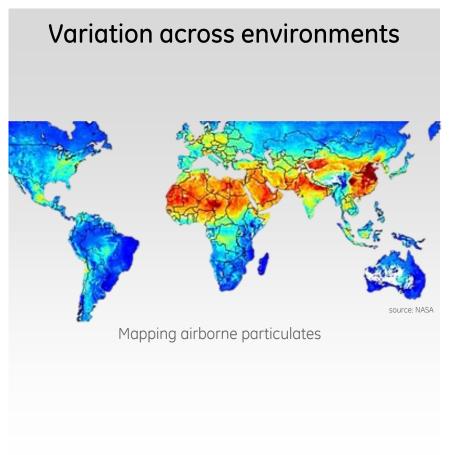
35,000 installed engines ... in a world of variation

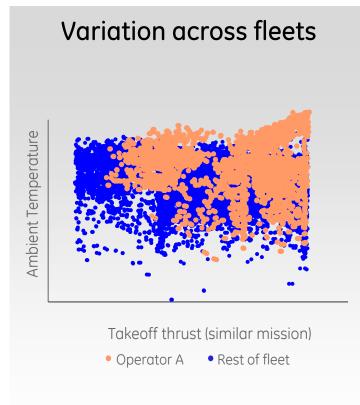
A GE or CFM powered aircraft takes off every 2 seconds

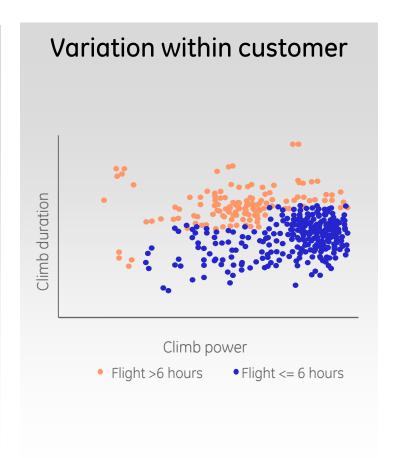


Predix + analytics ... a powerful toolkit to create and convert learnings across operations and environments into actions

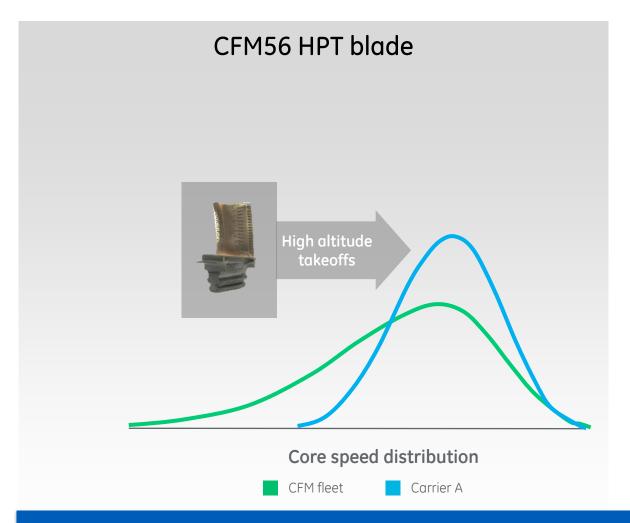
Analytics ... better tools to segment fleet variation

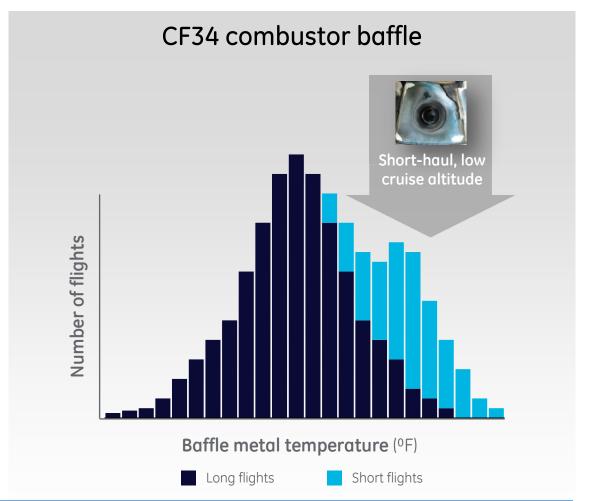






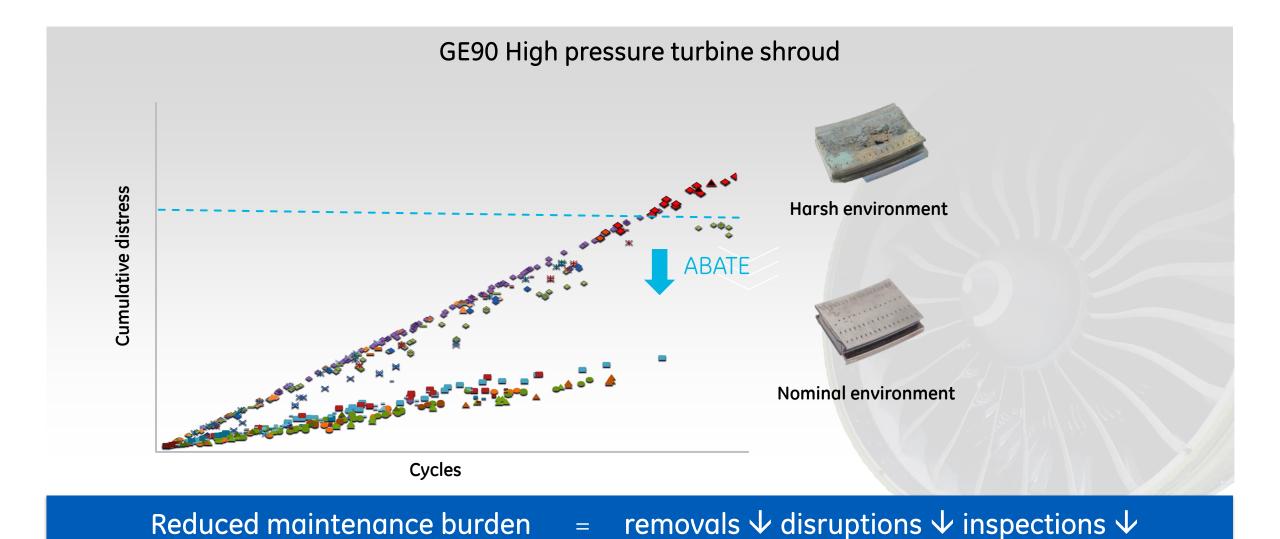
Marrying physics to analytics



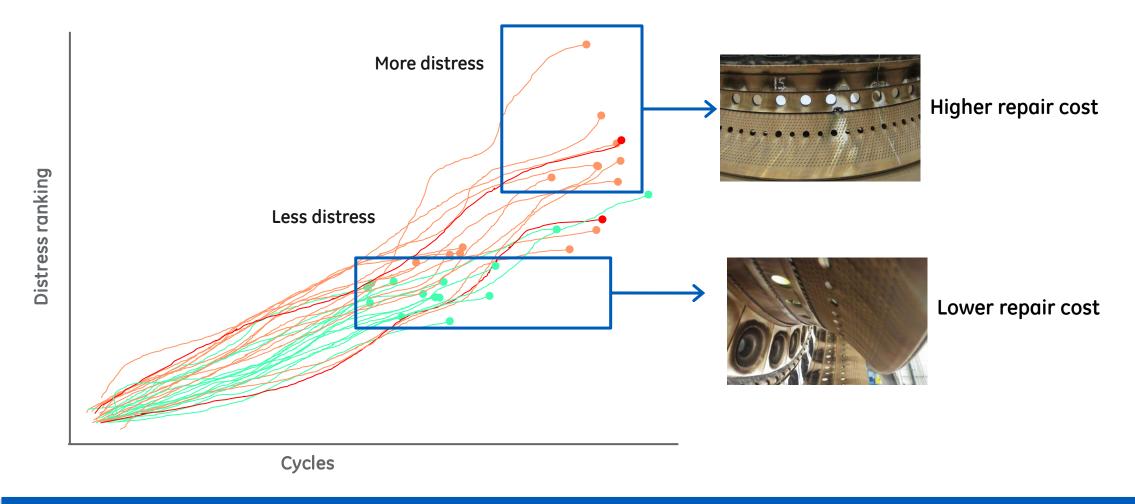


Speed and effectivity of learnings ... creates opportunities to target actions

Analytics driving predictive intervention

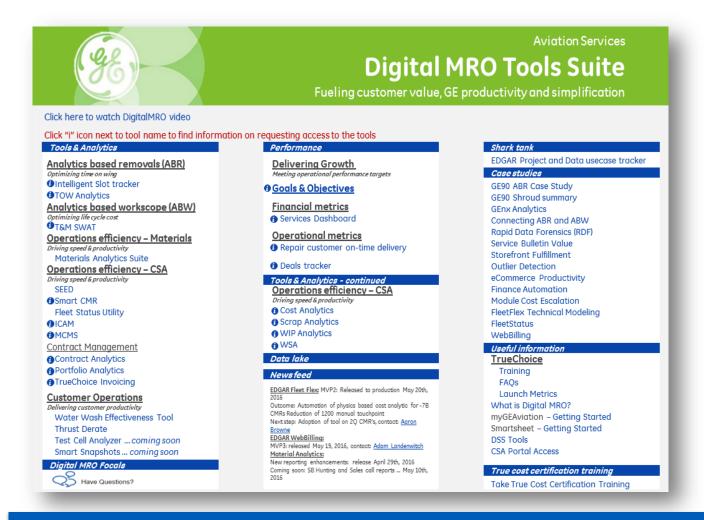


Predictive on-wing workscopes through analytics



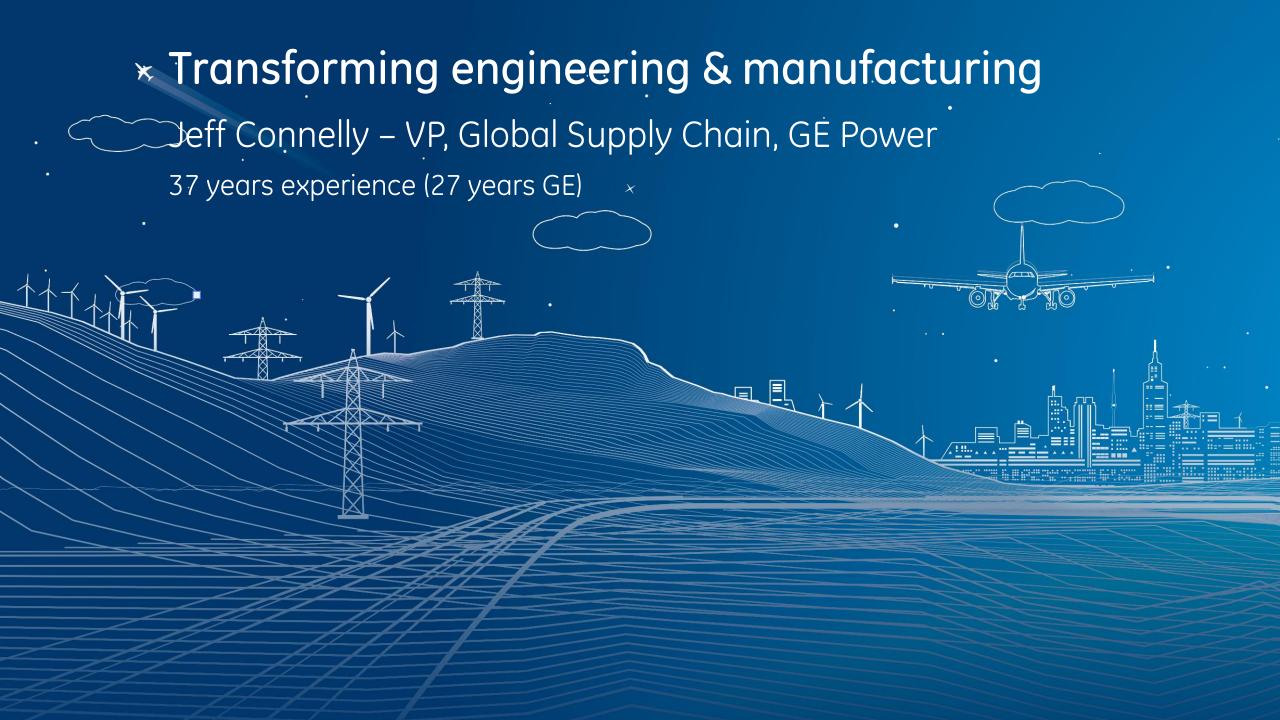
Better planning and prioritization ... on-time delivery \uparrow and turn-around time \downarrow

Retooling our Services team



- ✓ Reduced maintenance burden and disruptions
- ✓ More differentiated, customized TrueChoice offerings
- Better cost management ... emerging productivity tools
- ✓ Faster, simpler decisions
- ✓ A huge shift in how we learn and collaborate

Growth and productivity opportunities for our customers and GE



Total GE

Supply chain opportunity

- 450+ factories, 45 countries
- ~20K suppliers
- ~\$50B direct material
- \$20B+ conversion costs
- \$2B+ cost of quality

Digital Thread

Model Based Enterprise

Virtual validation – finding & fixing issues digitally

₹ 80% reduction in first time build defects

Intelligent models – automating & connecting designs

50% reduction in cycle & cost, plus improved FTQ

Brilliant Manufacturing Suite

Machine performance – preventing unplanned outages

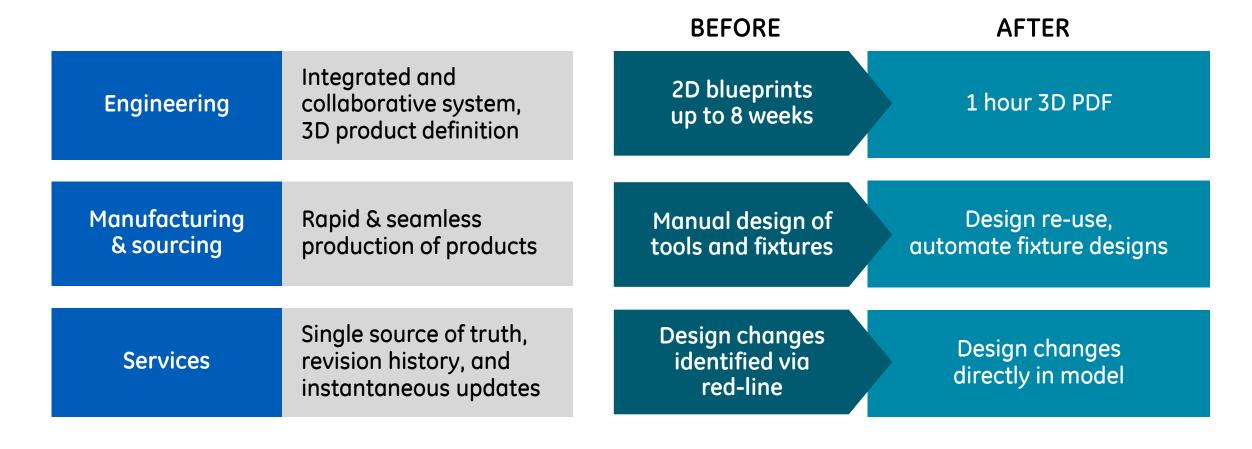
→ 7% productivity from machine availability

Quality – linking product to process

10% yield improvement from part/unit traceability

Digitally connecting & transforming global supply chain

Creating a digital model based enterprise



MBE + ERP + Predix = Digital Enterprise

Model-based transformation (Greenville, SC)

Results

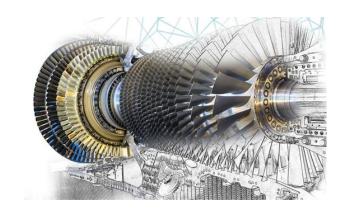
Design system integration
Single toolset for aero, heat transfer, stress, vibration analyses

Design productivity
Automation delivers 20% labor reduction

12K digital designs since inception

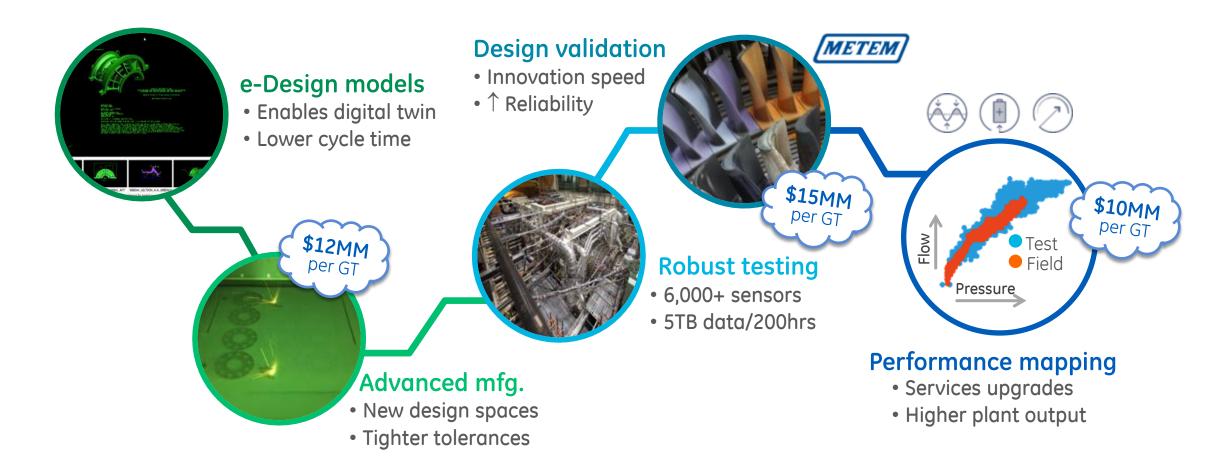
Results \$103MM across 3 years

- √ 60 of 200 steps automated/eliminated
- √ 530K hours saved across system
- √ 30% NPI cycle reduction
- √ 40% fewer manual inspection points



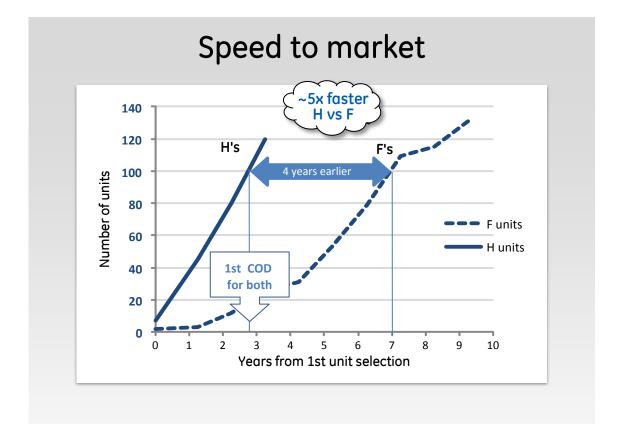


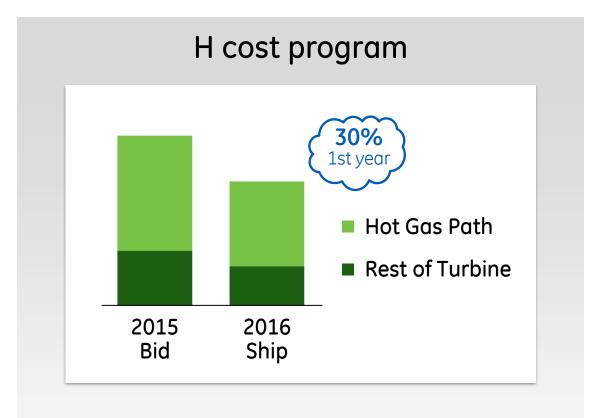
Integrated digital ecosystem



Continuous innovation delivering differentiated performance ...~\$30MM per GT

F vs. H gas turbine





~5X unit selections vs. F at first COD

 $k \sim 10^{th} H = 1,000^{th} F$

Applying additive technology

ToolingBoth metal & polymer tooling applications





NPI applications
Low rate initial production
Complex geometries
Lighter weight parts/ efficiency



Product offering differentiation

Unique concepts that leverage non-traditional solutions for customers





Production parts
LEAP fuel nozzle

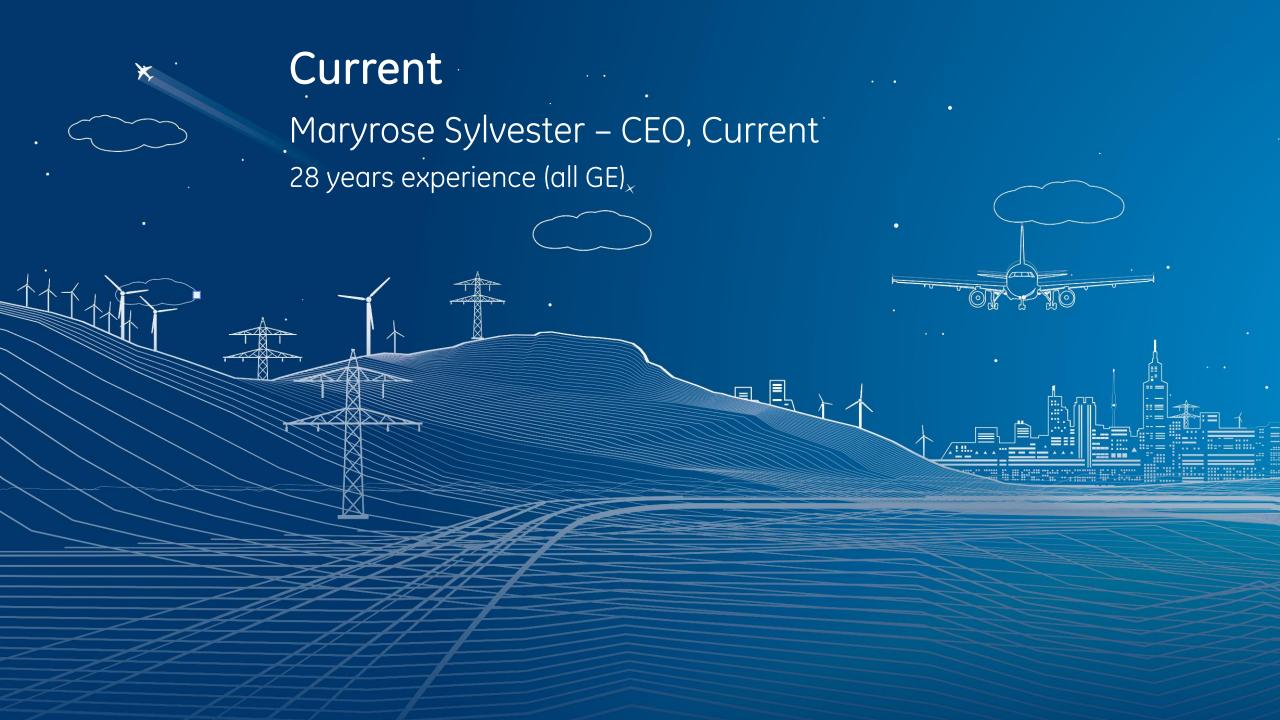




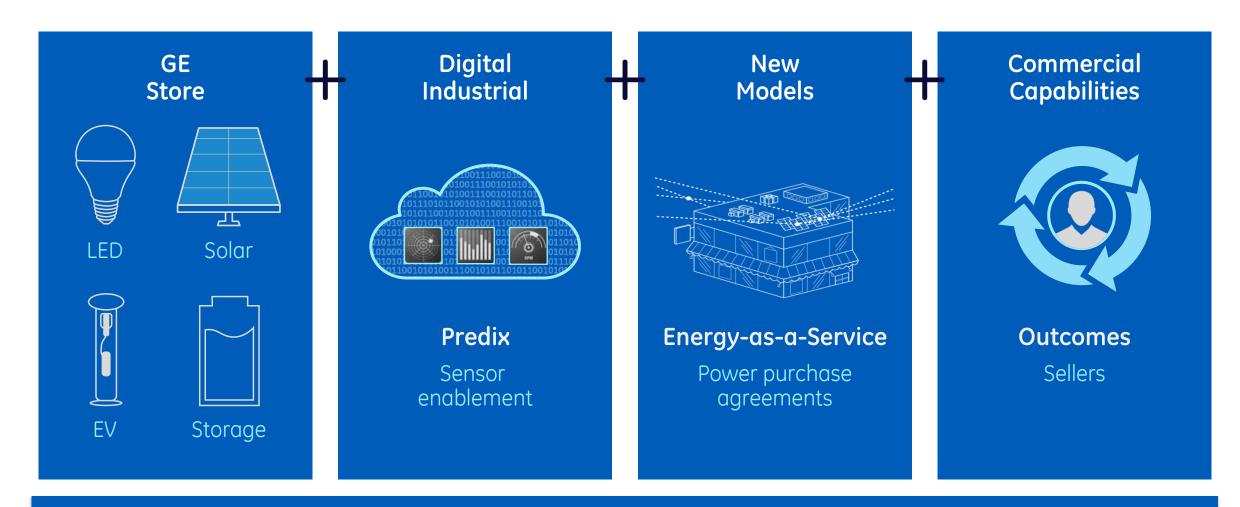
Repairs & Services
Crankshaft repair



Industrialization
Machine change-over
reduction In process
monitoring



Exploring new business models



Focused on customer outcomes ... reduce, produce, shift, optimize

Energy-as-a-service

Wave strategy

WAVE 3

Create a marketplace to monetize controlled assets in energy/grid service markets

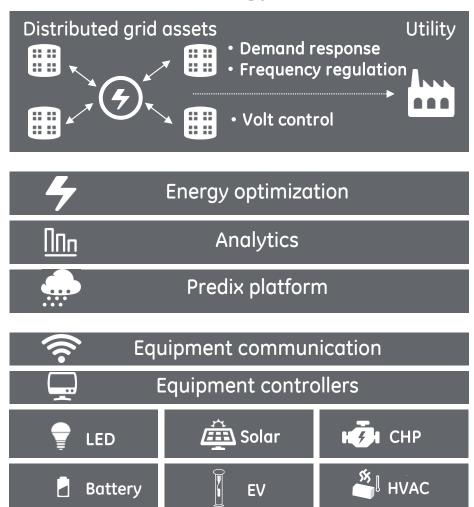
WAVE 2

Deliver energy savings, optimization and productivity through sensor-enabled cloud solutions

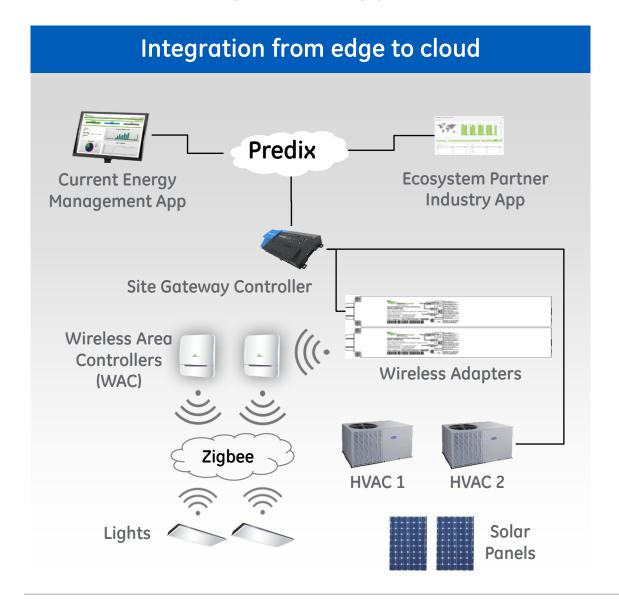
WAVE 1

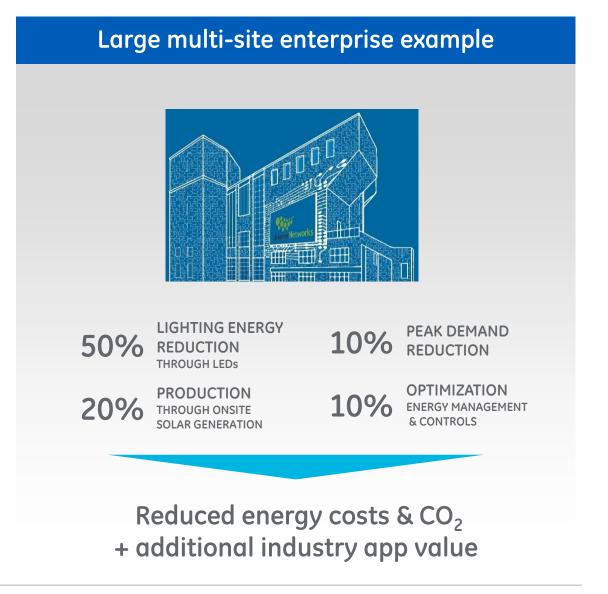
Build and operate largest network of connected, controlled, distributed energy assets

Technology stack



Unleashing energy-as-a-service





Customer application

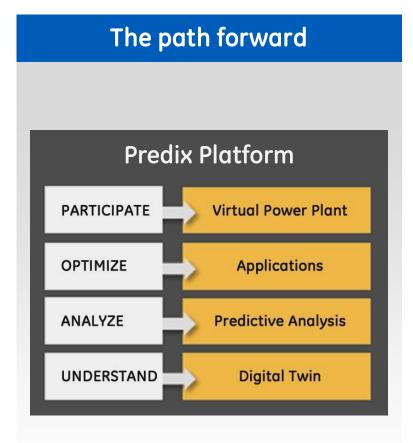
Need

Energy management solution for multi-site clients

Distributed hardware + software + service from multiple vendors + financing into secure single source platform



Operational savings & value added insights



Projected outcomes

Example:
Large Box retailer
annual savings
(~1,700 stores)

Electricity savings \$130MM

LED replacements \$25MM

LED utility rebates \$20MM

Tax incentives \$40MM

3 year payback ~ \$215MM year 1 savings

Working ~\$3B pipeline across 3 waves ... targeting \$5B total revenue by 2020



2016 operating framework

1 Operating EPS^{-a)}

\$1.45-1.55

- Organic growth of 2-4%
- Core margin expansion
- O&G $\sqrt{~30\%}$ offset by Aviation, Healthcare, Renewables, Power
- Corporate @ \$2.0-2.2B
- Alstom ~\$.05; Appliances gain ~\$.20^{-c)}
- Restructuring = gains
- Total FX impact ~\$(.02) at today's rates

Free cash flow+ dispositions

\$28-31B

\$29-32B

- CFOA of \$30-32B-b); ~\$18B Capital dividend-c) \$3-4B-b
- Dispositions of \$2-3B-b)
- Net P&E of ~\$4B

3 Cash returned to investors

~\$26B

- Dividend of ~\$8B
- Buyback of ~\$18B

Portfolio update

Appliances



- ✓ Deal closed June 6th
- √ \$5.6B cash proceeds
- ✓ \$3.1B pre-tax gain ... \$.20 EPS impact
- ✓ 2Q restructuring ~\$(.10)

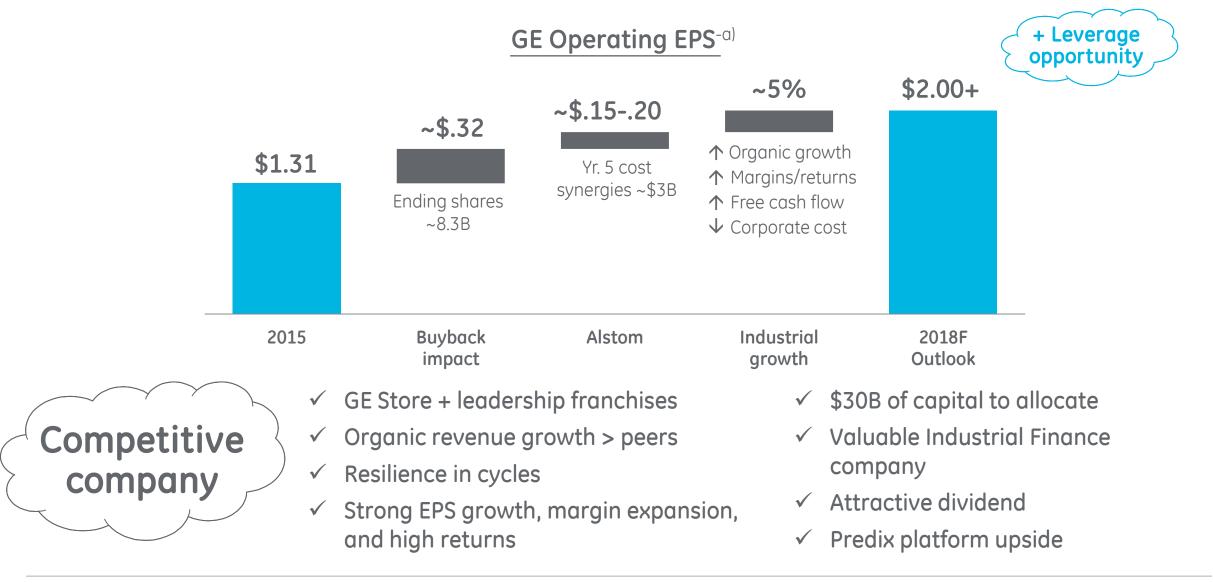
Good deal for GE and investors



- ✓ To go signings ... France, Italy, Korea, run-off
- ✓ Returned \$32B in dividends/split ... \$23B to go
- ✓ Focused on remaining sales, SIFI rescission and exit of European banking licenses

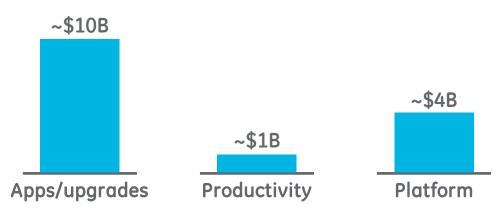
GE Capital exit plan 80%+ complete

Financial outlook



Aspirations of a Digital Industrial





- ✓ More value to customers and partners
- ✓ Significant productivity gains
- ✓ Predix as the #1 industrial platform

- \$10B Applications
 - ✓ 30%+ margins
 - ✓ Enhanced CSA value & upgrades
- \$1B Productivity
 - ✓ Digital thread deployment
 - ✓ Commercialization opportunity
- \$4B Platform
 - ✓ GE a market leader
 - √ 100k+ developers

On path to \$15B ... with bigger aspirations



imagination at work