



BRILLIANT FACTORY:
A NEW ERA OF MANUFACTURING

MANUFACTURING TRANSFORMATION

1900

INDUSTRIAL
REVOLUTION

1930

FORD
ASSEMBLY LINE

1980

TOYOTA
SYSTEM

2025

GE BRILLIANT
FACTORY

TODAY'S REALITY

POLICY &
LOCALIZATION

ADVANCED
ANALYTICS

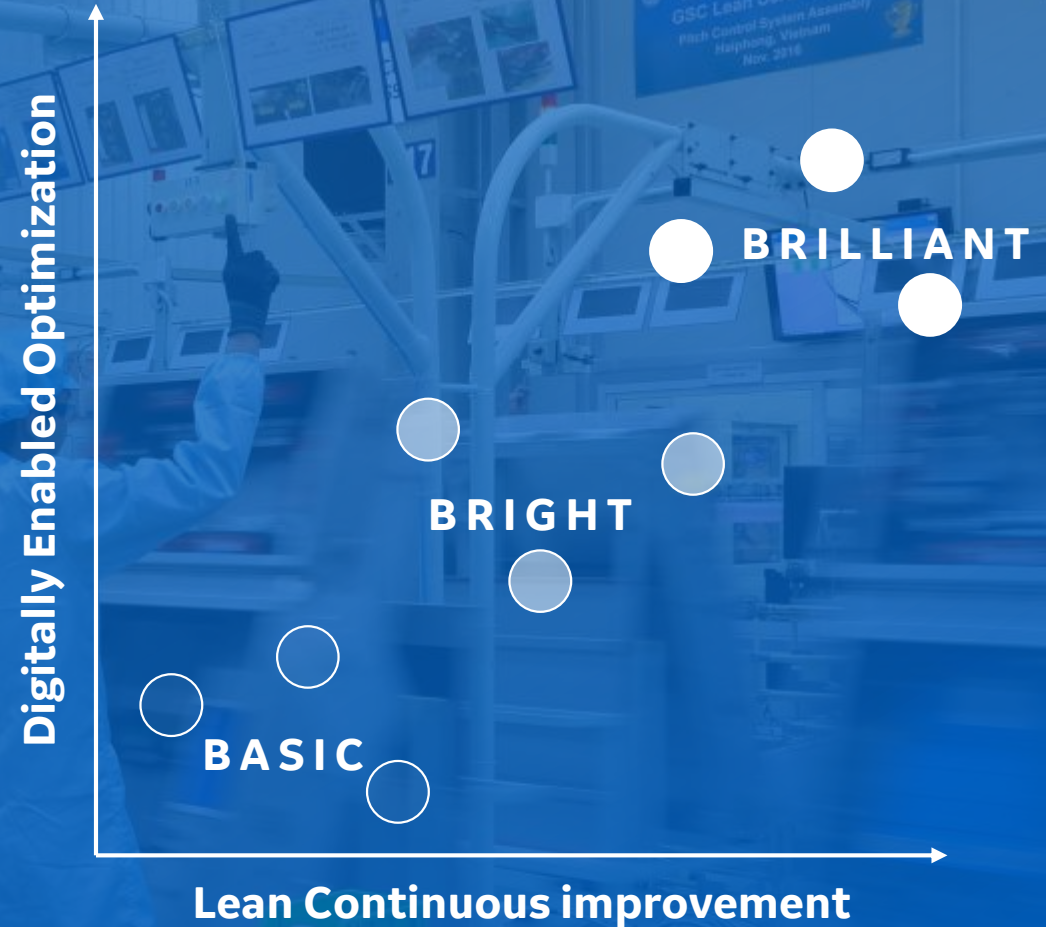
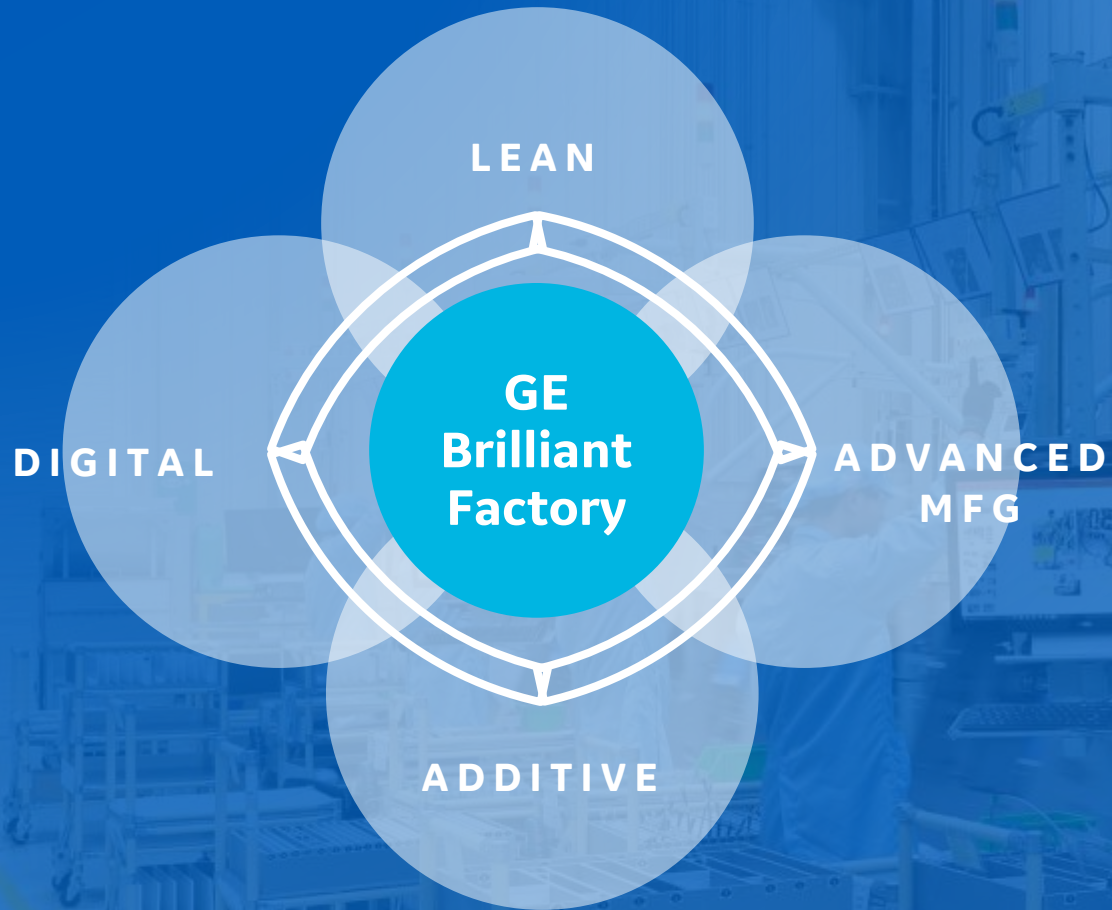
ADDITIVE
MANUFACTURING

ROBOTICS &
AUTOMATION

AUGMENTED
REALITY

WORKFORCE

Brilliant factory ... From concept to reality



Transformational productivity

GE ADDITIVE



MATERIALS



MACHINES + PREDIX



ENGINEERING



NEW VALUE CREATION

PRODUCTS

MANUFACTURING

SUPPLIERS

LOGISTICS


\$76B INDUSTRY
OPPORTUNITY

Brilliant factory showcases





NORTH AMERICA

-  **Aviation:** Muskegon, MI
-  **Transportation:** Grove City, PA (2 sites)
-  **Energy Connections:** Charlottesville, VA
-  **Oil & Gas:** Minden, NV
-  **Power:** Bangor, ME
-  **Lighting:** Hendersonville, NC

LATAM

-  **Healthcare:** Juarez, Mexico

EUROPE

-  **Oil & Gas:** Florence, Italy
-  **Power:** Jenbach, Austria
-  **Renewable Energy:** Salzbergen, Germany
-  **Power:** Elblag, Poland

ASIA

-  **Healthcare:** Beijing, China
-  **Multi-modal:** Pune, India
-  **Healthcare:** Hino, Japan
-  **Aviation:** Singapore
-  **Renewable Energy:** Haiphong, Vietnam

Training for the digital industrial future

BRILLIANT LEARNING FRAMEWORK



LEAN

ADVANCED

ADDITIVE

DIGITAL

Training for **150,000**
global supply chain
employees

Designed for **all levels**
of manufacturing

Custom-designed
and adapted to
individual **site needs**

Seminars, workshops, online courses, immersion boot camps

GE HEALTHCARE

Products:

CT systems, Ultrasound probes,
Imaging subsystems



HINO, JAPAN



CONNECTED MACHINES
DATA VISUALIZATION
REAL-TIME TRACKING

SUPPLY CHAIN BENEFITS

- ✓ Improve on-time delivery
- ✓ Reduce lead time 40-50%
- ✓ Reduce floor space 40-50%
- ✓ Improve productivity >25%
- ✓ Reduce investment needs

A NEW ERA OF MANUFACTURING

**INDUSTRY
DISRUPTION**



**New
opportunities**

**NEW VALUE
CREATION**



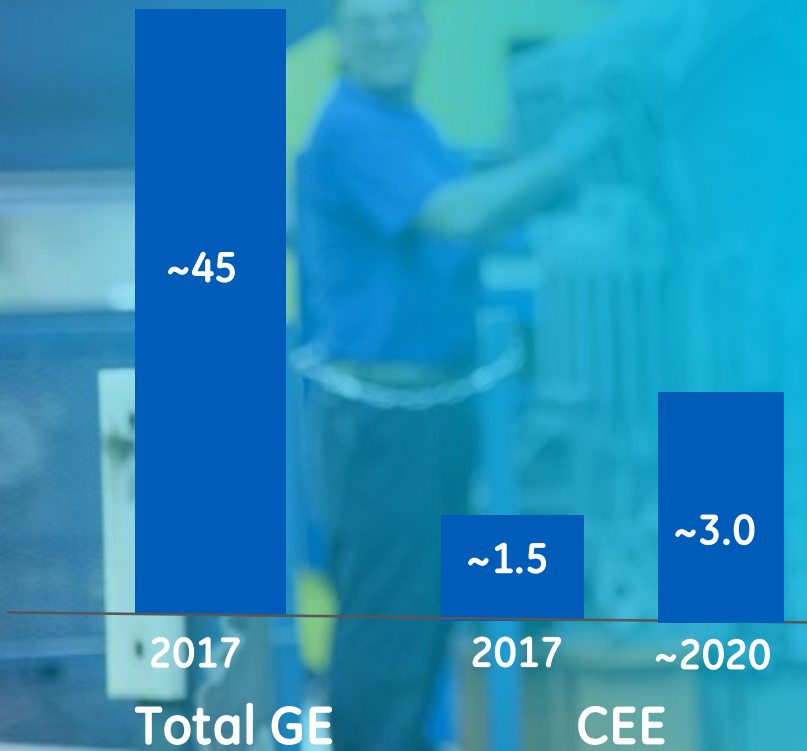
**Faster, better
products**

**SUPERCHARGED
PRODUCTIVITY**



**Simpler, shorter
supply chains**

GE Sourcing Profile



Why CEE

- Less than 4% of our spend in CEE today... under utilized
- CEE capabilities in key commodity areas
- Brilliant Factories need capable suppliers within reach...GE Footprint in Region

The Opportunities...



Forgings



Castings



Machining



Fabrication

✓ Focus on key commodities

✓ One GE Approach (work across businesses)

✓ Drive Scale and Cost

✓ Long Term Partnership

GE Renewable Energy
GSC Lean Certified Line
Pitch Control System Assembly
Haiphong, Vietnam
Nov. 2016

Keys to a successful Supplier Relationship

Our Brilliant Partners are:

- Capable...A foundation built on Quality, Integrity, Delivery
- Competitive...collaborate on driving solutions in tech and cost
- Lean...Relentless on cycle, connected to processes

Partner – “An entity that takes part in an undertaking with another entity with shared goals, risk, and benefits”



Balance the Equation

OUR VISION: GE is stronger and better when the diversity of our employees mirrors our customers and people whose lives our technology impacts. We need the world's best tech talent to work on challenges that truly matter. It's a **business imperative.**

Our Goal

20,000 women in Engineering, Digital, Manufacturing, & Product Management roles **by 2020**

RECRUIT:

Expand our reach and attract a technical team that reflects the world

50:50 in technical entry-level programs

Our Strategy

RETAIN:

Foster a culture where all can thrive

Grow, develop and promote equally

THOUGHT LEADERSHIP:

Ignite conversation and spur action

GE as THE Company for women in STEM