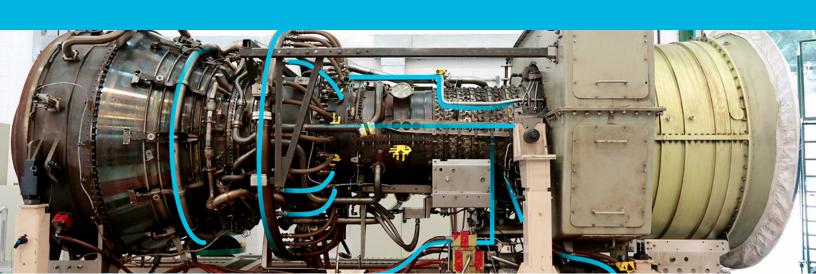
About Digital Thread

Digital Thread is the connection of data throughout the value stream, leveraging assets as the key to drive automation, collective information, and insights. By continuing to connect the Digital Thread, we are able to improve on-time delivery, increase profitability, advance customer satisfaction, drive incremental productivity, and generate revenue. Digital Thread is representative of the full end-to-end business process linking data and information throughout a product or system lifecycle.



Opportunity

Any time industrial equipment spends offline has a profound impact on productivity and ultimately revenue. GE has been focused on creating persona-based applications to improve overall productivity and digitizing our own equipment and field service operations using the same technology we sell to customers through the Digital Thread. **2016 Value Chain Productivity**



The result? **A \$700+ million** savings across GE.

Services	\$510	
Manufacturing/Supply Chain	\$90	
Engineering	\$70	
Cross-thread connecting across value chain	\$30	
Commercial	\$30	
† All figures are approximate.		

work spaces where cross-sections of GE employees collaborate on software and product development focused on business processes, data and analytics, digital thread, brilliant factories, security and risk, and Predix development. Together, they create applications focused on Digital Thread product lines: Engineering, Services, Supply Chain, Finance, and more.

We established digital hubs around the globe—real-world





of GE's services productivity was attributed to Service Automation standardizing field service tools throughout the GE Store.

\$200 million

Productivity savings driven by enhanced engineering designs and



assembly cycle reductions

↓ 90% cost of quality

reduction

- ↑ \$13m+ digital productivity savings
- **\$70 million** achieved through model-based enterprise, digital product,

improved fleet performance

intelligent designs enabling virtual validation, digital configuration & cost management,

digital manufacturing, digital services.



12 additional days of utilization^b a- Unscheduled engine removals 1H2016 b- Analytics-based inspection 1H2016



Brilliant Factories are excelling in other areas as well:

GE Digital's Brilliant Manufacturing solution

A sophisticated factory that combines lean, advanced, and additive manufacturing with advanced software analytics to enhance productivity.

Brilliant Factory

During the process, we realized "digital" is only part of the equation.



help improve productivity

and connectivity

(powered by Predix).

manufacturing

Systemic method to

maximize customer value

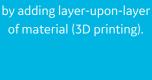
through elimination of waste within the system.

From concept to reality



Advanced

manufacturing



Additive

manufacturing

A method to build 3D objects

Transportation: Multi-modal: Healthcare: 2016 **Grove City** Pune Hino **Brilliant Factory** ↑ 7% efficiency ↓ 32% hrs/CT unit ∪ OCPH\$ by 40% showcases 10% →80% ↓ 42% CT lead time 18% equipment

We instituted a rigorous GE-wide monthly operating mechanism to accelerate lessons learned, share best practices, and expertise, as well as drive re-use of products. Here are seven Brilliant Factory showcase sites where digital solutions were built on a foundation of lean productivity:

• 100% lean certified lines (18/18) @ Hino Quarterly AWO → Monthly AWO

Hino Brilliant Factory accomplishment Lean

customized

work scopes

1 2 inventory turns

- · Achieved ZERO Cranes @ CT

100+ students in 2017

- Process flow • #17th Hino Lean Academy Complete Visualization

Digital

effectiveness

1 3 inventory turns

1 2 inventory turns

 Machine connect → Connected 24 machines Process connect → RFID/Beacon/Predix

→ 100% MES deployment

→ Data Lake, Predix

Future Brilliant Manufacturing plans

Factories in 2017 with a plan to grow to 300+

Consistent game plan & KPIs:

17 Brilliant









 Value stream maps • Lead times down

Visit www.ge.com/digital/brilliant-manufacturing

or call 1-855-YOUR1GE / 1-855-968-7143.







* For 2016. Spent >\$300M to generate the \$700M+ in savings

About GE Digital GE Digital connects streams of machine data to powerful analytics and people, providing industrial companies with valuable insights to manage assets and operations more efficiently. World-class talent and software capabilities driving digital industrial transformation for big gains in productivity, availability and longevity. We do this by leveraging Predix, our industrial cloud platform purpose built for the demanding safety