GE Additive Oppenheimer Annual Industrial conference

Mohammad Ehteshami Vice President & General Manager GE Additive May 9th 2017

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-forward-looking 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 "nonGAAP 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 <u>www.ee.com</u>.

General Electric Capital Corporation (GECC) has been merged into GE and our financial services business is now operated by GE Capital Global Holdings LLC (GECGH). In this document, we refer to GECC and GECGH as "GE Capital". We refer to the industrial businesses of the Company including GE Capital on an equity basis as "GE". "GE (ex-GE Capital)" and /or "Industrial" refer to GE excluding GE Capital. Our financial services segment previously referred to as GE Capital is now referred to as Capital. GE's Investor Relations website at <u>www.ge.com/investor</u> and our corporate blog at <u>www.gereports.com</u>, as well as GE's Facebook page and Twitter accounts, contain a significant amount of information about GE, including financial and other information for investors. GE encourages investors to visit these websites from time to time, as information is updated and new information is posted.



From fuel nozzle to bigger parts & systems in the future



1

Part cost reduction

Supplier productivity

System simplification

New product & performance entitlement



It started with one part ...

Capabilities of full production 35,000 - 40,000 per year

25





Proof point: Advanced Turboprop Engine (ATP)

Combustor test schedule reduced from **12 months** to **6 months**

No structural casting

59% WEIGHT REDUCTION

200/ LOWER MISSION FUEL BURN

855112 PARTS



Additive at GE Power & Oil & Gas

1 pt. of combined-cycle efficiency to 65%

Additive enabling single digit NOx capability





Additive productivity ... changing entitlements in GE

Accelerating internal adoption

2000+ GE business engineers engaged

100+ Focused application & material engineers

Results of the last 90 days

1000+ application ideas identified
110 prototypes made
\$500M+ new savings ex. Avation

Impacting value chain across GE





GE Enterprise level disruption





Same frame



Investing in machine technology

Concept Laser

- Key components
- Laser and gantry system
- Machine/scan control software
- Optics and sensors
- Product type
- Larger format; faster build speed

Arcam

- Key components
- Electron Beam 'gun' and filament
- Machine/scan control software
- Smaller capacity, faster build
- Product type
- High temperature build capability





Dynamics

- Accelerating machine technology with GE's knowledge from all industries
 - Better design
 - Bigger size (1 meter+)
 - Speed (10x)
- Differentiating machine technology with GE store: GRC & Digital
 - Product
 - Materials
 - Software & Predix
 - \$1.5B investment in past 6 years

Enabling technology for faster & larger parts to capture full potential



Building an additive material catalogue



- ✓ 6 GE businesses consume powder metal today
- ✓ GE has 346 patents in the material space
- \checkmark ~25% of powder metal sold will be additive by 2020

Enabling additive manufacturing for all industries



Creating a strong additive business



Critical for Success

Lead in technology... need to differentiate: speed, quality, multi-modality

Materials sophistication.. standards drive broader adoption

Application engineering....Demonstrate a clear path for productivity outcomes

Innovate commercial offerings ... enable true customer collaboration



Additive leading the manufacturing revolution



Source: WOHLERS

GE Additive's offering



GE)

GE Additive ... our combined mission

^{\$}1^B annual revenues by 2020

10,000 units sold by 2026

\$3-5B+ product cost-out by 2026

