Technology and innovation at GE

Mark Little Citi Global Industrials Conference September 21, 2011

Caution Concerning Forward-Looking Statements:

This document contains "forward-looking statements" – that is, statements related to future, not past, events. In this context, forward-looking statements often address our expected future business and financial performance and financial condition, and often contain words such as "expect," "anticipate," "intend," "plan," "believe," "seek," "seek," "seek," "seek," "seek," "seek," to be materially different degrees, uncertain. For us, particular uncertainties that could cause our actual results to be materially different than those expressed in our forward-looking statements include: current economic and financial conditions, including volatility in interest and exchange rates, commodity and equity prices and the value of financial assets; potential market disruptions or other impacts arising in the United States or Europe from sovereign debt issues; the impact of conditions in the financial and credit market and unemployment rates on the level of commercial and consumer credit defaults; changes in Japanese consumer behavior that may affect our estimates of liability for excess interest refund claims (Grey Zone); potential financial implications from the Japanese natural disaster; our ability to maintain our current credit rating and the impact on our funding costs and competitive position if we do not do so; the adequacy of our cash flow and earnings and other conditions which may affect our ability to pay our quarterly dividend at the planned level; the level of demand and financial performance of the major industries we serve, including, without limitation, air and rail transportation, energy generation; strategic actions, including acquisitions, joint ventures and dispositions and our success in completing announced transactions and integrating acquired businesses; and numerous other matters of national, regional and global scale, including those of a political, economic, business and competitive nature. These uncertainties may cause our actual future results to be materially different than those expressed in

"This document may also contain non-GAAP financial information. Management uses this information in its internal analysis of results and believes that this information may be informative to investors in gauging the quality of our financial performance, identifying trends in our results and providing meaningful period-to-period comparisons. For a reconciliation of non-GAAP measures presented in this document, see the accompanying supplemental information posted to the investor relations section of our website at www.ge.com."

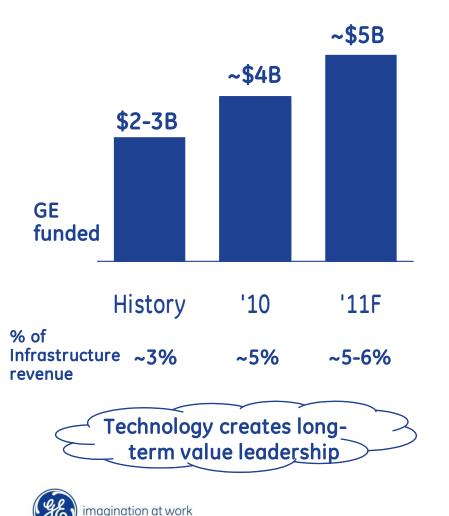
"Effective January 1, 2011, we reorganized our segments. We have reclassified prior-period amounts to conform to the current-period's presentation."

"In this document, "GE" refers to the Industrial businesses of the Company including GECS on an equity basis. "GE (ex. GECS)" and/or "Industrial" refer to GE excluding Financial Services."



Launch great new products

2X R&D investment



Technical foundation for growth

- + Gain profitable share through execution, innovation & more NPI
- + Execute difficult technologies better than competition
- + Reverse innovation ... new products at more price points with higher margins
- + Lower cost & higher margins

Enterprise value: scale

- ✓ Global research framework
- \checkmark Lead in core technologies
- ✓ Partner of choice

Expanding our global presence



Global Research HQ Niskayuna, NY

Manufacturing & Software Ann Arbor, MI



Brazil **Technology** Center coming soon



Global Research - Europe Munich, Germany



Shanghai, China



John F. Welch **Technology Center Bangalore**, India



magination at work

Global Research at GE

- ✓ Deliver core technologies for New Product Introductions
- ✓ Invent new technology and new businesses
- Harness advanced technologies
- ✓ Spread technology across GE
- \checkmark Develop world-class talent
- Form technology partnerships and foster collaboration

Clear mission ... core to GE

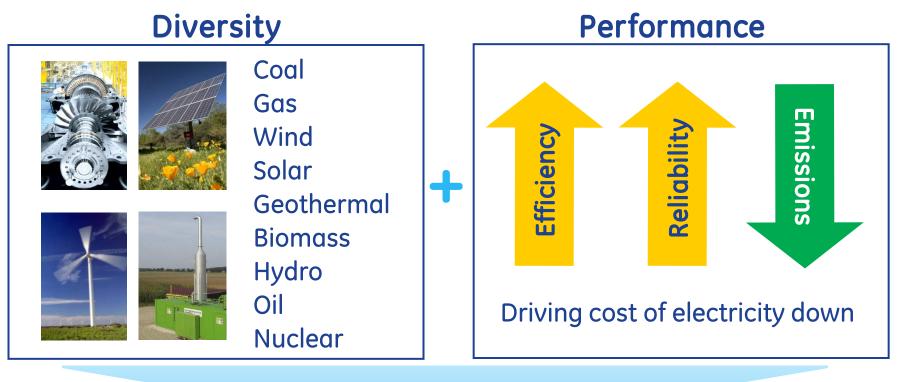




Energy R&D



A range of technologies are needed to resolve our energy challenges



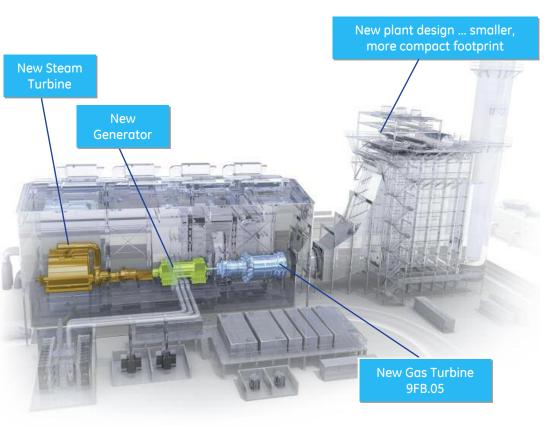
Affordable, reliable & environmentally responsible



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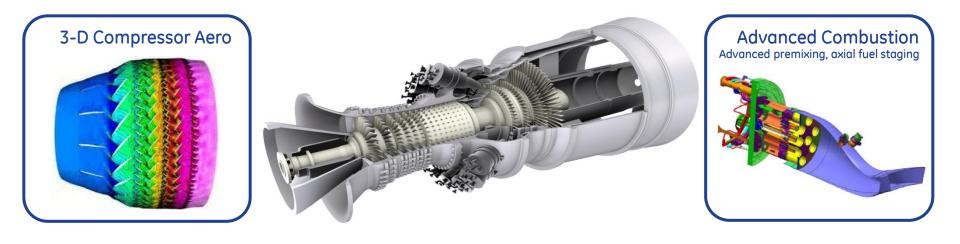
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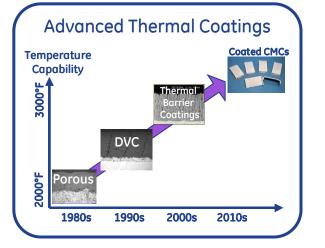
Flex EfficiencyTM 50 launch Efficiency and flexibility



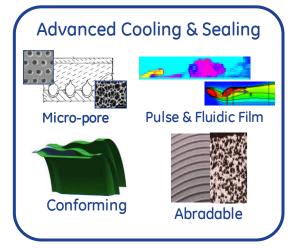
- 61%+ baseload efficiency ...
 510MW
- One-button start ... less than 30 minutes
- 51 MW/min ramp rate ... 50% faster than industry benchmark
- Innovative plant design ... two year construction schedule
- 18-year rotor life

Redefining turbine efficiency











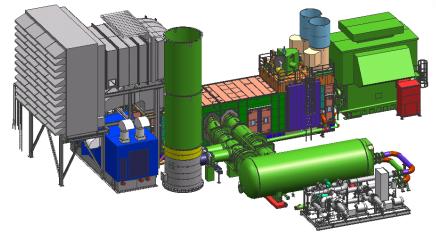
Path toward 65% combined cycle efficiency

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Aeroderivative gas turbine GE LMS100®





- 44% simple cycle efficiency
- Flexible gas turbine
 - High part load efficiency
 - 10 minute start
 - High ramping capability
- Technology to enable more wind and solar power on the grid

Back-up power for renewables



Taking wind to the next level

Longer blade ... New composite core with aero elastic design, for 8% power increase

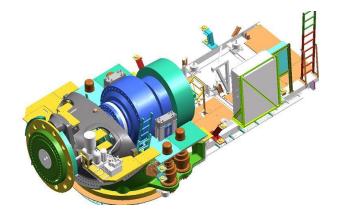
Smaller Drivetrain ... improved reliability with ~20% mass reduction for ~0.5% AEP increase

Power electronics ... 50% increase in power density, with ~0.5% reduction in losses

Model based control ... ~1% AEP increase, 10% reduction in loads and expanded operation envelope

nagination at work





Driving cost leadership onshore, expanding offshore

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Differentiating large scale solar

Utility scale solutions

- Racking & wiring
- Thin film efficiency excellence
- Superior energy capture
- Smarter grid integration
- Proven power electronics
- Faster installation

Commercial rooftop solution



- Lightweight, high eff. thin film module
- Rugged system design with no roof penetration
- Modular and scalable; enhanced inverter portfolio

Building on 100+ years of power generation expertise



Subsea technology ... pipeline for new oil production

- Move oil processing from the surface to the seabed floor
- Double amount of recoverable oil from 35% to 70% in existing wells ... access new, untapped reserves
- Driving remote, monitoring & diagnostic (RM&D) technologies for increased safety and reliability



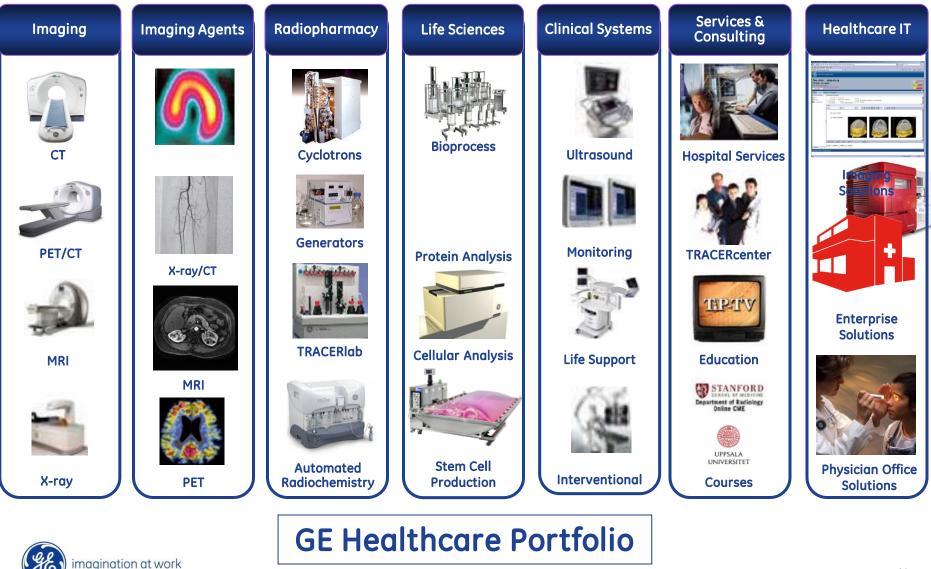
Seafloor processing



Healthcare Solutions



Broad focus... technology throughout



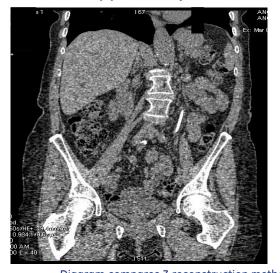
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Computed Tomography Improved image quality, lower dose

Filtered Back Projection

Basic reconstruction... used for the past 30+ years

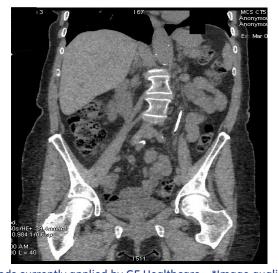
Limited dose reduction opportunity



Statistical iterative image reconstruction

ASiR[™]

Improved image quality at lower dose*



Veo™

Full model-based image reconstruction Exceptional image quality at the even lower dose*



10 years of investments resulting in 4X dose reduction



Veo is 510(k) pending. Not available for sale in the U.S.

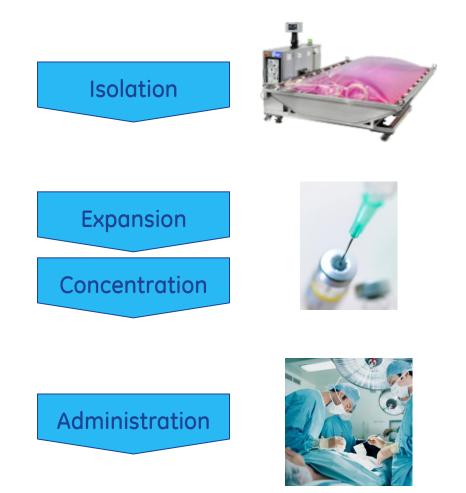
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Cell Therapy

Taking the next strides in enabling cell therapy

- Access and penetration of future clinical markets by "designing-in" technologies into translational & clinical research
- GEHC to provide therapyagnostic, regulatory compliant processing products for cell expansion & harvesting





Digital Pathology

1650s - Today



Tissue on glass slides viewed and diagnosed under microscope

Tomorrow



Pathologist diagnoses via digital image

Improves

Pathologist Productivity

➤ Collaboration

> Accuracy

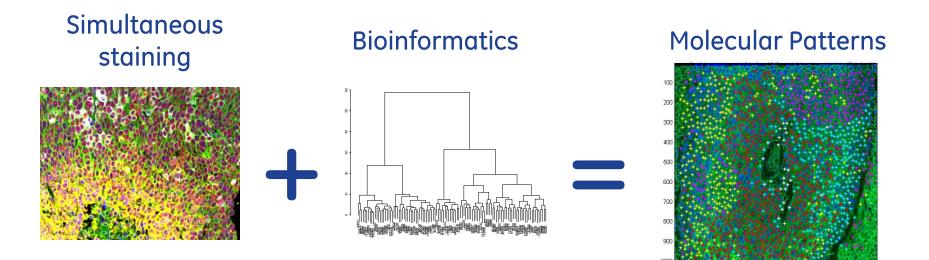
Speed of Result

Computer aided diagnostics



Molecular Pathology

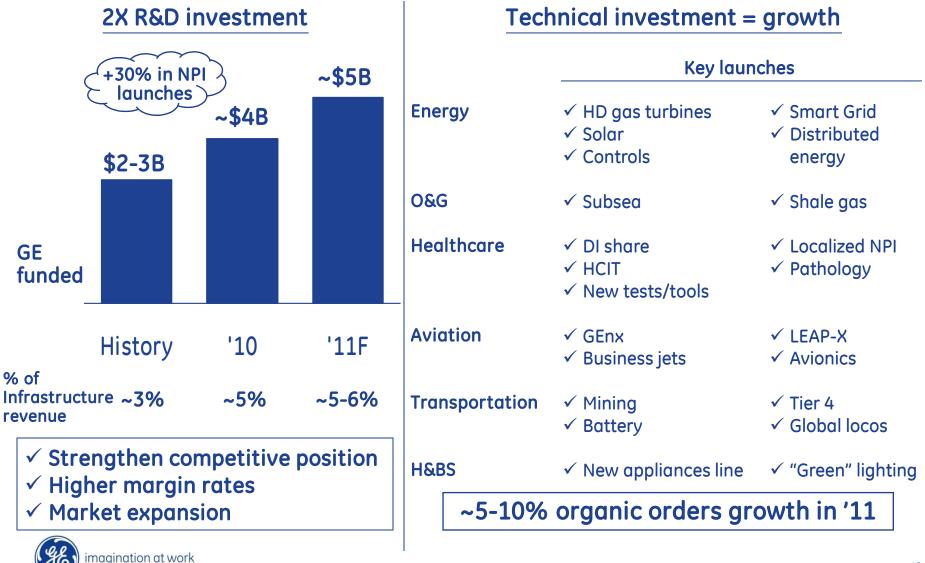
Interrogating multiple biomarkers



- Drug development
- Companion diagnostics
- Prognostic markers/disease staging



Launch great new products





imagination at work