GE Industrial Internet

Oded Meirav
GE GR – Israel Technology Center
The real opportunity for change... surpassing the magnitude of the consumer Internet... is the Industrial Internet, an open, global network that connects people, data, and machines.

Jeff Immelt
GE Chairman & CEO
Transforming massive volumes of information into intelligence

Generating data-driven insights and enhancing asset performance
Industrial Internet: business value

Efficiency and cost savings
The ability to model and understand the physical world makes it easier to optimize assets and processes

New customer services
Data and the insights it provides will enable new customer services and business models

Risk avoidance
Increased visibility and control help address environmental, health, and human safety issues
The value to customers is huge

Connected machines could eliminate up to $150 billion in waste across industries

<table>
<thead>
<tr>
<th>Industry</th>
<th>Segment</th>
<th>Type of savings</th>
<th>Estimated value over 15 years (Billion nominal US dollars)</th>
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</thead>
<tbody>
<tr>
<td>Aviation</td>
<td>Commercial</td>
<td>1% fuel savings</td>
<td>$30B</td>
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<tr>
<td>Healthcare</td>
<td>System-wide</td>
<td>1% reduction in system inefficiency</td>
<td>$63B</td>
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<tr>
<td>Rail</td>
<td>Freight</td>
<td>1% reduction in system inefficiency</td>
<td>$27B</td>
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<td>Power</td>
<td>Gas-fired generation</td>
<td>1% fuel savings</td>
<td>$66B</td>
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<td>Oil and Gas</td>
<td>Exploration and development</td>
<td>1% reduction in capital expenditures</td>
<td>$90B</td>
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Note: Illustrative examples based on potential one percent savings applied across specific global industry sectors. Source: GE estimates
GE brings experience and expertise...

<table>
<thead>
<tr>
<th>Internet and cloud</th>
<th>Intelligent machines</th>
<th>Analytics</th>
<th>Big Data</th>
<th>Emerging experiences</th>
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<tbody>
<tr>
<td>Hyper-connectivity: machines, data and people</td>
<td>System intelligence through embedded software</td>
<td>Data-driven insights, enhanced asset performance</td>
<td>Democratization of data</td>
<td>Interaction with intelligent systems Multi-modal experiences Collaboration</td>
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<td>Decision support</td>
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<td>Information exploration and visualization</td>
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<td>Mobile and embedded contexts</td>
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GE’s Industrial Internet software platform

1. One platform
2. One architecture
3. Modular, cloud-agnostic approach
4. Faster development, operation and management
5. Secure connectivity

From machine

cloud

On premise server
GE Predictivity™ solutions

**GE Aviation**
Fuel performance, risk insight, navigation insight and fight synchronization

**GE Healthcare**
Asset management, patient safety, patience flow, collaboration across networks

**GE Manufacturing**
Manufacturing process, food safety assurance

**GE Oil & Gas**
Total equipment reliability, sub-sea inspection system optimization, field production and pipeline insights

**GE Mining**
Concentrator insights and efficiency – maximum mine production

**GE Power Distribution**
Grid delivery optimization – advanced meter insights

**GE Power Generation**
Turbine power flexibility and performance, maximizing asset lifetime

**GE Wind**
Wind turbine performance, total wind farm output maximized

**GE Water**
Connected controls for plant operations to increase efficiencies and reliability

**GE Rail**
Locomotive Uptime, trip insights, maintenance and parts management
Thank you