

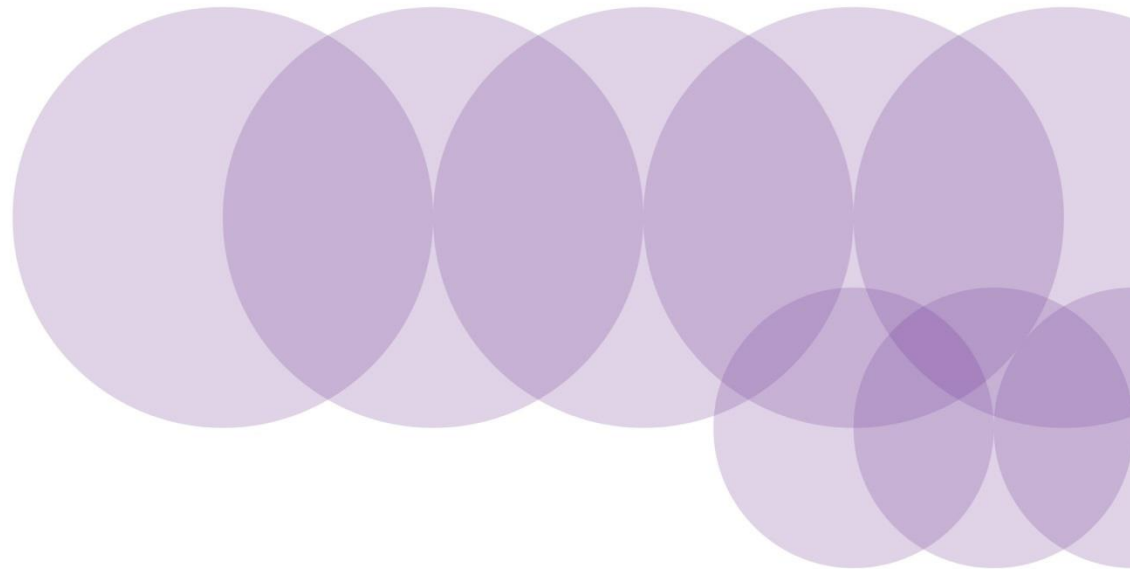
GE Industrial Internet

Oded Meirav

GE GR – Israel Technology Center



GE Software



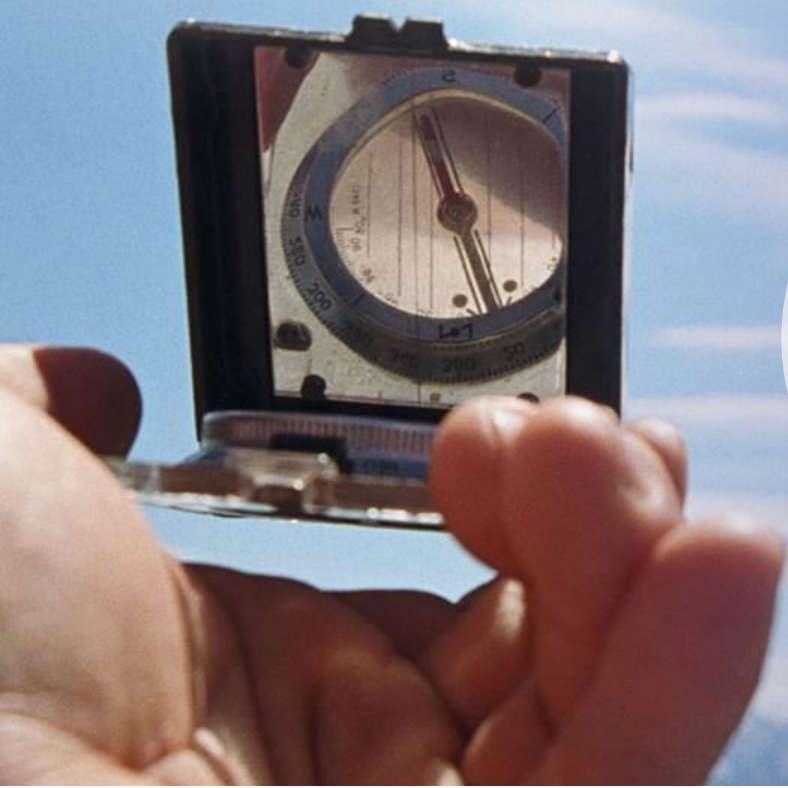


The vision is clear

“

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



Forces shaping the Industrial Internet

1 Internet of things

A living network of machines, data, and people

2 Intelligent machines

Increasing system intelligence through embedded software

3 Big Data

Transforming massive volumes of information into intelligence

4 Analytics

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

	Industry	Segment	Type of savings	Estimated value over 15 years (Billion nominal US dollars)
	Aviation	Commercial	1% fuel savings	\$30B
	Healthcare	System-wide	1% reduction in system inefficiency	\$63B
	Rail	Freight	1% reduction in system inefficiency	\$27B
	Power	Gas-fired generation	1% fuel savings	\$66B
	Oil and Gas	Exploration and development	1% reduction in capital expenditures	\$90B

Note: Illustrative examples based on potential one percent savings applied across specific global industry sectors. Source: GE estimates



GE brings experience and expertise...

Internet and cloud

Hyper-connectivity: machines, data and people

Intelligent machines

System intelligence through embedded software

Analytics

Data-driven insights, enhanced asset performance

Big Data

Democratization of data

Emerging experiences

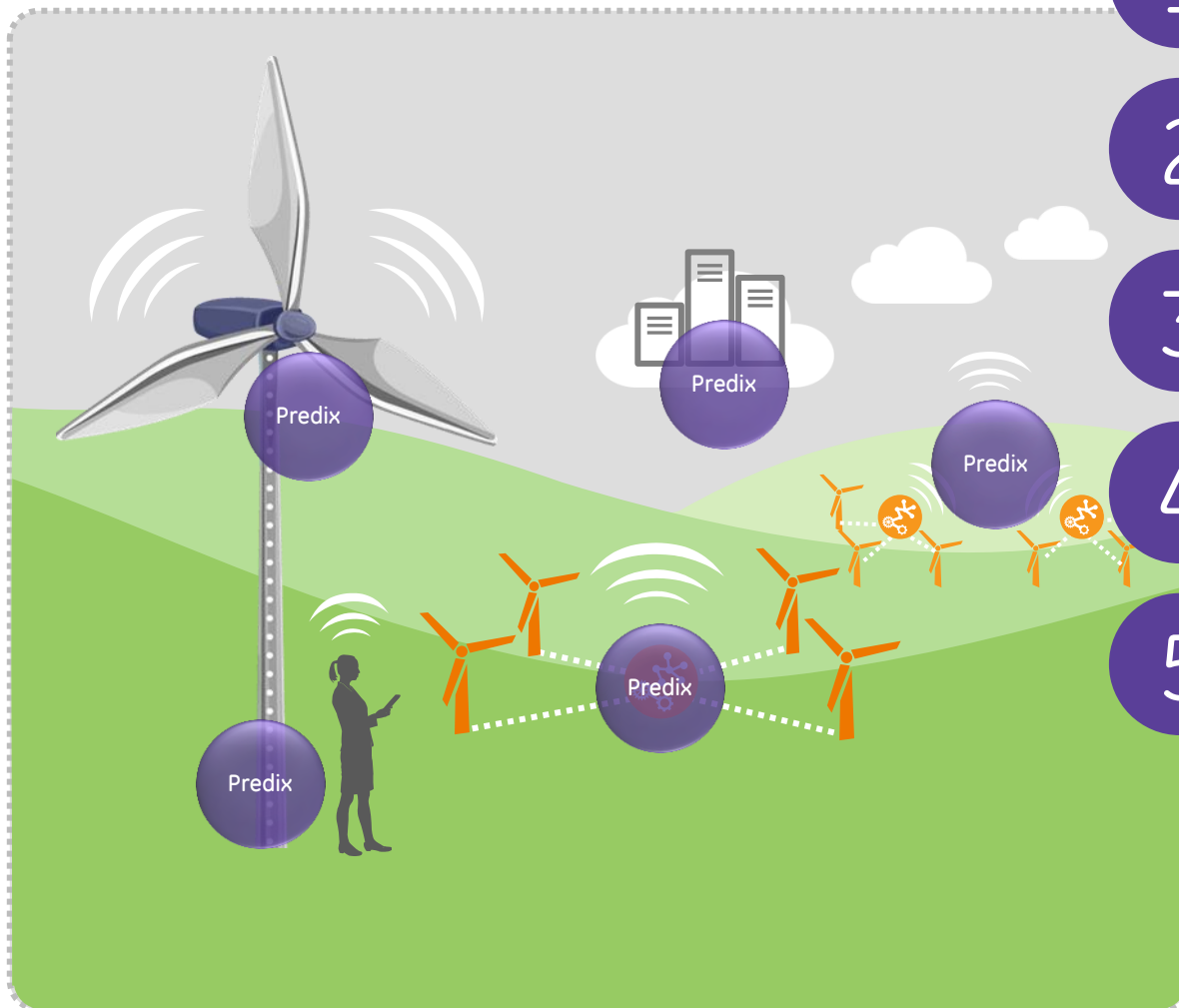
Interaction with intelligent systems
Multi-modal experiences
Collaboration

Decision support

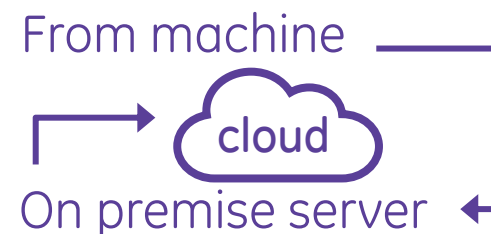
Information exploration and visualization

Mobile and embedded contexts

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



GE Predictivity™ solutions



GE Aviation

Fuel performance, risk insight, navigation insight and flight synchronization



GE Power Distribution

Grid delivery optimization – advanced meter insights



GE Healthcare

Asset management, patient safety, patient flow, collaboration across networks



GE Power Generation

Turbine power flexibility and performance, maximizing asset lifetime



GE Manufacturing

Manufacturing process, food safety assurance



GE Wind

Wind turbine performance, total wind farm output maximized



GE Mining

Concentrator insights and efficiency – maximum mine production



GE Water

Connected controls for plant operations to increase efficiencies and reliability



GE Oil & Gas

Total equipment reliability, sub-sea inspection system optimization, field production and pipeline insights



GE Rail

Locomotive Uptime, trip insights, maintenance and parts management

Thank you



GE Software

