SIEMENS Ingenuity for life

## Top innovations in electrification, automation, and digitalization – for the U.S. and by the U.S.

Innovation Day USA 2017 | Princeton, March 27, 2017 Kurt D. Bettenhausen, Siemens Corporate Technology USA

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#### **Notes and forward-looking statements**



This document contains statements related to our future business and financial performance and future events or developments involving Siemens that may constitute forward-looking statements. These statements may be identified by words such as "expect," "look forward to," "anticipate" "intend," "plan," "believe," "seek," "estimate," "will," "project" or words of similar meaning. We may also make forward-looking statements in other reports, in presentations, in material delivered to shareholders and in press releases. In addition, our representatives may from time to time make oral forward-looking statements. Such statements are based on the current expectations and certain assumptions of Siemens' management, of which many are beyond Siemens' control. These are subject to a number of risks, uncertainties and factors, including, but not limited to those described in disclosures, in particular in the chapter Risks in the Annual Report. Should one or more of these risks or uncertainties materialize, or should underlying expectations not occur or assumptions prove incorrect, actual results, performance or achievements of Siemens may (negatively or positively) vary materially from those described explicitly or implicitly in the relevant forward-looking statement. Siemens neither intends, nor assumes any obligation, to update or revise these forward-looking statements in light of developments which differ from those anticipated.

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Due to rounding, numbers presented throughout this and other documents may not add up precisely to the totals provided and percentages may not precisely reflect the absolute figures.

MindSphere Open operating system for the Internet of Things

Artificial Intelligence The next level of intelligence



Additive Manufacturing The Future of Manufacturing

Microgrids Key component in a decentralized energy supply



Intelligent Infrastructure Digital transformation of buildings and travel

# Our cloud-based, open IoT operating system MindSphere in action

- MindSphere has data analytics and connectivity capabilities, tools for developers, applications and services.
- It enables industrial enterprises to improve the efficiency of systems through the acquisition and analysis of large quantities of production data.



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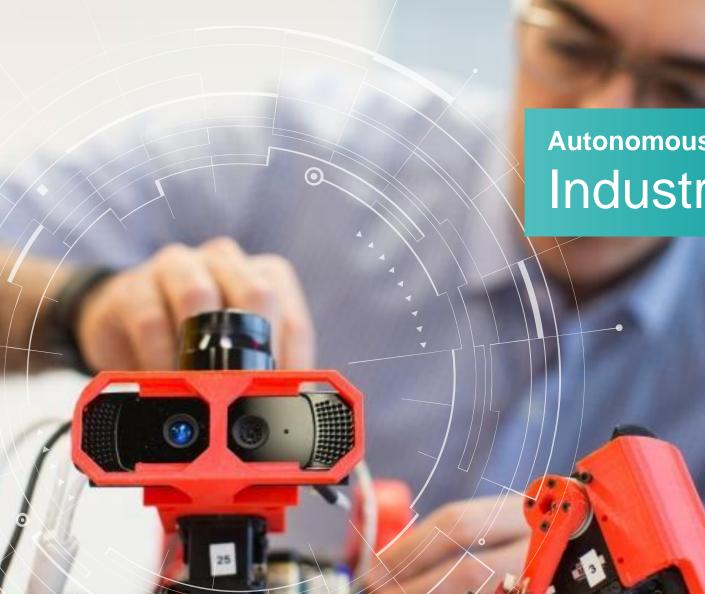
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- Additive Manufacturing (AM) links the virtual and the real world – bringing Digitalization into production.
- Siemens industrializes AM by mastering the entire software and hardware value chain.
- We use AM for our own products and for customers.



#### Autonomous Robots Industrie 4.0 live

- Autonomous systems carry out jobs on their own
  without having detailed programming instructions.
- They know their skills and understand tasks.
- These robots can even readjust themselves, in real time if necessary, to react to unforeseen events like pieces that may have shifted on an assembly line.

Artificial Intelligence The next level of intelligence

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- Siemens uses Artificial Intelligence (AI) already to optimize industrial applications.
- The technology helps optimize the emissions from and performance of gas turbines and wind turbines, for example.
- We have been working on AI for more than 30 years.

### Microgrids Key component in a decentralized energy supply

- Microgrids are the next big player in the world's clean energy transformation.
- They create an important emerging growth market in a customer-centric distributed energy supply.
- About two thirds of respondents to a survey among utilities plan to install a microgrid in the next five years.

Kurt D. Bettenhausen



### Intelligent Infrastructure Digital transformation of buildings and travel

- Our intelligent infrastructure solutions are bringing American buildings and transportation systems into the 21<sup>st</sup> century.
- Rail systems will be safer and more reliable.
- Travel will be smarter and connected.
- Buildings will be better managed and energy efficient.

Kurt D. Bettenhausen

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