SIEMENS

Industry 4.0 & the Digital Enterprise

Siemens Digital Enterprise Realization – October 2016

Restricted © Siemens AG 2015

Industry is Again Seen as an Engine of Growth and Stability

Economies around the world are investing

USA

"Manufacturing Renaissance"

- Formation of a "National Network for Manufacturing Innovation"
- Lower cost energy initiatives
- **Smart Manufacturing Leadership Coalition**

Germany

Maintain leading industrial position

- Sustainable investment in innovative strength
- High level of exports
- **Industry 4.0 as new guiding principle**

China

Higher product quality by use of high-end technology

- Rising wages
- Need for quality driven demand for automation
- Energy efficiency legislation
- **Intelligent Manufacturing**

Japan

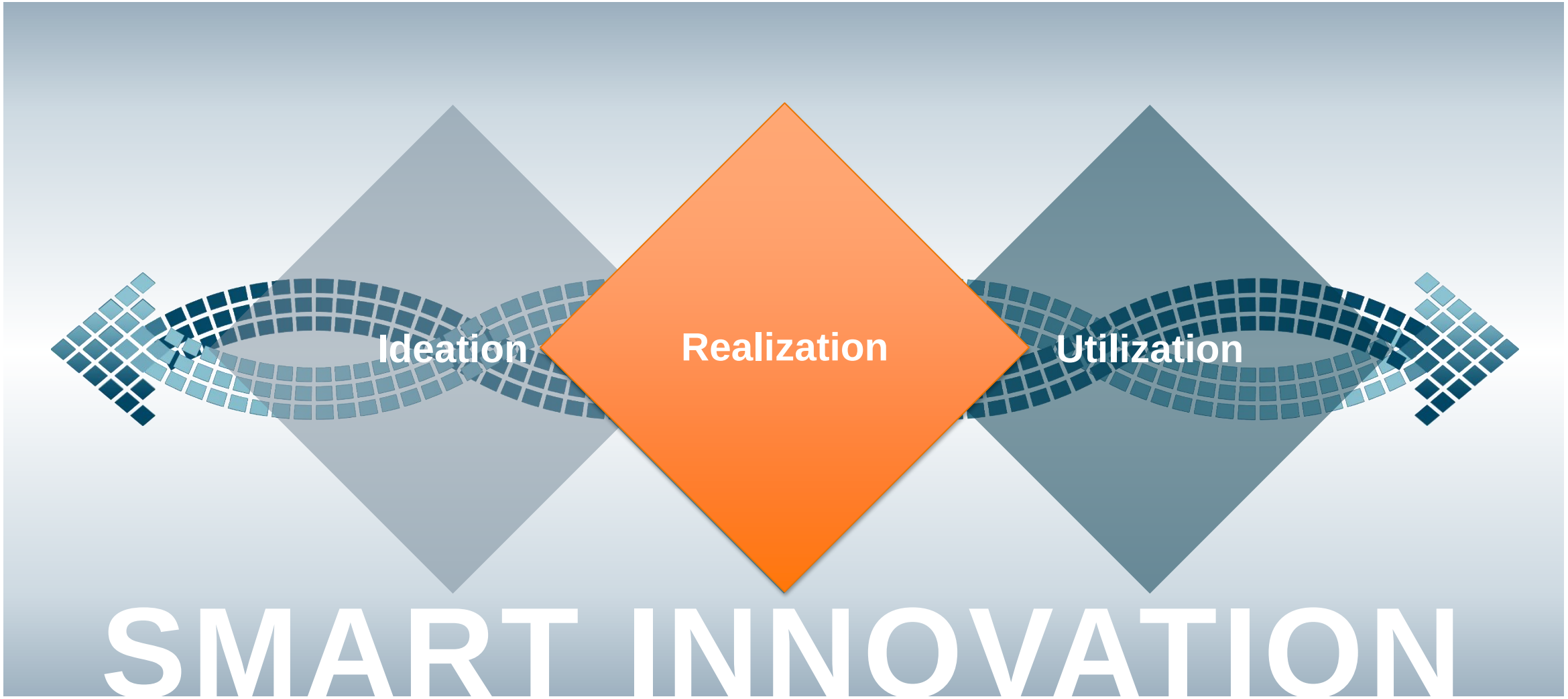
A cohesive “innovation program” at all levels

- Science, technology and industry linked together
- HR development
- Retain manufacturing of complex products
- **“Innovation 25”initiative**

Restricted © Siemens AG 2015

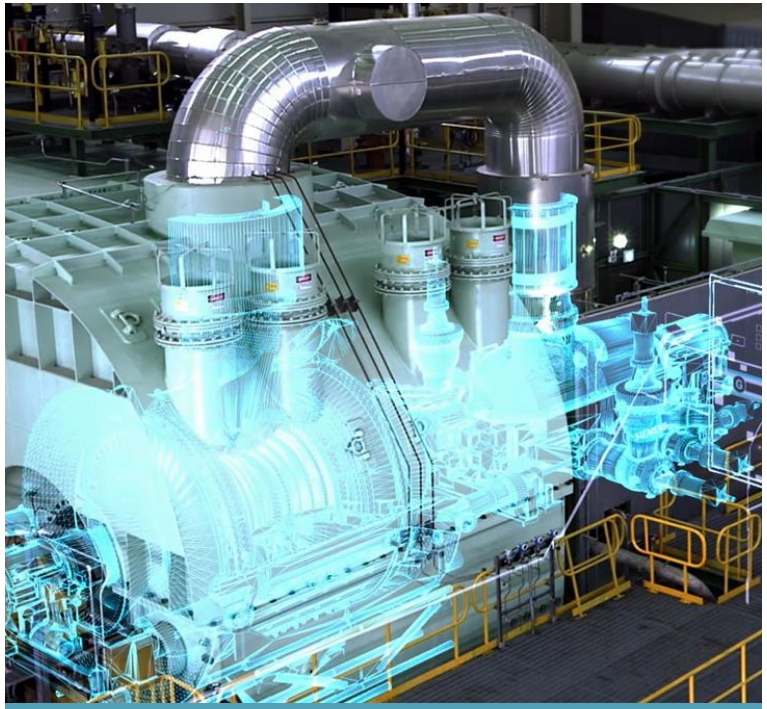
What Does it Take to Compete?

Fully digitalized businesses deliver both product and process innovation



Restricted © Siemens AG 2015

Realize Innovation within the Digital Enterprise



Digitalization makes the digital thread a proactive agent to drive new business opportunity.

Digitalization requires a holistic approach that addresses the full value chain.

Siemens is focused on transforming innovation in the Digital Enterprise.

Restricted © Siemens AG 2014

“Digital Enterprise” Software Suite –
The Only Enterprise-Wide Solution for Digital Manufacturing

SIEMENS

PLM Software Portfolio

- Product Planning, Design, & Testing
- Production & Quality Planning, Engineering and Simulation
- Configuration, Change, BOM & Document Management
- Systems Engineering
- Supplier Management
- Product Support...

+

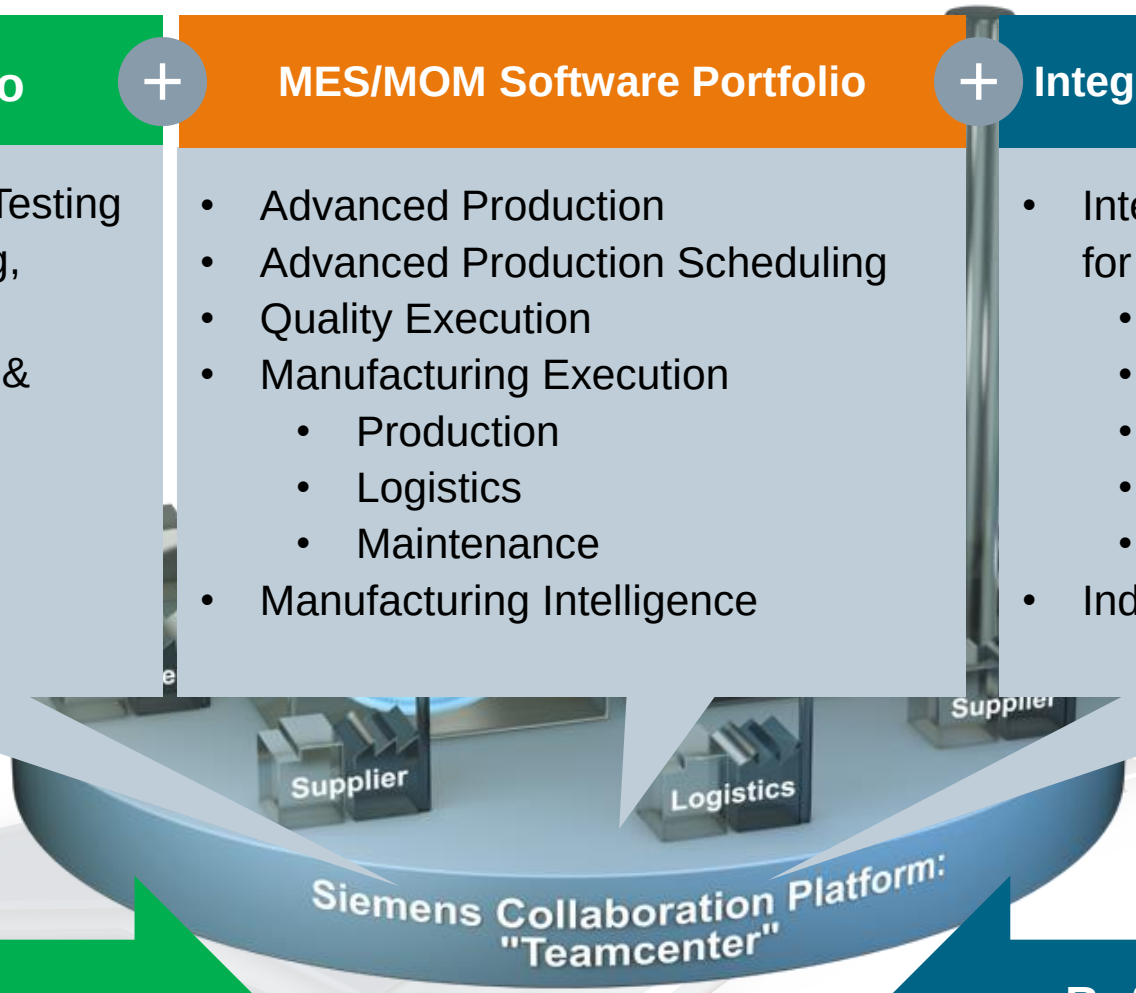
MES/MOM Software Portfolio

- Advanced Production
- Advanced Production Scheduling
- Quality Execution
- Manufacturing Execution
  - Production
  - Logistics
  - Maintenance
- Manufacturing Intelligence

+

Integrated Automation Portfolio

- Integrated engineering and runtime for :
  - Controllers
  - Distributed I/O
  - SCADA / HMI
  - Drives & Motors
  - Motion Control
- Industrial Safety and Security



Top-down Product-driven

Bottom-up Process-driven

SIEMENS

Thanks

Restricted © Siemens AG 2015