## **Smart Manufacturing**

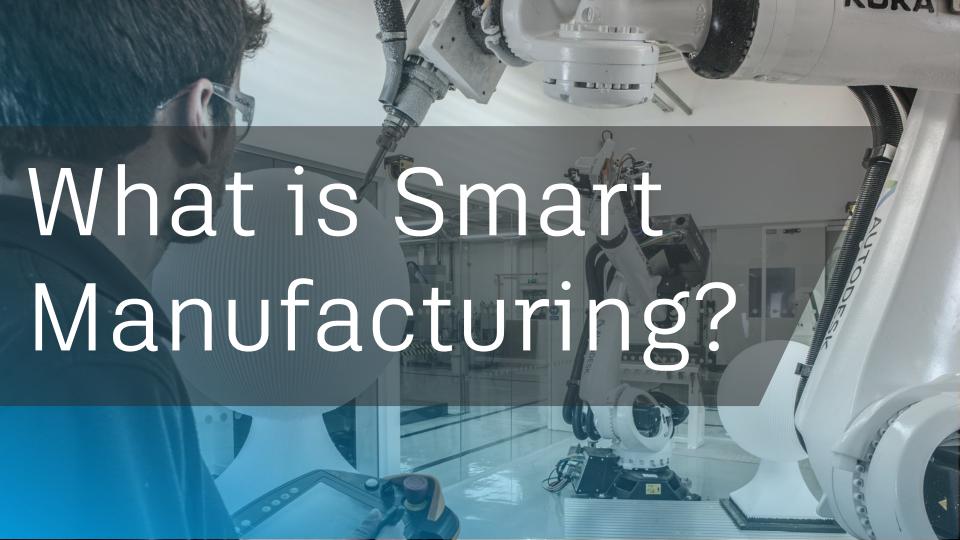
Doing More, Better, with Less

#### Callan Carpenter

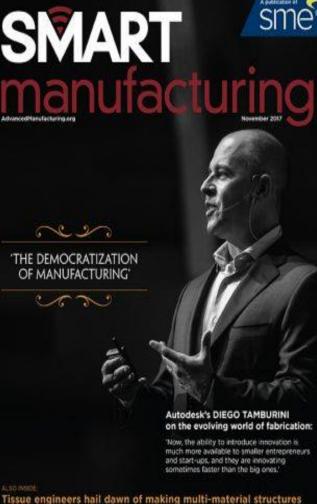
VP, Global Named Accounts Sales, WWFO-Worldwide Field Operations













**CHEUNG KONG GRADUATE SCHOOL** OF BUSINESS

**SUMMER 2017** 



### China and the **Fourth Industrial Revolution**

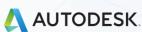
4IR is bringing promise and disruption to industries worldwide

How China is driving real-world use of Al · Understanding China's everlasting property 'bubble' The 'world's factory' has begun to send its manufacturing offshore "Smart Manufacturing are systems that are **fully-integrated, collaborative manufacturing systems** that respond in **real time** to meet changing demands and conditions in the **factory**, in the **supply network**, and in **customer needs**."

National Institute of Standards and Technology U.S. Department of Commerce

"Smart Manufacturing is the ability to solve existing and future problems via an open infrastructure that allows solutions to be implemented at the speed of business while creating advantaged value."







"We drive value for our partners and help make the U.S. economy and workforce the most productive in the world. By giving our partners access to new approaches, technologies, testbeds, and relationships, we guide them toward solutions that will drive innovation in their industries.



"At RWTH Aachen University we **explore** diverse aspects of "**Industrie 4.0**" for enabling an **individualized production** in an **heterogeneous production** system."

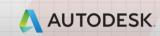








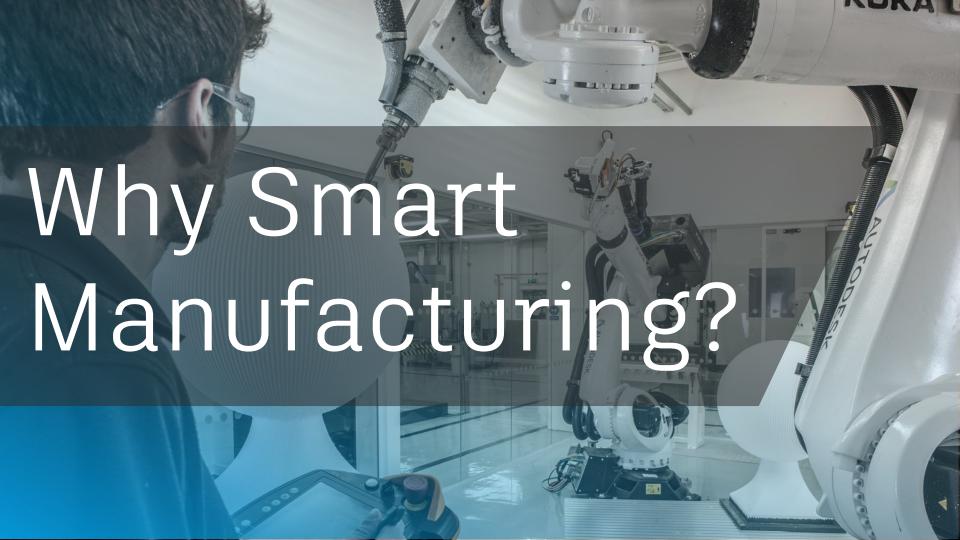










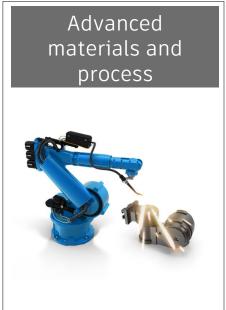


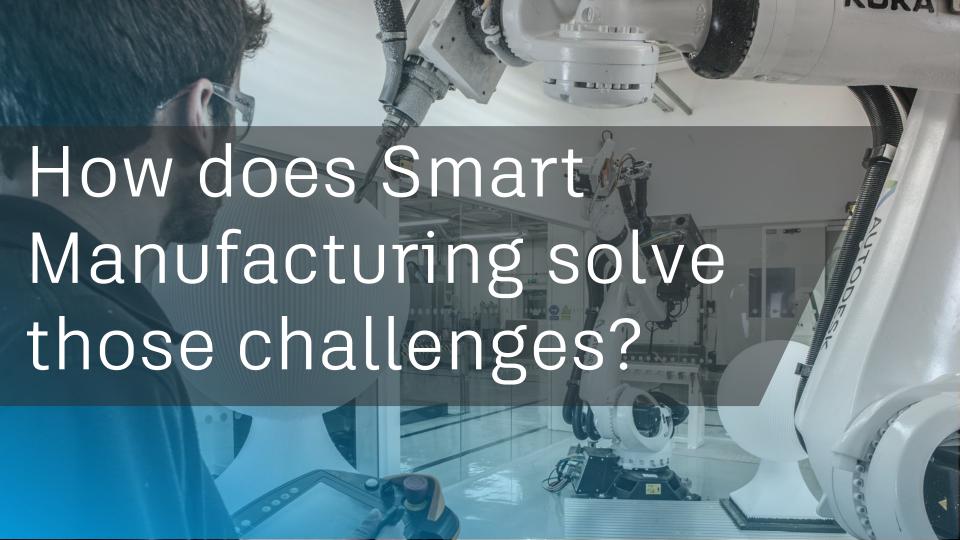
### Manufacturing Challenges | Increasing Customer Pressure





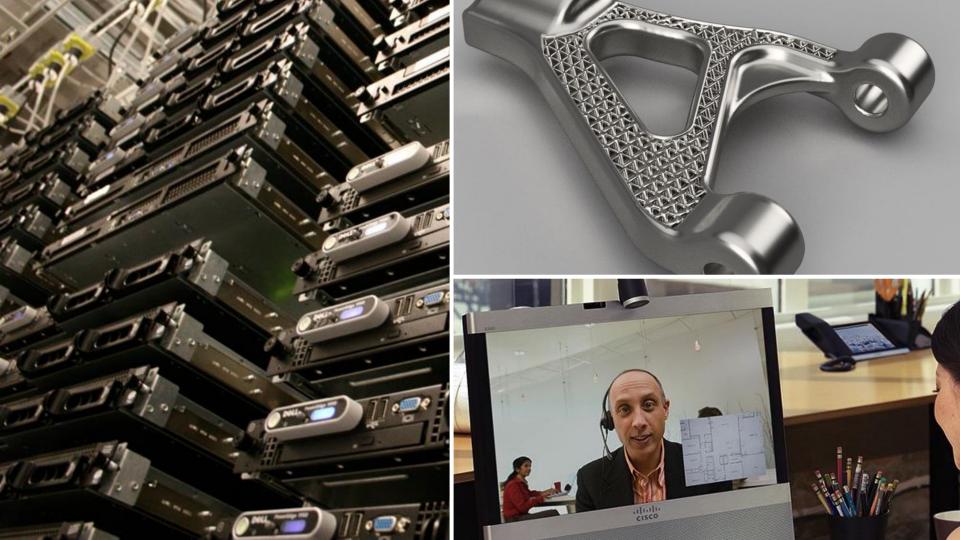


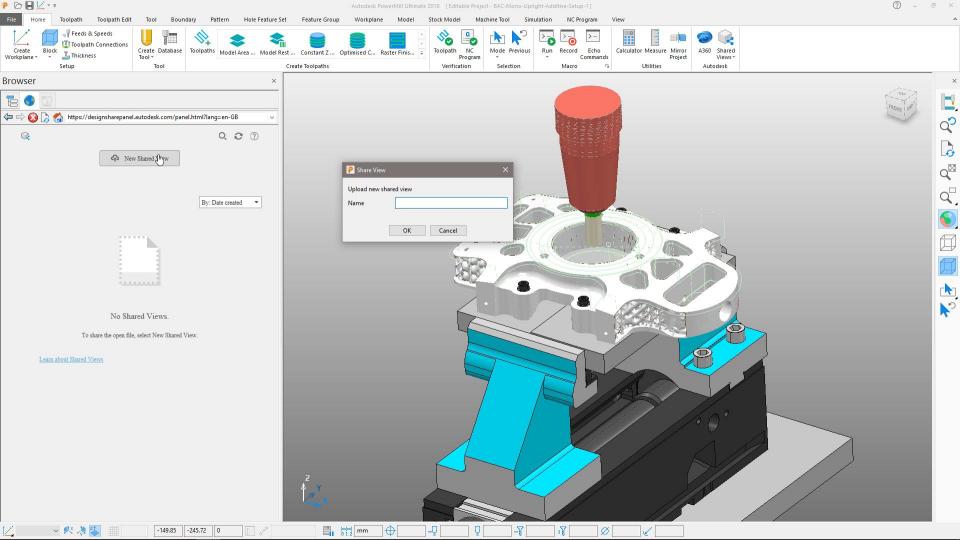
























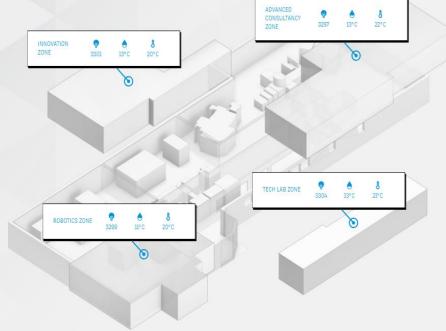








# Advanced Manufacturing Facility Birmingham, UK













Make anything...