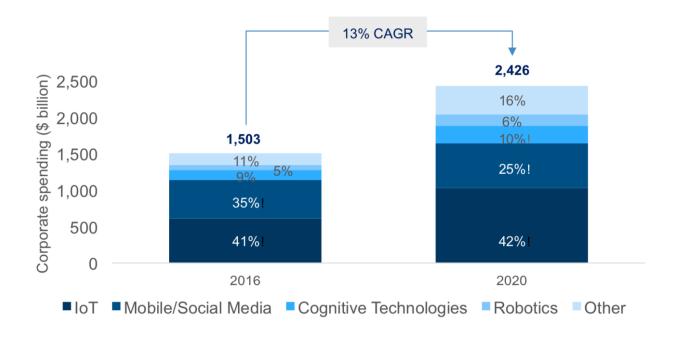


PROJECT PRODUCTION INSTITUTE

Digital & PPM

PPI Symposium 04 December 2019



Note: CAGR = compound annual growth rate

Source: World Economic Forum/Accenture Analysis based on IDC estimates, excluding cross-industry spend (\$80 billion in 2016 and \$166 billion in 2020)

Corporate Spending on New Technologies, \$ billion (2016-2020)



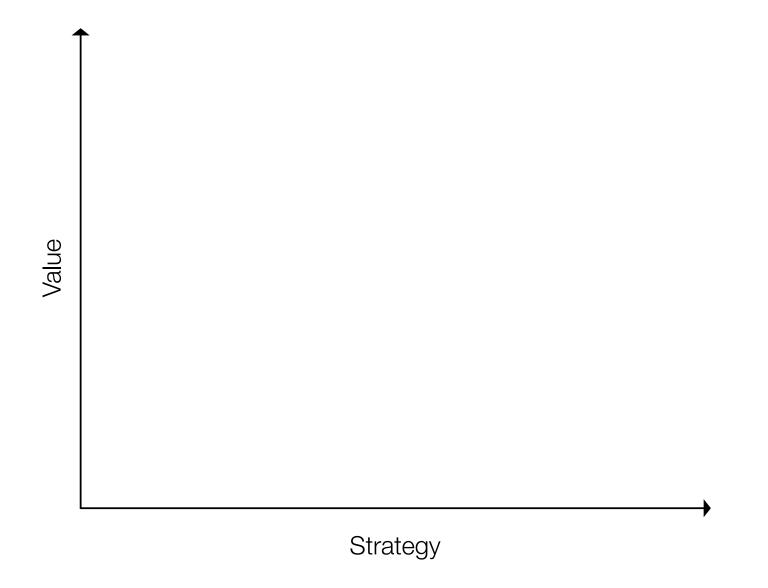
Unlocking success in digital transformations

October 2018 | Survey

Even digitally savvy industries, such as high tech, media, and telecom, are struggling. Among these industries, the success rate does not exceed 26 percent. But in more traditional industries, such as oil and gas, automotive, infrastructure, and pharmaceuticals, digital transformations are even more challenging: success rates fall between 4 and 11 percent.

McKinsey (2018)





Zabelle (2019)



Design

Make

Transport

Install



Production systems self-organize and optimize through Operations Science and Digital Technology











What is Internet of Things (IoT)?

A system of interrelated computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers (UIDs) and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction (IoT Agenda, 2019)



What is Internet of Things (IoT)?

A global infrastructure for the information society, enabling advanced services by interconnecting (physical and virtual) things based on existing and evolving interoperable information and communication technologies (Internet of Things Global Standards Initiative, 2019)



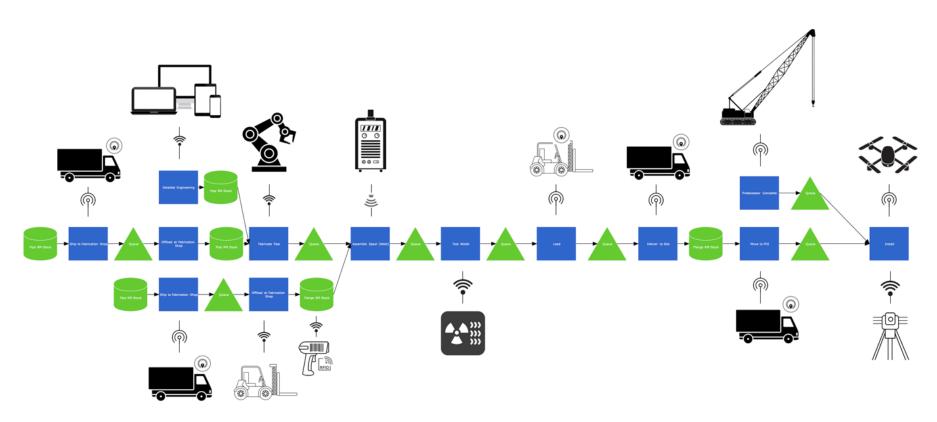
Industrial Internet of Things (IIOT)

- Industrial Application of IoT
- Evolution of Distributed Control System (DCS)



Anything that can be connected will be connected!













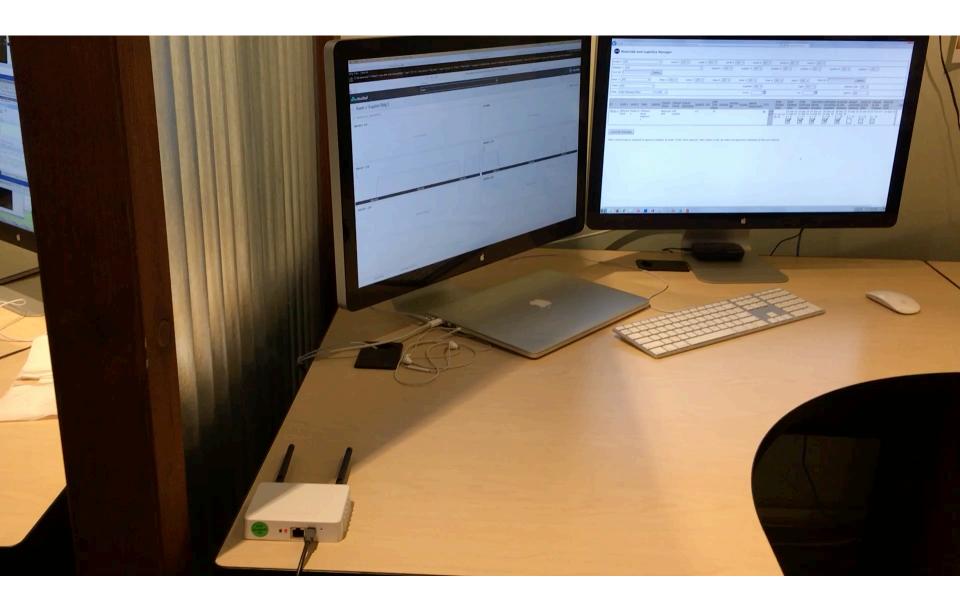






STRATEGIC PROJECT SOLUTIONS®







What is Al?

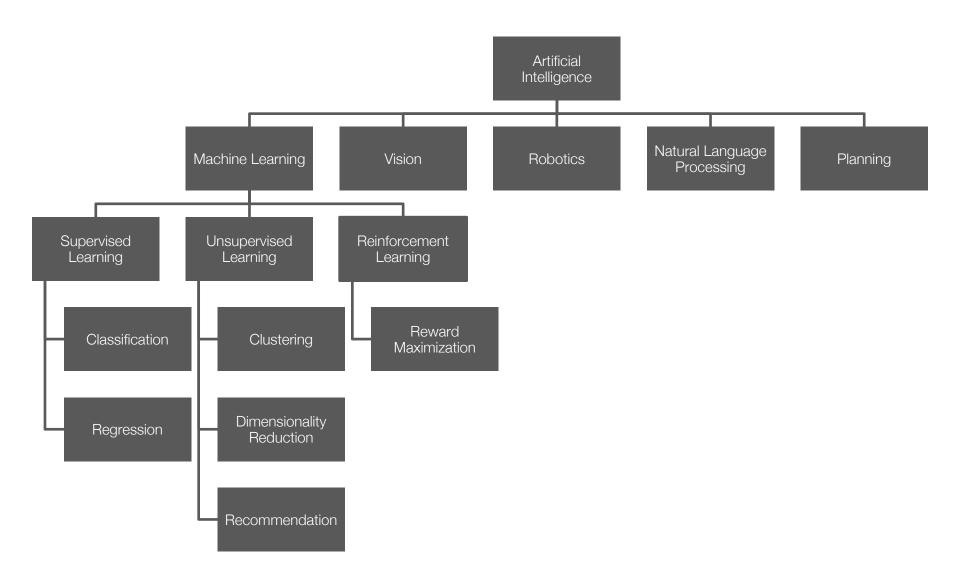
The science and engineering of making intelligent machines - John McCarthy (1956)



What is Al?

The ability of a machine to perform cognitive functions that we associate with human minds (such as perceiving, reasoning, learning, and problem solving) and to perform physical tasks using cognitive functions (for example, physical robotics, autonomous driving, and manufacturing work) - McKinsey (2019)





Maini V. & Sabri S. "Machine Learning for Humans"



Evolving definition due to "Al Effect"

"In the past, we would have said only a superintelligent AI could drive a car, or beat a human at Jeopardy! or chess. But once AI did each of those things, we considered that achievement obviously mechanical and hardly worth the label of true intelligence. Every success in AI redefines it." – Wired (2014)



What framework is your digital strategy built on?

Design

Make

Transport

Install

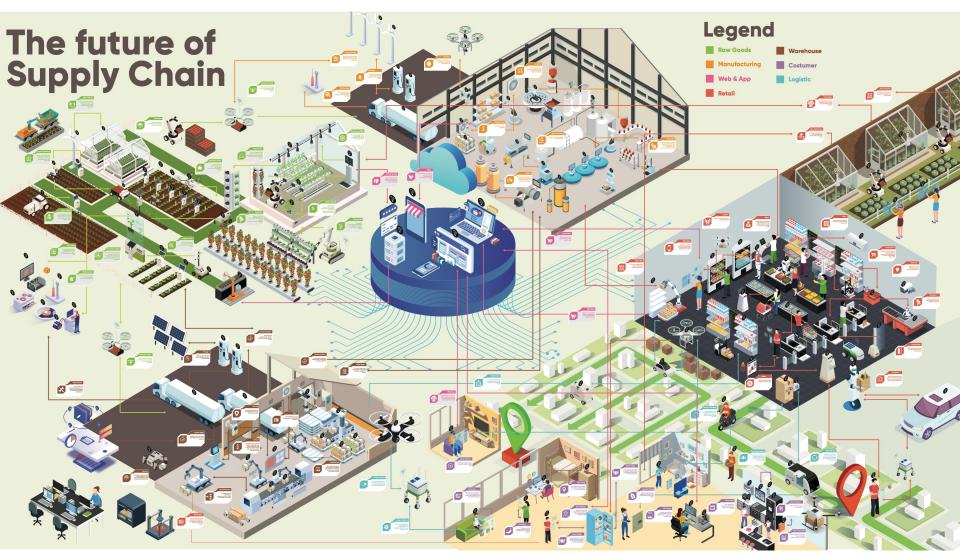


Design



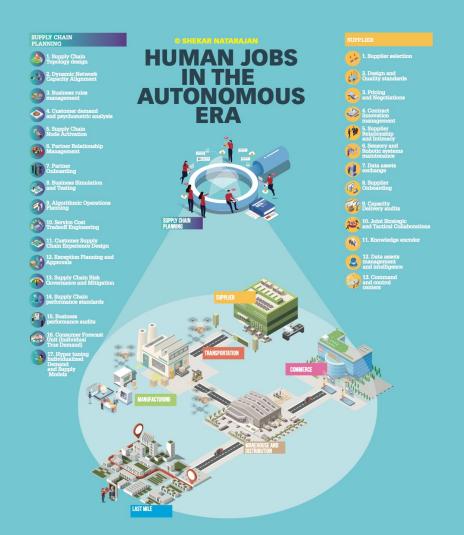
Intelligent Supply Chain





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