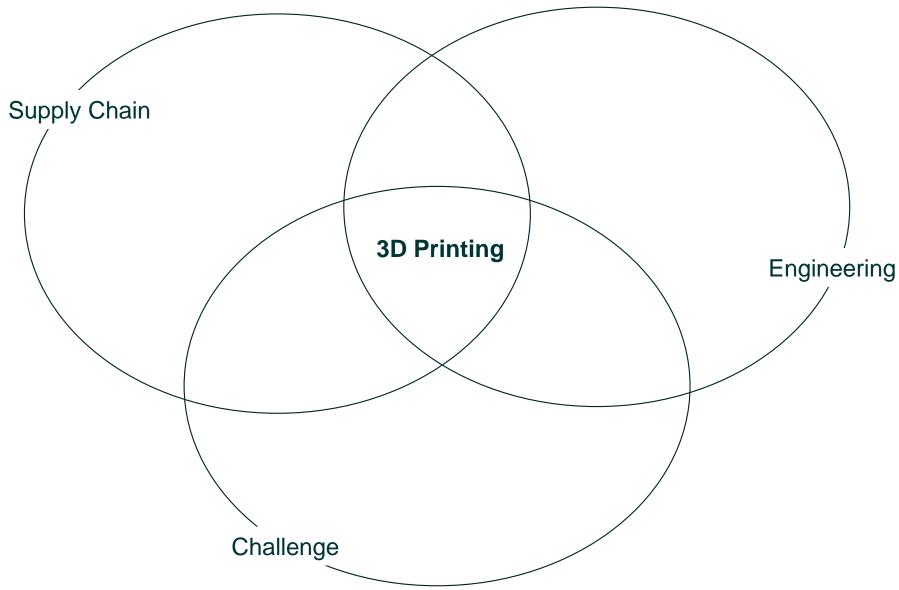
VISAGIO

Supercharging Supply Chains with 3D Printing

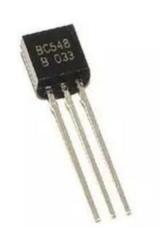
26th September 2018



Who is Len Pannett?





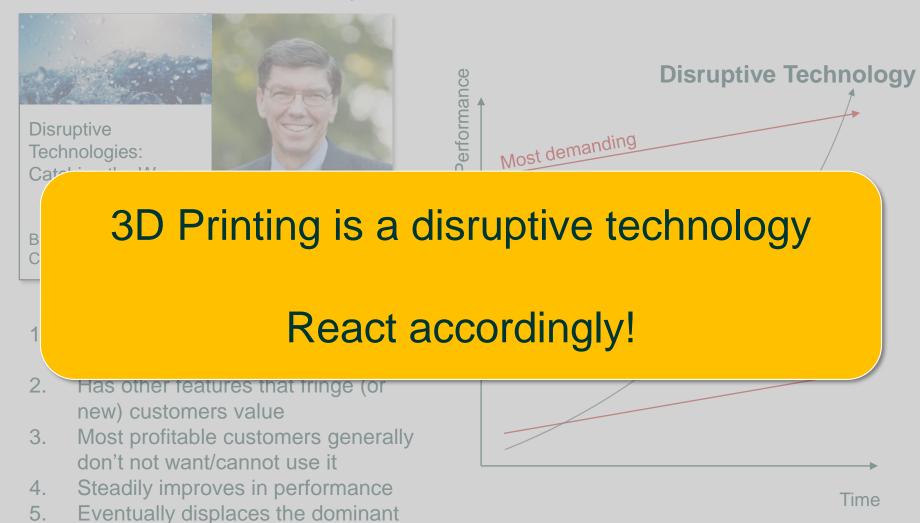




- Widespread
- Established brands
- Good quality
- Midrange prices

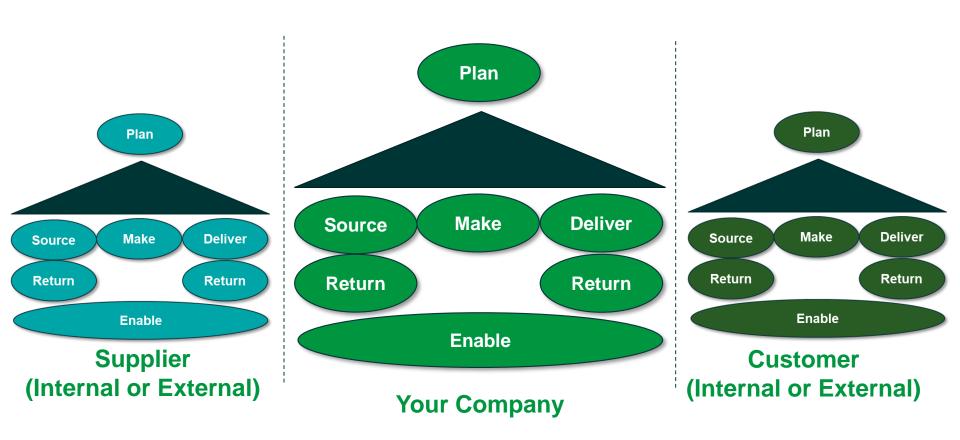
- Teenagers
- New brand
- Low quality
- Cheap

Harvard Business Review, July 1995



technologies

Reminder: What is the Supply Chain?



The Supply Chain Operations Reference Model



Customization/ Personalization

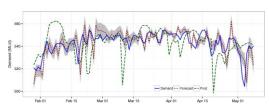


Intolerance for waiting



Shorter **Product Life** Cycles

The Changing



Complex Demand Forecasting



Shorter **Logistics Chains**





Managed **Supply Chain** Risk



Digital Transformation

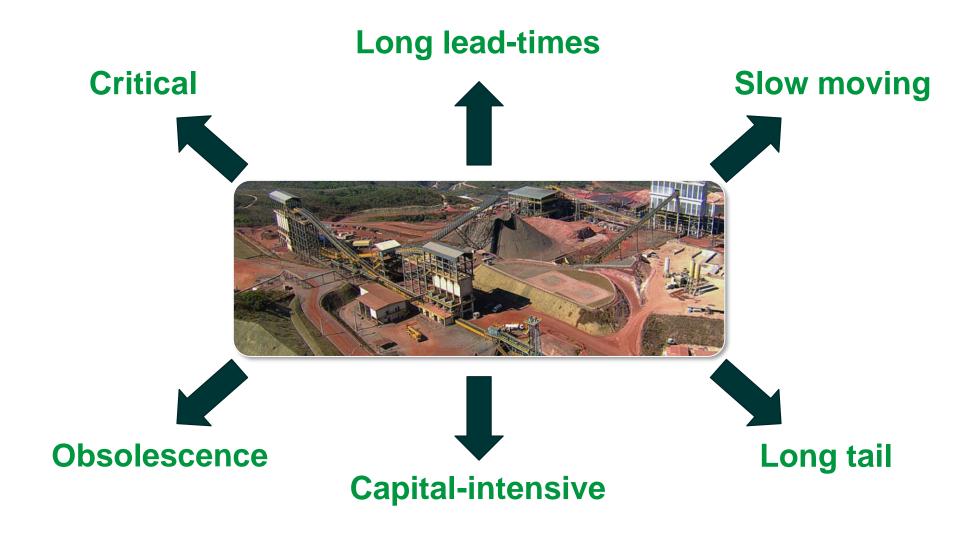


Agile Manufacturing



Processes Automation

The Spares Parts Dilemma



Impacts on Supply Chains

Make



- Faster tooling times
- Increased manufacturing flexibility
- Faster assembly
- Low volume competitivity
- Increased efficiency of materials
- Lower costs of manufacture

Deliver



- Faster lead times
- Fewer transport requirements
- Reduced storage costs
- Reduce costs of inventory insurance
- Reduced transportation costs
- Reduced tariffs

Source



- Flimination of MOOs
- Increased design optimization
- Reduced costs of procurement

Return



- Reduction in wrong orders
- Reduction in obsolescence
- Increased reuse/recyclability













Impacts on Supply Chains

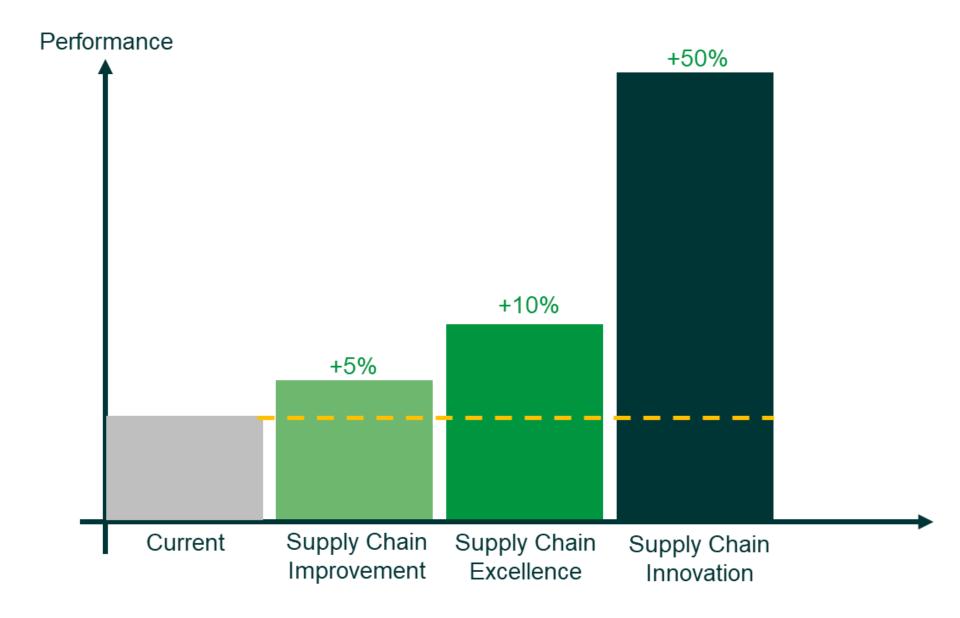


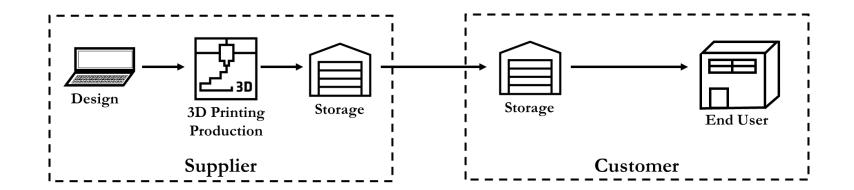
- Intellectual Property
- Liability
- Testing and Standards
- Quality Assurance
- Health & Safety
- Skills base
- Macroeconomics

Impacts on Supply Chains

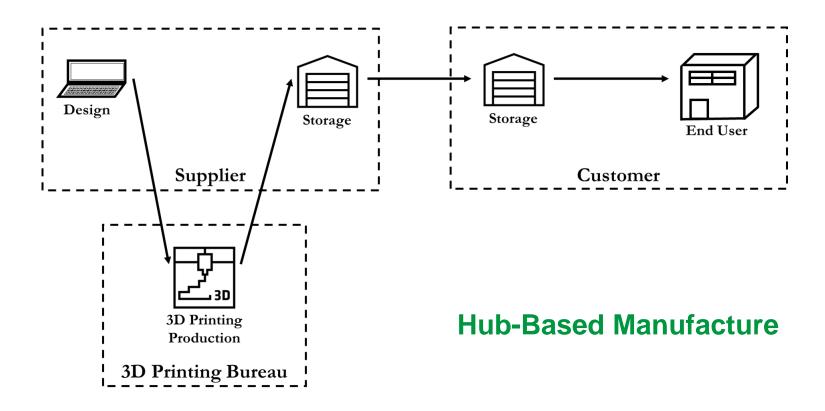


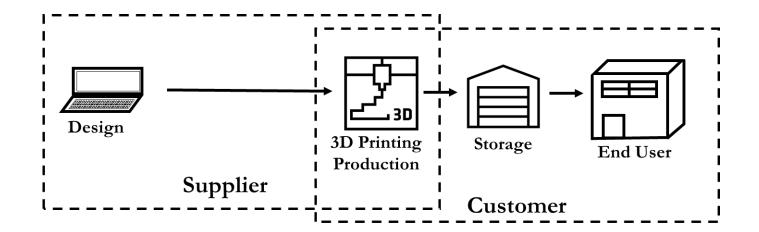
- Short supply chains
- Smaller networks
- Reduced risk of disruption
- Competitive differentiators
- New supply chain models



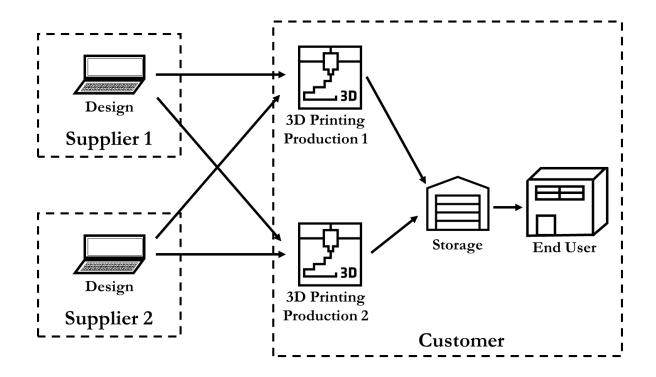


In-House Manufacture





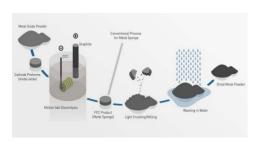
Customer-Located Manufacture



Customer-Located Manufacture

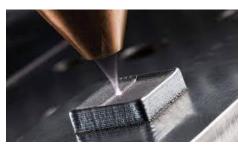
METALYSIS















Thank You





For more information:

Book

Supercharg3d: How 3D Printing Will Drive Your Supply Chain (Published Mar/Apr 2019)

<u>Website</u> Supercharg3d.com