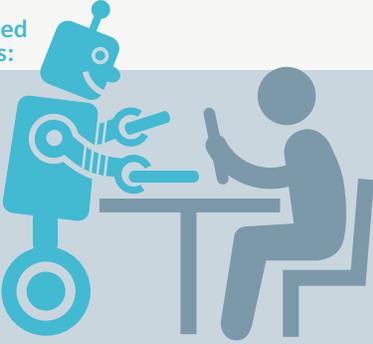


Keys to success in the age of smart innovation

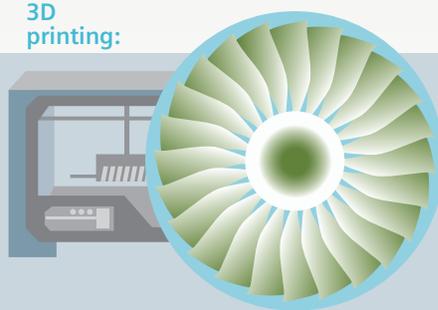
The same forces changing *what* you innovate are changing *how* you innovate.

Advanced robotics:



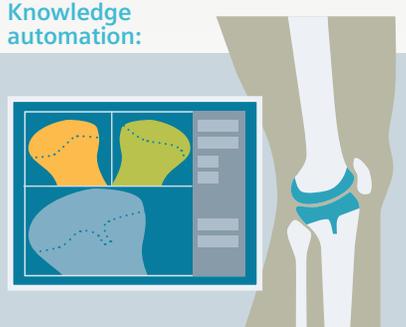
High IQ robots work alongside humans
Robots with enhanced dexterity and intelligence are taking on more complex jobs – and reducing manufacturing labor costs by **16%**.
(Source: Boston Consulting Group)

3D printing:



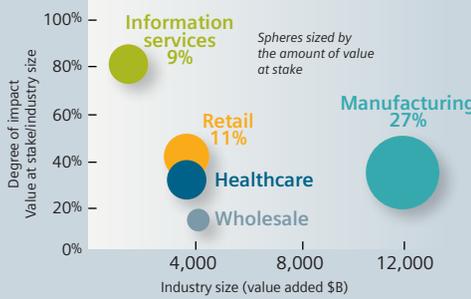
Airplane engines printed on the fly
Aerospace companies are using giant 3D printers to produce parts on-demand, revolutionizing manufacturing processes.

Knowledge automation:



From patient image to perfect implant
Medical implant companies are digitally connecting patient, physician... and production.

Focusing on the realization phase of innovation positions you better for success.



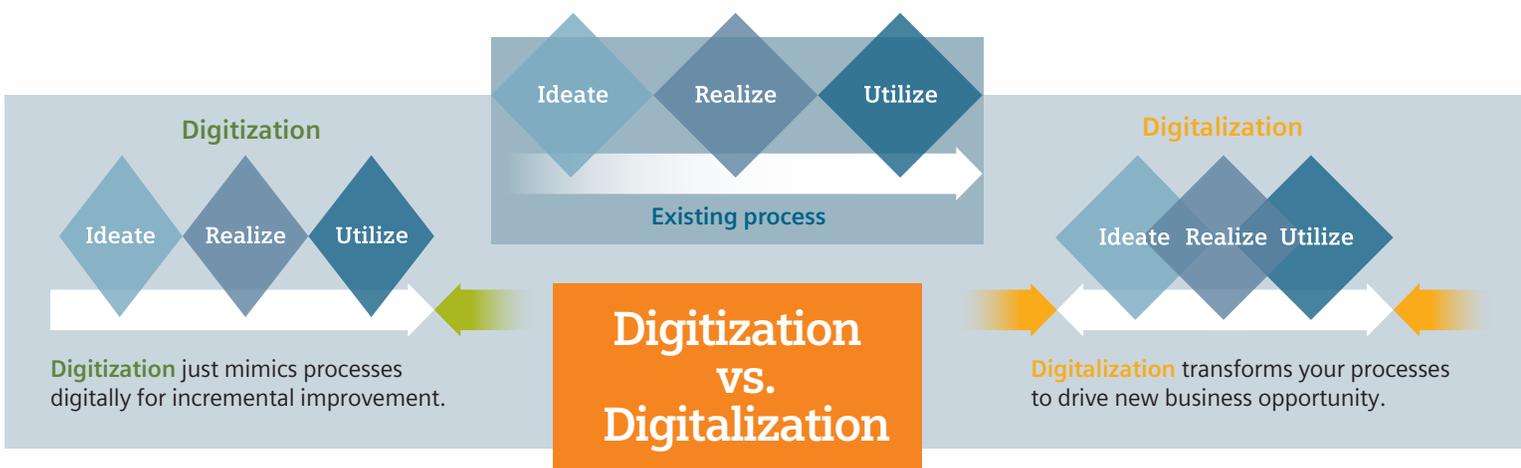
Manufacturers will also boost productivity By introducing automation and more flexible production, manufacturers could boost productivity as much as **30%**.
(Source: (Deutsche Bank Research))



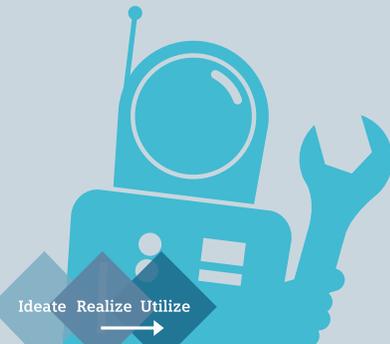
Smarter factories will generate higher profits
The \$12 trillion global manufacturing industry could create **\$3.9 trillion** in incremental profit, about half of which comes from smarter, adaptable factories. (Source: Cisco)

Manufacturing will gain the most value from IoT
Manufacturing has the highest value add from implementing the Internet of Things. Through 2020, it will experience an annual CAGR of **30%**. (Source: Cisco)

The key is to go beyond digitization to digitalization.

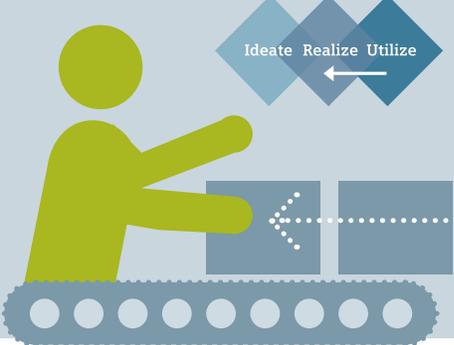


With full digitalization, innovation can come from anywhere in the lifecycle.



Wrench making in outer space
When astronauts in the International Space Station needed a wrench, NASA emailed the CAD file and they produced it with a zero-gravity 3D printer.

Customer-savvy lean manufacturing
Using Big Data to analyze the behavior of repeat customers, a make-to-order company improved contract negotiations and shifted to lean manufacturing.





Robots reach for new markets
An engine component manufacturer invested in advanced robotics to compete in its existing market – then used their increased adaptability to enter new markets.

How can you digitalize your innovation process to deliver smart products?

Go to siemens.com/plm/vision for the last infographic in this series.



For more information, visit:
www.siemens.com/plm/vision