



SMART Factory

Building the factories of the future



"None of us is as **smart** as all of us".

— Ken Blanchard

Connecting and digitalizing all machines, human and material processes to allow analytics and visualizations enabling self-correction, self-learning and self-optimization.

DIGITALIZATION



VISUALIZATION



OPTIMIZATION



EOS

EMS Operations Services

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REV 2.0 Sep dd'16

What is SMART Factory

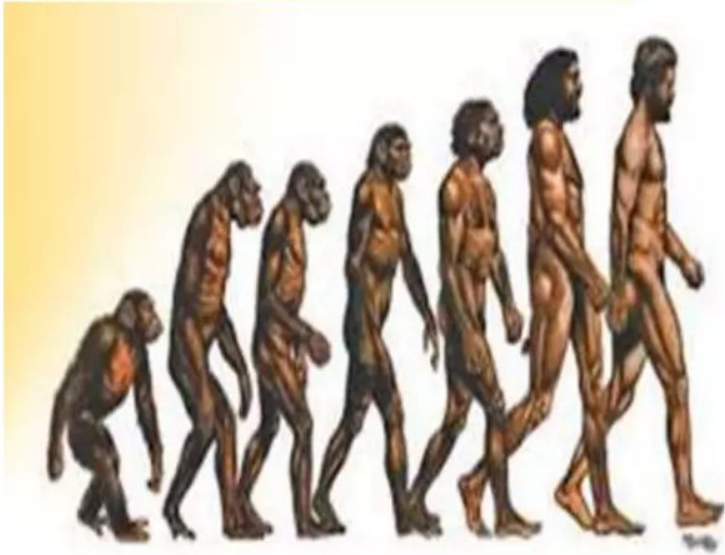
“Smart Factory is a manufacturing facility where **intelligent**, **efficient** and **responsive** operations are ensured through **data driven** applications and system.”

*It is an **integration** of various technologies and solutions which can **communicate** and **respond in real time** to **meet the change in demand** and to ensure overall efficiency to “serve the customer better”.*



Evolution-It is natural to change

Human



Evolution of telephones



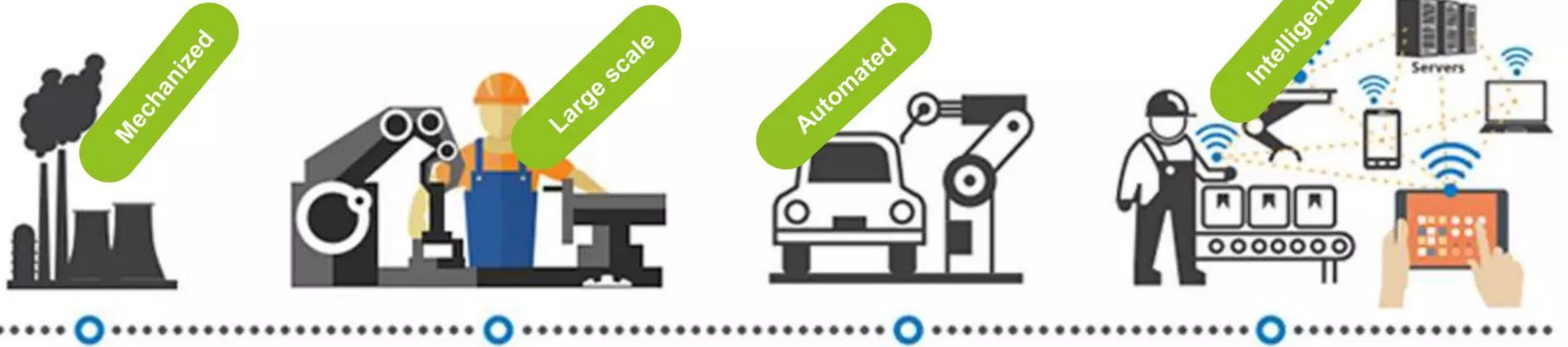
Google Search engine & Navigation system (Data driven)



Transport & self driving car



Industrial ®evolution



18th Century

Industry 1.0

Mechanical production.
Equipment powered by
steam and water

19th Century

Industry 2.0

Mass production assembly
lines requiring labor and
electrical energy

20th Century

Industry 3.0

Automated production
using electronics and IT

Today

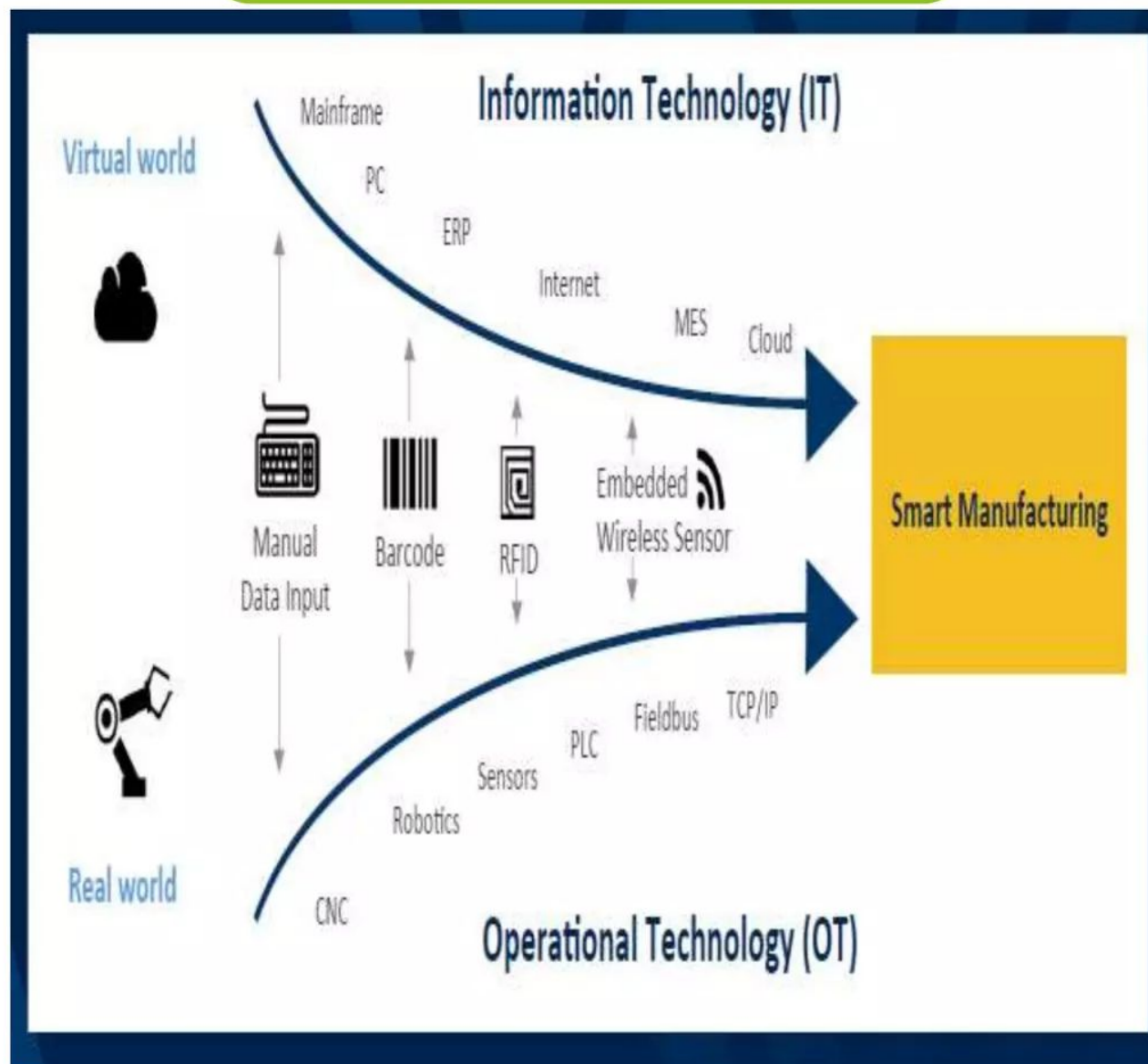
Industry 4.0

Intelligent production
incorporated with IoT, cloud
technology and big data

It's supposed to be automatic, but actually
you have to push this button.

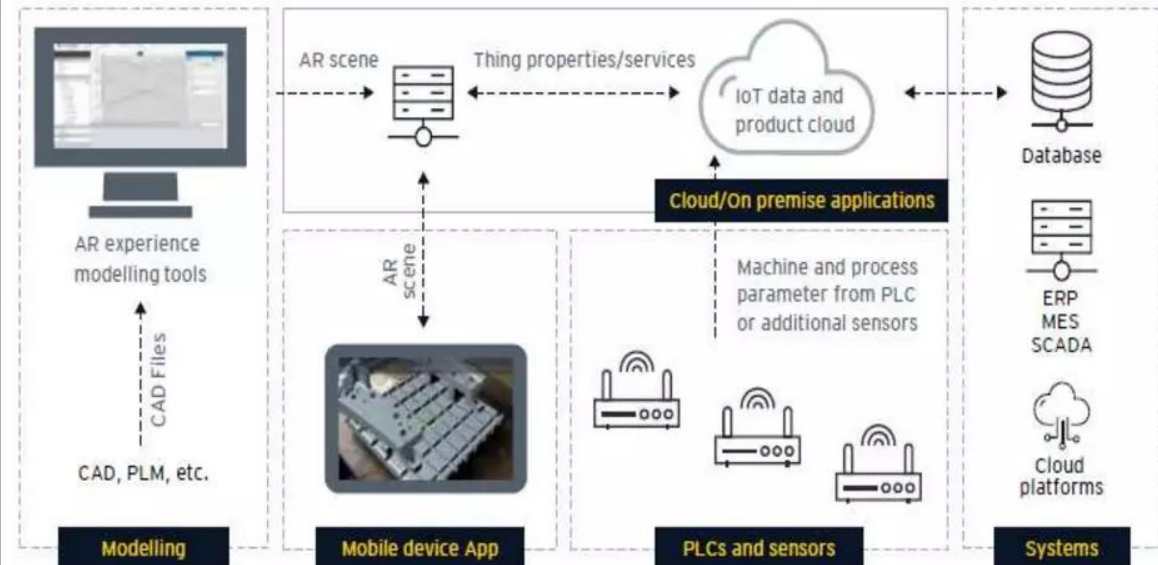
—John Brunner

Convergence of Real and Virtual world.

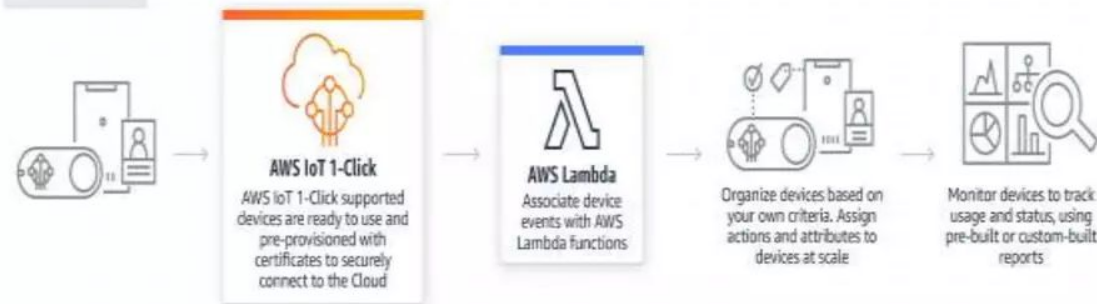


IT Meets IoT

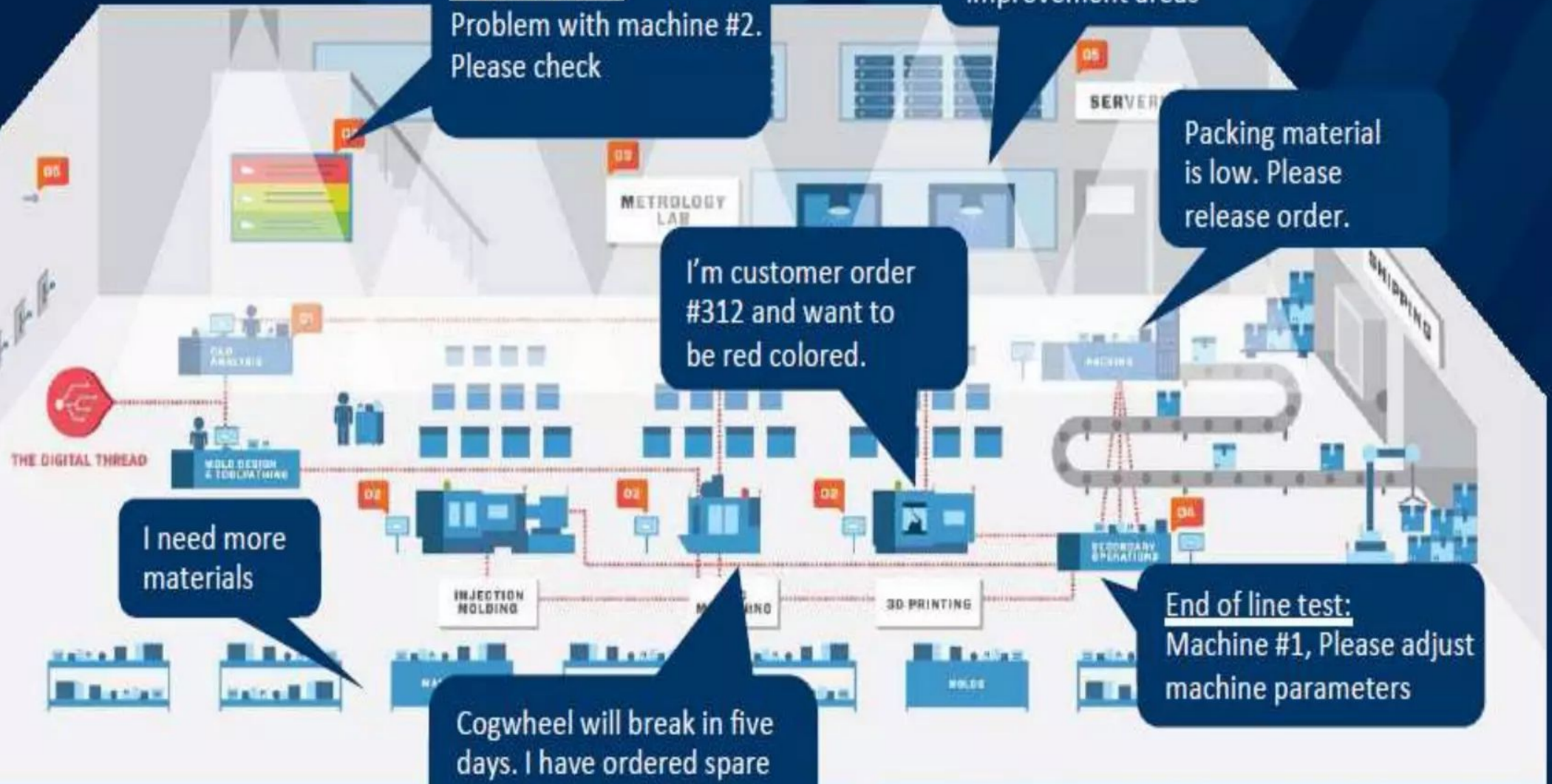
Generic IoT and augmented reality infrastructure



AWS IoT 1-Click



Smart Factory Vision: Machine-as-a-Service



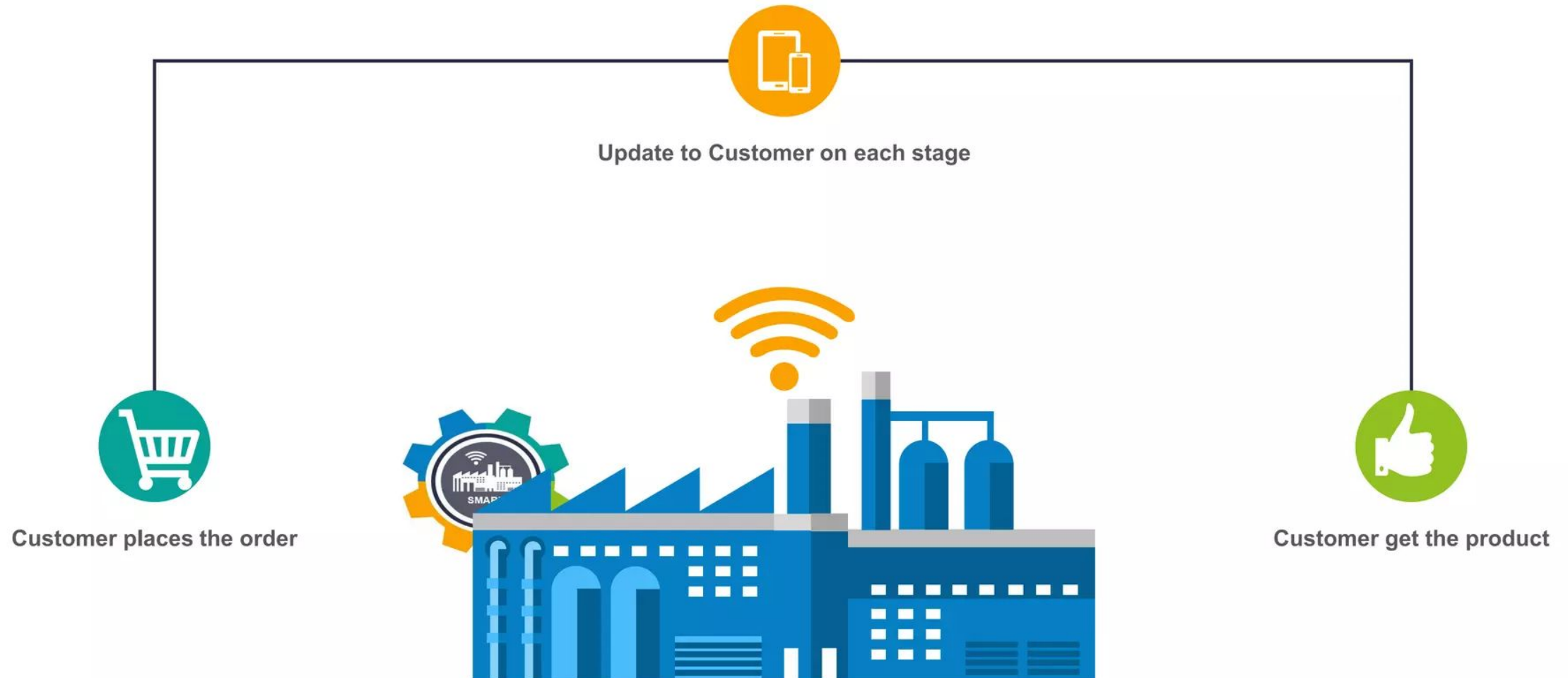
Integrated

Collaborative

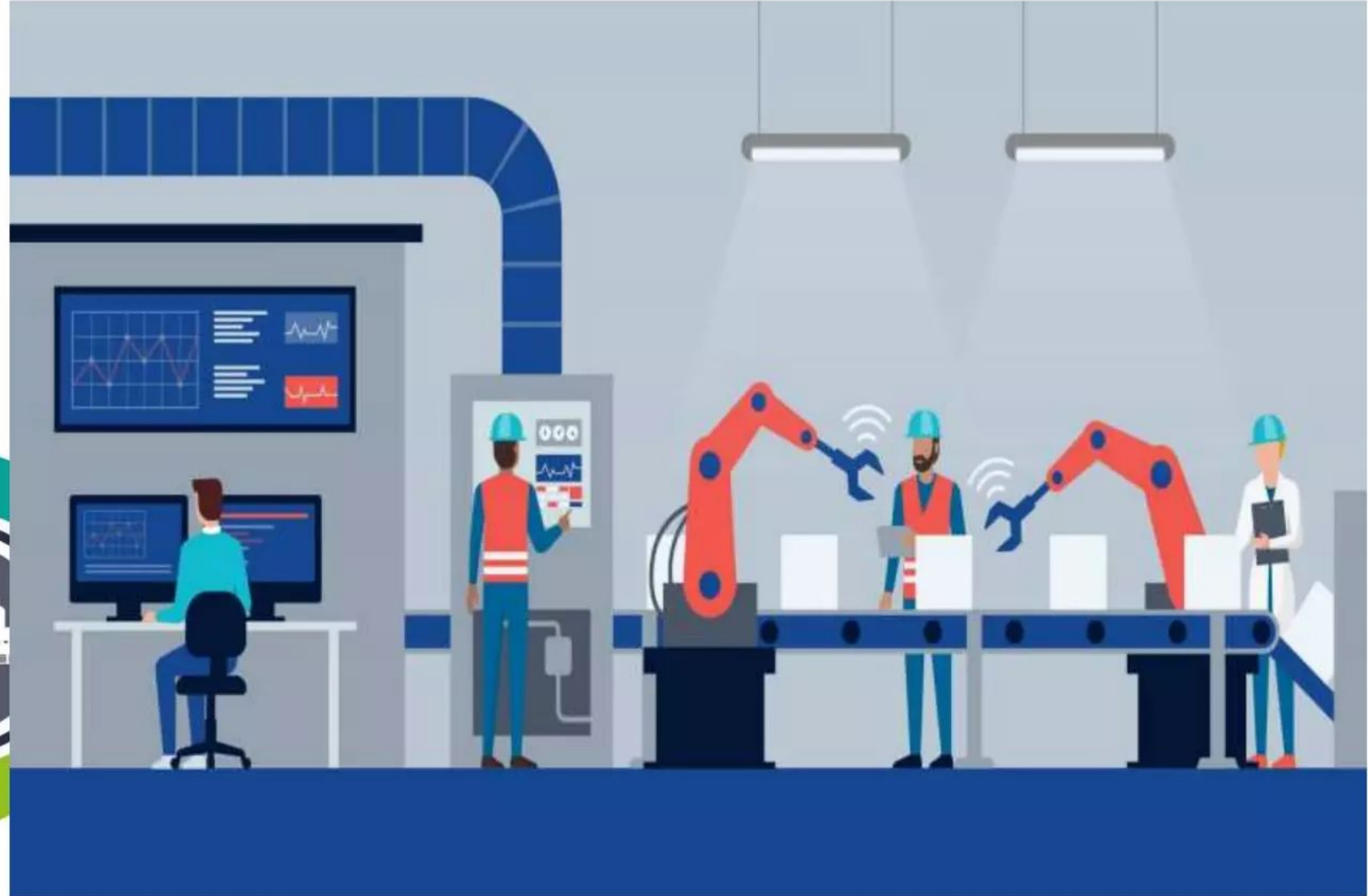
Response in real-time

Meet changing demand

Imagine if a Customer can get status updates throughout the process...or..



Get to work without morning meetings.



Opportunities

Global IoT market

Witnessing exponential growth leading to significant revenue opportunities across the ecosystem

Global IoT connections forecast



Global IoT market revenue by 2025*

Billion

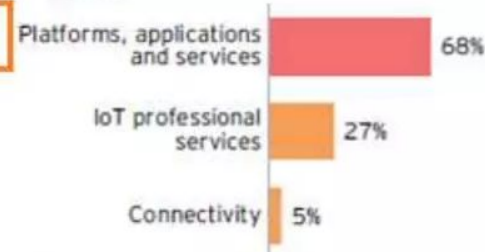
US\$1.1t

Global IoT connections by region



Share of IoT revenue in 2025

Billion



Platforms, applications and services segment spans multiple IoT layers such as platforms, application services, cloud, data analytics and security. IoT professional services include system integration, managed services and consulting.

1 **Asia-Pacific** region is forecasted to become the largest global IoT region in terms of both connections and revenue by 2025.

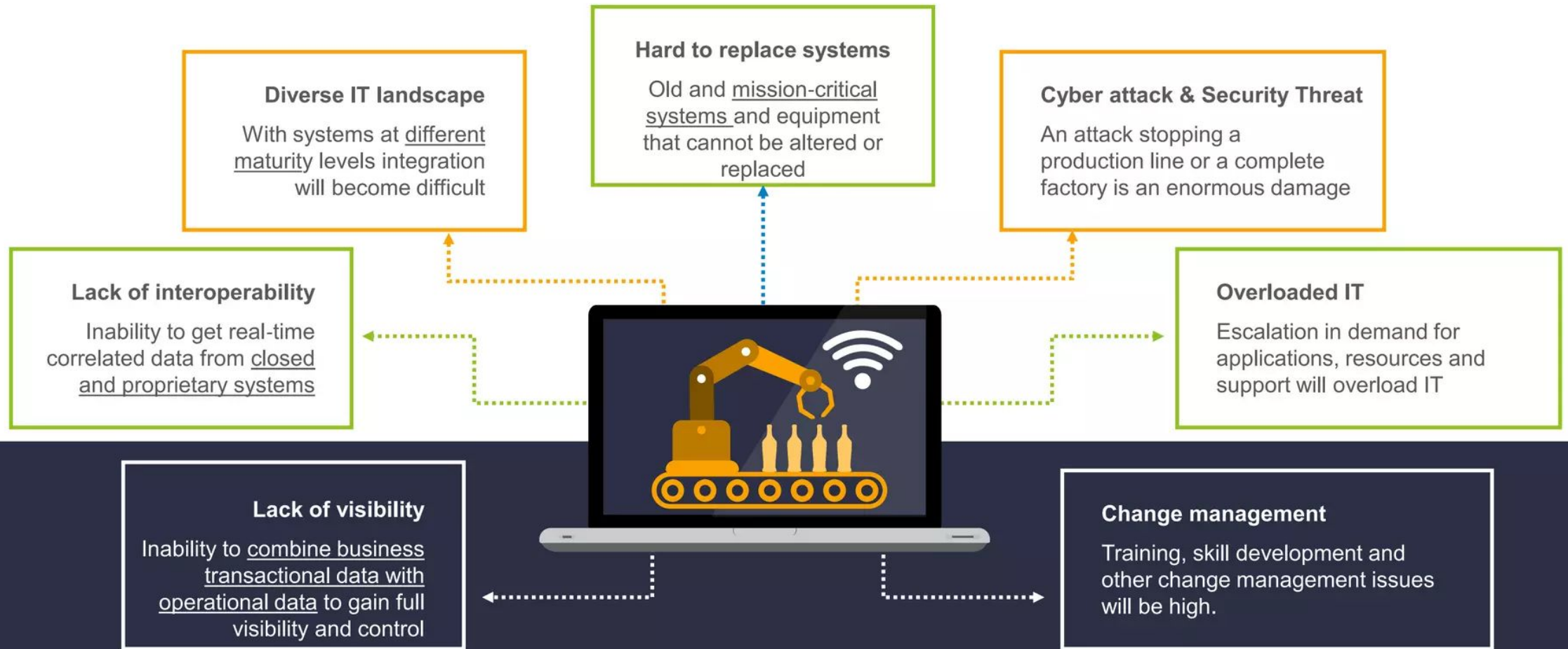
2 IoT connections (cellular and non-cellular) may be driven largely by growth in the industrial IoT market, accounting for more than 50% of the connections.

3 IoT market's **value shifts** from connectivity to platforms, applications and services.

Licensed cellular IoT connections is expected to reach 3.1 billion by 2025, accounting for 12% of total IoT connections

- Improving efficiency & productivity (by improved material handling)
- Creating new business opportunities (thru data analytics)
- Ability to sell products as a service (Subscription model)
- Reducing downtime
- Maximizing asset utilization (By Reduced down time)
- Reducing asset lifecycle costs
- Enhanced worker safety (Automatic Safety controls)
- Enhancing product innovation process (RCA thro Big Data)
- Better understanding of customer demand (Flexible & Agile Process knowledge)

Challenges



Is Smart Factory achievable?

