

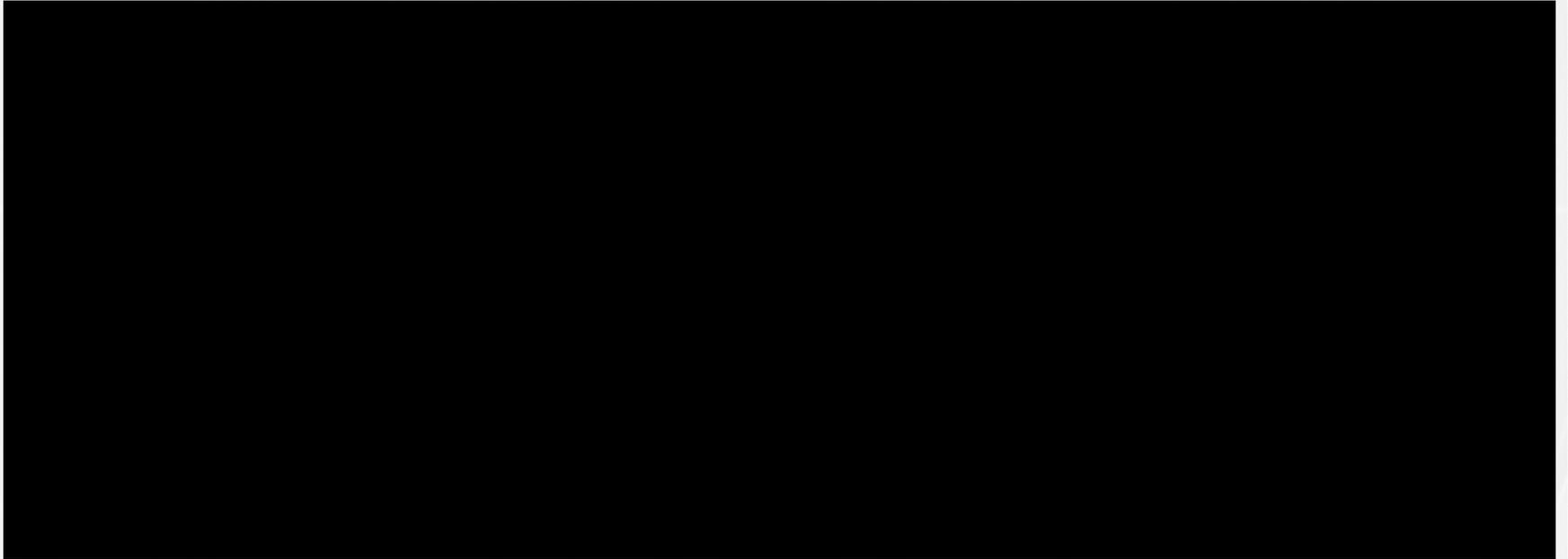
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DHL Trend Research

# **DIGITALIZATION & THE FUTURE OF SUPPLY CHAINS**

Dr. Markus Kückelhaus  
May, 2019



# THE WORLD IS **CHANGING...**



# ... AND SO ARE OUR SUPPLY CHAINS

## Digital Freight Shipping



## Sensors & Asset Tagging



## Inventory Management



## Blockchain



## Food Supply Chain



## Supply Chain & Logistics Analytics



## Trucking Marketplace & Fleet Management



## Warehousing



## Enterprise Resource Planning



## E-Commerce Logistics



## Autonomous Trucking



## Last-Mile AV & Drones



## Last-Mile Delivery Services



Source: CB Insights 2018



# THE DIGITAL OPPORTUNITY IS HUGE...

## TECHNOLOGY



**40%**

Of all data generated by **2020** will come from **connected sensor**

Frost & Sullivan

**25 Billion**

**Connected ,Things'** will be used in **2020**

Gartner

## VALUE



**\$1.7 Trillion**

**Worldwide IoT Market** by **2020**

IDC

**\$10-\$15 Trillion**

Added to the global GDP by the **'Industrial Internet'** market within the next **20** years

GE

## OPPORTUNITY



**25% Reduction**

in **maintenance costs** through IoT

U.S. Department of Energy

**Savings of \$90 Billion**

Generated by **connected industrial machinery** to make oil & gas exploration **1%** more efficient

GE

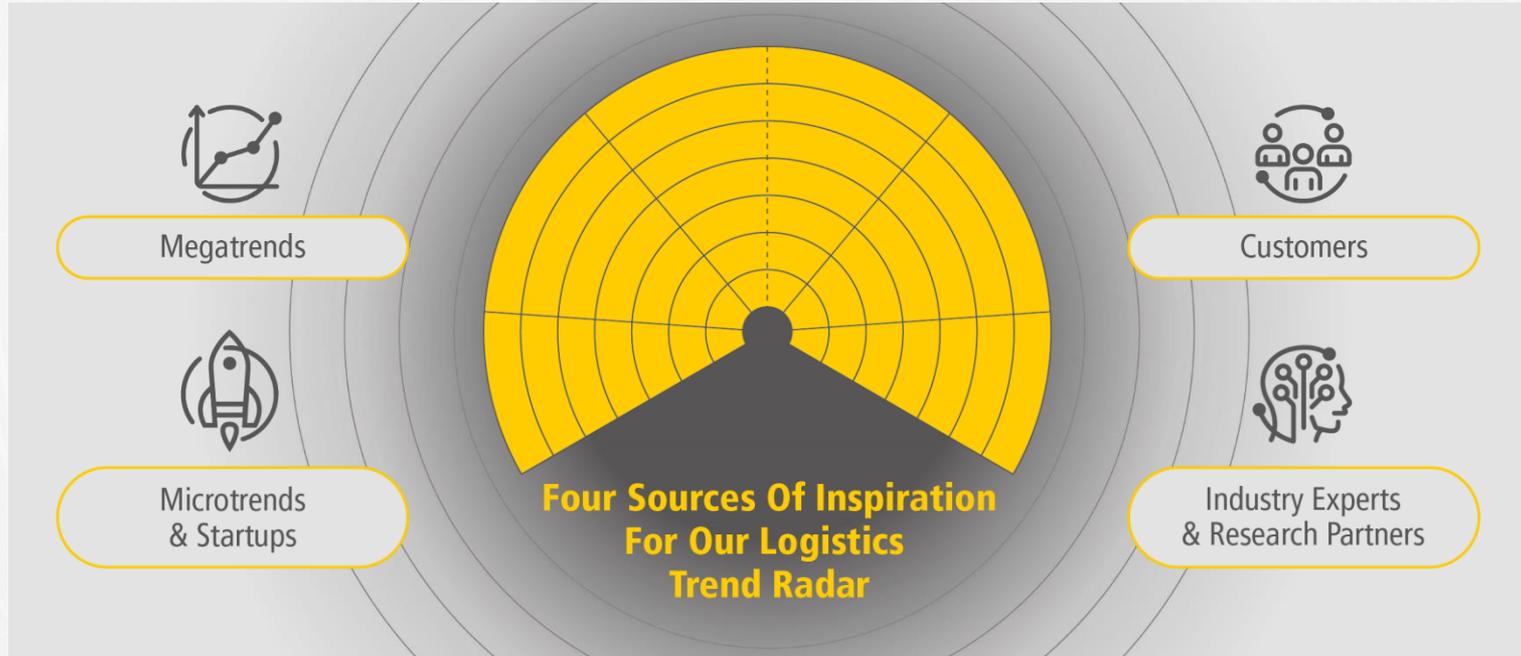
# ...BUT WHAT ABOUT **SUPPLY CHAINS?**

The biggest future impact on revenue and EBIT growth is set to occur through the digitization of Supply Chains.

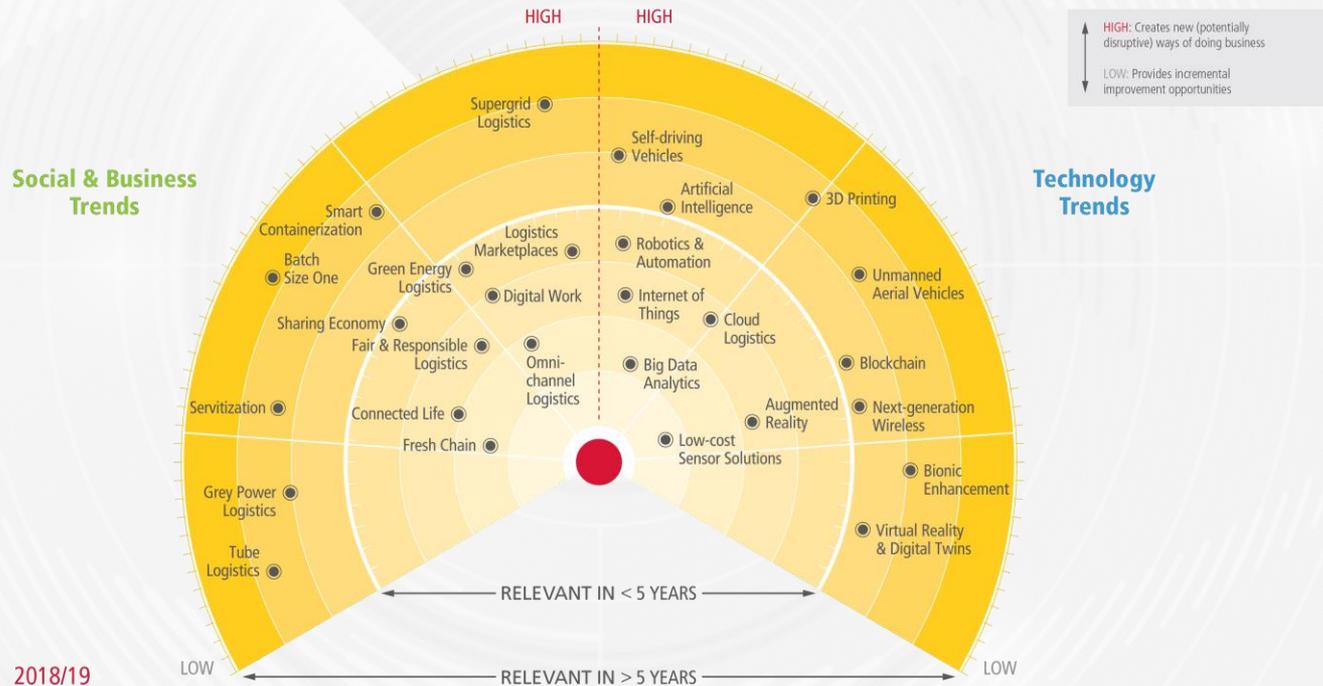
McKinsey



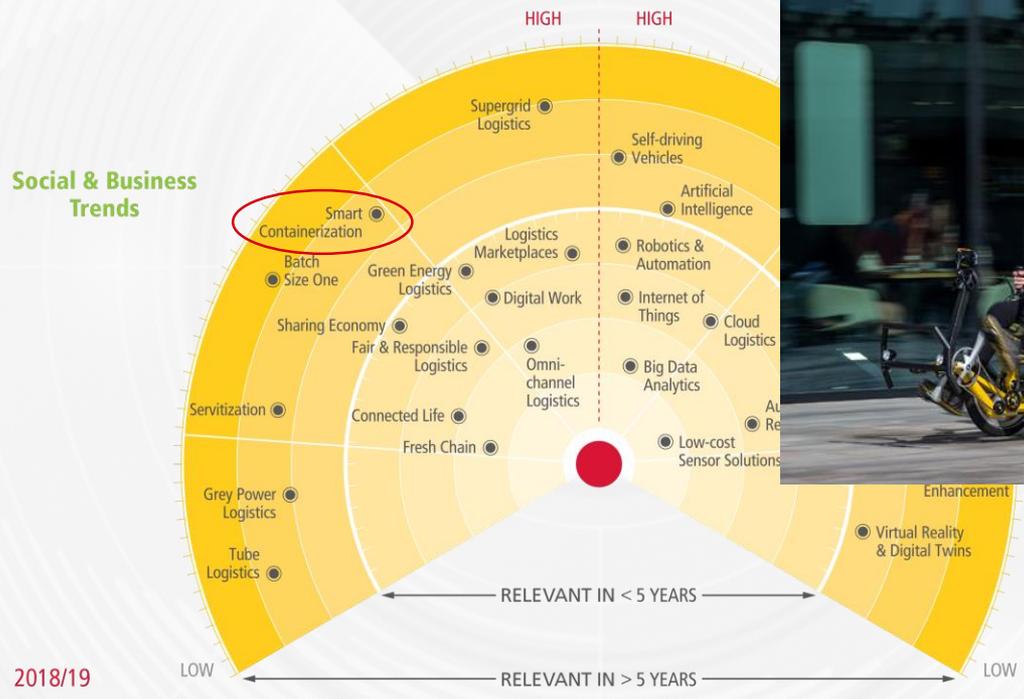
# HOW WE IDENTIFY TRENDS AND DIGITAL OPPORTUNITIES?



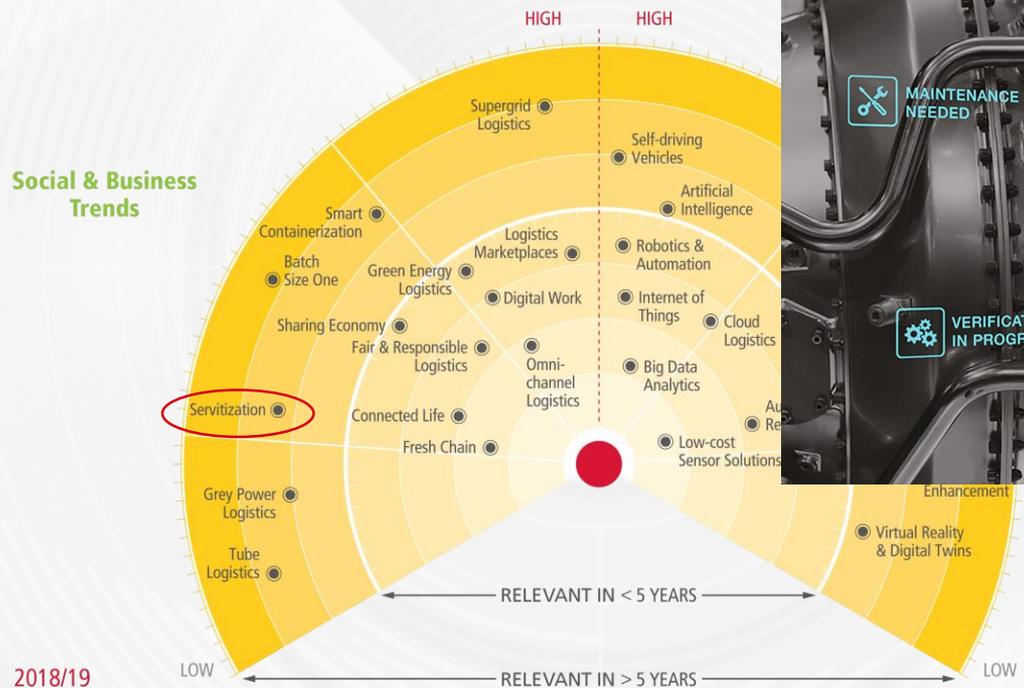
# THE DHL LOGISTICS TREND RADAR 4.0



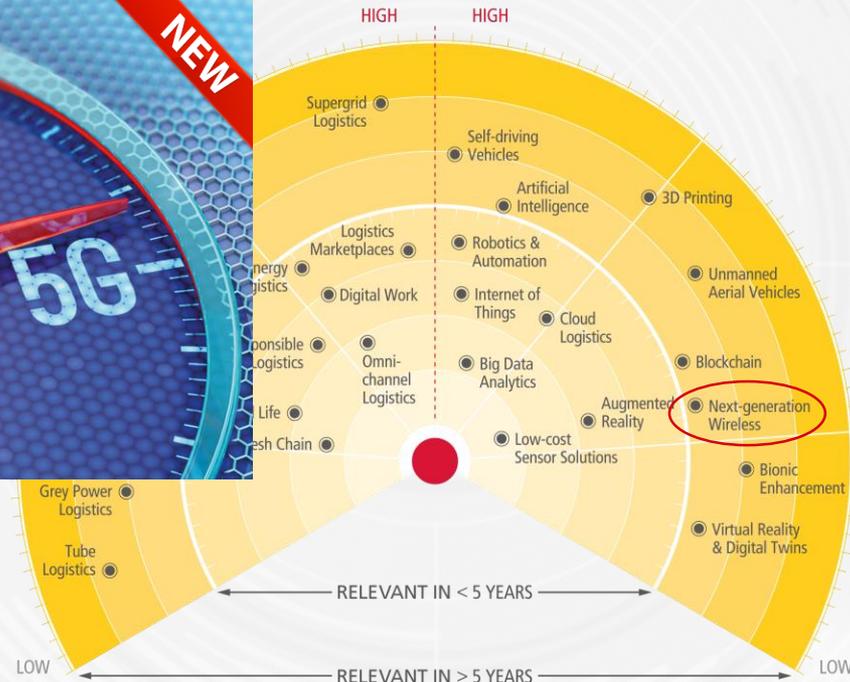
# NEW TRENDS – SMART CONTAINERIZATION



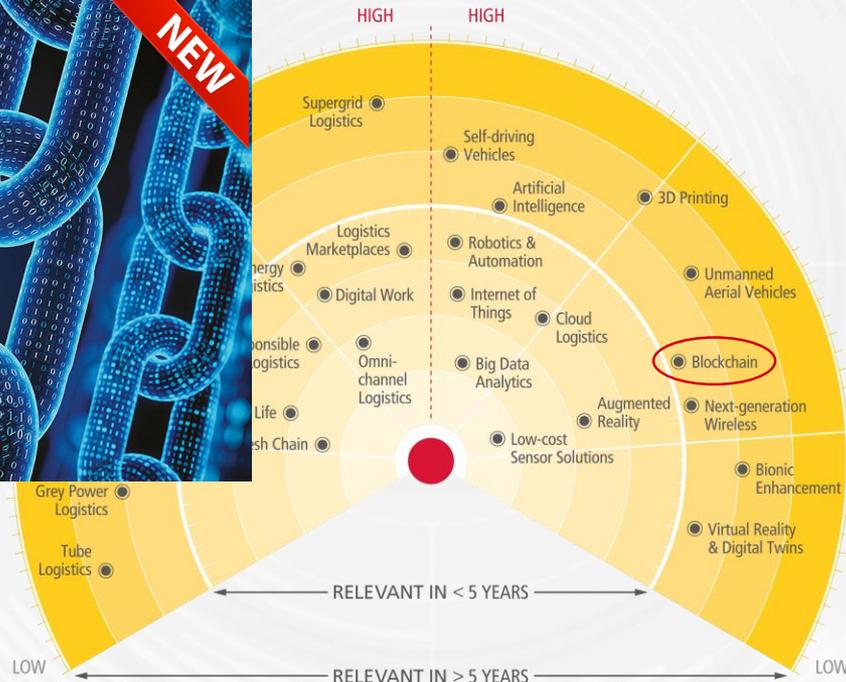
# NEW TRENDS – SERVITIZATION



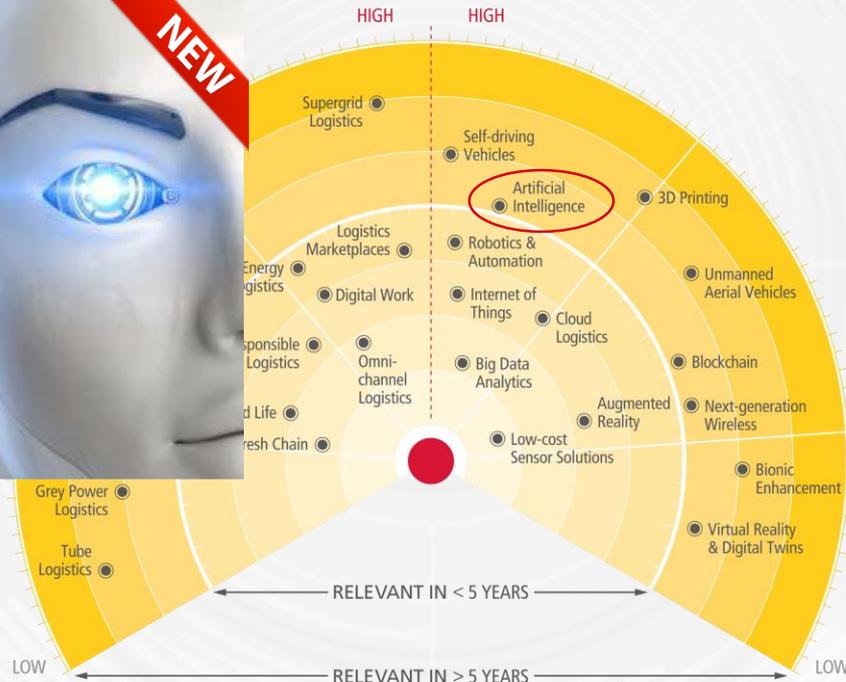
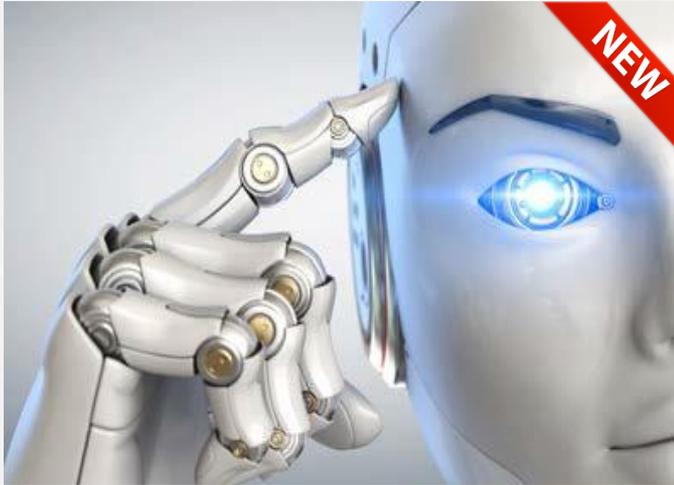
# NEW TRENDS – NEXT-GENERATION WIRELESS



# NEW TRENDS – BLOCKCHAIN



# NEW FOCUS TOPIC – ARTIFICIAL INTELLIGENCE



# INNOVATION VALUE CHAIN

1

Trend Radar



2

Trend Report



3

Innovation Center Exhibit



4

Proof of Concept



Commercialization



Initiate Global Accelerators



# OPEN INNOVATION APPROACH



ALL OUR TREND REPORTS ARE AVAILABLE FOR DOWNLOAD:  
[WWW.DHL.COM/INNOVATION](http://WWW.DHL.COM/INNOVATION)

# OUR INNOVATION CENTERS – GLOBAL PRESENCE

We are looking forward to welcoming you



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A group of people are seated around a table in a meeting room. The room features a large window in the background that provides a view of a city and a body of water. The scene is brightly lit, suggesting a professional and collaborative environment.

**SHAPING TOMORROW**

**TOGETHER**