



SHAPING THE FUTURE OF LOGISTICS

Mei Yee PANG 4th April 2019

2019 DHL Technology Conference

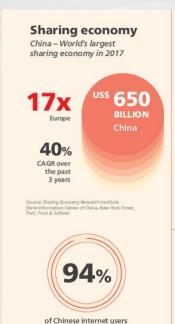


THE WORLD IS CHANGING...





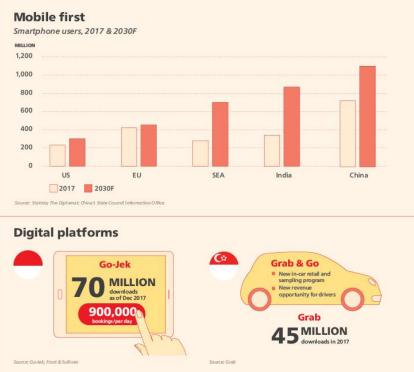
ASIA PACIFIC Smart Consumers embrace digital



willing to participate in

sharing economy

Source: Nielsen; Forbes; Amcham





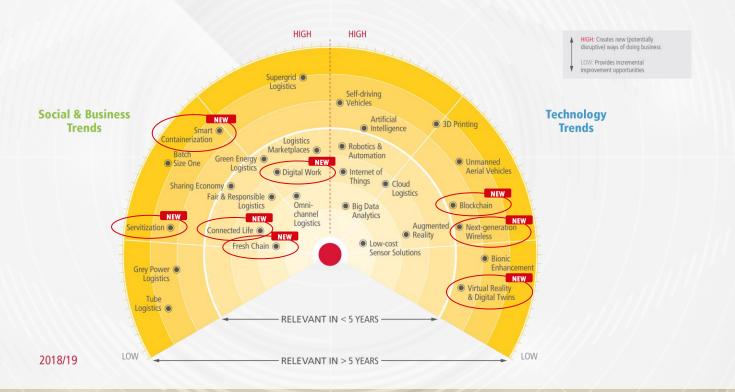
... AND SUPPLY CHAINS NEED TO EVOLVE



Source: CB Insights 2018



THE DHL LOGISTICS TREND RADAR 4.0



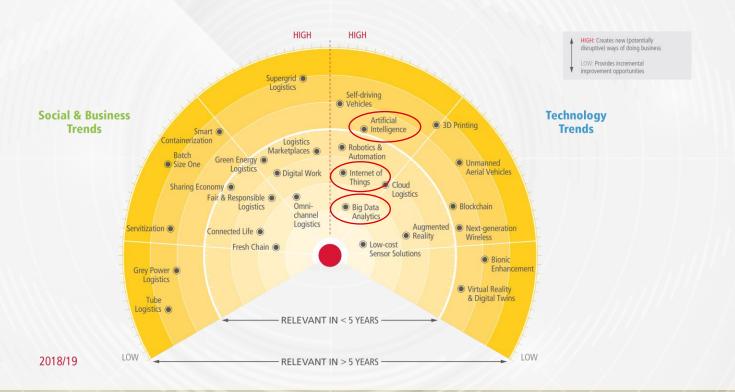


INNOVATION VALUE CHAIN





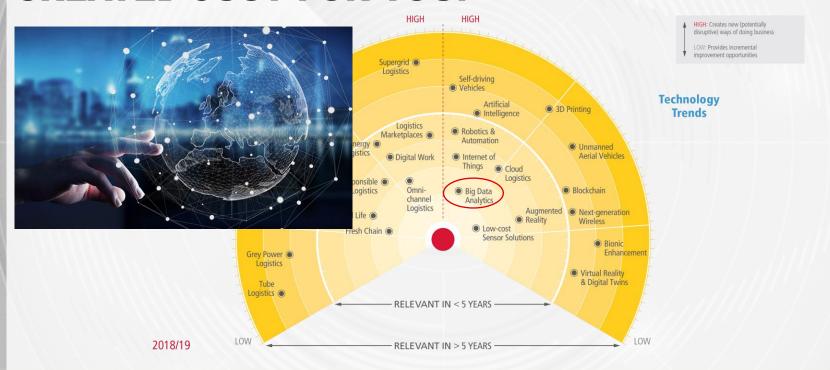
THE DHL LOGISTICS TREND RADAR 4.0





ADVANCED ANALYTICS CAPABILITY

CREATED JUST FOR YOU!





VALUE CREATION THROUGH DATA ANALYTICS

Descriptive
Analytics:
What happened?

Diagnostic
Analytics:
Why did it happen?

Predictive
Analytics:
What will happen?

Prescriptive Analytics: How can we make it happen?



Optimization
"Predicting the future" Foresight

Value

Hindsight

Availability of Data (Big Data)

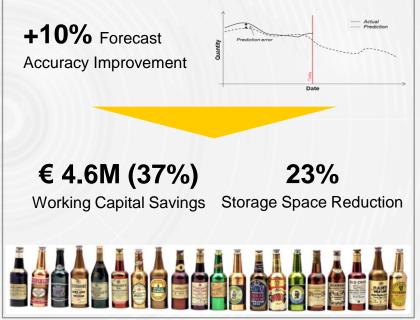
Difficulty

Insight



DEMAND & INVENTORY 360 DIAGNOSTIC TOOL







AUTOMATED INSIGHTS GENERATION





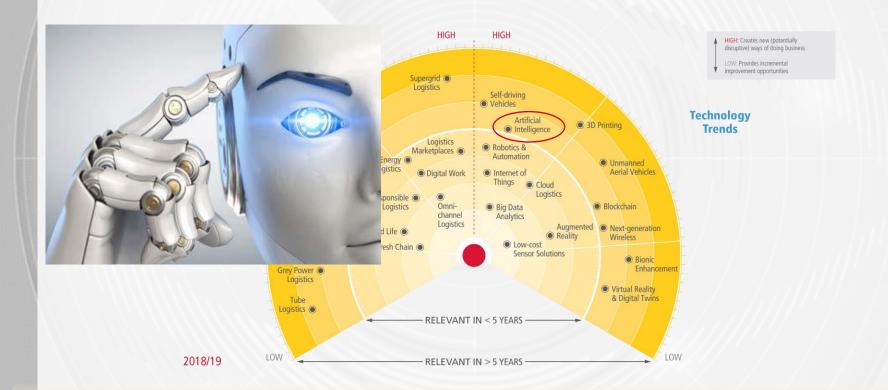
- 4 man day effort
- 400 lines transformation instructions
- >250k rows excel data to process
- Cannot analyze long periods of past data; Excel limitations



- 5 minute process
- Advanced dashboards for increased visibility across supply chain
- Enable predictive analytics



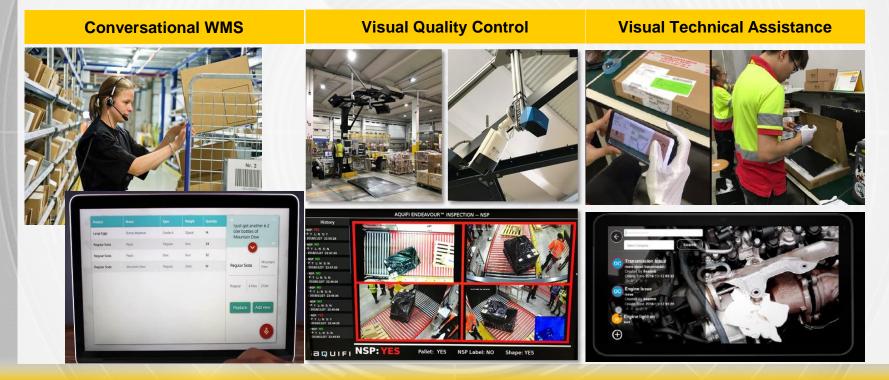
NEW FOCUS TOPIC - ARTIFICIAL INTELLIGENCE





AI IN LOGISTICS:

SPEAKING, SEEING & THINKING





VISUAL TECHNICAL ASSISTANCE:

POWERED BY AUGMENTED REALITY

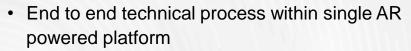






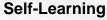






- Easy onboarding of new staff
- Higher quality of services across staff
- Consistent documentation of jobs





- 3D Image recognition
- Intelligent troubleshooting



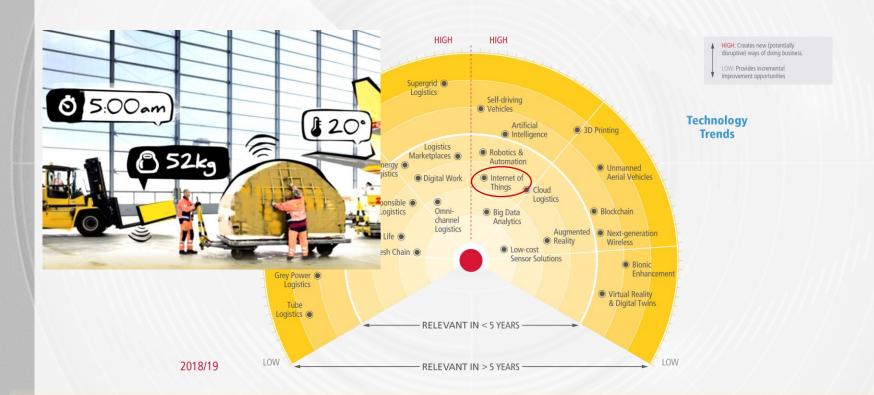
AI IN LOGISTICS: AUTONOMY





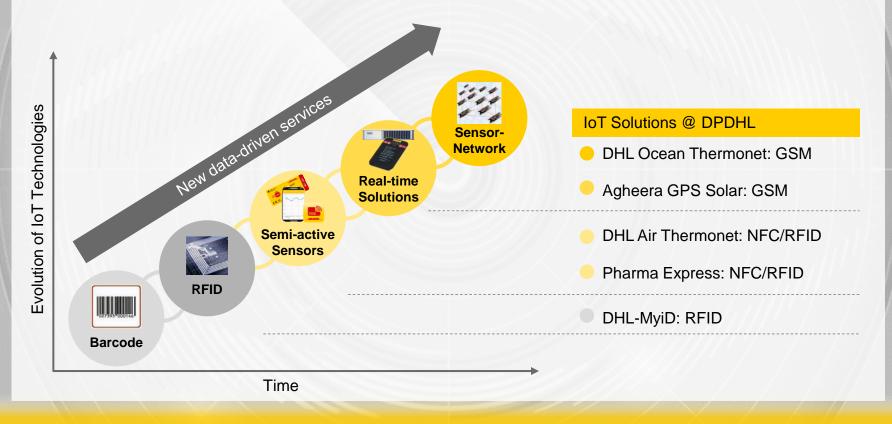


NEW ACCELERATOR – INTERNET OF THINGS





NEW DATA-DRIVEN SERVICES





NEW USER EXPERIENCE WITH BYOD





FROM 2G-ONLY TO 3G-ENABLED TO FUTURE SENSOR NETWORKS





RAIL & OCEAN FREIGHT TRACKING FROM

EUROPE TO CHINA



General Information

- Client: DHL Global Forwarding Pharmaceutical Company
- Use case: Ocean Freight
- Shipment: Europe to China



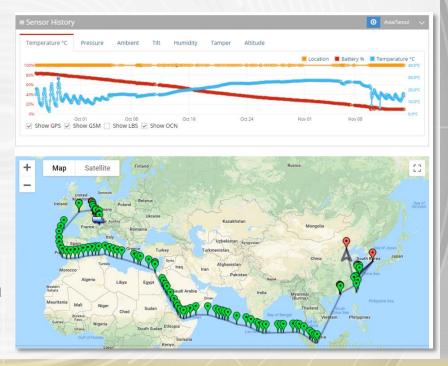
Objectives

- Objectives: Multi-Modal end-to-end Visibility and shipment monitoring
- Notifications/alerts: Waypoints,
 Temperature and delays



Particularities

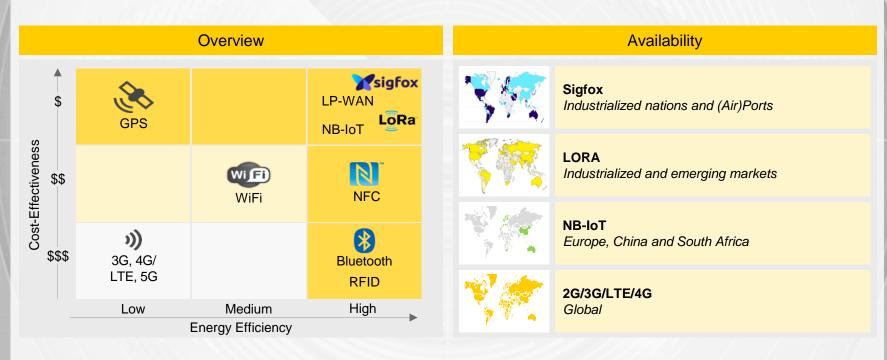
Automated **Shipment Creation**, in-transit **tracking** and battery-saving **Ocean Mode**





PROMISING

LOW-POWER-WIDE-AREA-NETWORKS



1) Standard for local and metropolitan area networks



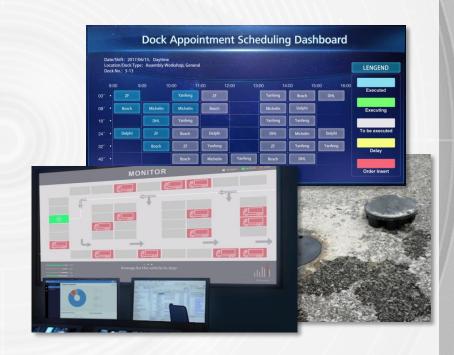
DIGITAL YARD MANAGEMENT IN PARTNERSHIP

WITH HUAWEI



Use case:

- Leading car manufacturer plant in China
- Traffic jams and lack of space at the inbound docks
- No visibility on the inbound process for a plant operating on JIT philosophy





OPEN INNOVATION APPROACH



ALL OUR TREND REPORTS ARE AVAILABLE FOR DOWNLOAD: WWW.DHL.COM/INNOVATION



OUR INNOVATION CENTERS – GLOBAL PRESENCE

We are looking forward to welcoming you



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