

# TOBIE RETIEF

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Smart transportation solutions



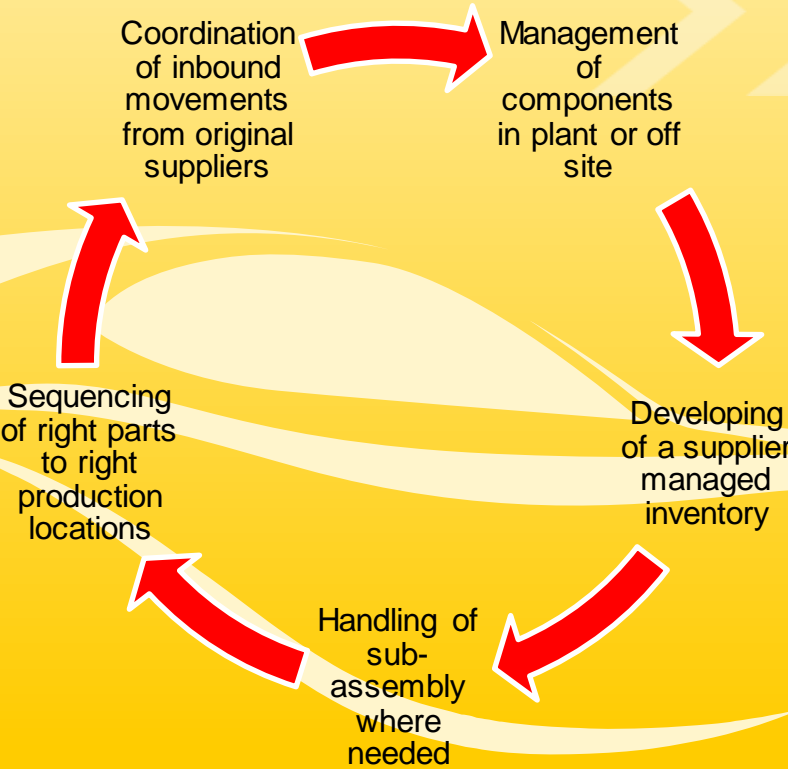
**WE NEVER STOP**

**DELIVERING EXCELLENCE  
TO THE AUTO-MOBILITY  
INDUSTRY**

**SMART  
TRANSPORTATION  
SETUPS**

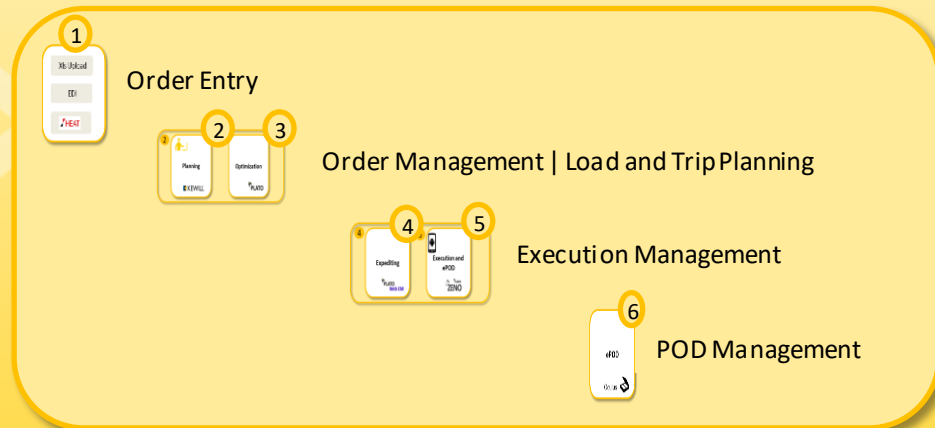


# I2M: EXECUTIVE SUMMARY



# I2M IN PRACTICE

- Providing integration to the supply chain
  - Challenging the status quo through technology
  - End to end process for order management & execution
  - Providing full visibility of supply chain network
- Allowing synergies in the supply chain
  - Reduction of inventory and cost of capital
  - Cross dock and staging benefits
  - JIT & JIS principles ensures a professional approach
  - Sharing of logistics costs with other OEM's
  - Providing support to Tier 1 and Tier 2 suppliers
  - Enabling cost reductions and improved CPU





INNOVATION





- Innovation from DHL Start-up Lab
- Combining trucks / trailers with sophisticated solar panels
- Reduction of fuel consumption and vehicle emissions driving towards our target of zero emissions by 2050



**STREETSCOOTER**

- An affordable, robust electric vehicle for short journeys
- Multiple models (Work, Work L, Work XL, E-Bike, E-Trike)
- Production capacity of 20,000 units per year





# Hybrid truck



- Currently in demo phase
- Aims to reduce fuel consumption and emissions



# Truck Platooning

**DHL and DAF Trucks** will participate in a **two year truck platooning trial** in the UK



## The solution

- Lead vehicle is manned
- Driverless vehicles in 'following' mode
- Vehicles connected by WiFi
- Radar / Lidar distance keeping

## The benefits

- Improved fuel economy
- Reduced congestion & fewer collisions

## Driver Drowsiness

FUJITSU

### Rechargeable battery

Vibrator mechanism  
Battery mechanism  
(45 hours operation)

### Vibrator

### Ear clip sensor

Bluetooth4.0  
Monochromatic LED x 2  
Operation switch  
Micro-USB charging terminal

### LED

Red: Battery and charge  
Blue: State (BT pairing)

### Operation button

- Power On/Off
- Notification stop



**THANK YOU**

