DRIVING TOWARDS THE AUTOMOTIVE 4.0: OPPORTUNITIES AND CHALLENGES





AGENDA



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TRANSPORT MANAGEMENT CENTER (TMC) 2





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INNOVATION & **Technology**









WAREHOUSE OPERATIONS CAPACITY

70

LOCATIONS

650,000 SQUARE METERS

TOTAL SPACE

12,000++

HEAD COUNT

TRANSPORT OPERATIONS CAPACITY

DRIVERS

3,300

FLEET

4,176

VARIOUS FLEET TYPES SUIT TO CUSTOMER'S NEEDS

40 LOCATIONS

SWITCH POINTS

CENTRE

550K TRIPS /YEAR

TRANSPORT TRAINING SCHOOL

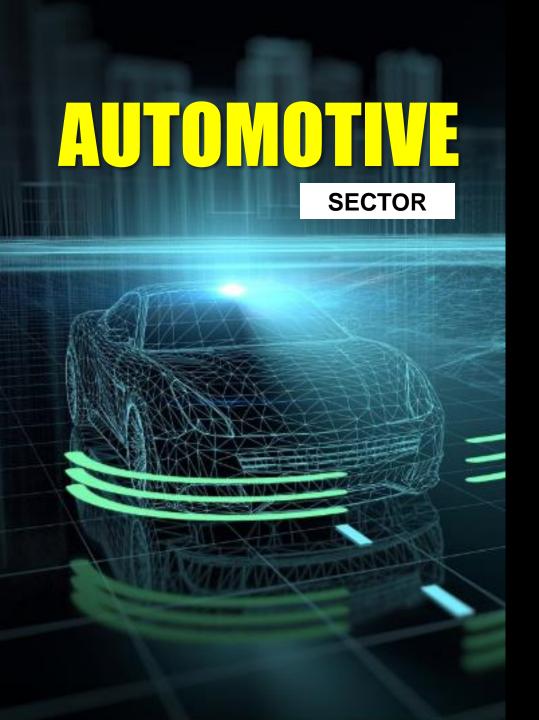
12

UPCOUNTRY HUBS TRANSPORT KI MANAGEMENT

187MN
KILOMETERS
/YEAR

DRIVER TRAINERS





CUSTOMERS



















































PRODUCTS

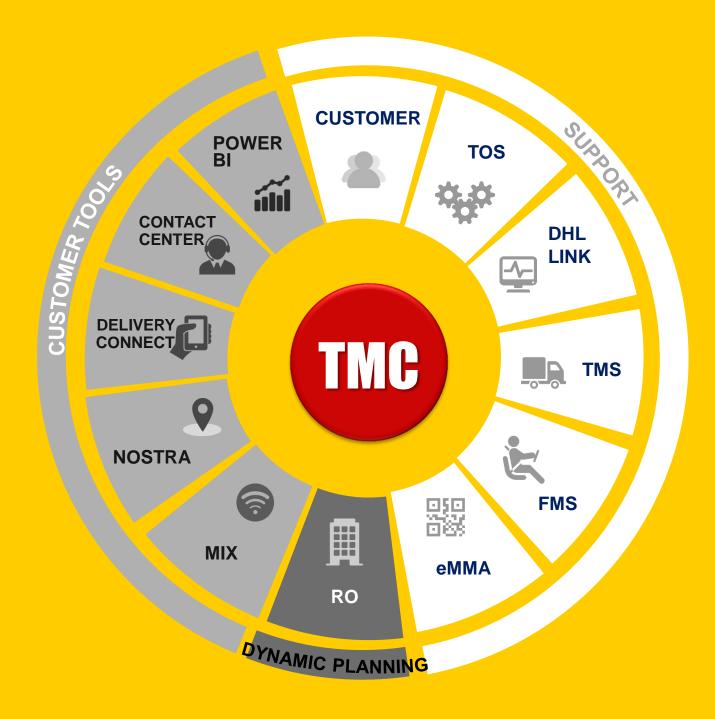


Auto parts



Tires



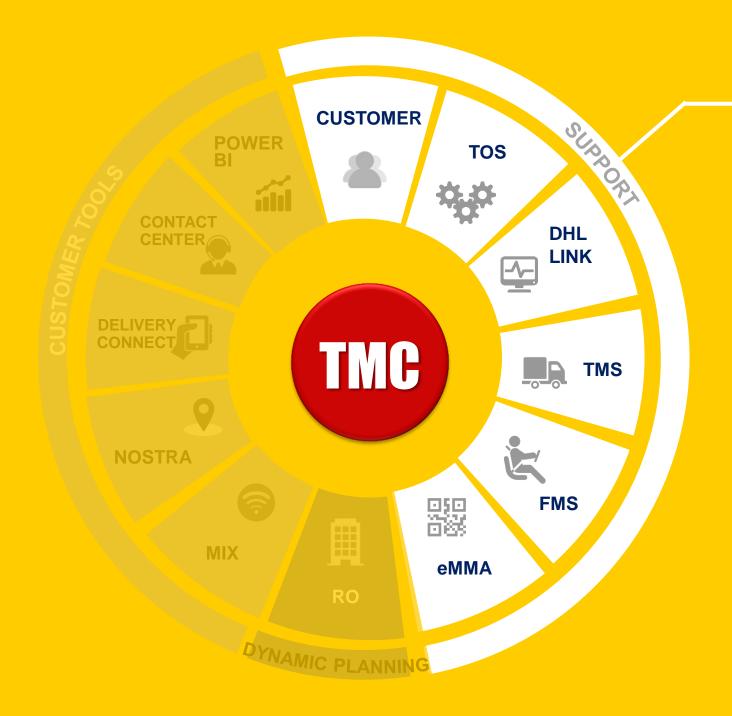


DHL TRANSPORT MANAGEMENT CENTER (TMC)

12 automated systems that creates the TMC

Our Transport Management Center provides customers with 24/7 track and tractability of vehicles and orders.

It enables us to monitor safety, compliance and provides real time planning ensuring the most optimized routes are achieved to provide excellent service to our customers.



SUPPORT

- Customer Interface
- Clean data
- Master data
- Data integrity
- Oracle billing/invoicing
- Drivers and Vehicle database
- Fleet Maintenance / Compliance
- Pre Trip inspections live



Plan vs Actual



Real Time planning



Reduce Co2

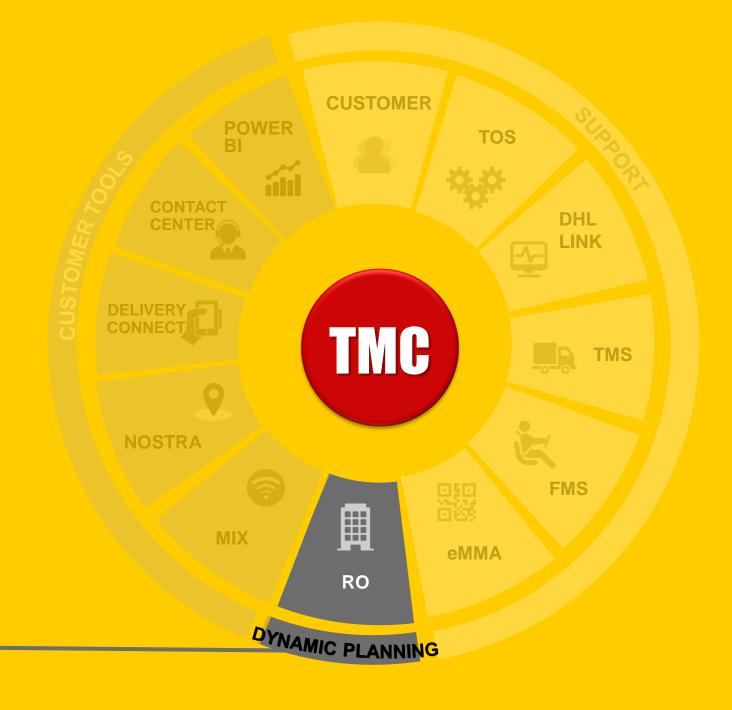


Reduce Cost



CUSTOMER SERVICE



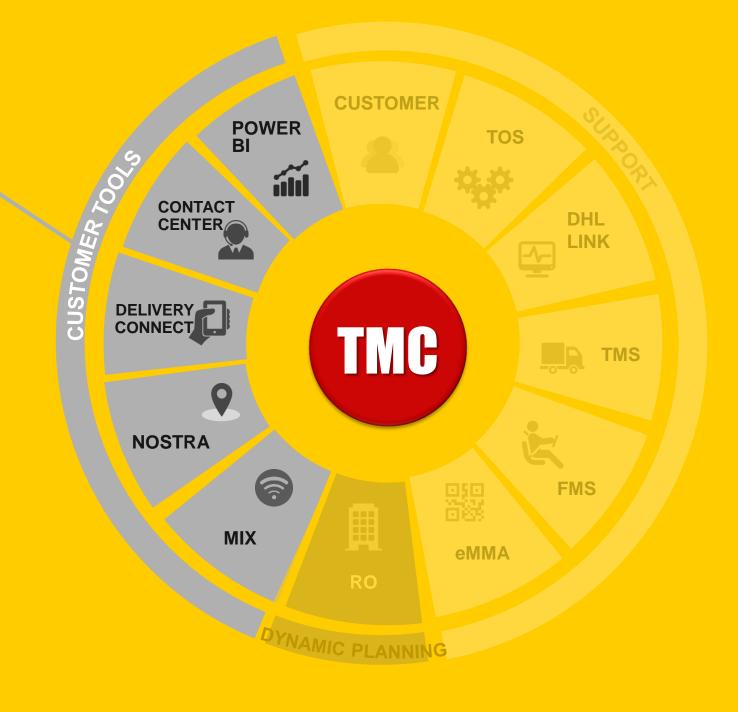


CUSTOMER | TOOLS

Telematics

Connected View

Power BI



TELEMATICS

Telematics device records data and activities during the trip. (Installed in all DHL own fleet and some sub contractors fleet)

- Connecting +4000 vehicles
- Real time Safety alerts on driver & vehicle
- Improve Control
- National Network solution



CONNECTED VIEW

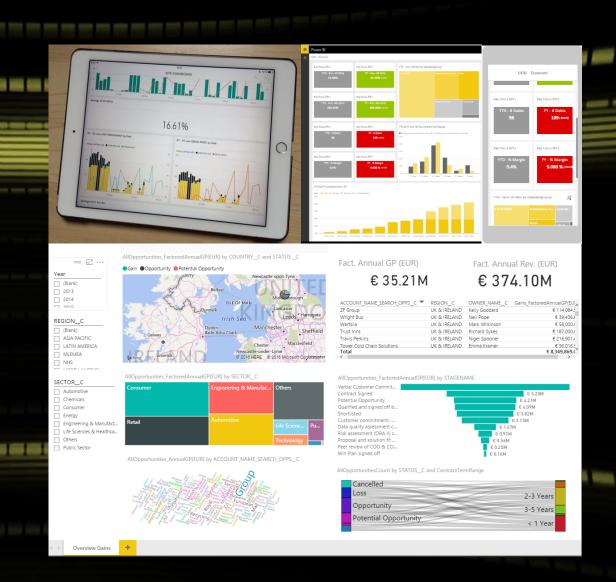


A web-enabled system providing customers with full visibility of the operations within their DHL managed supply chain. Near real-time shipment, warehouse and inventory data visibility is available online – anytime, anywhere.

POWER BI

- Business information tool
- Visual analytics

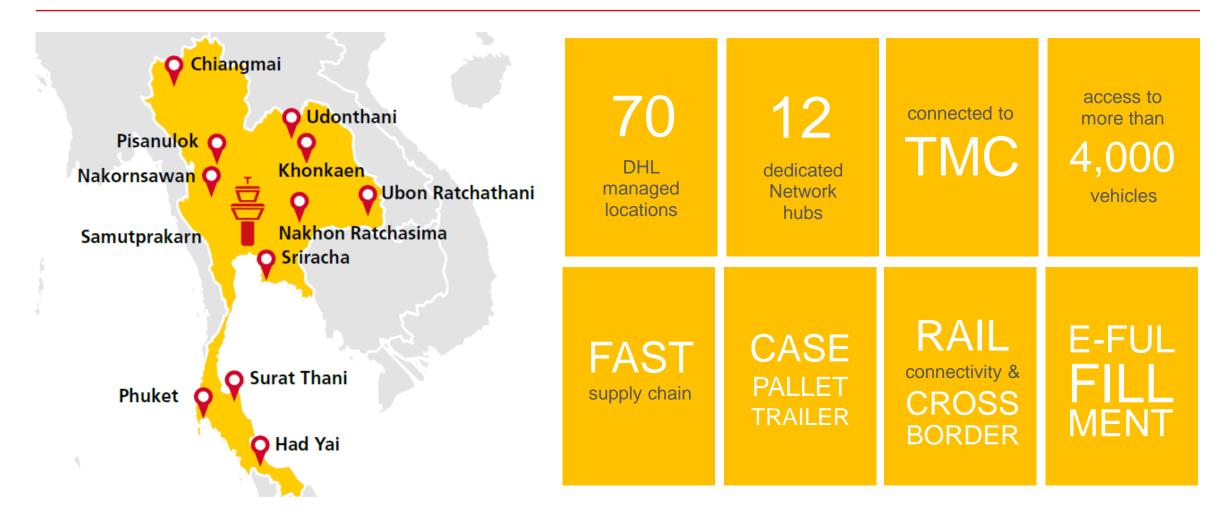
- Mobile reporting
- Scheduled reporting
 - o Labor
 - o Operations
 - o Finance
 - o Sales
 - Start Ups
 - And much more....



SEAMLESS TRANSPORT TECHNOLOGY



TRANSPORT NETWORK





TRANSPORT MANAGEMENT CENTER

CUSTOMER BENEFITS

- Single point of contact
- Full visibility of Vehicle and Order status
- Automatic alerts via Geo Fencing
- Solution (What if?) Planning
- Demand Planning
- Compliance and Safety
- Cost efficient supply Chain
- Product and Brand care
- +4000 vehicles
- X Border Management
- Nationwide Fast Supply Chain











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TRANSPORT MANAGEMENT CENTER (TMC) 2





32 PALLET TRUCK

New vehicle with tail gate bridge which help increase the efficiency of loading/unloading time

THIS NEW DESIGN TRUCKS HAVE BEEN APPLIED IN DIFFERENT OPERATIONS ACROSS BUSINESS TO SUPPORT CUSTOMERS FROM VARIOUS SECTORS



What is the creativity?



Allows drive-through loading and unloading without uncoupling the trailer. This also increases truck flexibility as both header and trailer can be unloaded in non dock locations.



Flexibility Capacity Innovation
Safety Cost saving
CO2 emission
Fuel efficiency
Utilization

INNOVATION AND TECHNOLOGY

GUARDIAN SYSTEM

Real-time Fatigue and distraction detection by detecting the eye blinking and head movement and voice alert in-cab to warn the driver using Satellite Communication

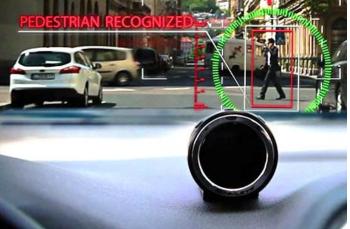




MOBILEYE

- Providing early warning alerts to driver on external activity
- Engine Management Connection









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TRANSPORT MANAGEMENT CENTER (TMC) 2



INNOVATION & **Technology**



RESULT!

The integration is improving the business incrementally

FUEL COST REDUCED BY 18%

MAINTENANCE REDUCED BY

INSURANCE REDUCED BY

DRIVER
BEHAVIOR
IMPROVED BY

64%

COST REDUCED BY

ACCIDENT REDUCED BY

CO2
REDUCED BY

56%

OFF ROUTE
REDUCED BY

IDLING REDUCED BY

COMPLIANCE IMPROVED TO



CERTIFICATE OF EXCELLENCE

2018

DHL SUPPLY CHAIN (THAILAND) LTD.

Thailand

In recognition of your company's commitment to adopting *Green Road Freight practices* as a Carrier¹ GFA Label Leaf Level: FOUR



* Carrier

Company that owns commercial road vehicles for the transport of goods



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DHL Supply Chain Thailand is the FIRST organization in Asia Pacific

to receive GFA Label Leaf 4 Award

Q&A

