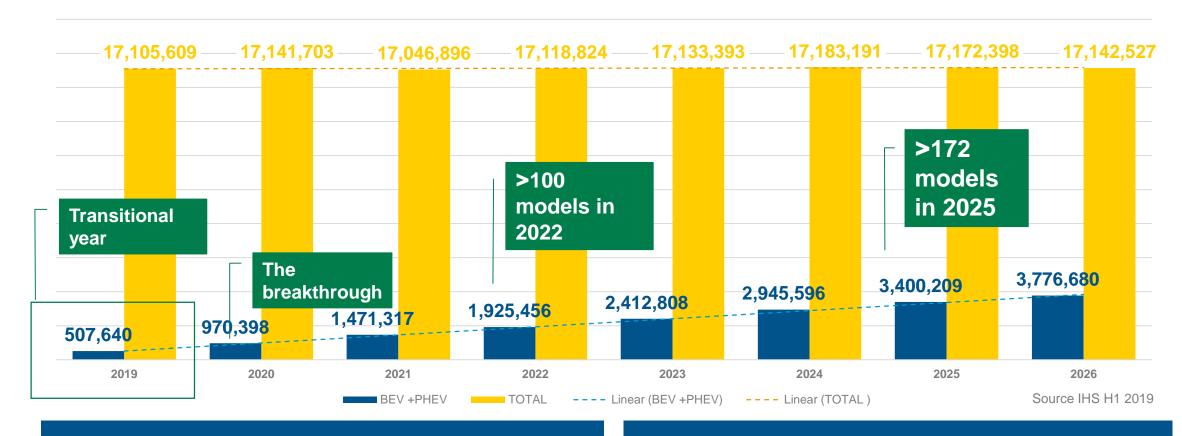






TOTAL EV SALES IN EUROPE



Global trends SLOWDOWN Between 2020 and 2022, the share of EV will be between 6% and 11%

PRODUCTION & SALES IN EUROPE

Battery & vehicle Production by 2025



EV Sales Q1 2019



Top 6 markets by volume Q1 2019/2018

- 1 **# Norway 23,405** (+44.6%)
- 4 France 14,503 (+33%)
- **2** Germany **23,326** (+32.7%)
- 5 Netherlands 11,704 (+110%)

3 **■ UK 14,579** (+2.9%)

6 Sweden 9,806 (+61.5%)

Electric vehicles challenges

Invent new production and retail models compliant and customer centric

Regulation Pressure

City
Mobility

7 Production

Charging Equipments

Supply chain challenges

More complexity to manage while reaching cost & green efficiency.

Cohabition of 2 models

EV vs thermic

Batteries & Charging

Omnichannel

Batteries end of life management

AN INTEGRATED LOGISTICS PERIMETER

Inbound

Cell/module/BMS/ pack supply

- Dangerous good compliant Transportation
- Compliant VMI
- Compliant VAS (Kitting ...)
- Compliant line side deliveries

Outbound

Vehicles transport, storage & distribution

- Multimodal transportation
- Storage
- PDI: Charging options
- Mobility fleet preparation and maintenance
- B2B & B2C deliveries

Aftermarket

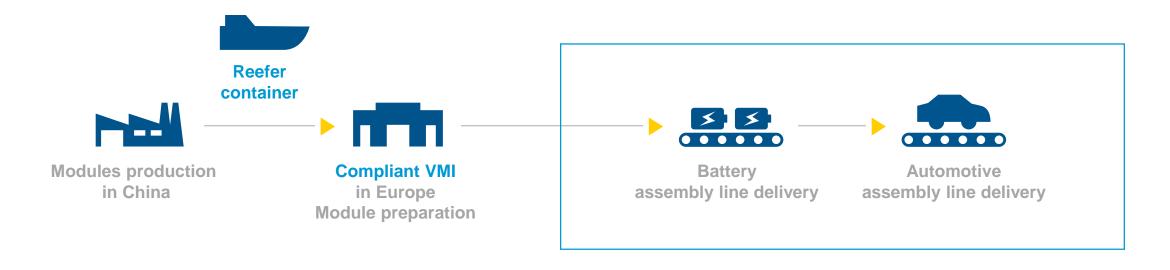
Spare parts storage & distribution & vehicle movement

Battery end-of-life management

- Regional compliant hub
- Compliant Economic& express deliveries
- Compliant reverse logistics product & packaging (new & critical)
- Waste management
- Doorstep pick-up & delivery

- From repair center to recycling center
- From Recycling center to manufacturers

BATTERY ASSEMBLY LINE DELIVERY END-TO- END INTEGRATED LOGISTICS OFFER





End to end tracking



CELL/MODULE/BMS PLANT SUPPLY



Key figures

Products: Modules and BMS

135 container form China to

Europe (year): Modules & BMS

5% air – 85% ocean

Business challenges

Strict DG guidelines & procedures with no standards for batteries handlings

Limited choice of carriers & supply of equipment DG capacities in Fuzhou port

IL

Short leadtime requirement to supply car plant

GEFCO solution

Control Tower in France to synchronise flows

- Synchonise all the players to ensure that all documents & loading requirements are in full compliance
 - customer, terminal authorities at pol / pod. ocean carriers, vessel owners and ship captain
- Use reefer containers 25°C
- Provide volume forecast to carrier to ensure sufficient equipment supply

Select compliant carriers

- Identify the best POL & Ocean Carriers (CMA, OOCL, MAERSK & COSCO) who accepts Car **Batteries**
- Use HK & SIN as an alternative for better space protection

- Minimizing the numbers of transit ports to avoid refusal of DG bookings and to meet customer's transit time requirements
- Obtained the pre-approval of DG shipment from the Ocean Carriers /Terminal Authorities to shorten the application time
- Advance document preparation before shipment arrival to shorten the processing time and expedite the delivery

Multi modal transportation

- Ocean
- Air
- TCS

Client Benefits

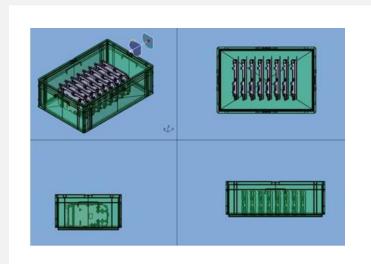
COMPLIANT



shorter & reliable **TRANSIT** TIME



BATTERY PLANT SUPPLY: VMI



Key figures

- Products: Modules & BMS
- In the high level racks by 3
- Ambient storage 12° 30°
- **FIFO** respecting (by pallet ID)

Business challenges

Stock and Prepare the module to supply the battery plant

GEFCO solution

Set up a VMI Inbound

- Reception Visual control of the pallets, qualitative checking of packaging & quantitative of goods
- Store in to stock into high racks
- Registration of pallet in IS by RF scanner

Repacking

- Repacking piece by piece from carton to Reusable packaging
- Labelling

Outbound

 Picking pallets from preparation zone storage positions

- Labelling pallet with label
- Loading pallets into truck by counterbalance truck
- Shipping administration
- IT removal from storage
- Issuing of transport documents

Data Flow

- EDI or email communication between Client & GEFCO
- Daily reporting about movement in warehouse stock

Line side delivery

Waste management

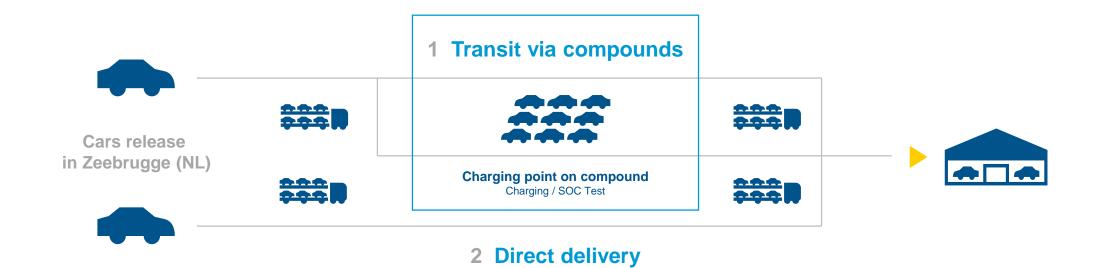
Client Benefits

COMPLIANT



SMOOTH SUPLLY

EV TRANSPORT & DISTRIBUTION









CONTROL TOWER
(Bulgaria)

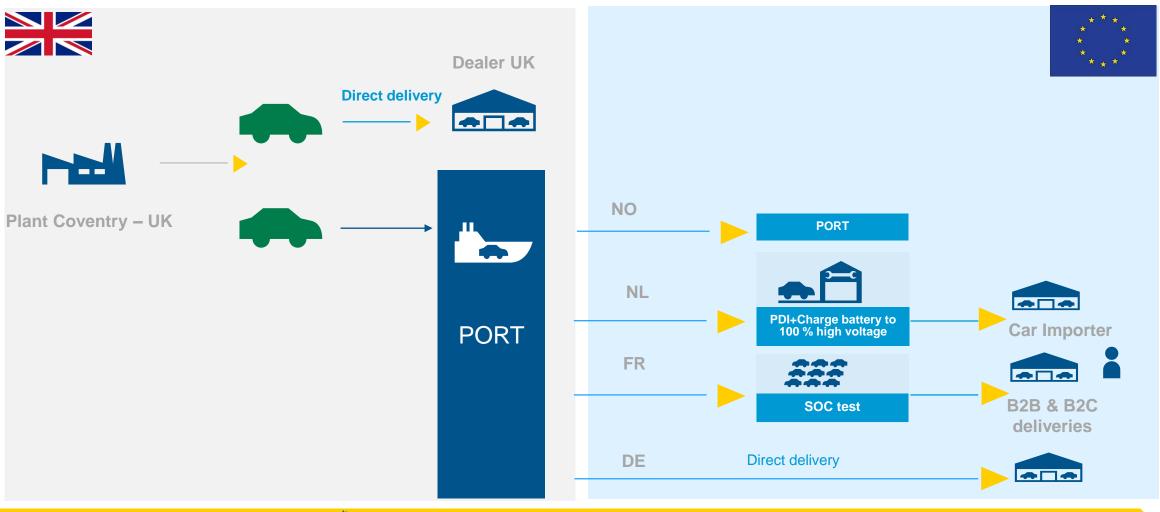
CHARGING IN COMPOUND GREEN & FAST







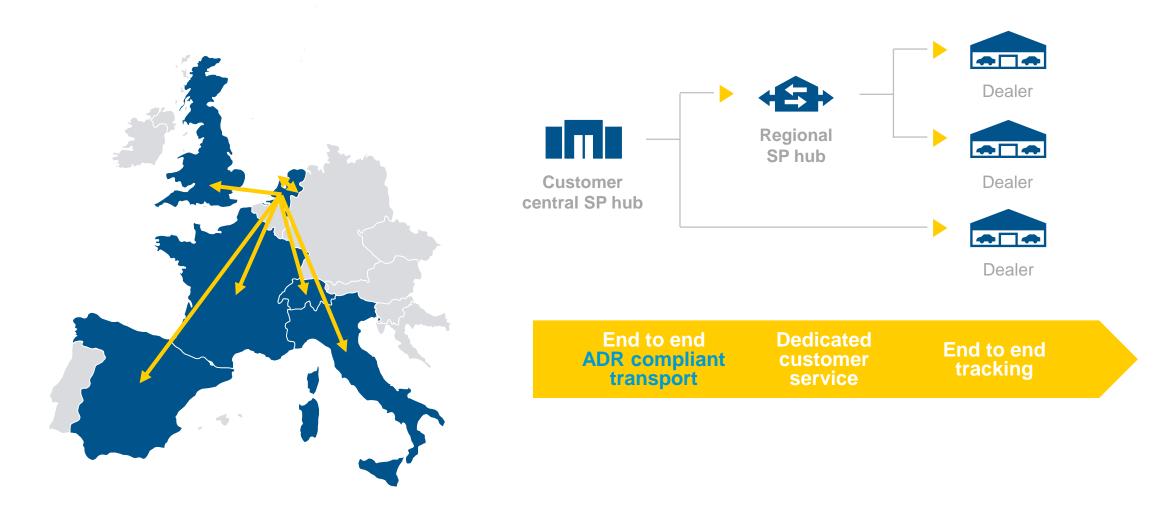
EV EUROPEAN TRANSPORT & DISTRIBUTION





End to end tracking

SPARE PARTS DISTRIBUTION IN EUROPE



BATTERY STORAGE& DISTRIBUTION OVER EUROPE

