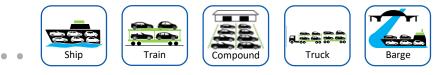


**The Association of European Vehicle Logistics** 

# WLTP and the impact on the vehicle logistics sector

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#### **From NEDC to WLTP**



- The current test New European Driving Cycle (NEDC) – was designed in the 1980s and is outdated
- Worldwide Harmonised Light Vehicle Test Procedure (WLTP) is the new improved laboratory test for fuel consumption and CO<sub>2</sub> emissions
- WLTP is complemented by the Real Driving Emissions (RDE) test which will measure pollutant emissions while driving in real driving conditions on the road

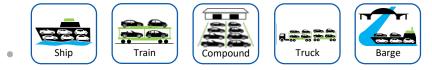


#### WLTP Introduces More Realistic Testing Conditions



- Greater range of driving situations (urban, suburban, main road, motorway)
- Longer test distances
- Higher average and maximum speeds
- Higher average and maximum drive power
- More realistic ambient temperatures, closer to the European average

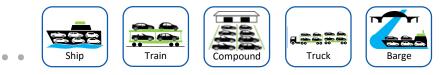
- Shorter stops, harder acceleration and deceleration
- Stricter car set-up and measurement conditions
- All optional equipment is tested separately e.g. different sizes of wheel, roof rails etc.
- Best and worst-case values are used instead of average values
- More realistic driving behaviour



## **Consequences of WLTP (1/2)**



- WLTP will provide a much more accurate basis for calculating a car's fuel consumption and CO<sub>2</sub> emissions
- Reflects more real-world factors and therefore the on-road performance of a car
- Test times will increase 50% (20 min to 30 min) and testing in general will increase because much optional equipment results in a variety of different derivatives that need to be tested separately



## **Consequences of WLTP (2/2)**



- CO<sub>2</sub> emission and fuel consumption figures will differ from NEDC figures which could impact vehicle taxes, retail prices and thus consumer demand
- From September 2017 it applies to new car models
- From September 2018 will apply to all new car registrations
- End-of-series vehicles of max 10% of one or more types approved under the old test (NEDC) can be sold until September 2019 - subject to conditions

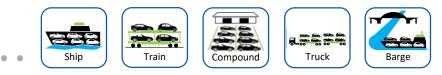


## **Consequences for Vehicle Logistics (1/2)**



- Stockpiling of storage capacity Storage facilities could start to crowd-out because of:
  - end-of-series sales
  - longer tests and more variations to be tested
- Ending production of some car models/engines

   Stricter tests (WLTP and RDE) will lead to tighter
   type-approval of cars/engines



# **Consequences for Vehicle Logistics (2/2)**



- **Customer pull forward** Dealers / customers might anticipate the possible changes to taxation
- Change in demand with model ranges differences in fuel consumption and possible tax increases may change demand patterns
- Post-production options (PPO) activities may be switched from dealer to hub or vice versa by OEMs





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## ASK YOUR CUSTOMERS WHAT THEY ARE PLANNING!

