# DAIMLER TRUCK

#### Vehicle OEMs – Daimler Truck Perspective

Zach Barra

1/17/24



## Vocational Applications

#### Market Considerations:

- Lift Axles
- Body Equipment
- Bridge Law Reqs
- Multiple Loads/Day

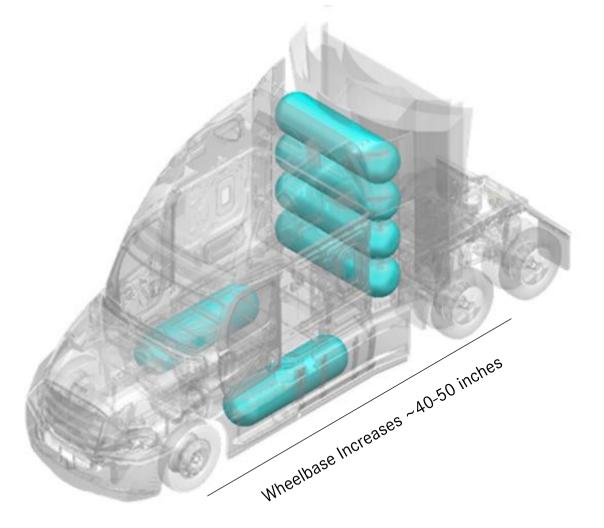
and in the set of the the

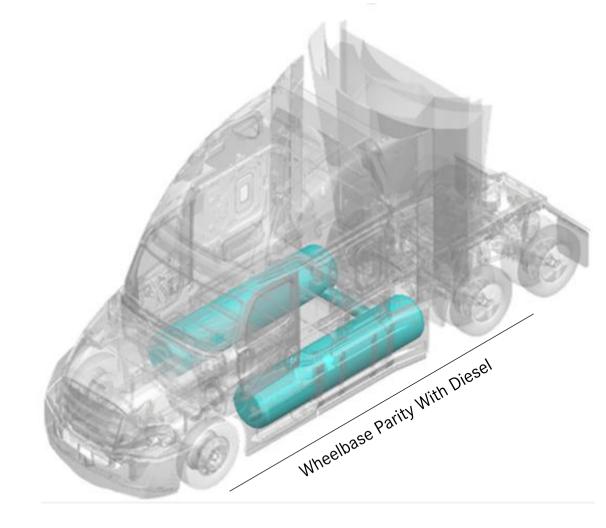
## Long Haul Applications



Market Considerations: ~600 miles/day Efficiency is Critical Sleeper Cabs Maneuverability

### Compressed System vs Liquid Storage – Long Haul





### sLH2 Fueling Stations for heavy duty land vehicles

- Filling of subcooled LH2 at approx. 26 K into a vehicle tank to pressures up to 1.6 MPa
- Advancement of known technology LH2 filling (at pressures up to 0.6 MPa)
- sLH2 Filling offers many advantages over LH2 filling
- Allows high flow fueling (> 400 kg H2/h) with very low TCO
- sLH2 Fueling Process and Interface shall be standardized in open CEP working groups



Guildford, UK, December 10, 2020 - Linde (NYSE: LIN; FWB: LIN) has signed an



### sLH2 offers high Performance for Long Haul Trucks

**Cost efficient** No Carbon Fiber for Tanks required

High Storage Capacity >100kg H2 usable in Tractor

Fueling of multiple Tanks through just one Connection

Fast refueling comparable to conventional fueling

No H2 losses in fueling Refueling w/o H2 losses

**No H2 losses in operation** Typical Long Haul Heavy Duty operation profiles w/o boiloff

No data transfer required for refueling process control

Low energy demand <0.05 kWh/kg hydrogen dispensed

#### No protective clothing required

All rights with Daimler Truck AG, also regarding any disposal, exploitation, reproduction, editing, distribution, as well as in the event of applications for industrial property rights.

#### sLH2 is an Open Standard available Industry-wide

#### Whitepapers Accessible

The sLH2 Fueling Process and Interface are defined via Whitepapers publicly available <sup>(1)</sup>

ISO Standard In Progress ISO Working Group (TC197/WG35) is working on standard for sLH2 Refueling

#### **ISO Working Groups**





The target is One Common Standard usable industry-wide