



### **Decarbonizing transport logistics is more than a BEV Truck!**



\* Derived from CO2 fleet targets of the EU (minus 5% expected energy savings of Diesel trucks by 2030) | \*\*TRATON and MAN internal data | \*\*\* Assumption per wind turbine: 4.6 MW, 2,608 full load hours per year (data by WindEurope) \*\*\*\* ACEA (2023), Fact Sheet CO2 Standards For Heavy Duty Vehicles | 1 TCO = Total Cost of Ownership

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# **Success** in decarbonization is a multiplication of the four factors!



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### The ramp-up of public charging infrastructure is facing several challenges **Current experiences (DE)**

#### General challenges in Europe

- Availability of grid capacity for MW charging not always given
  - $\rightarrow$  time consuming application and provision
- **On-site responsibilities**, especially at interface between grid suppliers, hardware suppliers and infrastructure consulting companies often not specified
- Different maturity level of responsibility split between federaland state functions
- Limited availability of space (brown and green field), especially at potential charging hot-spots



# The overall ramp-up speed of public available charge points for commercial vehicles is too slow

#### Available and announced public charge points<sup>3</sup>

Already available <sup>1</sup>	Latest public announcements until 2030 <sup>1</sup>		Need until 2030 <sup>2</sup>	
0	230		≈8.000	
2	34		≈1.000	
32	87		≈3.400	
35	160		≈2.900	
5	12		≈5.700	
3	175		≈900	
19	90		≈1.200	
	300			
27	100		≈10.000	
4	6		≈1.400	Π
	1700			$\langle \bigcirc \rangle$
127	2894	In total ≈50.000 char		arge 🖊
3021		points vs. 3021 🎽		

Announcement speed



- No announcements yet
- Limited number of announcements
- Still limited announcements, but increasing frequency

#### Key takeaways

- Currently available charging infrastructure is very limited
- Sum of announced infrastructure ramp-up until 2030 is far **behind overall** need of 50.000 charge points
- Speed of announcements is increasing in some countries - nevertheless, overall speed is still too slow

50.000 charge points until 2030 means opening of ca. 30 charge points per day – beginning now!

> AN interna ACEA 2021 (MAN internal adapted

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