

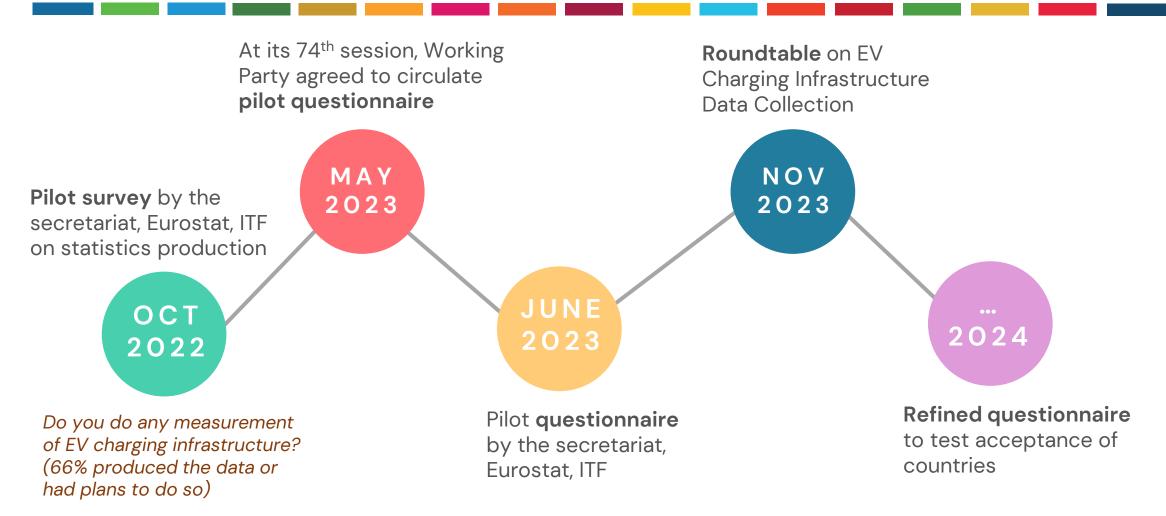
TAKING AMBITIOUS CLIMATE ACTION Decarbonising

inland transport by 2050

# UNECE

#### Electric Vehicle Charging Infrastructure Data Collection Fadiah Achmadi, UNECE

#### Timeline





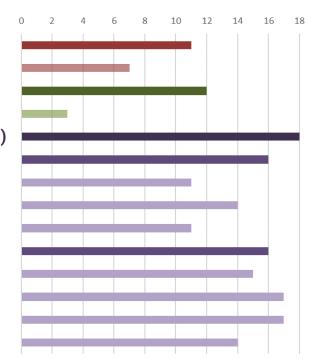
#### June 2023 Pilot Questionnaire

	2018	2019	2020	2021	2022	
Number of public recharging pools/locations						32
of which: restricted access/semi-public						J
Number of public recharging stations/devices						
of which: restricted access/semi-public						Countries
Number of recharging points/Supply Equipment (EVSE)						responded
TOTAL AC (Category 1)						I
<i>Slow AC</i> : P <7.4 kW						
Medium-speed AC : 7.4 kW $\leq$ P $\leq$ 22 kW						00
Fast AC : P > 22 kW						23
TOTAL DC (Category 2)						
<i>Slow DC</i> : P < 50 kW						
<i>Fast DC</i> : 50 kW ≤ P < 150 kW						Provided data
Level 1- Ultra fast DC : 150 kW ≤ P < 350 kW						
Level 2- Ultra fast DC : P ≥ 350 kW						

# Number of countries reporting 2022 data

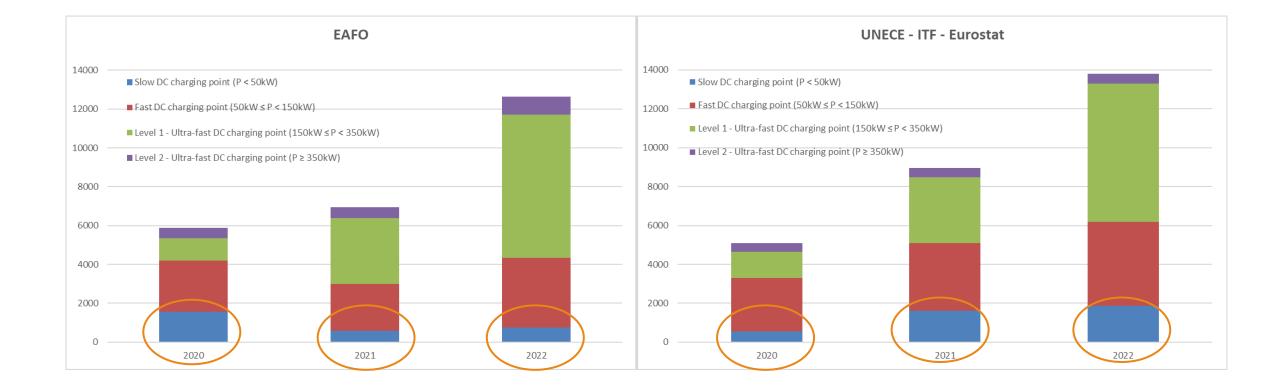
20

Number of public recharging pools/locations of which: restricted access/semi-public Number of public recharging stations/devices of which: restricted access/semi-public Number of recharging points/Supply Equipment (EVSE) TOTAL AC (Category 1) Slow AC: P < 7.4 kWMedium-speed AC: 7.4 kW  $\leq P \leq 22 \text{ kW}$ Fast AC: P > 22 kWTOTAL DC (Category 2) Slow DC: P < 50 kWFast DC: 50 kW  $\leq P < 150 \text{ kW}$ Level 1- Ultra fast DC: 150 kW  $\leq P < 350 \text{ kW}$ Level 2- Ultra fast DC:  $P \geq 350 \text{ kW}$ 



- Not all countries track/report "Restricted access/semi-public" category
- Disaggregated **AC** and **DC** charging infrastructure data are not always available
- Countries provided data as of Dec 31, Jan 1, June 30
- Some countries have different power categorizations, e.g.:
  - Level 1 Ultra fast DC: 150 kW – 250 kW
  - Level 2 Ultra fast DC: > 250 kW

# **Our data vs EAFO (German case)**



## Findings and next steps

Diverse approaches by countries

- Refining international definitions
- Identifying suitable indicators for consistent measurements

Strategic approach for data collection

- Starting in 2025 for CQ reference year 2024
- AFIR's mandates for power output
- UNECE Consolidated Resolution on the Construction of Vehicles (R.E.3)

#### Revised questionnaire

- Integrate new definitions discussed at the roundtable
- Follow-up questionnaire in 2024 to test the updated definitions and refinements



# **Refined Questionnaire**

Number of public recharging pools/locations	Number of public recharging pools/locations at 31.12				
of which: restricted access/semi-public	of which dedicated to heavy-duty vehicles				
Number of public recharging stations/devices	Number of public recharging stations/devices at 31.12				
of which: restricted access/semi-public					
Number of recharging points/Supply Equipment (EVSE)	Number of public recharging points/Supply Equipment (EVSE) at 31.12				
TOTAL AC (Category 1)	Alternative Current Slow AC: P < 7.4 kW				
<i>Slow AC</i> : P <7.4 kW					
Medium-speed AC : 7.4 kW $\leq$ P $\leq$ 22 kW	Medium-speed AC: 7.4 kW $\leq$ P $\leq$ 22 kW				
Fast AC : $P > 22 \text{ kW}$	Fast AC: $P > 22 \text{ kW}$				
TOTAL DC (Category 2)	Direct Current				
<i>Slow DC</i> : P < 50 kW	Slow DC: P < 50 kW				
Fast DC : 50 kW $\leq$ P < 150 kW	Fast DC: 50 kW ≤ P < 150 kW				
<i>Level 1- Ultra fast DC</i> : 150 kW ≤ P < 350 kW	Ultra fast – level 1: 150 kW $\leq$ P < 350 kW				
Level 2- Ultra fast DC : P ≥ 350 kW	Ultra fast – level 2: P ≥ 350 kW				
	<b>Power output installed in public recharging points (kW) at 31.12</b> of which dedicated to heavy-duty vehicles				





Working Party on Transport Statistics 75th Session

Navigating Sustainable Development Goals Progress With Reliable Transport Data



Palais des Nations, Geneva 24-26 April 2024



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## **Thank you!**

Fadiah Achmadi Secretary, WP.6

#### UNECE

Date 12 | 04 | 2024, Paris