# Our terminology

- **We focus on <u>charging devices</u>**

*A charging device is a unit capable of charging the batteries of plug-in electric vehicles. Devices are classified by their power output, and each device may offer one or more connecting points. The term 'chargepoint' is also sometimes used. This may refer to either a single device or a number of connectors on a device which can be used simultaneously.*

- **The UNECE survey referred to these as a charging station**

- **A charging device can have multiple connectors or sockets**
- **There may also be several devices at the same place or location, some refer to as a recharging pool – we don't look at the number of places where they are located together**

# Examples of charging devices

1 charging device
with 1 connector

1 charging device
with 2 connectors

8 charging devices
with 24 connectors

EV Charging Statistics - A UK perspective

# In the UK we publish two main outputs

**Will be focus of this presentation**

**Public charging devices**

- **Charging devices available to all or most members of the public**
- **Usually require payment to use**
- **Funded by a mix of industry and Government (numbers unknown)**
- **Public charging network provides for those without parking at home or en route whilst drivers are travelling**

**Grant schemes charging devices**

- **Not all available to all the public**
- **Some at home, some in workplaces and some on-street for those without parking at home**
- **Funded (at least in part) by the UK Government through grants**
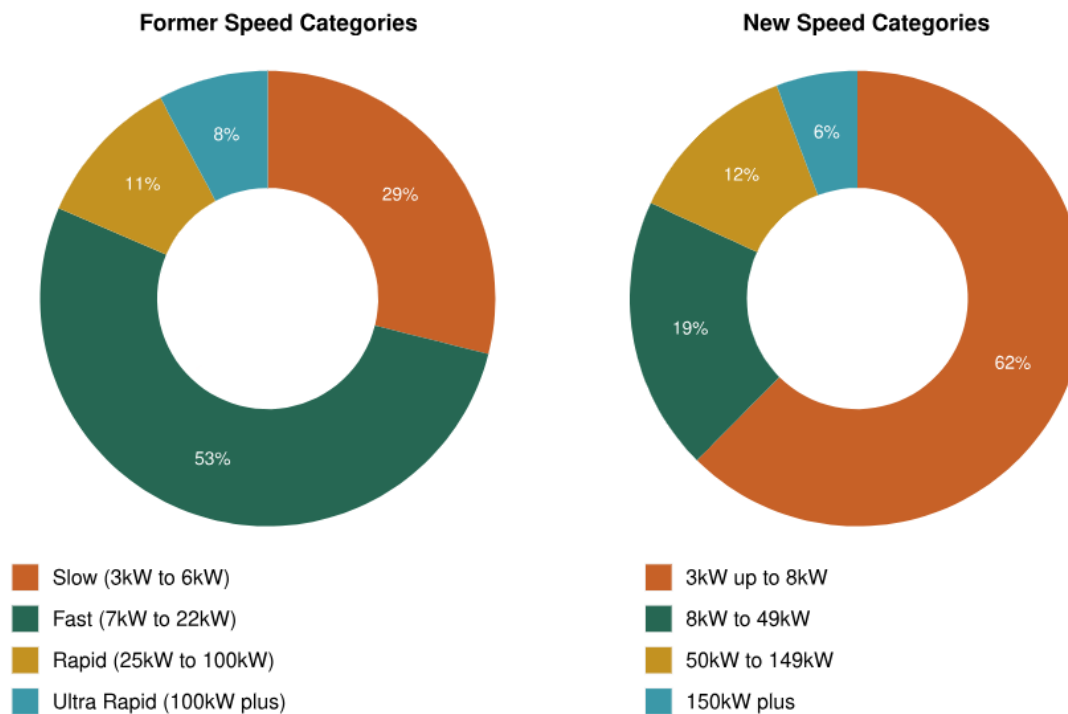- **Doesn't cover all private devices, only those funded by government**

# Public charging devices data source

- **The UK Government does not collect a full list of charging devices in the UK**
- **We purchase our data from an external company -** zapmap
  - [EV charging stations & electric vehicles - Zapmap (zap-map.com)](zap-map.com)
- **Their main business is a map & app of UK public charging devices aimed at drivers to help them find devices**
- **Data provision is not Zapmap's main business**
- **Zapmap report they cover 95% of publicly accessible devices**
- **At present, there are no other sources with such comprehensive coverage against which we could verify the Zapmap devices**
- **The contract through which we purchase the data restricts how we can use the data**

# What we publish

- **Total number of public charging devices**
- **Speed category of charging devices. To be aware we have recently changed these to align with existing Government legislation**
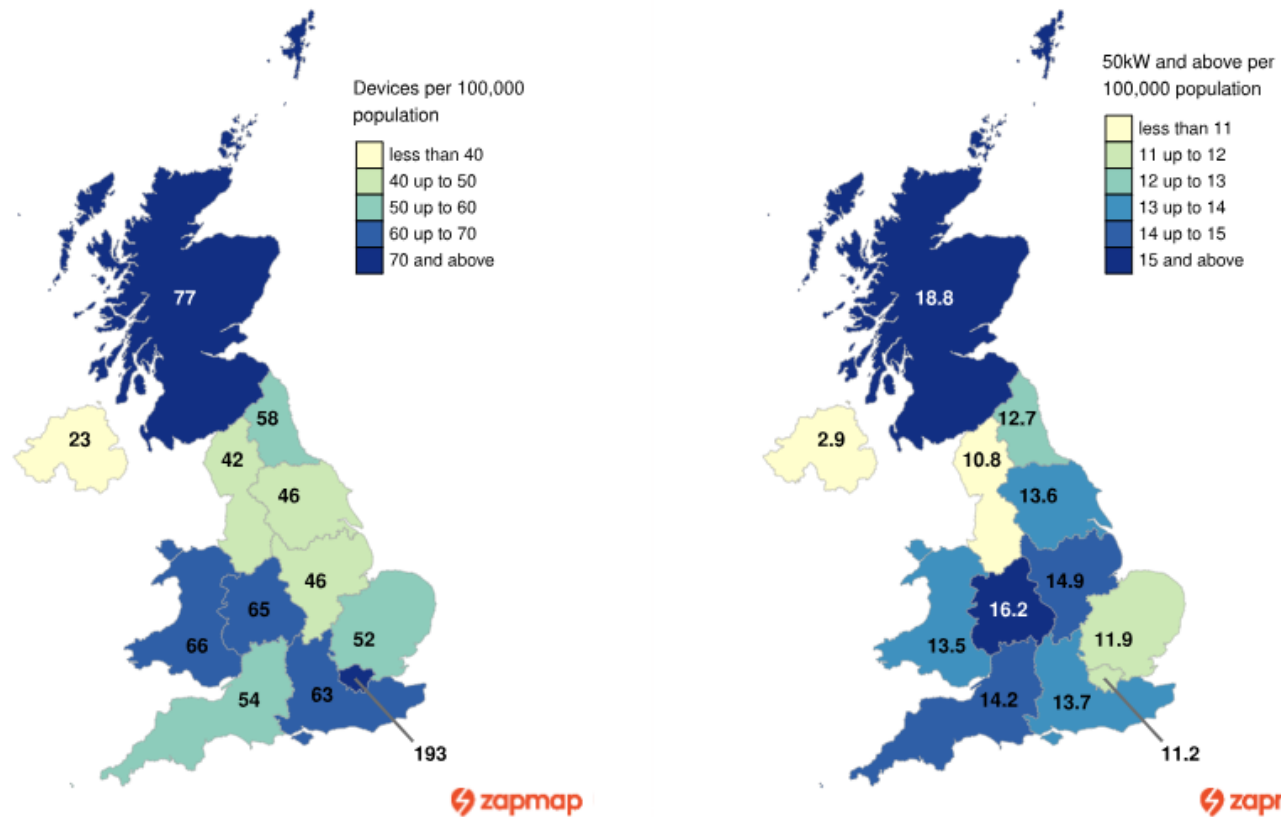
Chart 3: Public charging devices by charging speed 1 October 2023 (table EVCD_04)

**Former Speed Categories**

- Slow (3kW to 6kW) — 29%
- Fast (7kW to 22kW) — 53%
- Rapid (25kW to 100kW) — 11%
- Ultra Rapid (100kW plus) — 8%

**New Speed Categories**

- 3kW up to 8kW — 62%
- 8kW to 49kW — 19%
- 50kW to 149kW — 12%
- 150kW plus — 6%

Department for Transport

zapmap

# What we publish

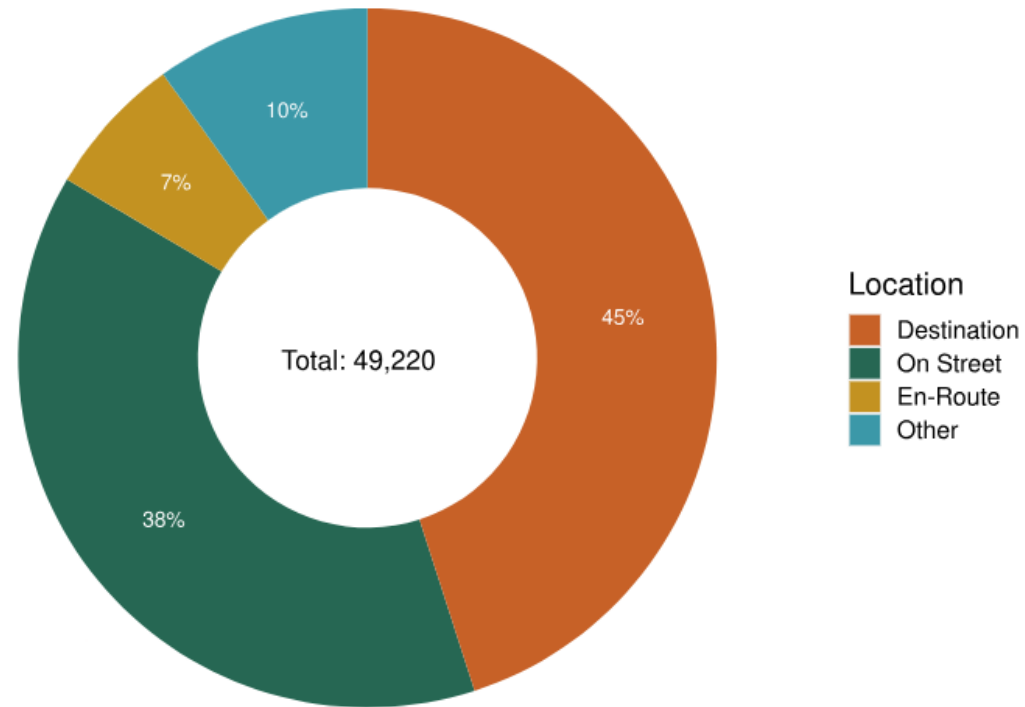- **Geographical distribution of charging devices**

Maps 1 and 2: Total and 50kW and above public charging devices per 100,000 of population by UK region 1 October 2023

# What we publish

- **Location category of charging devices**

**Chart 4: Public charging devices by destination of charging device 1 October 2023 (table EVCD_05)**



Total: 49,220

| Location | |
|---|---|
| Destination | 45% |
| On Street | 38% |
| En-Route | 7% |
| Other | 10% |

Department for Transport

zapmap

# What we publish

- **We also publish additional breakdowns, including**
    - Local administration
    - Rural / Urban split
    - Political administration (parliamentary constituency)

- **These can be found in our latest release**

**Electric vehicle charging device statistics: October 2023 - GOV.UK (www.gov.uk)**

# Barriers

- **Questions have been asked around what we should be measuring, comparing charging devices or number of sockets**

- **We are pushed for timings to get the latest data, we now provide monthly snapshots of the total number but cannot provide all the details as quickly as sometimes required.**

# The future of UK public charging data

- Our policy colleagues have passed new laws on EV charging device data
- Chargepoint Operators will have to make the data on their charging devices available publicly and at no cost
- The law only passed last month, so still work to do
- However, this may change the future of how we gather our data and how we can use this data