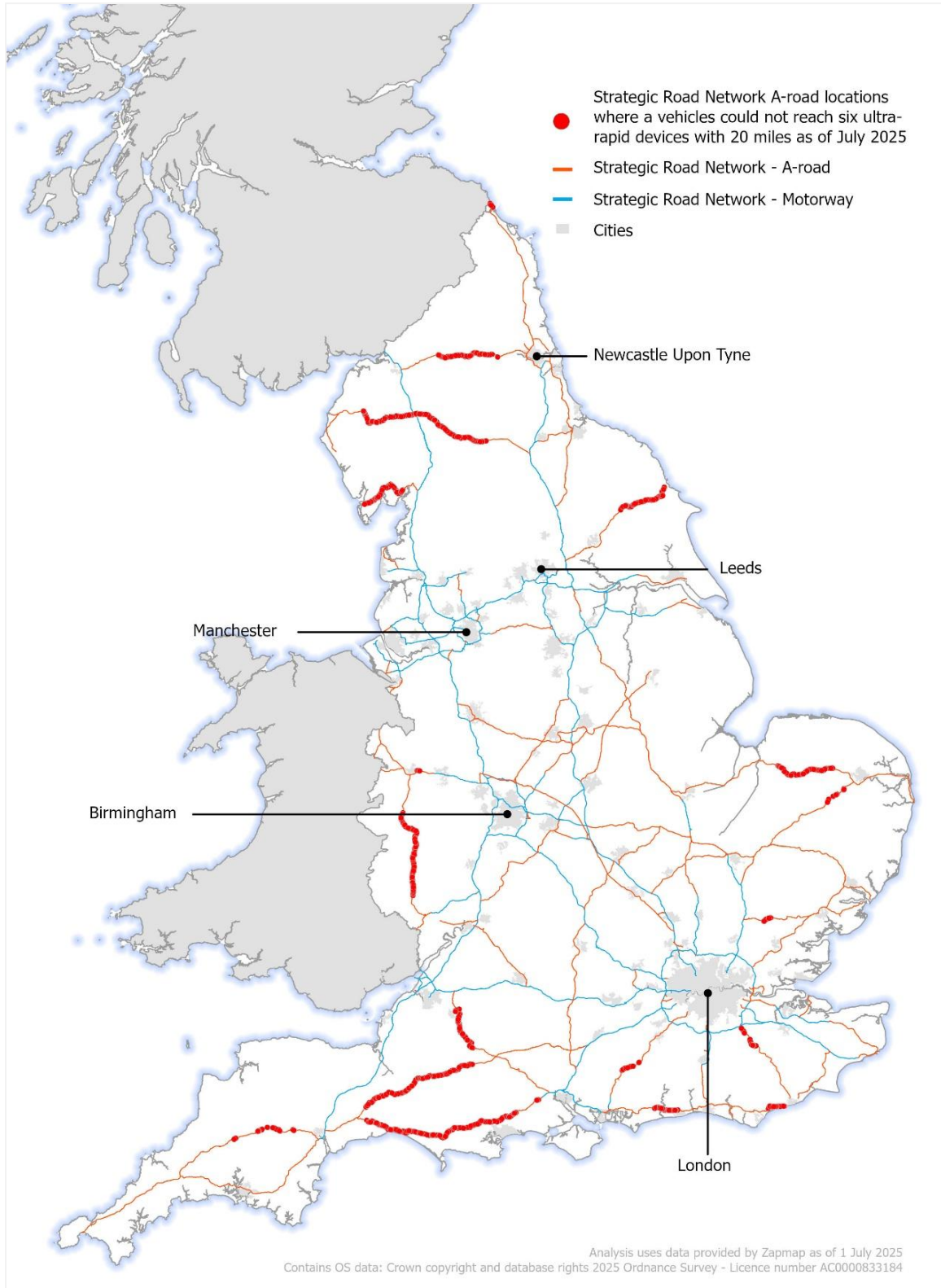


Charging Innovation on SRN - Supporting documents

Figure 1: Map of 'Cold spots' on all purpose trunk roads on the Strategic Road Network in England in July 2025



Notes:

1. The map displays Department for Transport (DfT) analysis showing sections of the all purpose trunk roads (APTR) network in England where 20 miles of range is not enough to reach a location with at least six ultra-rapid charging devices.
2. Cold spots are only defined for points on APTRs on England's strategic road network; Motorways and local A-roads are not analysed. Only cold spot stretches over a mile in distance are included in figure 1.
3. The analysis applies a routing algorithm to calculate the driving distance between points along the APTR network and charging devices.
4. 20 miles is based on the range of an average new car with 10% of its battery remaining.
5. The map uses Zapmap data on charging devices as of 1 July 2025 and only includes open-access charging devices.
6. The analysis is based on routes and is directional. A location where charging devices could not be reached may appear on one side of a carriageway even if there are chargepoints on the opposite carriageway.

Figure 2: Start and end point locations of ‘Cold spots’ on APTRs on the Strategic Road Network in England in July 2025

Road	Start node: Eastings	Start node: Northings	End node: Eastings	End node: Northings
A66	320320	530850	394960	512760
A303	321850	107570	386460	133520
A35	322400	99580	385170	95290
A49	344360	286510	350370	236370
A47	572550	315160	605890	313580
A590	321040	474060	344310	482910
A64	476890	470650	503210	484640
A31	385190	95340	426810	111970
A69	365850	565120	401980	563730
A36	376420	165750	386810	143520
A27	497420	106860	511420	105810
A30	241620	88060	278220	93360
A259	566470	106660	576360	108050
A21	550190	155510	559140	144840
A3	477680	129910	488110	134870
A120	563800	220510	568250	222740
A11	602560	293050	612610	301310
A1	397390	657050	398970	654820
A4	376660	166700	378560	167100
A5	352890	312270	354560	311990

Notes

1. Contains information derived from Ordnance Survey premium data: ©Crown Copyright and database right 2025. OS license number: AC0000833184.
2. Table shows the start and end points of cold spot stretches greater than 1 mile in distance, as displayed in Figure 1.
3. Coordinates are provided as British National Grid (EPSG:27700), using Eastings and Northings, rounded to the nearest 10 metres. Coordinates can be converted into latitude and longitude using the OSTN15 coordinate transformation tool: <https://www.ordnancesurvey.co.uk/geodesy-positioning/coordinate-transformations/tool>.
4. The start and end points represent the boundaries of the full road segment associated with a cold stretch. However, since cold stretches are not always continuous, the actual cold conditions may occupy only portions of a segment.