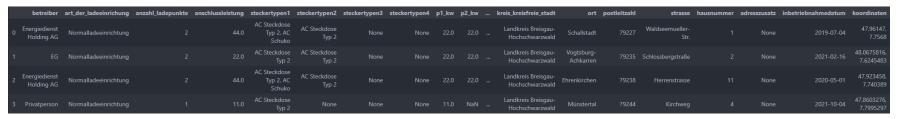


Chargers and EV Analysis Data Engineering Project

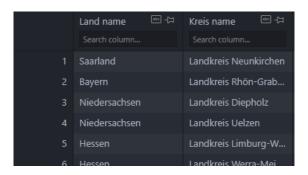




Datasource #1: Deutschland: E-Ladesäulen https://mobilithek.info/offers/-2989425250318611078

	state	total_vehicle	total_alternative	alternative_drive_percentage	total_electric_engine_vehicle	electric_percentage	electric_vehicle	hydrogen_cell_vehicle	plug_in_hybrid_vehicle	total_hybrid_engine_vehicle
0	Baden- Württemberg	161602	81814	50.6	40474	49.5	27750	11	12713	40709
1	Bayern	239012	106875	44.7	44173	41.3	32688		11450	61800
2	Berlin	33056	16733	50.6	6349	37.9	4758		1581	10263
3	Brandenburg	19324	8616	44.6	3845	44.6	2864		980	4604
4	Bremen	7180	3729	51.9	1464	39.3	1001		463	2229
5	Hamburg	36806	16721	45.4	5317	31.8	3915		1398	11254
6	Hessen	126125	52320	41.5	25907	49.5	16841		9063	25904

Datasource #2: Neuzulassungen von Kraftfahrzeugen mit alternativem Antrieb (FZ 28) im Jahr 2023 https://mobilithek.info/offers/573357313572614144



Datasource #3: Kreise - Germany

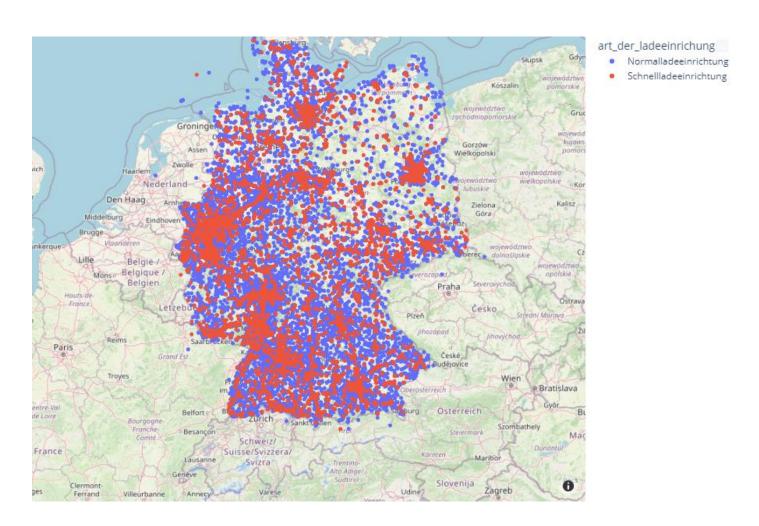
The Question

Which state of Germany that needs improvement in EV Charging facilities?



https://uk.mer.eco/news/germany-ev-charging-infrastructure/

Where are the EV Chargers in Germany?



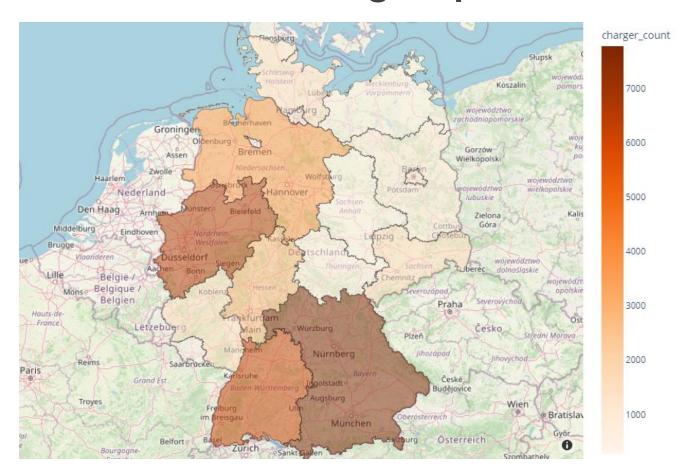
The data suggests that the chargers clustered mostly in southern Germany, except for big cities like Hamburg or Berlin

How many newly registered alternative vehicles in each state?



A notable trend is observed in southern Germany with a significant increase in newly registered electric vehicles (EVs), indicating a higher rate of EV adoption compared to the northern region.

What about chargers per state?



The plot reveals a robust EV charging infrastructure in southern Germany, indicating significant progress in supporting EV owners and facilitating the expansion of electric vehicles in the region.

Chargers per vehicle in Germany



In southern Germany, there is a scarcity of chargers for electric vehicles, making a possibility of inconvenience to own or travel with an EV due to more probable occupied charging stations.

Thank You

Questions?