Charger distribution for electric vehicles in Munich

Presented by:

- Georg Ammer
- Thomas Loesekann
- Janis Kropp





Objective

- How many chargers are available
- Where are the chargers located
- What is the need for the future



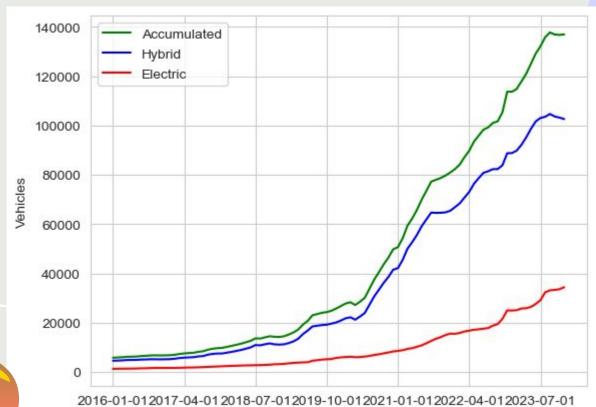


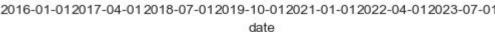


Situation

Electrical cars In Munich:

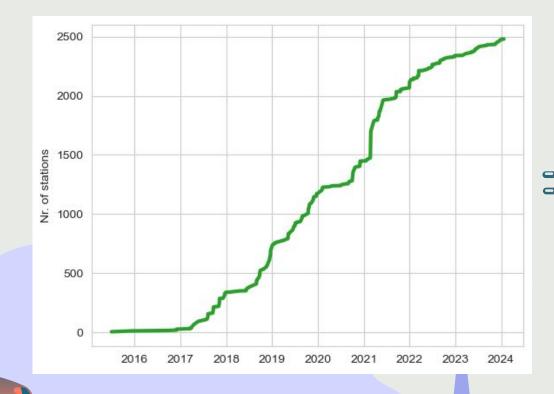
- 34371 electric
- 102116 hybrid
- 136967 overall





Charging stations

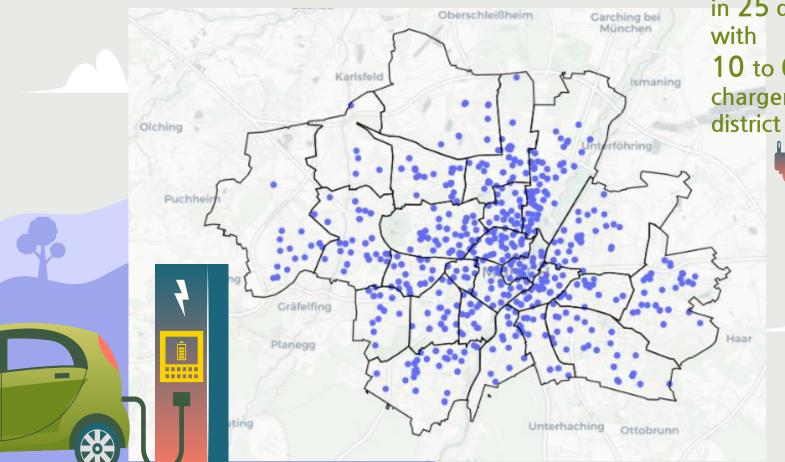
Installed charger until today: 2414





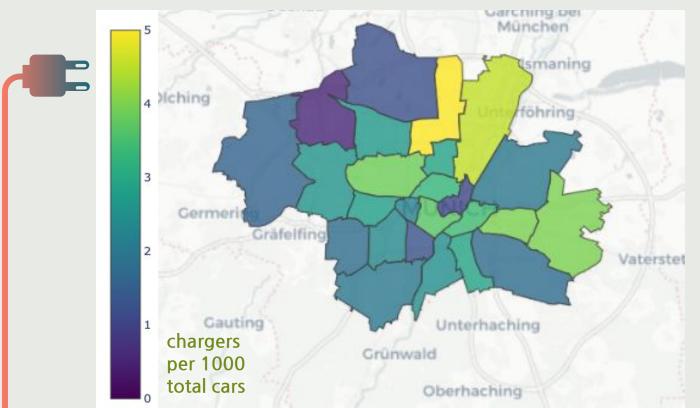


Munich charger locations



Munich is divided in 25 districts with 10 to 662 chargers per district

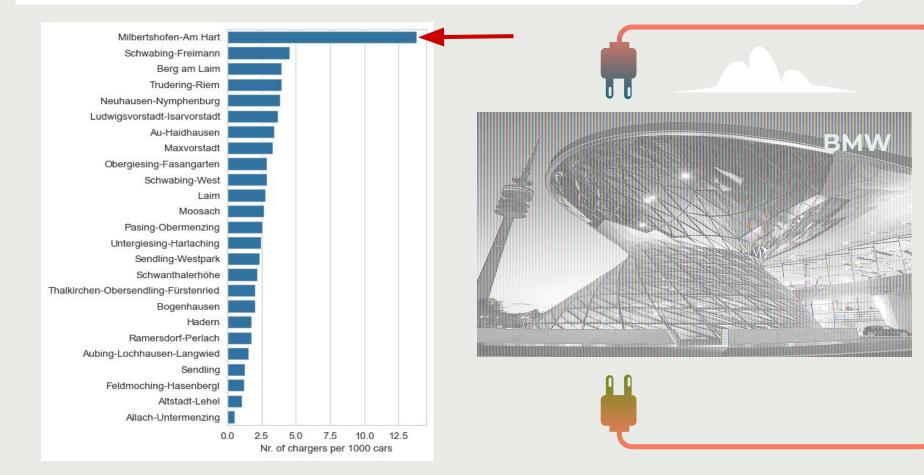
Charger density per car and district



Charger density is very unequal across districts (up to 30-fold difference!)

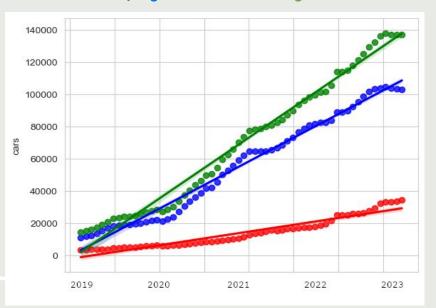


Details of chargers per district



Cars and chargers: regression and prediction

Electric, hybrid and E+hybrid cars



Charging stations

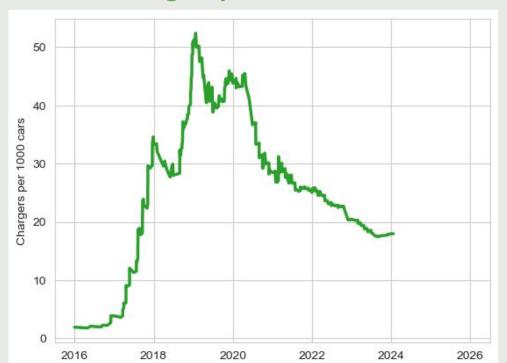






Less and less chargers per car since 2020!

Chargers per car over time



Charger density is sharply decreasing since 2020...





...and even less chargers per car in near future!



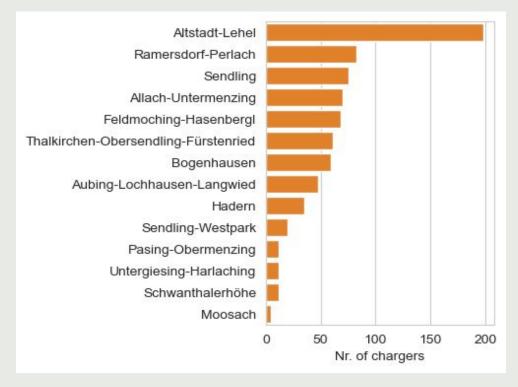


Where to build new chargers and how many???

To keep the status quo, at least 759 new chargers have to be built in the next 2 years!



Demand of new chargers per district



Thank you for your attention!!



