

VISUALISATION TOOL FOR ELECTRIC VEHICLE CHARGE AND RANGE ANALYSIS

INTRODUCTION

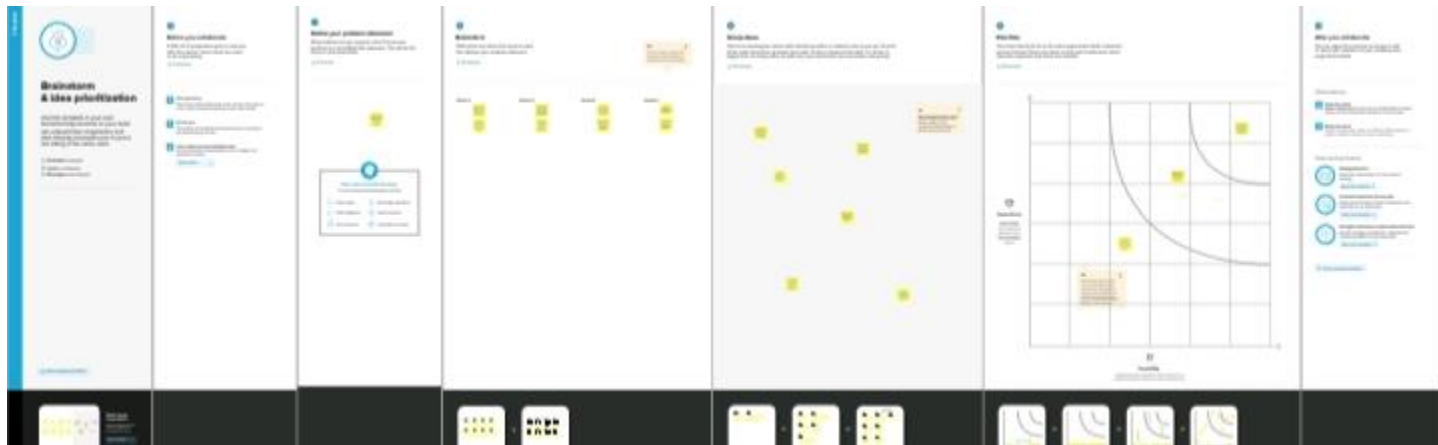
The government has introduced several incentives to encourage people to shift towards electric vehicle. EV charging solutions that ensures faster and on-demand charging and connectivity to support electric vehicles current and future needs.

DEFINITION

An electric vehicle charging station is equipment that connect an electric vehicle (EV) to a source of electricity to recharge electric cars, neighborhood electric vehicles and plug-in hybrids.

A charging station, also known as a charge point or electric vehicle supply equipment (EVSE), is a piece of equipment that supplies electrical power for charging plug-in electric vehicles.

BRAIN STORMING



EMPATHY MAP



Empathy map

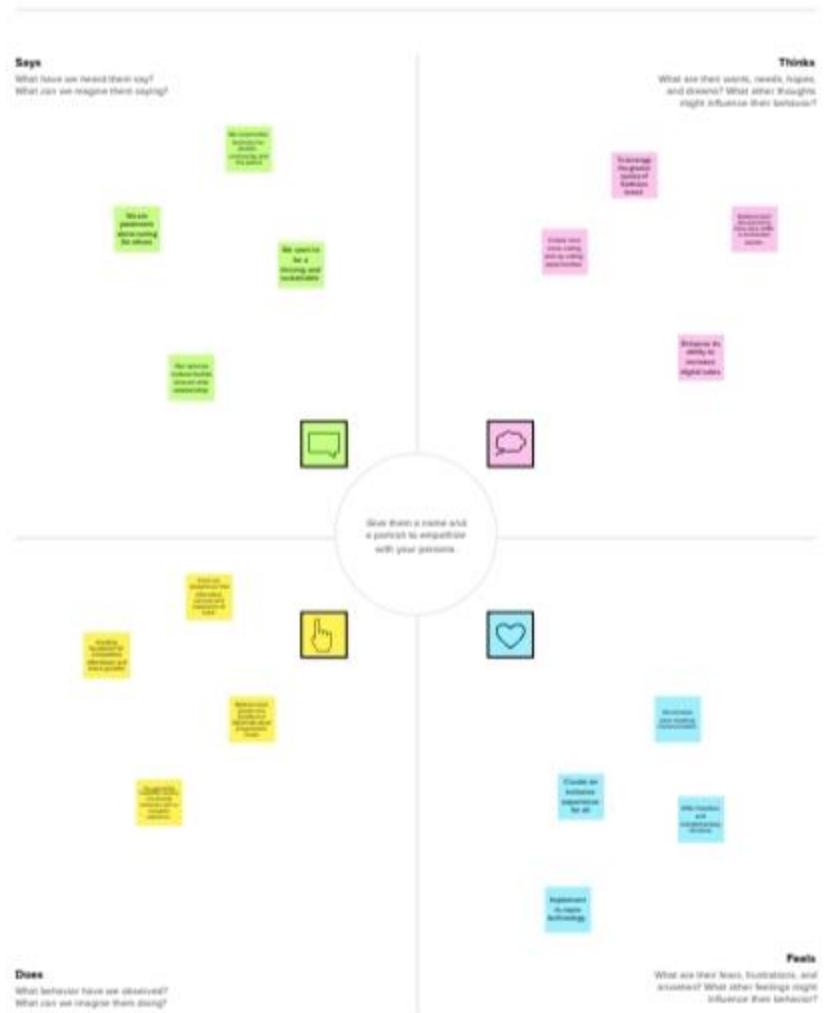
Use this framework to develop a deep, shared understanding and empathy for other people. An empathy map helps describe the aspects of a user's experience, needs and pain points, to quickly understand your users' experience and mindset.

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Build empathy

The information you add here should be representative of the observations and research you've done about your users.



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RESULT



Dashboard

Layout

Default

Phone

Device Preview

Size

Desktop Browser (1000 x 800)

Sheets

Sheet 2

Sheet 3

Sheet 4

Sheet 5

Sheet 6

Sheet 7

Objects

Ask Data

Data Story

Image

Blank

Workflow

Web Page

Navigation

Download

Add Filters

Einstein Discovery

Sheet 2

Top Speed



Count of Cheap Cars

Sheet 6



Sheet 3

Fast Charge..

120 km/h
150 km/h
160 km/h
170 km/h

180 km/h
190 km/h

210 km/h

220 km/h

Sheet 4

Top Speed	123 km/h
Subtitle	
Battery	
Electric	
Vehicle	
16.7 kWh	

Sheet 7

Top Speed	No Mea..
123 km/h	Abc
125 km/h	Abc
130 km/h	Abc
132 km/h	Abc
135 km/h	Abc
140 km/h	Abc

Sheet 5

Pricein Ger..

€18,460



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ADVANTAGES AND DISADVANTAGES

- Electric vehicles use electricity to charge their batteries instead of using fossil fuels like petrol or diesel.
- Electric vehicles are more efficient cost means that charging an electric vehicle is cheaper than filling petrol or diesel for your travel requirements
- One of the drawbacks of data visualization is that it cannot assist meaning a different group of the audience may it differently.
- Making electric cars creates more emissions.

APPLICATION

- A hybrid-electric produces lower tailpipe emissions than a comparably sized gasoline car since the hybrid's gasoline engine is usually smaller than that of a gasoline-powered vehicle.
- Electric vehicle use electricity to charge their batteries instead of using fossil fuels like petrol or diesel.
- Electric vehicle are more efficient and that combined with the electricity cost means that charging an electric vehicle is cheaper than filling petrol or diesel for your travel requirements.

CONCLUSION

The efficiency of an electric vehicle does not entirely depend on the power that it accumulates from the charging station, it also depends on external factors such as traffic, temperature, acceleration and more. A top-up charge is typically when the vehicle is charged without waiting for the battery to run empty.

FUTURE SCOPE

- Most Indian buyers believe that an electric vehicle will be ready by 2023, but the majority also believe that it would no longer be available until 2025.
- Consumers in India are looking for a lower price for EVs than those in other countries, with the global average tipping for EVs being \$36,000.
- It is expected to grow from 8.1 million units to 39.21 million units by 2030. India is the world's third largest EV market.

APPENDIX

Parking facilities shall be provided with electric vehicle charging infrastructure in accordance

with table c405 .14 based on the number of parking spaces.