**Team Insiders**

**ABSTRACT**

In the last five years, governments, large corporations, start ups and investors in India have expressed their commitment to a future marked by electric mobility. Maxson Lewis, the MD and CEO of Mumbai-based electric vehicle charging infrastructure company Magenta, talks about how EV charging has become an infrastructure and a real estate game and how it important it has become to find the optimal locations to put up the chargers to increase the demand for EVs in the coming years. Our main aim is to resolve this problem, to reduce the Charge Anxiety which is caused by the lack of availability of EV charge stations in key areas and to solve the Demand and Supply issue which is the core of our problem.

This solution begins with breaking the city down into a collection of small grids of equal size. Each grid considers the parameters such as Traffic Density, Population Density for the initial placement of EV charge stations with minimal infrastructure. Next would be tracking the demand of the existing stations, for this, each grid has the analysis of its own using different parameters in different levels like EV Traffic Index (which is the priority assigned to a grid based on how frequently it has been used by EV vehicles) , Demand Factors (where Demand factor = EV traffic index/no: of stations) etc is the route level analysis, transaction details at a particular station whenever a vehicle is charged is the station level analysis which help us find the optimal locations along with the required charging type for the placement of new EV stations in view of grids based on the demand. This solution is a never ending process of tracking and reducing demand in each EV station, by placing a new one in another optimal location (or) adding more charging ports if possible. With this solution of ours we can effectively advise the placement of EV stations optimally.

Unified Platform for locating EV charge stations and real-time demand tracking