



VIVID NAV For EV

End-to-End Stress-Free EV Experience



Range Anxiety is Real

Buying cars with bigger batteries won't fix the problem. Your customers rely on accurate range estimates for trip planning. VIVID Nav for EV offers superior planning and accuracy. With increased customer confidence, range estimation helps your customers plan better and reduce their anxiety on opportunistic, unplanned drives.

Unlike most range estimation methods that don't improve over time, Our AI models continuously learn and improve based on everything from vehicle data and driving styles, to road type and ambient conditions.

VIVID Nav delivers peace of mind for EV drivers who need predictable, reliable information.

End-User Benefits



Charging Station Information.

Drivers can easily select stations that are compatible with their vehicle, get real time information about availability or waiting time, and preferred payment methods.



Trip Planning.

Trip planning that provides the optimal route with charging stations along the way.

VIVID Nav for EV At-A-Glance

OPTIMIZED EV NAVIGATION

- › Range monitoring on the go
- › EV-specific guidance and advice (charging advice based on either predictive destinations, or current charge levels)
- › EV-specific alerts
- › EV-aware re-routing and deviation handling

- › Estimate battery level at stopovers/charging stations and end-destination
- › Estimate minimum battery level to reach before leaving charging station
- › Recommend speed for optimal energy consumption
- › ETA calculation including charge time

ACCURATE RANGE PREDICTION

- › Range projection on a given route or within a specific boundary
- › Range estimation that is continuously learning and improving over time, increasing accuracy and reliability
- › Range estimation tuned to specific vehicle model trip and consumption data, and individual driver behavior

OPTIMIZED SEARCH EXPERIENCE

- › EV-aware POI search – can include either a direct search for EV charge station with POI amenities nearby (e.g., rest areas, restaurants, malls, hotels), or specific POI's with EV stations nearby POI destination
- › Smart charging station search – including required number of charge stations and charge time to execute trip successfully
- › Dynamic charging station information (availability, price, opening hours, connector type, payment methods)
- › Real detour distance to along-the-route charging stations

EFFICIENT ROUTE PLANNING

- › EV optimized route (least cost - energy and time)
- › Charging stations are automatically added to route(s)

Differentiators

- 1. Global Coverage:** using multiple data sources, letting drivers make charging decisions based on their planned trips.
- 2. Rich, Up-to-Date Information:** everything required to make the right decision at your fingertips. Static (and where supported), dynamic info like real-time availability, connector type and compatibility, opening hours, payment methods, and nearby POI amenities.

- 3. Seamless EV Integration:** EV components are seamlessly integrated into the overall user experience.
- 4. Refined Range Projection:** minimal sensor data collection (AI based) that is personalized by driver and continuously improves over time.

How Does It Work?

Trip Planning

Range projection, in combination with charge station search, are used to identify optimal charge locations (minimum charging stops and optimizing charge time) to arrive at destination. Critical information from the moment the drive starts, to updates along the way, is provided. Post-charge data includes the minimum charge level required to reach the next stop.

Routing

Least costly routes are selected in terms of time and energy. Alternatively, the driver can choose preferred routes with a high density of charging stations along the route.

Search Optimization

Identify and allow POI filtering that have charging stations nearby or filtering based on power, connector type, etc.

Range Projection & Monitoring

Continuous monitoring and comparison of the vehicle's energy consumption with the original range estimation, triggers re-evaluations and re-routes (where necessary), based on conditions that influence range, with dynamic range updates.

Driver Alerts

- › Out-of-range of known charging stations
- › Departing a charging station with insufficient energy levels to complete the next leg of the trip or reach the final destination.
- › When there is not enough energy level to travel the usual route, based on driver's predictive behavior
- › Speed recommendations when on low charge to maximize range
- › Information about closest charging station part of the "current location information"
- › When driving speed is higher than recommended speed