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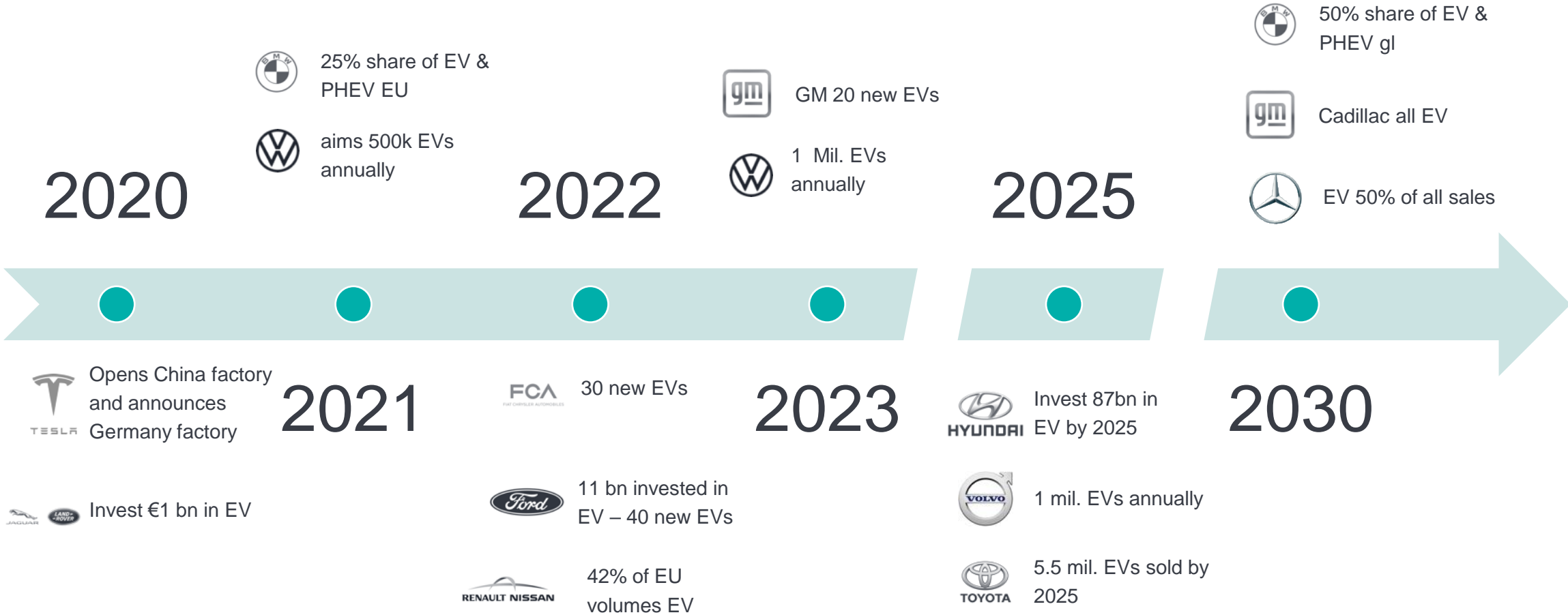
# Location: Powering the Adoption of EVs across the world

Andrei Iordache

Director Industry Solutions

# OEMs Commit to More Models and Investment

All major OEMs are adjusting their product plans to include more EVs in their line-up



# Indian manufacturers are also accelerating their EV offensive

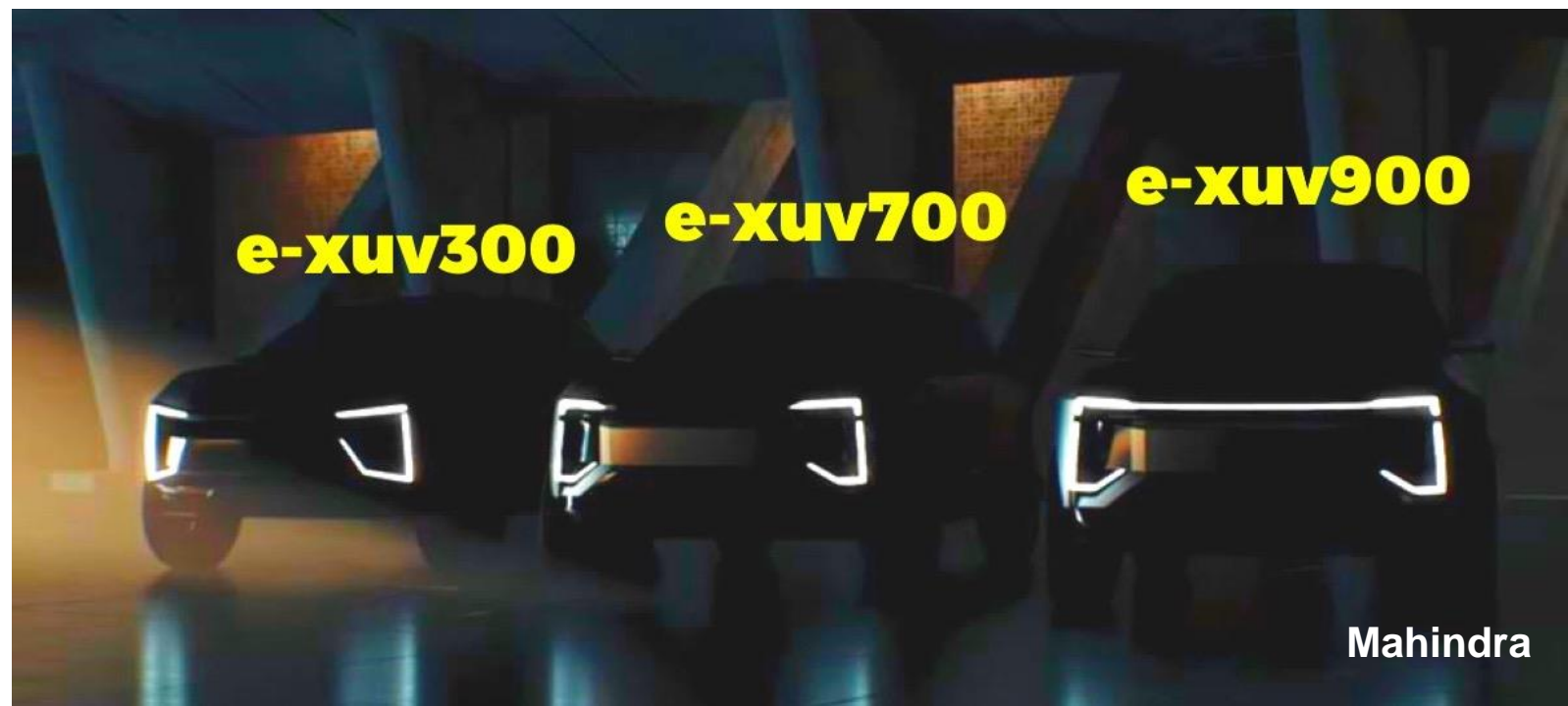
CAGR of **47%**  
between 2022 and 2027



Omega Seiki



Ola



Mahindra

# EV challenges

# EV Challenges

From driver perspective



Reduced real world range vs combustion engines



250-350 km



500-600 km



Limited availability of charging stations



**India**

1 charger /  
135 EVs



**Netherlands**

1 charger  
/ 6 EVs



Range highly depends on driving style, car type, battery age, weather and route conditions (elevation, curvature, wind)



Different charging standard and connectors



Even the fastest charging times are 5x slower than fueling



3-4 mins  
full tank



22 mins  
@350 kW  
for 5-80%



# Vehicle Manufacturers

Simplified usage of EV

## EV Challenges

## How location helps



**Multiple charging providers needed to cover a region**

Aggregation of location data from multiple sources that include charging points and stations, EV service centers, and more to allow drivers to find **their preferred or their closest station**



**Enhancing the user experience and create a differentiated offering**

Integrate **complementary location** services (POI, parking, charging points, real-time availability, payment, search, EV-routing, indoor maps etc.)



**Inaccurate range estimation and range anxiety**

Enhance estimation of **range on route** leveraging consumption on route, route profile, driving style



# Fleet operators

EV for Mobility and Transportation

## EV Challenges

## How location helps



**Long shifts need to consider charging breaks due to limited range**

Enhance tour planning by integrating also charging stop overs in **multi-stop routing**



**Limited availability of fast charging stations in city centers**

Better understanding and planning of the potential stops



**Job allocation depends on battery status**

Provide **range map** visibility of how far a vehicle could go to assign it for the specific job



**Different charging stations power and compatibility standards**

Avoid stops at charging stations that don't provide adequate power for battery capacity



# Infrastructure Providers

Optimized infrastructure to support EV role out and usage

## EV Challenges

## How location helps



**Where should charging stations/points be located?**

Identify optimal charging stations locations based on traffic patterns and proximity to other relevant POIs

Location insights on where people are located and how they move in cities help optimize asset deployment and the placement of chargers.







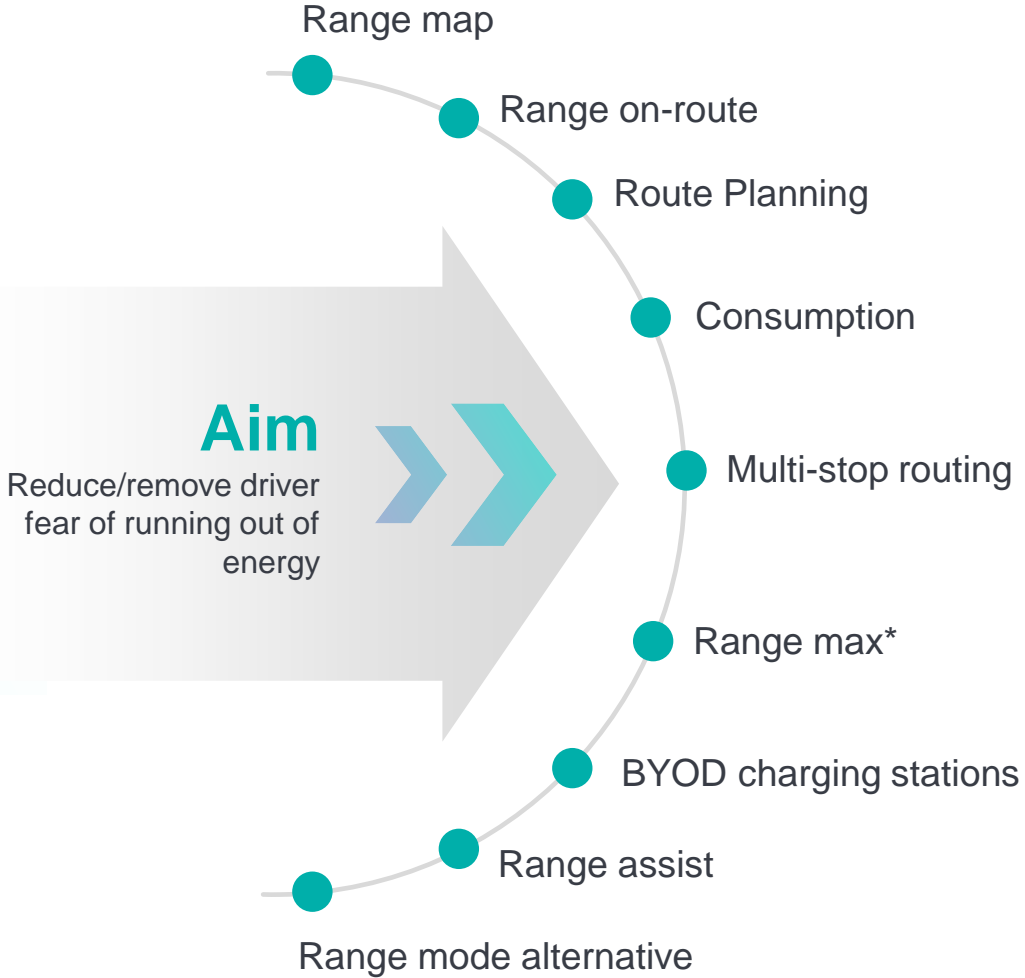
**Broken user experience, requiring multiple applications and accounts for services that users interact with**

Providers can **BYOD** and combine it other data sets and conflate with of global map data elements (map, parking, EV, indoor, traffic) plus the integration of location services, enable end-to-end EV user experiences:



# Tailored Services for Electric Vehicles and EV Fleets

-  **HERE EV Charge Points**
-  **HERE Navigation**
-  **HERE Routing API (with EV Routing)**
-  **HERE Location Platform**



\* Service currently under consideration



**Thank you**