

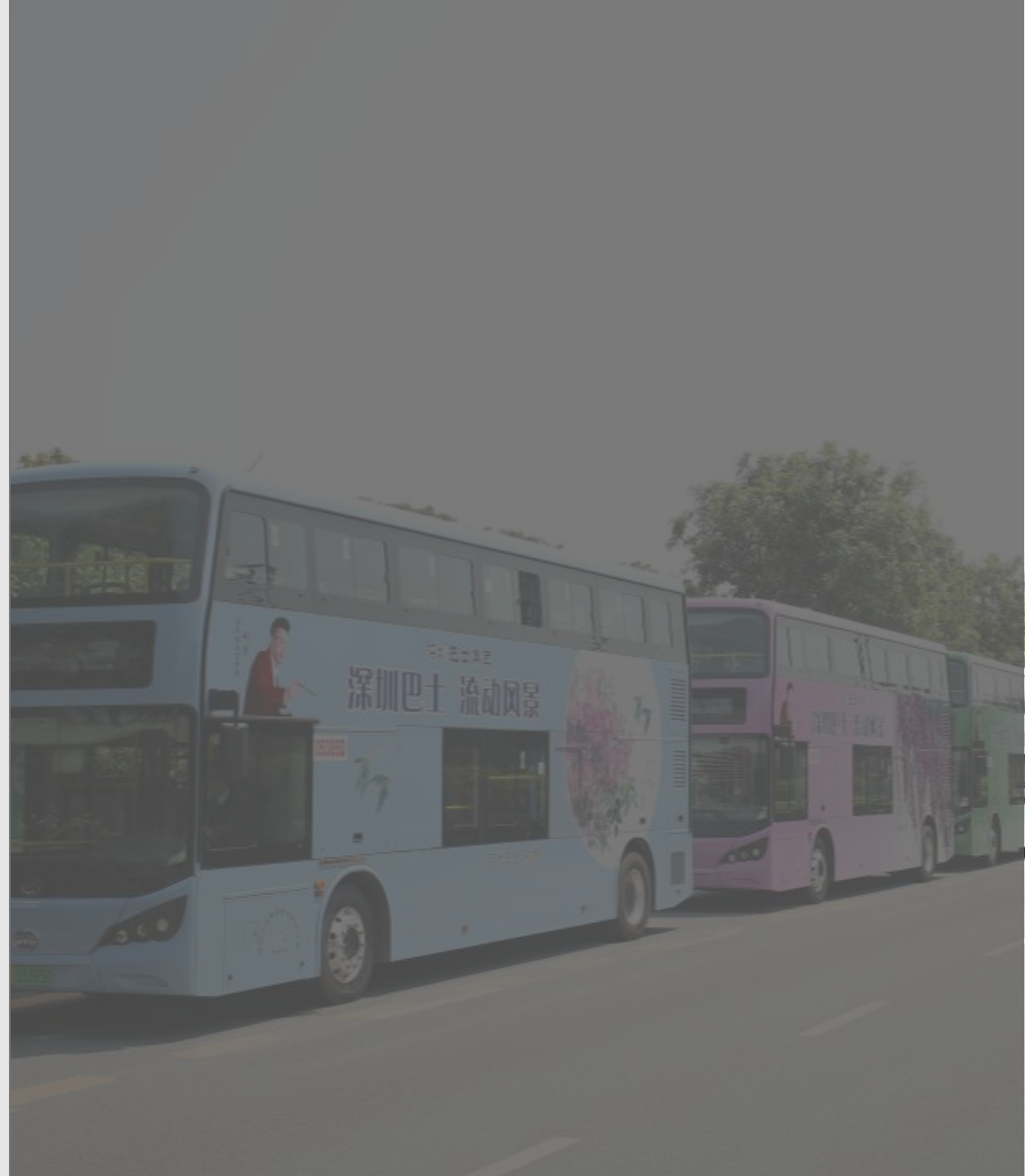


SHENZHEN BUS

# Shenzhen Bus Group Electrification

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Chris Liang  
Operations Manager  
International Development Department



# About Shenzhen

25 Million



Population

18



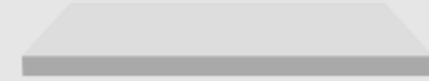
Universities

1990 KM<sup>2</sup>

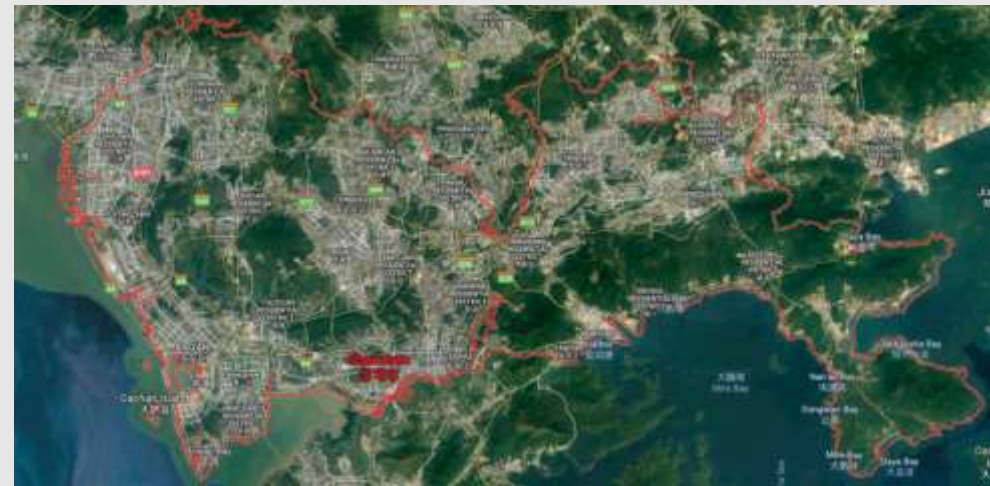


Area

\$350 Billion



GDP



# About SZBG



**Staff**  
26,001



**Total Fleet Size**  
12,669



**Annual Passenger Capacity**  
800,000,000



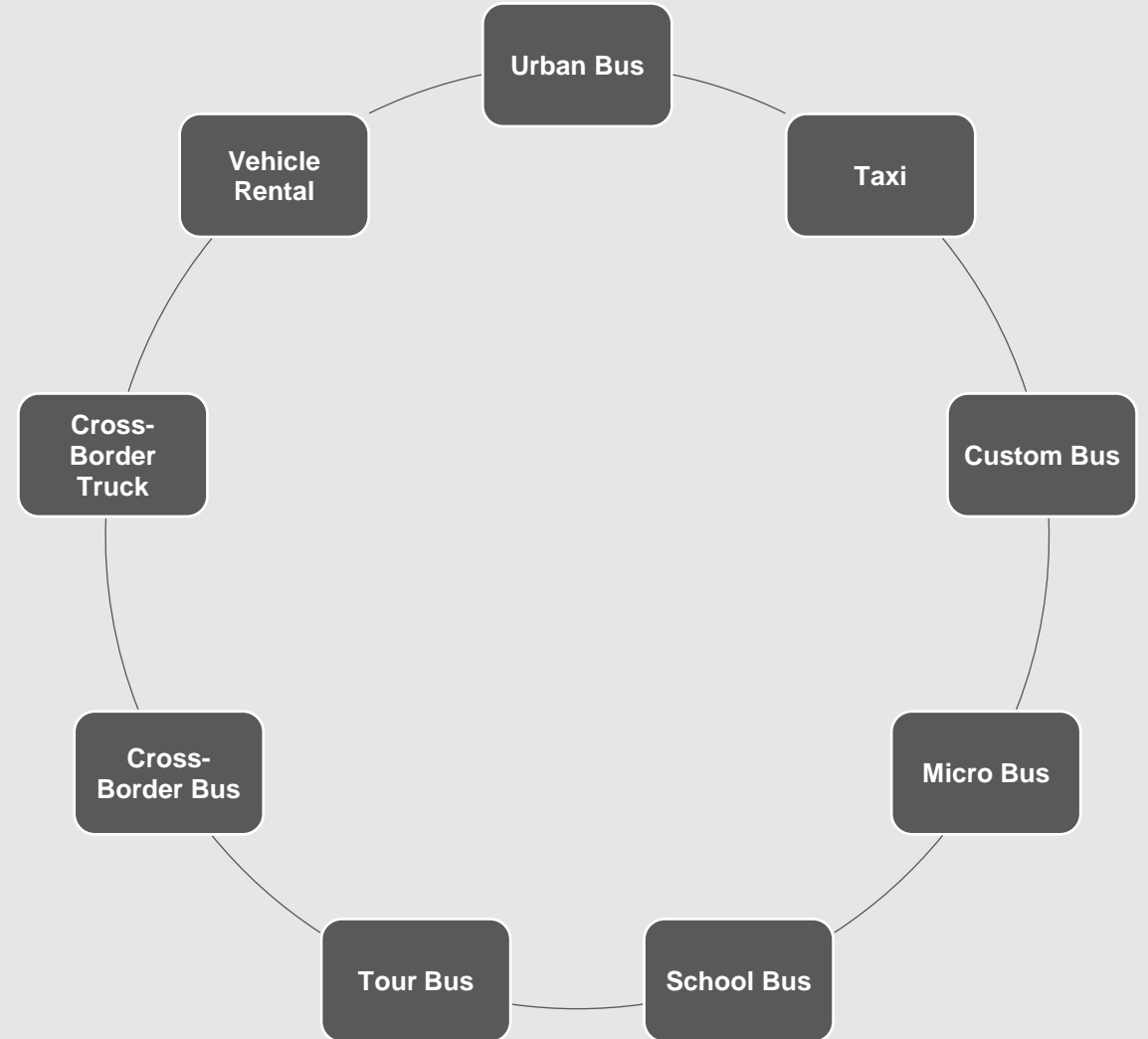
**Shenzhentong Travel Card**  
Issued:  
40,000,000  
Annual Transaction:  
US\$1,000,000,000



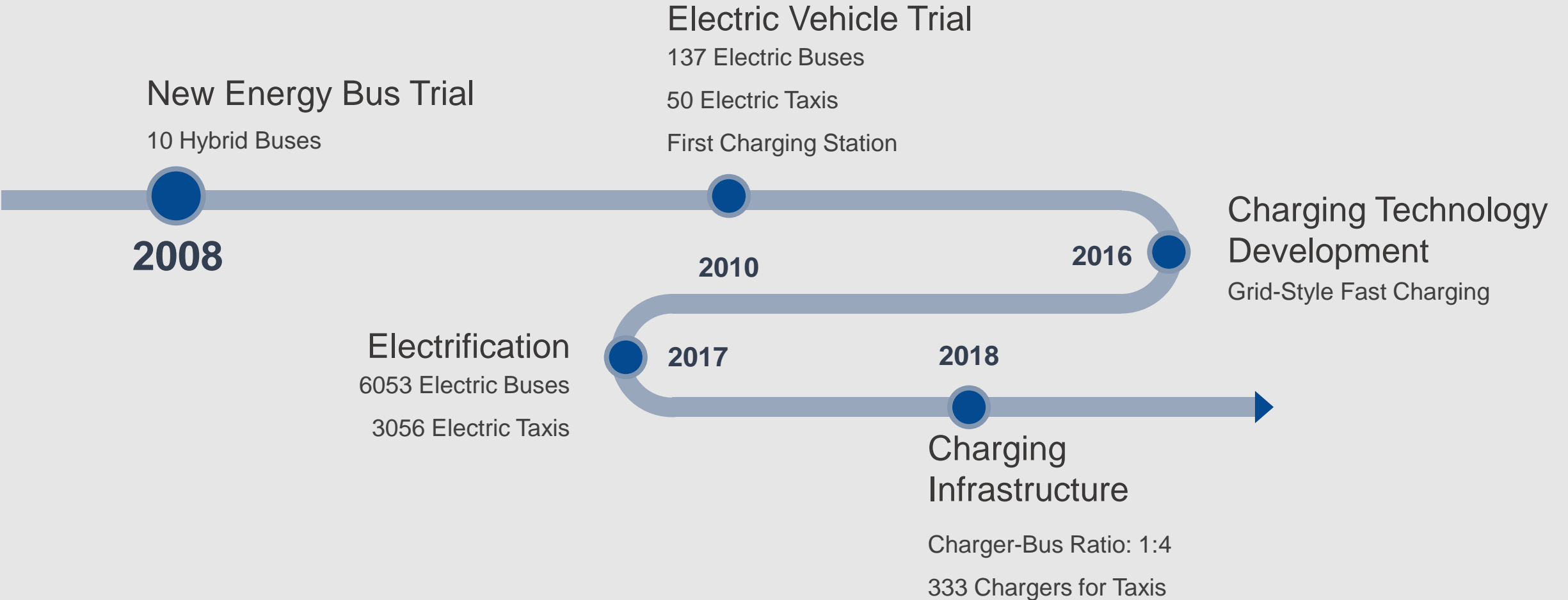
**Total Depot Area**  
945,000 m<sup>2</sup>



**Charging Stations**  
107



# — Electrification Path



# — Current Fleet Size



**Bus Fleet**

5928



**Taxi Fleet**

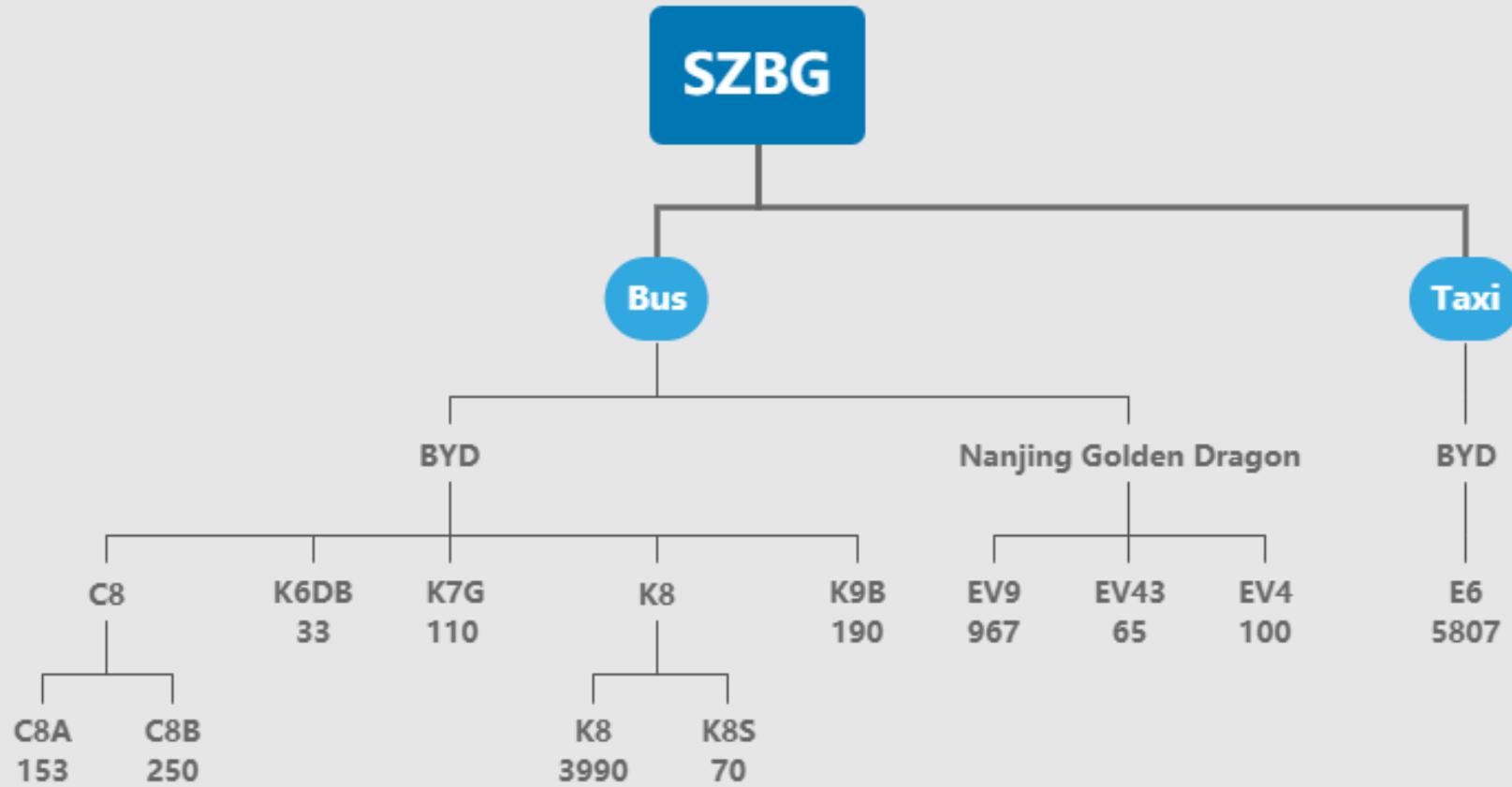
5807



**Other Vehicle**

934

# — SZBG Fleet





# — About Our Fleet

**Most Popular Model: BYD K8**

**Battery Capacity: 291kWh**

**Passenger Capacity: 39 Seats**

**Charging: DC**

**0-342A**

**50-750V**

**Charging Regime: At Depot**

**Overnight**

**Power Consumption: 0.9kWh/1km**



# — About Our Fleet

**Next Dominating Model:** BYD K7  
Smaller 8.5m and 6m Buses & Skywell EV4

**Battery Capacity:** 253kWh

**Passenger Capacity:** 16/10 Seats

**Charging:** DC  
0-342A  
50-750V

**Charging Regime:** At Depot  
Overnight

**Power Consumption:** 0.6kWh/1km





# — Fleet Operation Management



Vehicle Specific  
Technical  
Archive

Route Specific  
Operation  
Handbook

# Fleet Operation Management



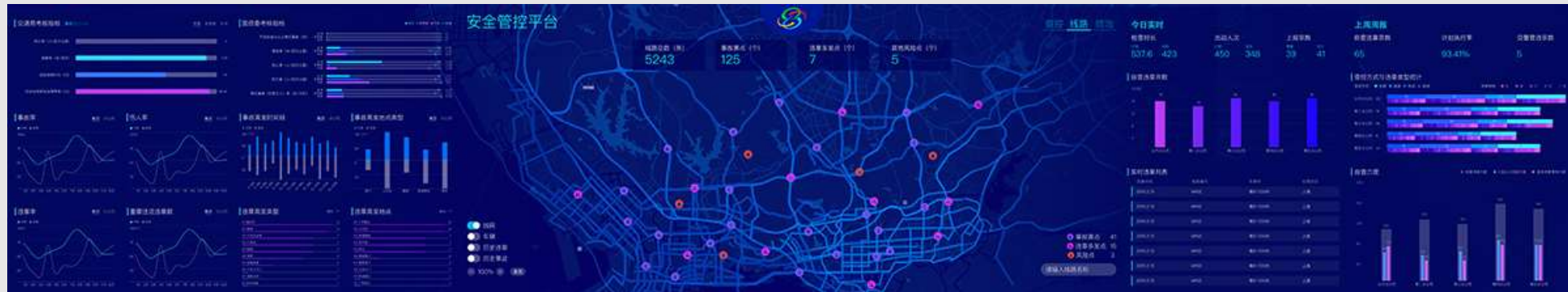
Operation Monitoring



Safety Monitoring

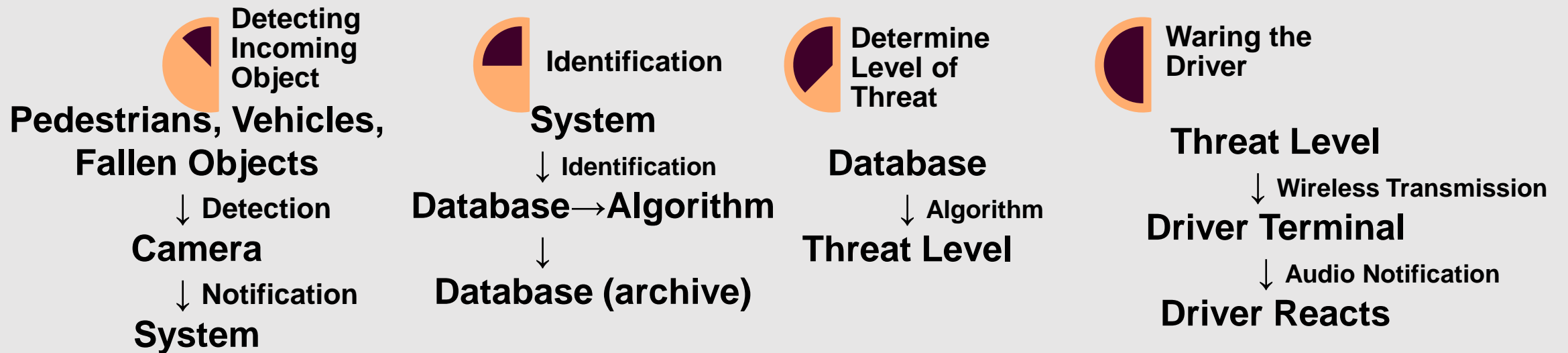


Service Monitoring & Analysis



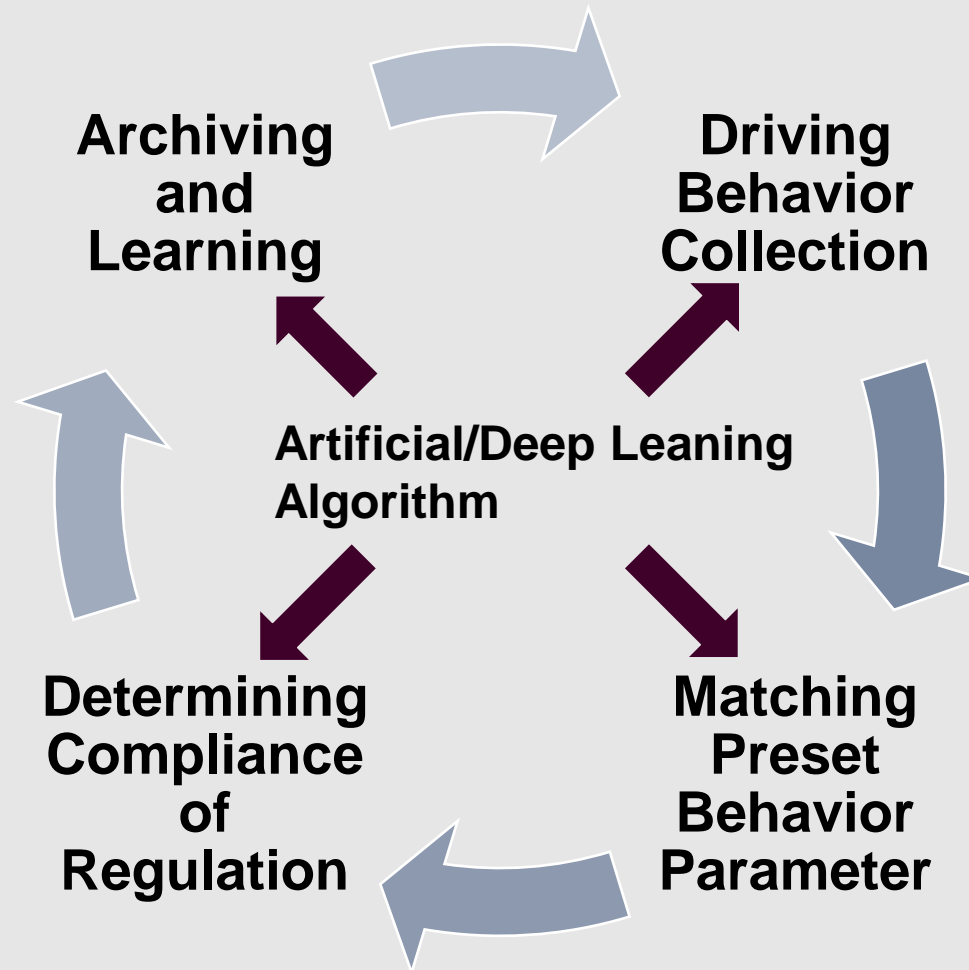
# — Safety Management

Advance Driving Assistance System



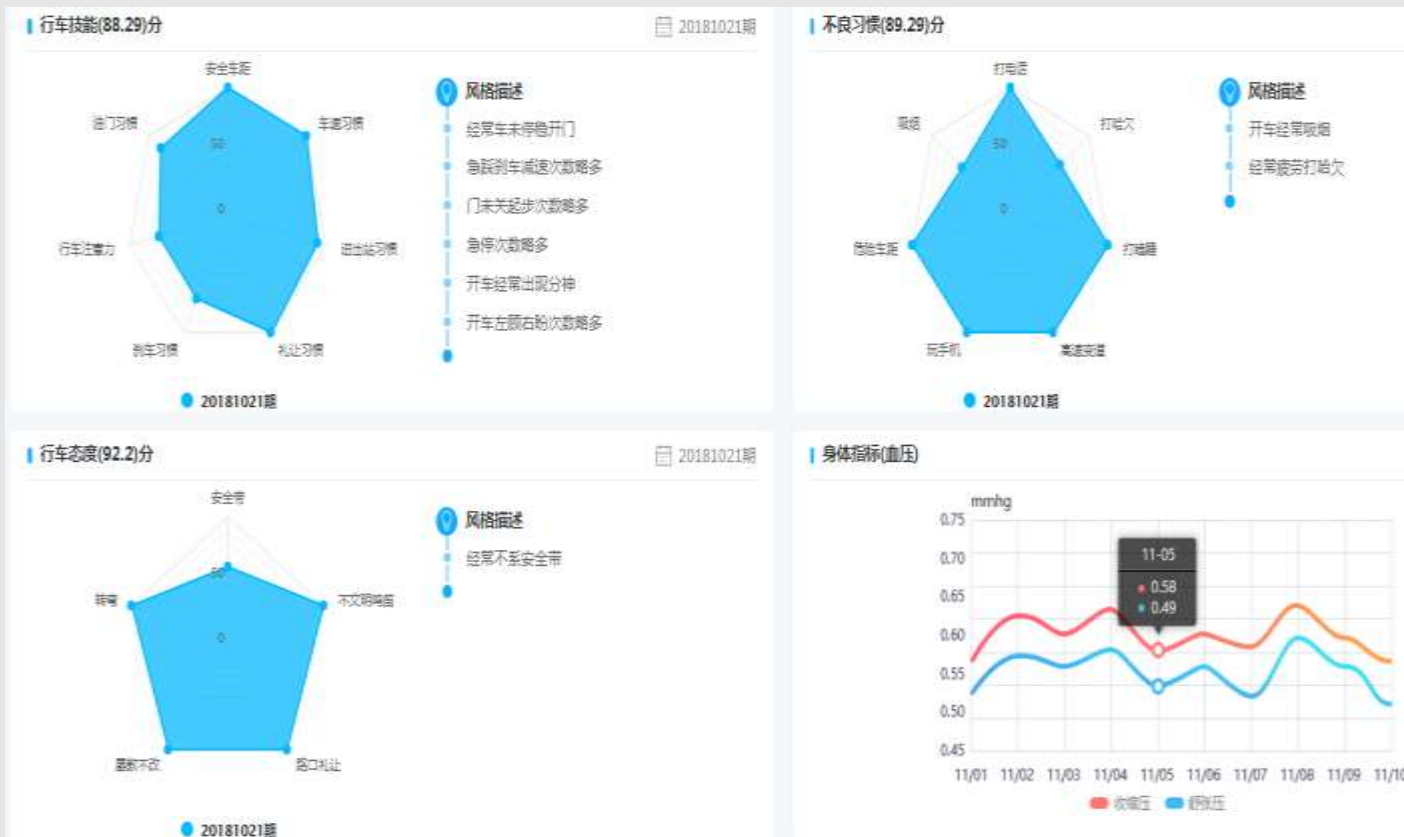
# — Safety Management

Driver Behavior Monitor



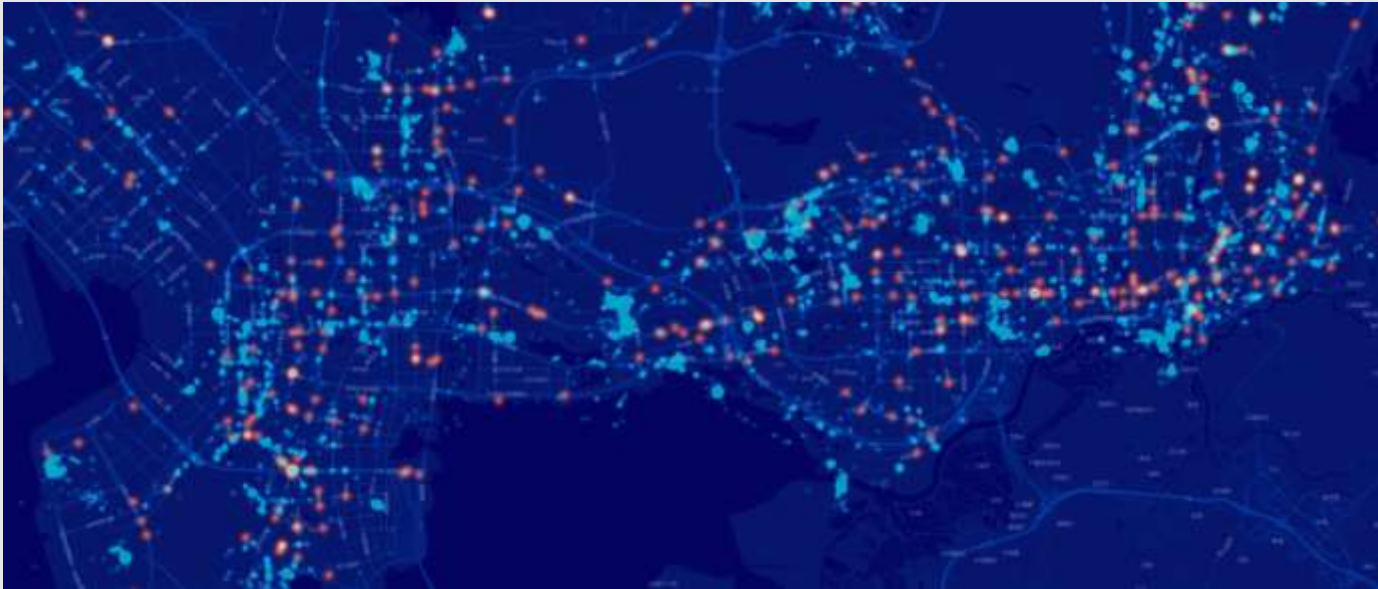
# Safety Management

## Driver Behavior Monitor





# — Safety Management



High-risk Location Overview  
(blue: regulation violation, red: accident)

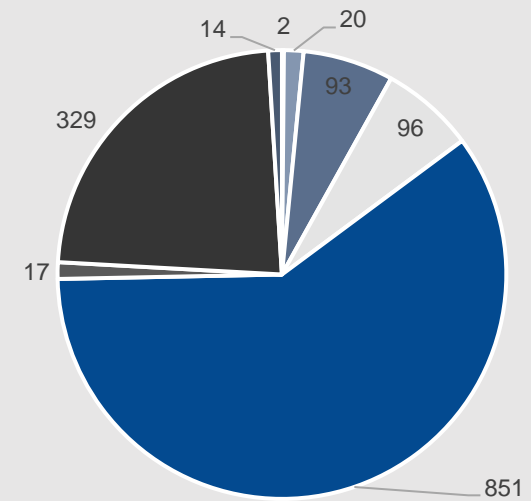


Fleet Safety Training

# — Charging Infrastructure



Charger Count



■ 45kw ■ 60kw ■ 100kw ■ 120kw ■ 150kw ■ 160kw ■ 180kw ■ 240kw

# — Charging Infrastructure



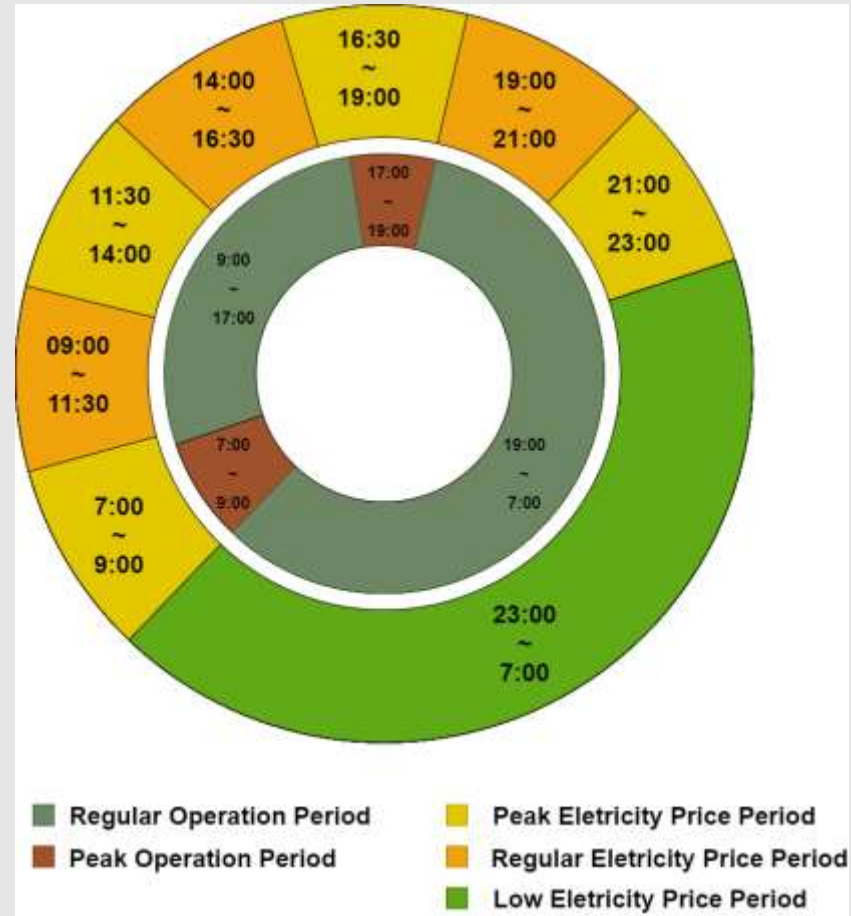
Charging Terminal Total Output: 80 to 380kW  
Charging Cables: 1 to 4



Centralised Dynamic Charging:

Flexible/Controlled Power Output  
Simple Maintenance  
Efficient Charging & Management

# — Charging Management



# — Charging Service



## Overnight Charging

Electric buses will be charged to 100% SOC overnight to fully use the trough period electricity

## Opportunity Charging

Taxis will be charged to 100% between two shifts at appropriate charging stations

## Mid-day Top-up

According to a bus-specific charging regime, buses can be charged mid-day to a pre-determined SOC level.



# — Service Expansion



UDian Bus



U+ Bus

Bus



Metro  
Connection



Airport  
Express

**THANK YOU**

