

# THE FUTURE MOBILITY SOCIETY & SUSTAINABLE TRANSFORMATION



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TOYOTA MOTOR THAILAND

# ▼ CASE

The future of mobility

## CONNECTIVITY



V2X

- V2D
- V2P
- V2V
- V2I

The networking of cars with the outside world (Car2Car & Car2X e.g. infrastructure, etc.)

## AUTONOMOUS



- LV0-2
- LV3
- LV4-5

Continuing evolution of automate tech. aims to deliver greater safety (Current @ Lv.2 Partial automation)

## SHARING



Using instead of owning



## ELECTRIFICATION



- HEV
- PHEV
- BEV
- FCEV

Growing of xEV penetration for environmental friendly & sustainable growth



TOYOTA

# PRODUCING HAPPINESS FOR ALL



# Toyota Mobility



Carbon Neutrality



Expanding the value of mobility

# Toyota Mobility



**Carbon Neutrality**

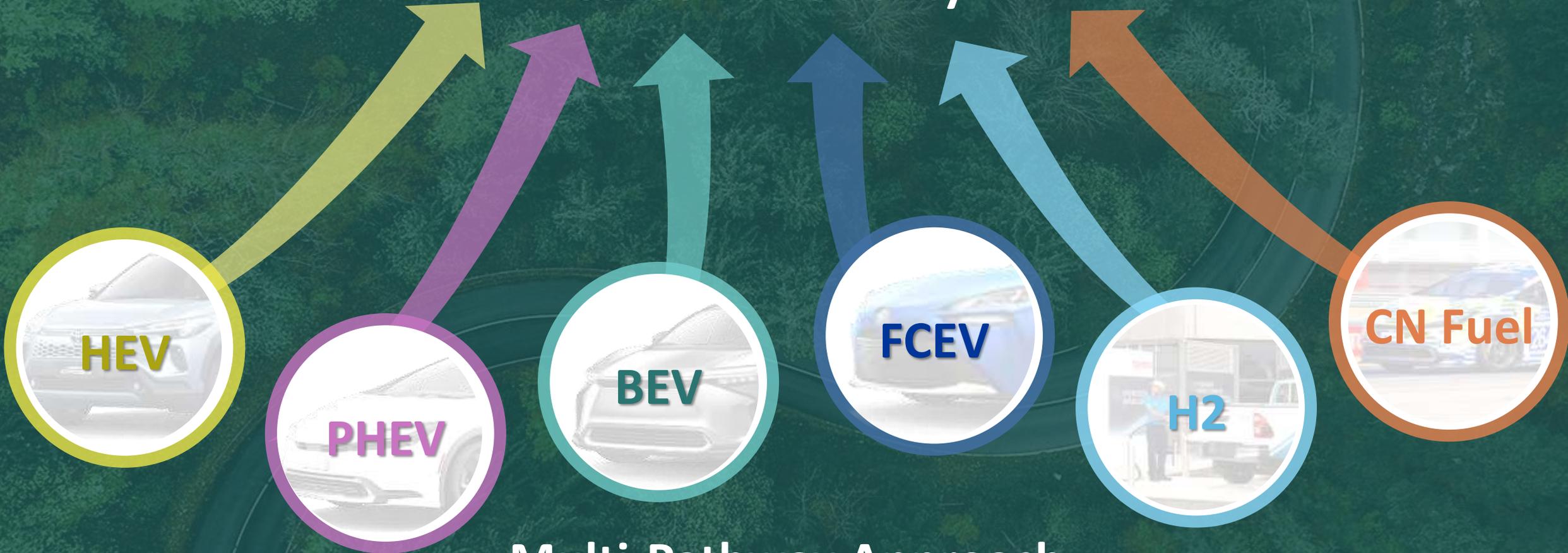


**Expanding the value of mobility**

Powertrain is not enemy



# Carbon Neutrality

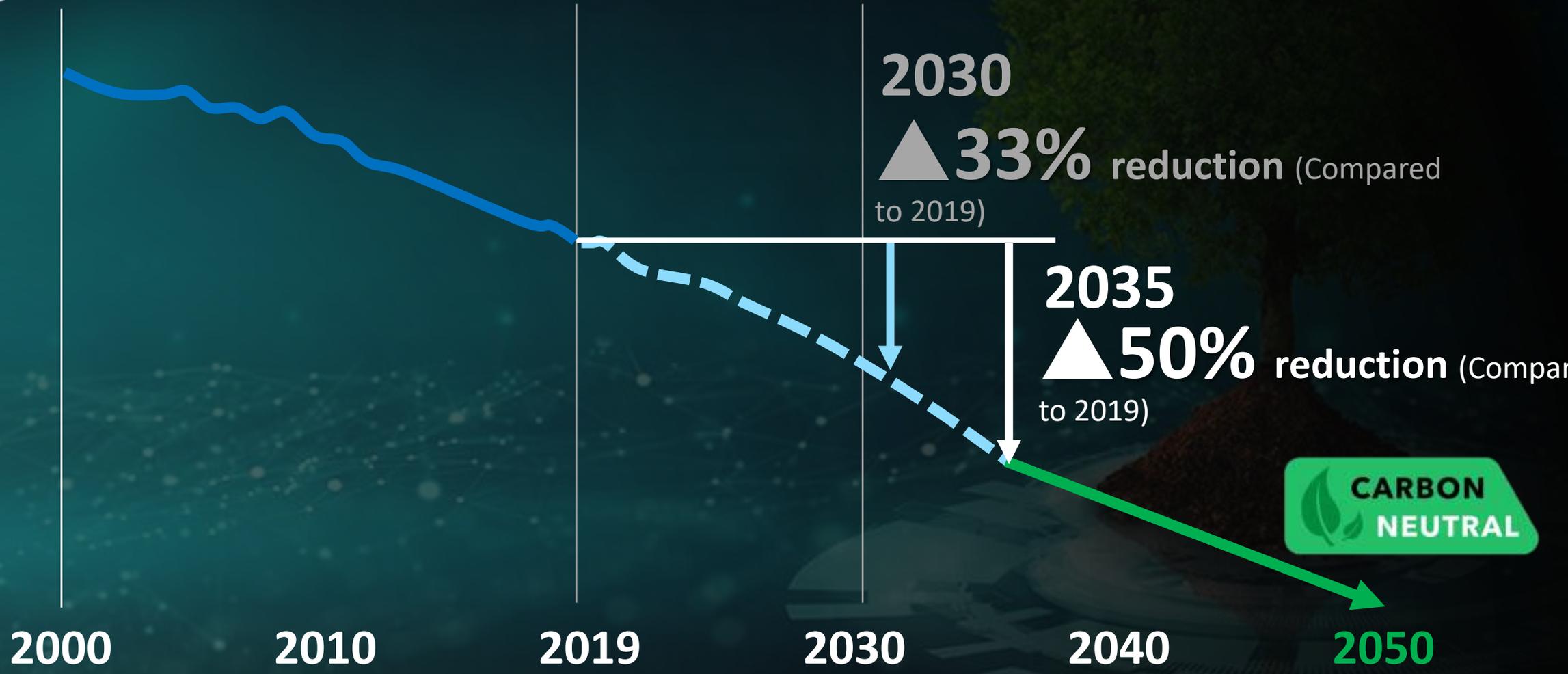


## Multi-Pathway Approach

# CO<sub>2</sub> Reduction Target (Well to Wheel)

Global (incl. emerging markets)

 New vehicle CO<sub>2</sub>/ unit



Introducing **CN Vehicles** practically to the market



**10**

Additional models  
1.5M units/ year  
by **2026**



# New Specialized unit for next-generation BEVs



“Greater efficiency” “Set hearts racing”



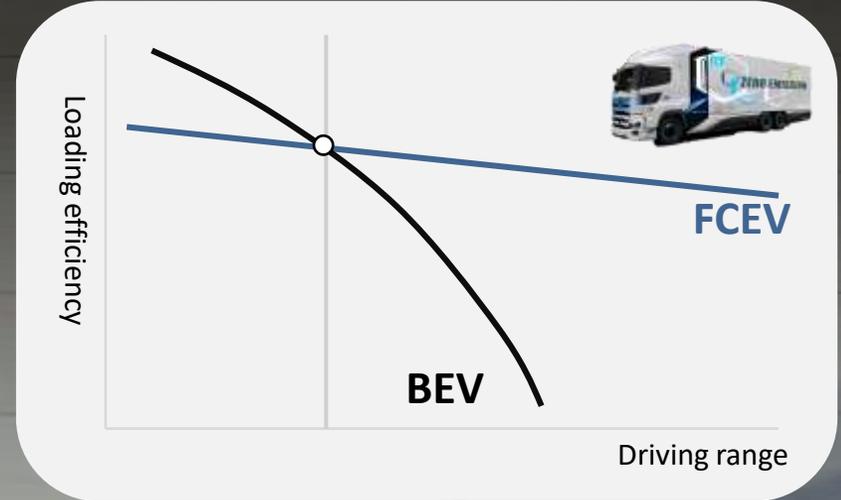
# The Practical BEV

Increasing battery efficiency, to extend EV more driving range beyond 200 km





# Mass production centered on commercial vehicles



*Space, Weight, Quick Charge*



# Grand 1<sup>st</sup> opening H<sub>2</sub> station

at Bang lamung, Chonburi



# Renewable Energy

## Solar Power



**TOYOTA**  
Plant  
Carbon Neutral  
in 2035

## Hydrogen



# Toyota Production System: TPS



# Toyota Mobility

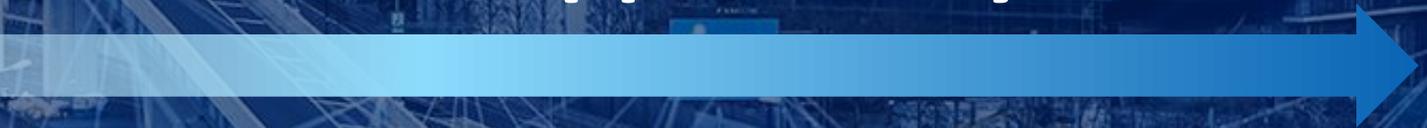


Carbon Neutrality



Expanding the value of mobility

# Move & Opportunity



Electrification



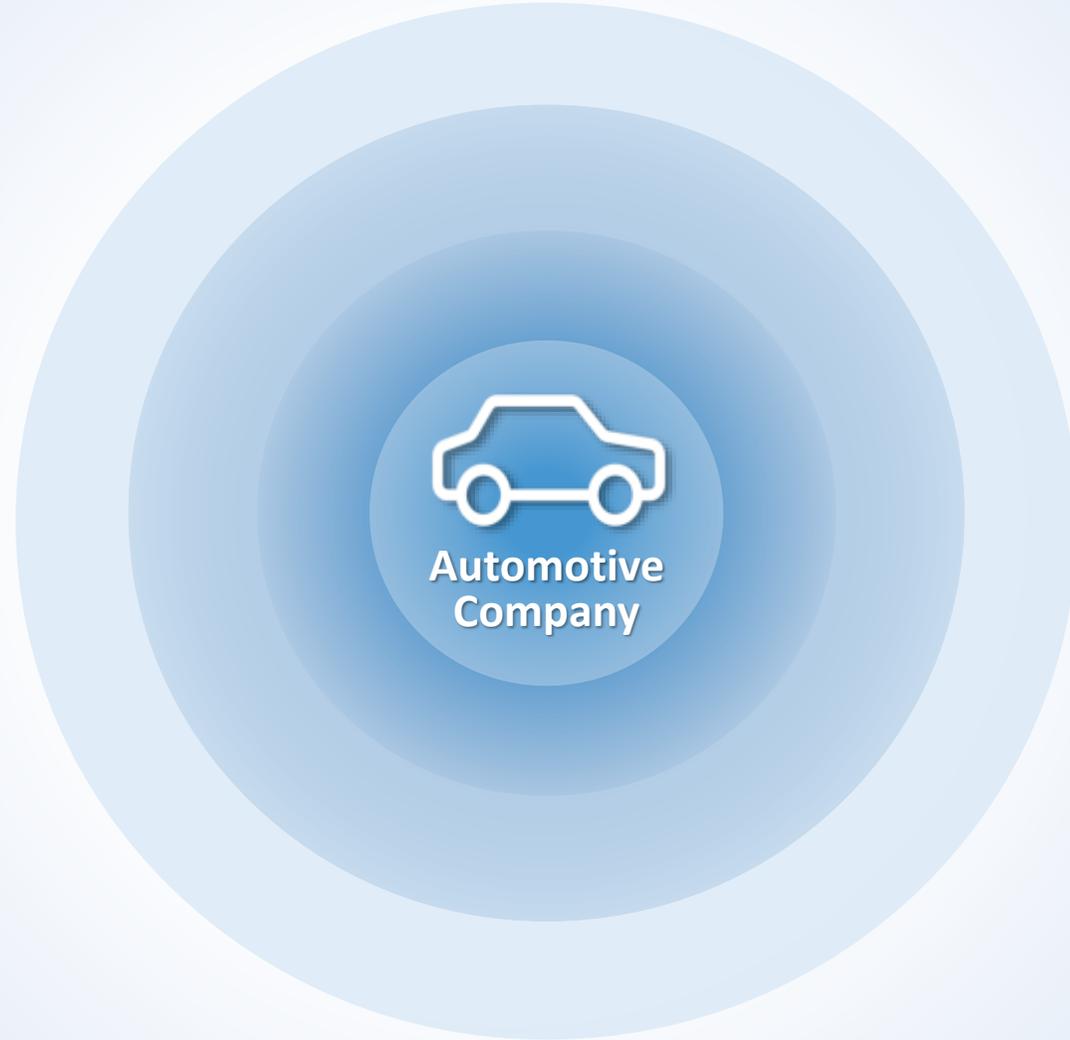
Intelligence



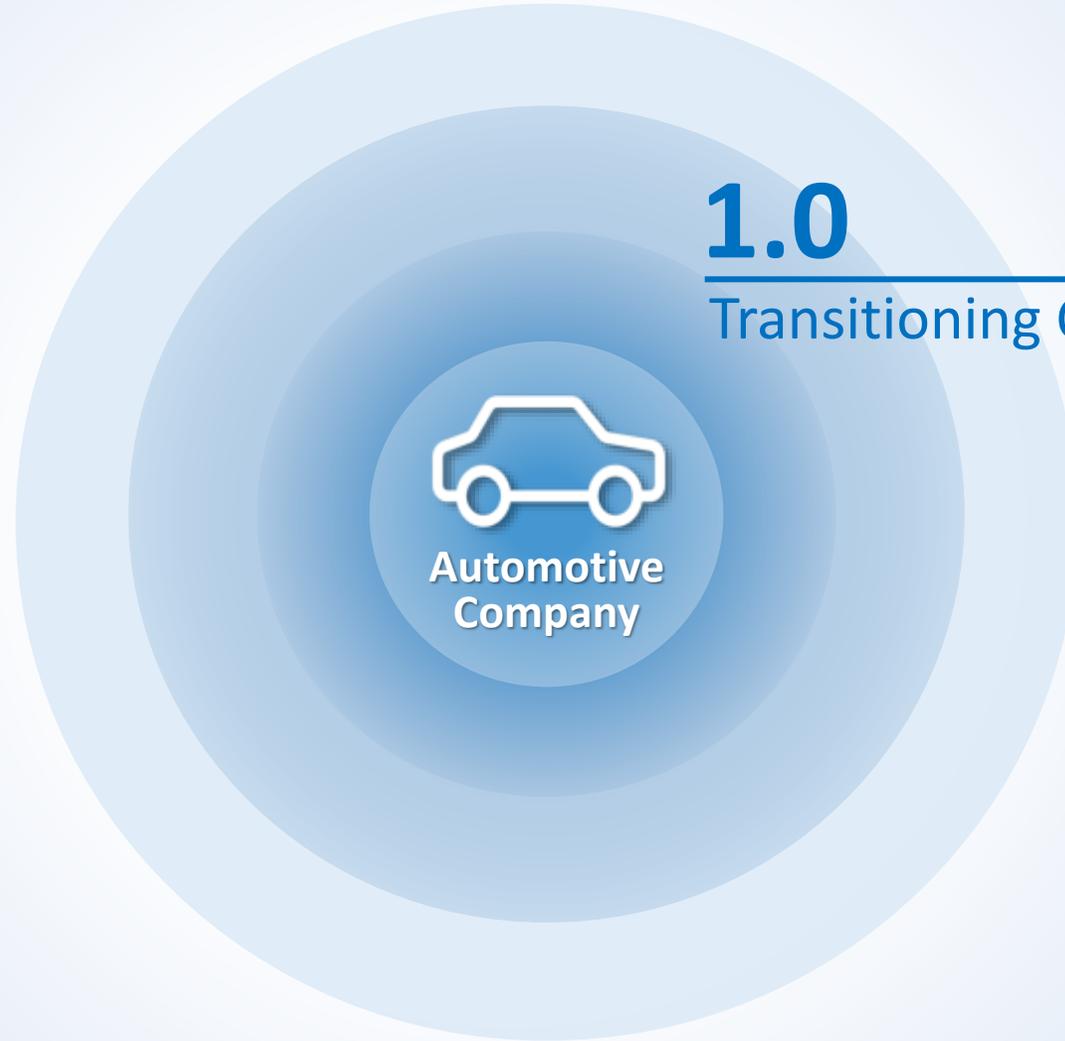
Diversification



# Toyota Mobility Concept



# Toyota Mobility Concept



**1.0**

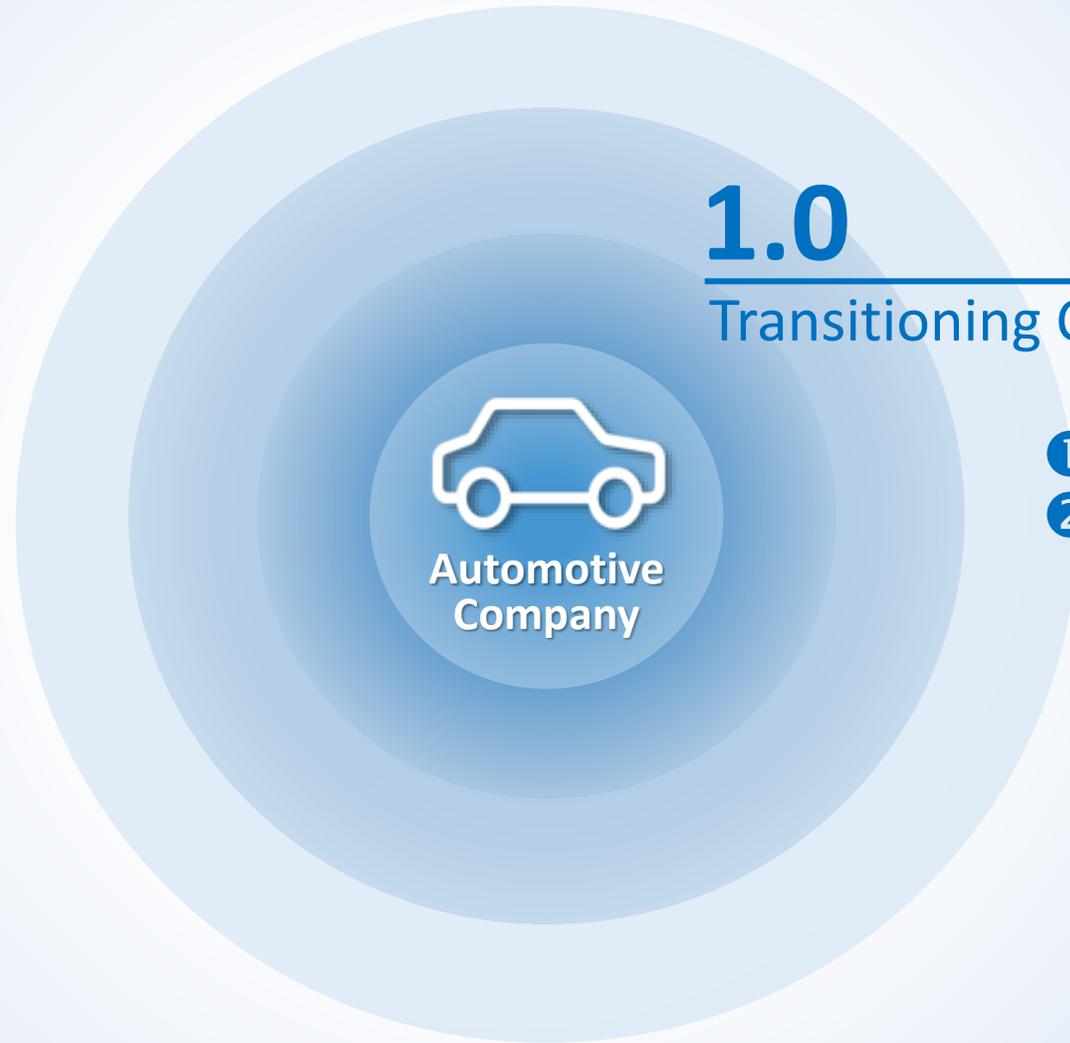
Transitioning CARS to Mobility

# Toyota Mobility Concept

Mobility that transports electricity



Utilize info gathered from cars and customers



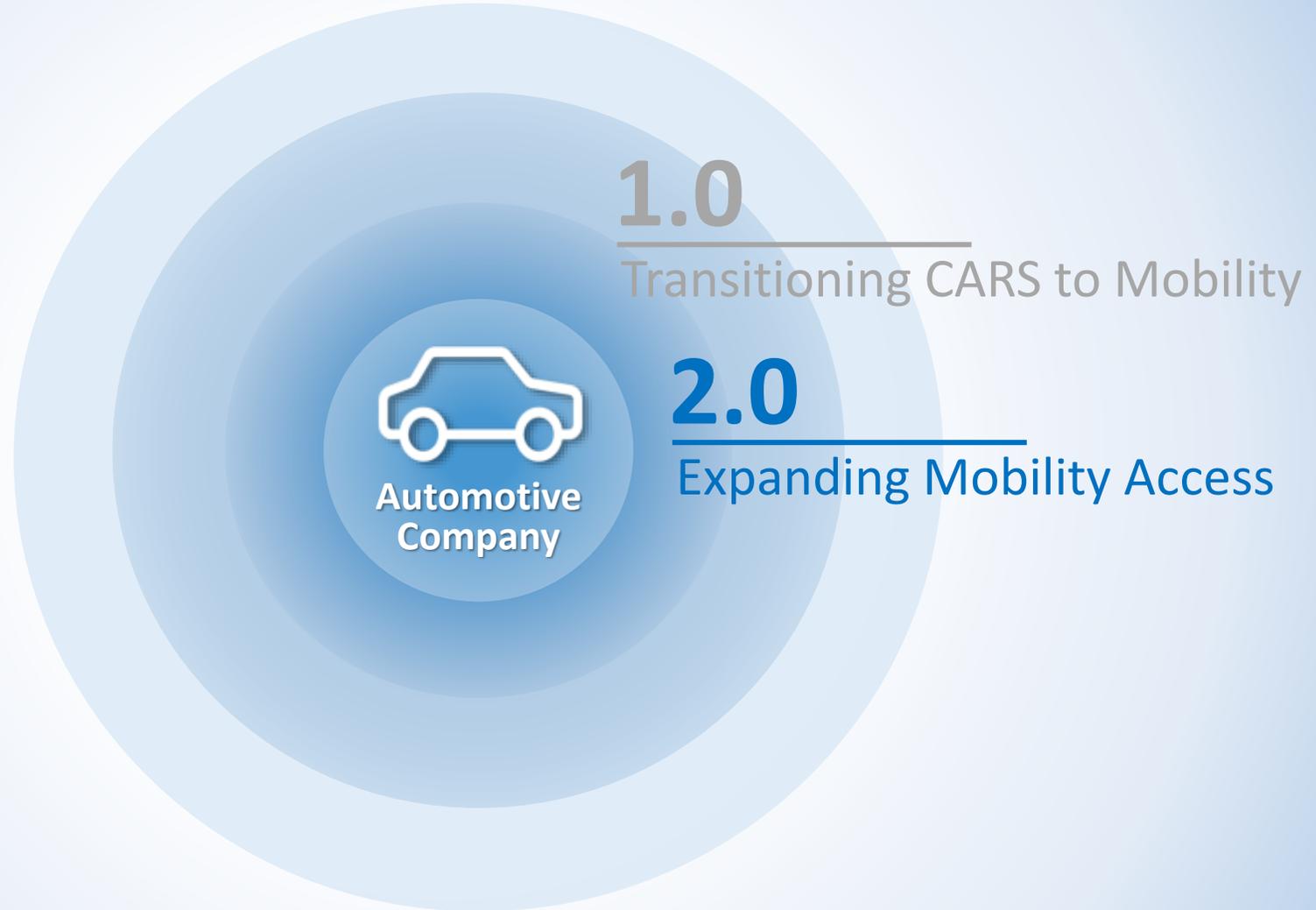
**1.0**

Transitioning CARS to Mobility

- ① Connected Car
- ② Power Grid



# Toyota Mobility Concept



# Toyota Mobility Concept

## Full Vehicle Line up



Including new forms of mobility



Automotive  
Company

## 1.0

Transitioning CARS to Mobility

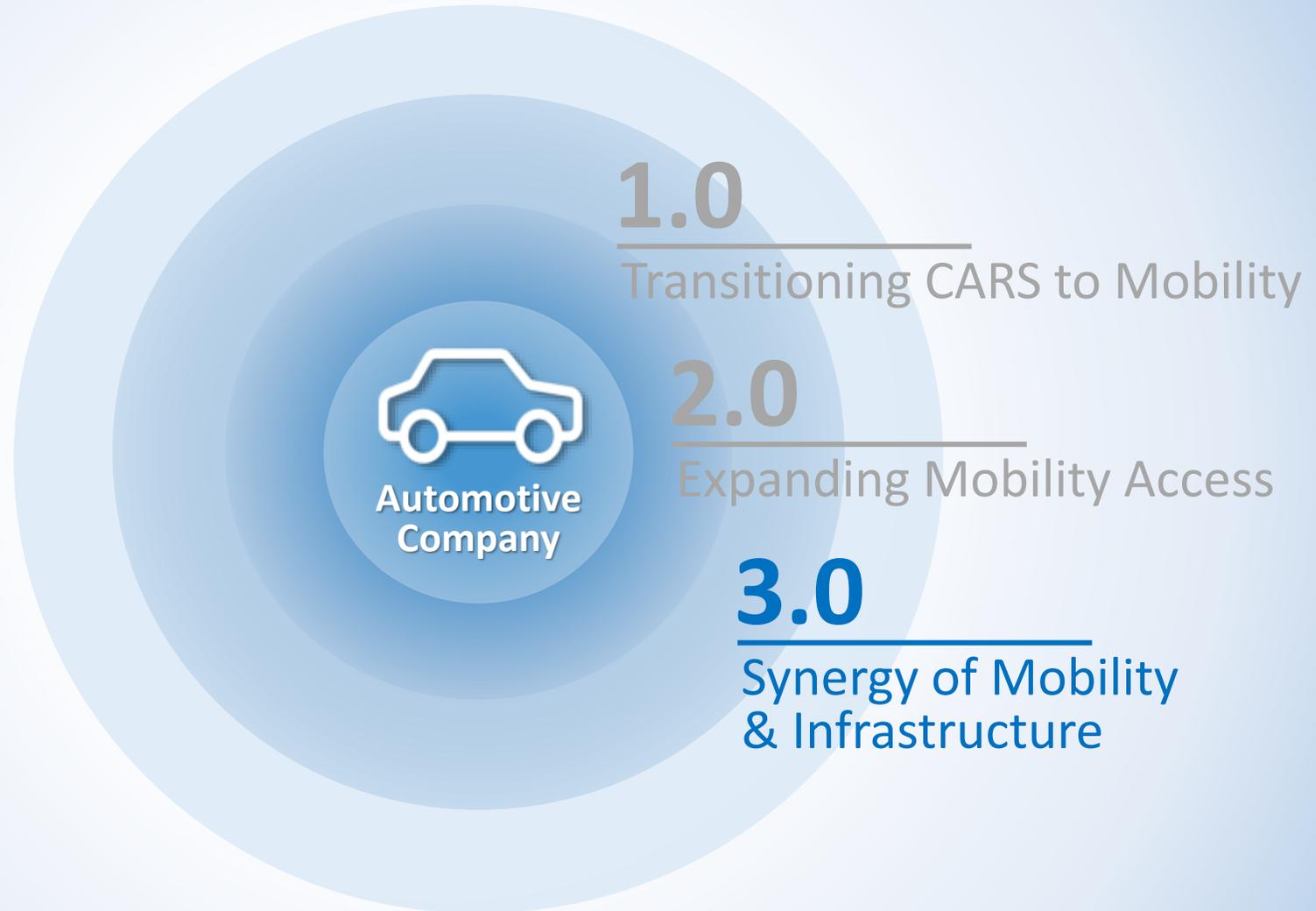
## 2.0

Expanding Mobility Access

- ① Road Condition
- ② Physical Condition
- ③ Diversify Condition
- ④ Place Condition



# Toyota Mobility Concept



# Toyota Mobility Concept

Mobility Ecosystem intergraded with city  
& social



Automotive  
Company

**1.0**

Transitioning CARS to Mobility

**2.0**

Expanding Mobility Access

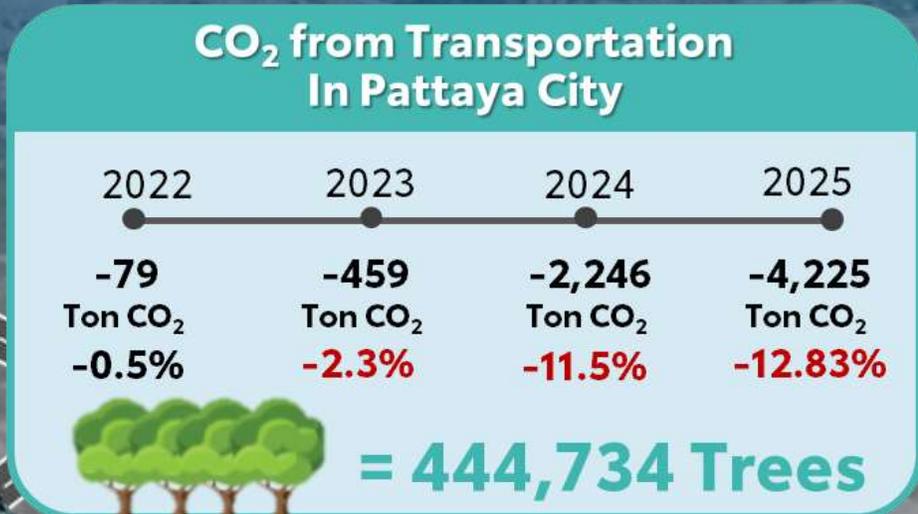
**3.0**

Synergy of Mobility  
& Infrastructure

- New logistics system (Integrated autonomous)
- CO<sub>2</sub>-free hydrogen supply chain & Expand potential of hydrogen use in daily live

# Pattaya Decarbonized Sustainable City

MODERNIZE TRANSPORTATION TOWARD CARBON NEUTRALITY

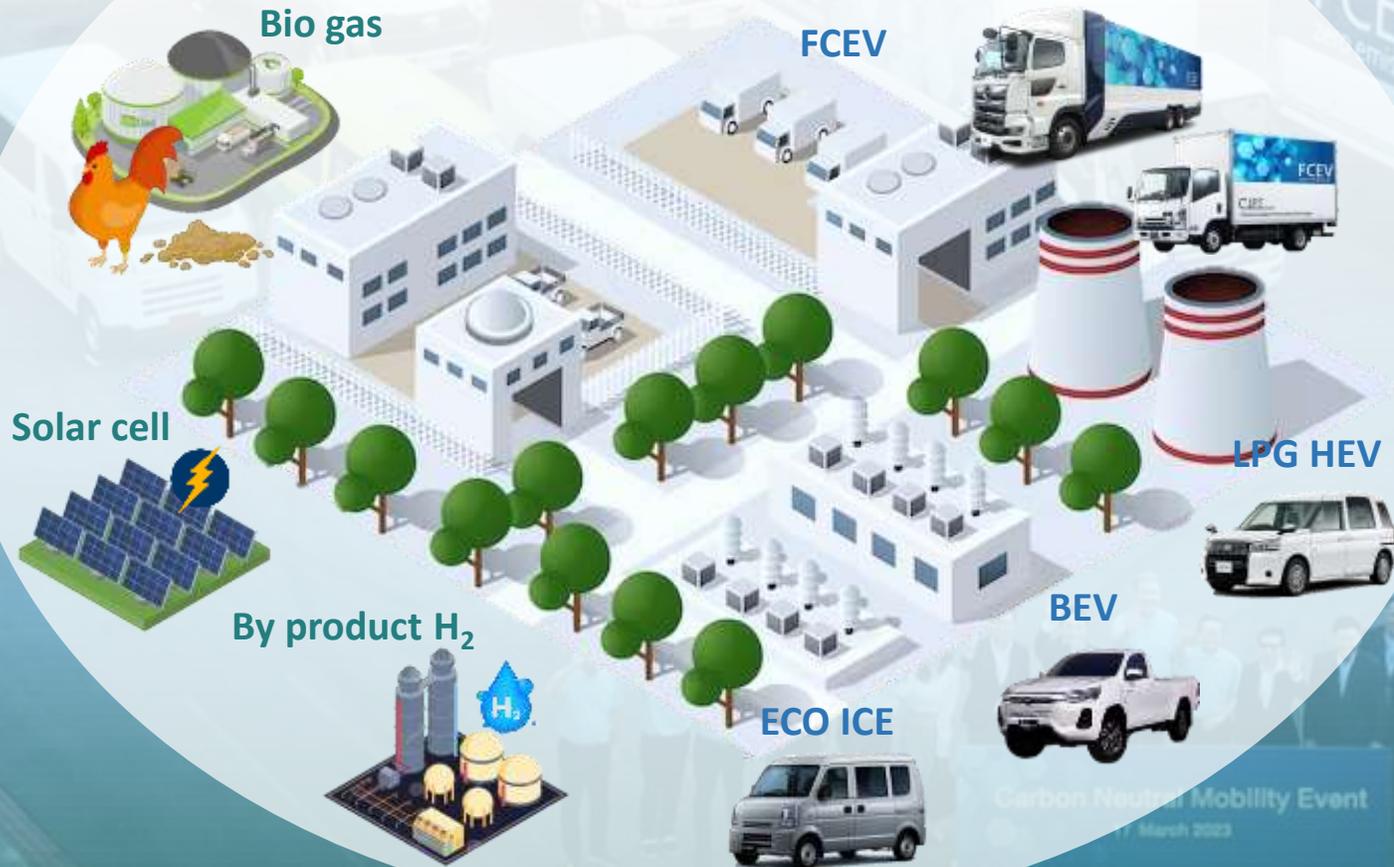


Multiple Pathway Transportation

ECO Tourism



**Cross-Industry collaboration toward Carbon Neutrality**



**① Energy solution**

- **Solar – Hydro power generation**  
Electricity supply utilizing SCG Solar/ Hydro
- **H<sub>2</sub> production**  
From Biogas of poultry farming
- **Energy management**

**② Data solution**

- **Logistic Efficiency Improvement and Genba-Kaizen**  
Optimize delivery route with connected system (DCM Device)

**③ Mobility solution**

- **Deploy CN vehicle for logistics and people transportation in AMATA**
  - ① Long haul : FC Truck
  - ② Mid Mile : FCEV small truck /BEV
  - ③ Last Mile : BEV/HEV/Kei Van
  - ④ Commutation : FC Bus/HEV

# Explore New Business To Make Customer Smile

## Commercialized

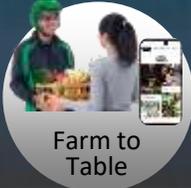
### Logistics



Medical Logistics



Backhaul utilization



Farm to Table



Cold Chain

### Mobility



Wellness



Shuttle service



Employee shuttle

### Efficiency & Lifestyles



Training & Consult



Automation & AI



Coffee & Lifestyle

**Smart Transportation** (Icon: Car with signal)

**RE solution & Battery swapping** (Icon: Lightning bolt)

**Local business & Logistics enhancement** (Icon: Warehouse)

**Waste Mgmt.** (Icon: Recycle symbol)

**Community Public Health** (Icon: Heart with cross)

**EV Infra** (Icon: Plug)

### Smart Scape Solution

**zEV infrastructure** (Icon: EV charging station)

**RE Solution** (Icon: Gear and sun)

### Energy solution

## New Exploration

# CDC | CORPORATE DIRECTION 2024 | COMMUNICATION

# Corporate Direction Communication

TIME TO COMPETITIVE ACTION WITH STRONG FOUNDATION



THANK YOU