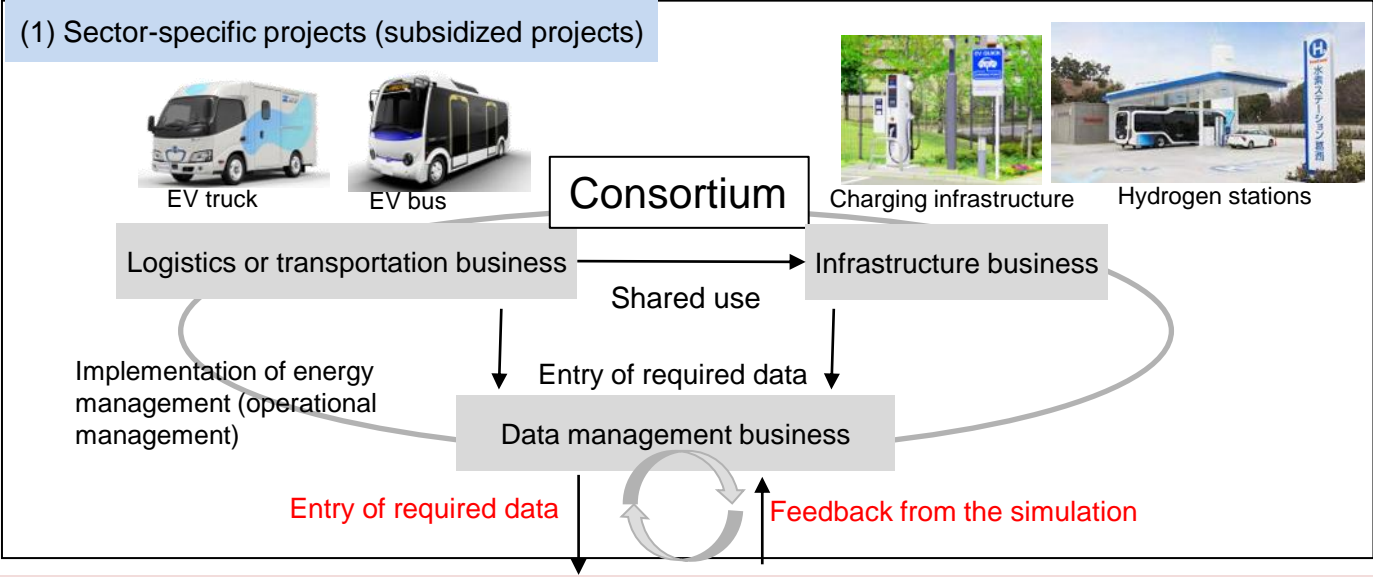# Smart Mobility Society Construction (Promotion of the Electrification of Commercial Vehicles)
(Amount covered by the government: Up to 113 billion yen)

- In order to achieve carbon neutrality for commercial vehicles, which account for approximately **40%** of the CO_2 emissions in the transportation sector, it is important to **popularize electrified vehicles** and **reduce energy consumption by optimizing energy management and operational management.**

- For this reason, the project will (1) develop and verify an **operational management simulation system** in **different cases classified by business type (e.g., buses, taxis, and trucks) and power source (e.g., EV and FCV)** to minimize energy costs and CO_2 emissions and maximize transportation efficiency.

- In addition, it will (2) **collect a variety of data from several sector-specific projects** and use data on weather and other factors to develop and verify **a simulation system to optimize the overall coordination in society.** It will aim to **optimize the layout of charging and filling infrastructure and reduce the load on energy systems.**

By having each individual business operate a large fleet of electric or fuel cell vehicles (about 100 to 1,000) in certain areas, the project will **develop and verify a system that conducts operational management and integrated energy management for electric and fuel cell vehicles.**

(1) Sector-specific projects (subsidized projects)

EV truck   EV bus   Consortium   Charging infrastructure   Hydrogen stations

Logistics or transportation business → Infrastructure business

Shared use

Implementation of energy management (operational management)

Entry of required data

Data management business

Entry of required data   Feedback from the simulation

Several demonstrations will be conducted based on use cases and regional characteristics for buses, trucks, etc.

(2) Development of a simulation system for the optimization of society as a whole (contracted by the government)

- ✓ Using data obtained from several subsidized program operators, the project will **develop and verify a simulation to optimize the overall coordination in society** by conducting operational management and integrated energy management to reduce the load on energy systems, and optimizing the layout of charging infrastructure and hydrogen stations.