



Introduction of Car-Sharing System for Personal Mobility(EV)



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Concepts of Personal Mobility Sharing

Use Personal Mobility for Short Distance Travels

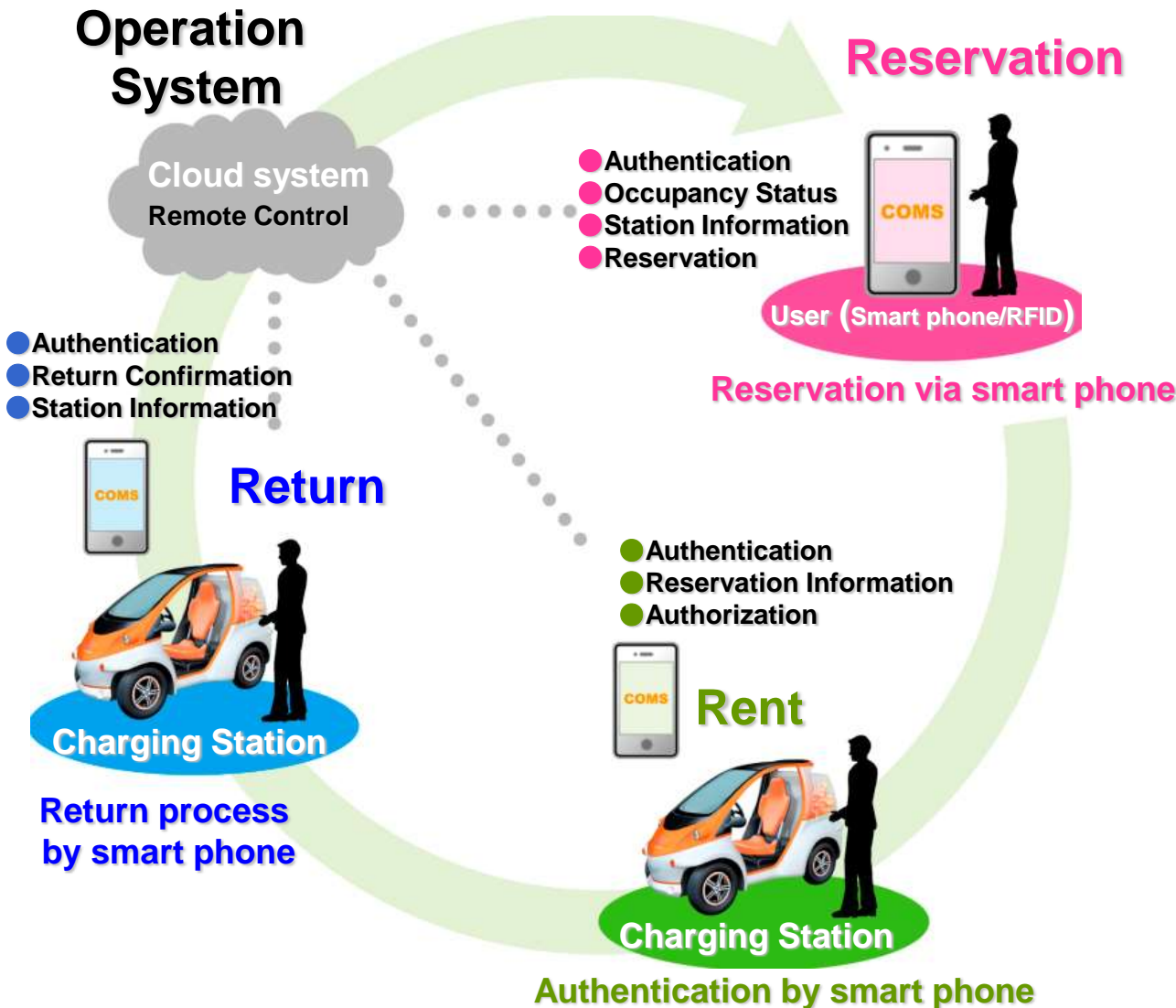


Top speed	Driving distance per full charge	Required charge time	Charging cost
Capable of 60 km (37.5 mph) in the flow of traffic.	Approximately 50 km (31 miles) city.	Fully charges in approximately 6 hours.	A full charge is approximately 120 yen. (approx. 2.4 yen per km)



Outline of Personal Mobility Sharing System

Operation System



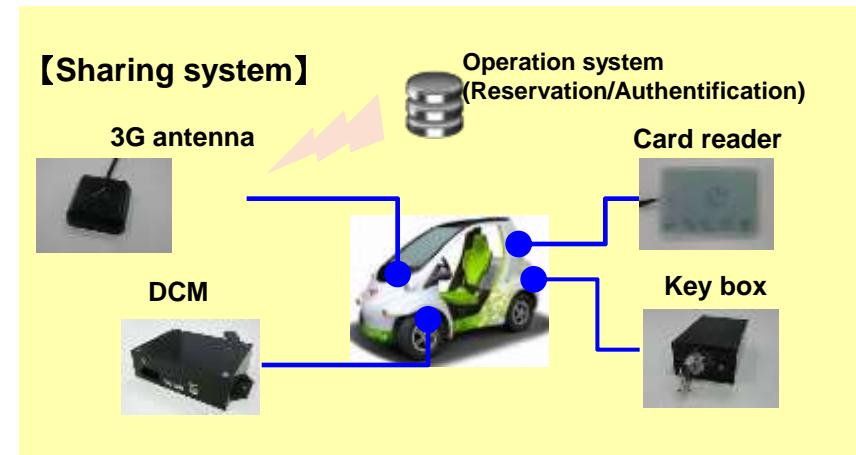
Specially designed for Electric Vehicle

- ✓ Feature①/Remaining battery estimation
- ✓ Feature②/Cruising range display
- ✓ Feature③/Battery monitoring via CAN-bus



Well established operating system

- ✓ 24/7 monitoring and call center service
- ✓ Car-sharing operating system has widely used for ICE car sharing system





Details of Personal Mobility Sharing System

 Remaining Battery Level & Cruising Range Estimation ⇒ Make EVs easier to use !!!

Display battery level & cruising range

Select “Station” ⇒

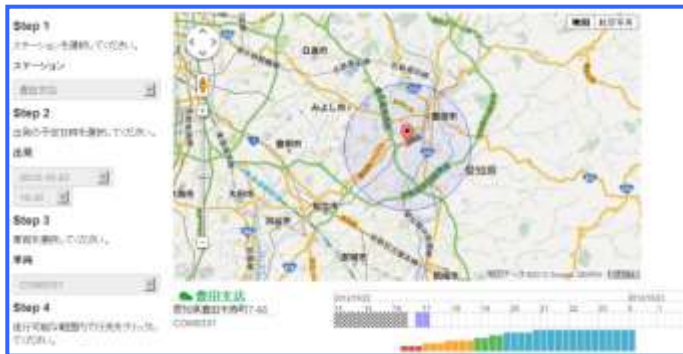
“Departure time” ⇒ choose “Vehicle”



Display battery level and possible travel mileage

* State-of-charge (SOC) is calculated by information from COMS and accumulated charging data.

* Cruising range is calculated by remaining battery level.



Driving route search

Plot your “destination”



Route Search ⇒ Battery consumption calculation

Possible to reach destination

Unable



Display “Estimated time of travel” and “Distance”

Display “NG”

* Calculated by accumulated driving data and slope/grade information on map and driver’s past driving characteristic.



SOC projection after drive & estimated battery charging time display

SOC projection after drive



Calculate battery charging time & recharge level

* Estimated SOC at the time of car return is calculated by accumulated driving data and actual current battery level.





Usage Cases

【EV sharing @ Condominium】



【EV sharing @Community】



【EV Sharing @ Overseas】

Singapore Univ. campus
COMS sharing test-bed

