

# **Smart Factory & Energy Efficiency**

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**POSCO ICT**

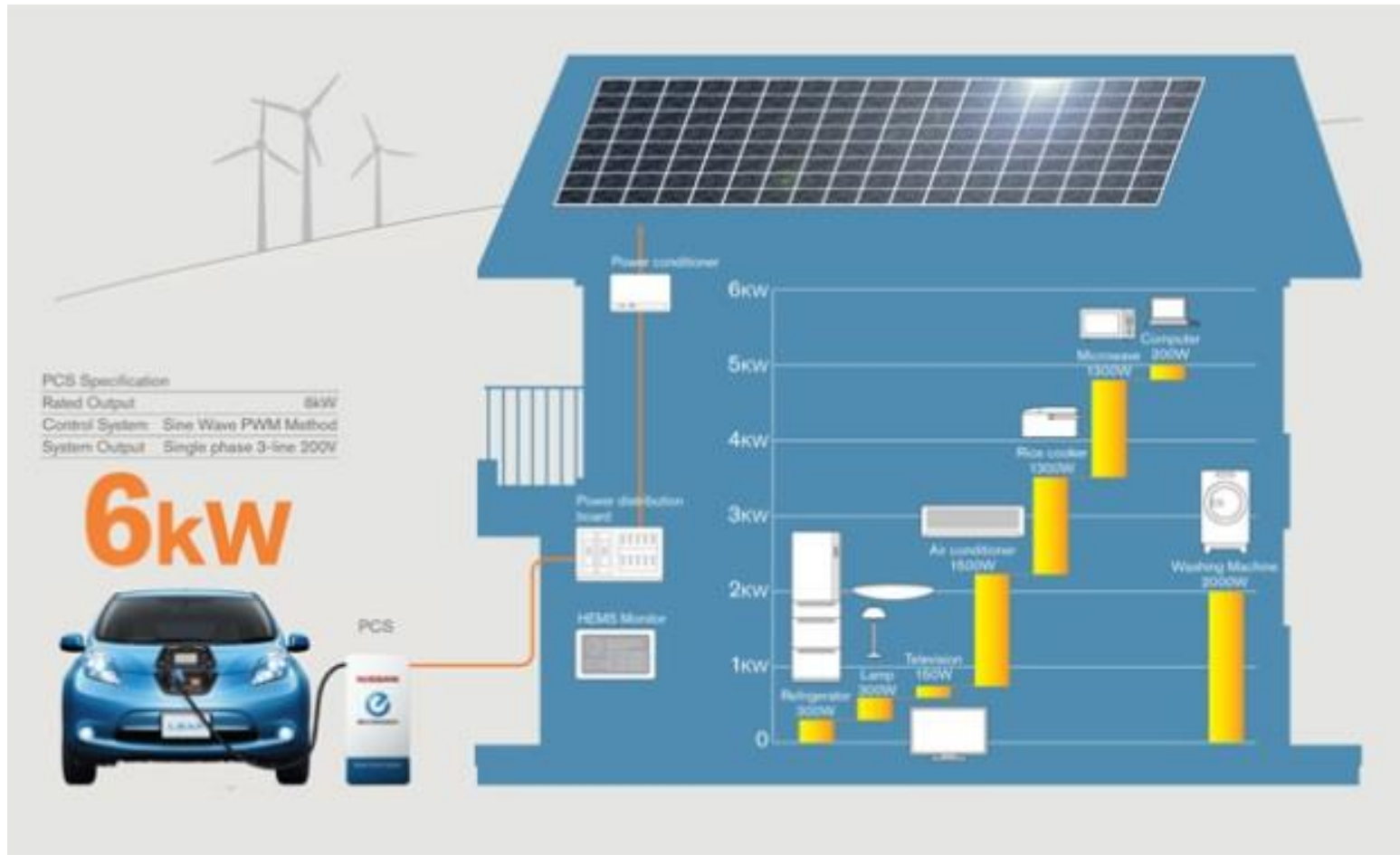
"Electricity business law amendment passed by National Assembly '18.5.29

The amended Electricity Business Act established a new electricity brokerage business that collects electricity produced or stored in renewable energy, energy storage devices, and electric vehicles of **less than 1 megawatts and trades in the electricity market.**

At present, the electricity generated by solar power plants must be sold directly by the operators in the electric power market, but the amendment allows **intermediaries to trade electricity on behalf of consumers with solar power plants or electric cars.**

The amended Electricity Business Act clarified the legal status of the operators by charging electric cars based on the Smart Grid Act to electric cars as an electricity charge.

# V2G and less than 1MW PV

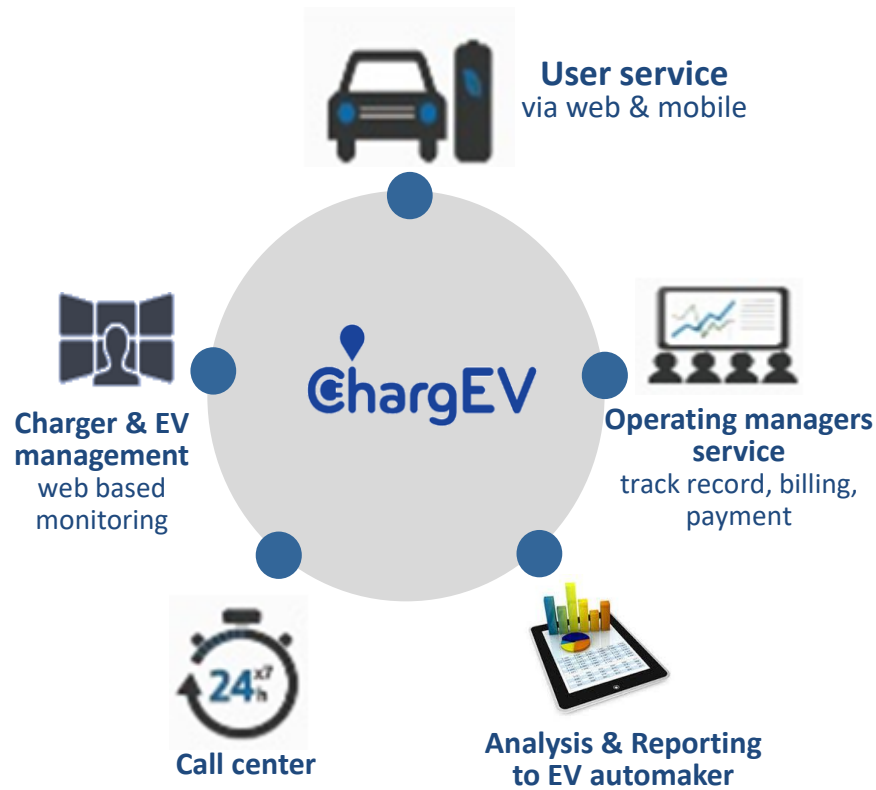


## Virtual Power Plant : EV parking lot → Power Plant?

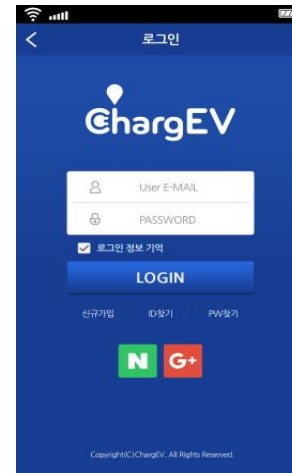


# ChargEV : EVC platform business

## < ChargEV Service Application >



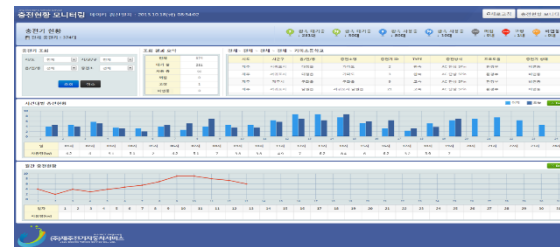
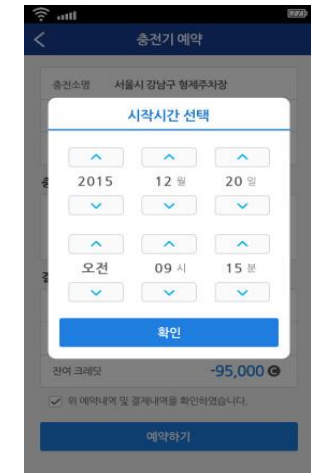
App. (Android & ios)



charging spot



charger booking

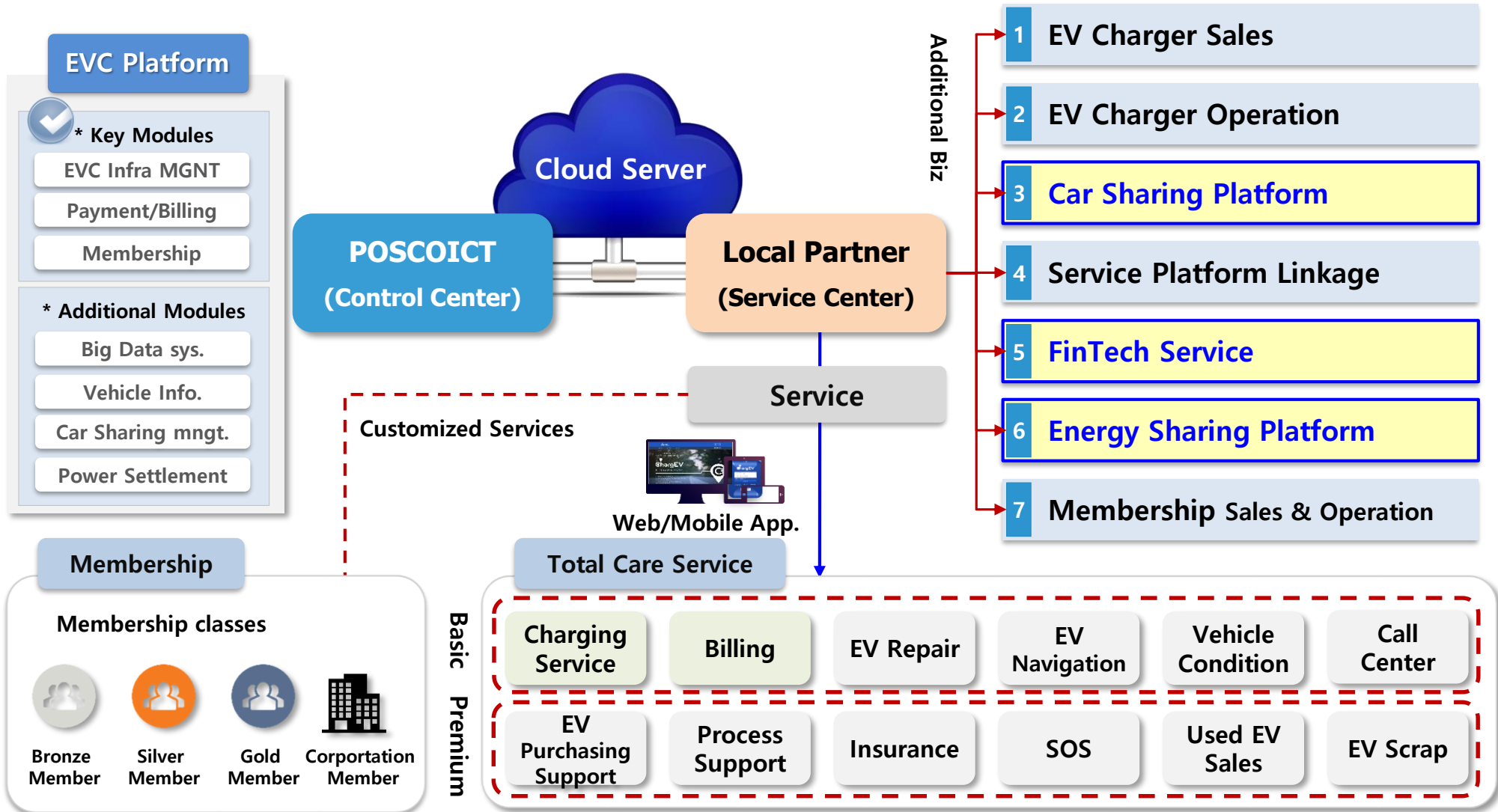


Charging Infra. Monitoring Screen

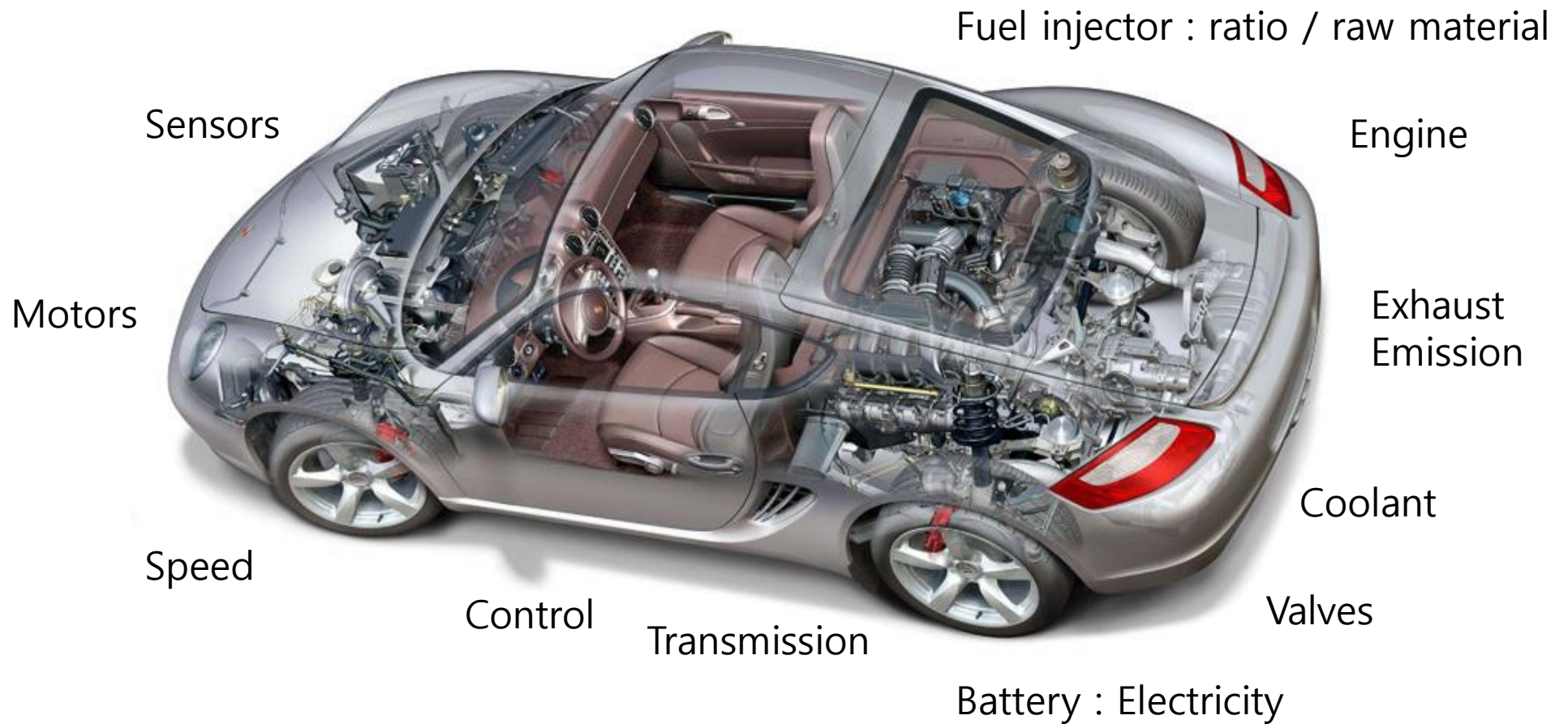


Hyundai Motors'  
Membership Card

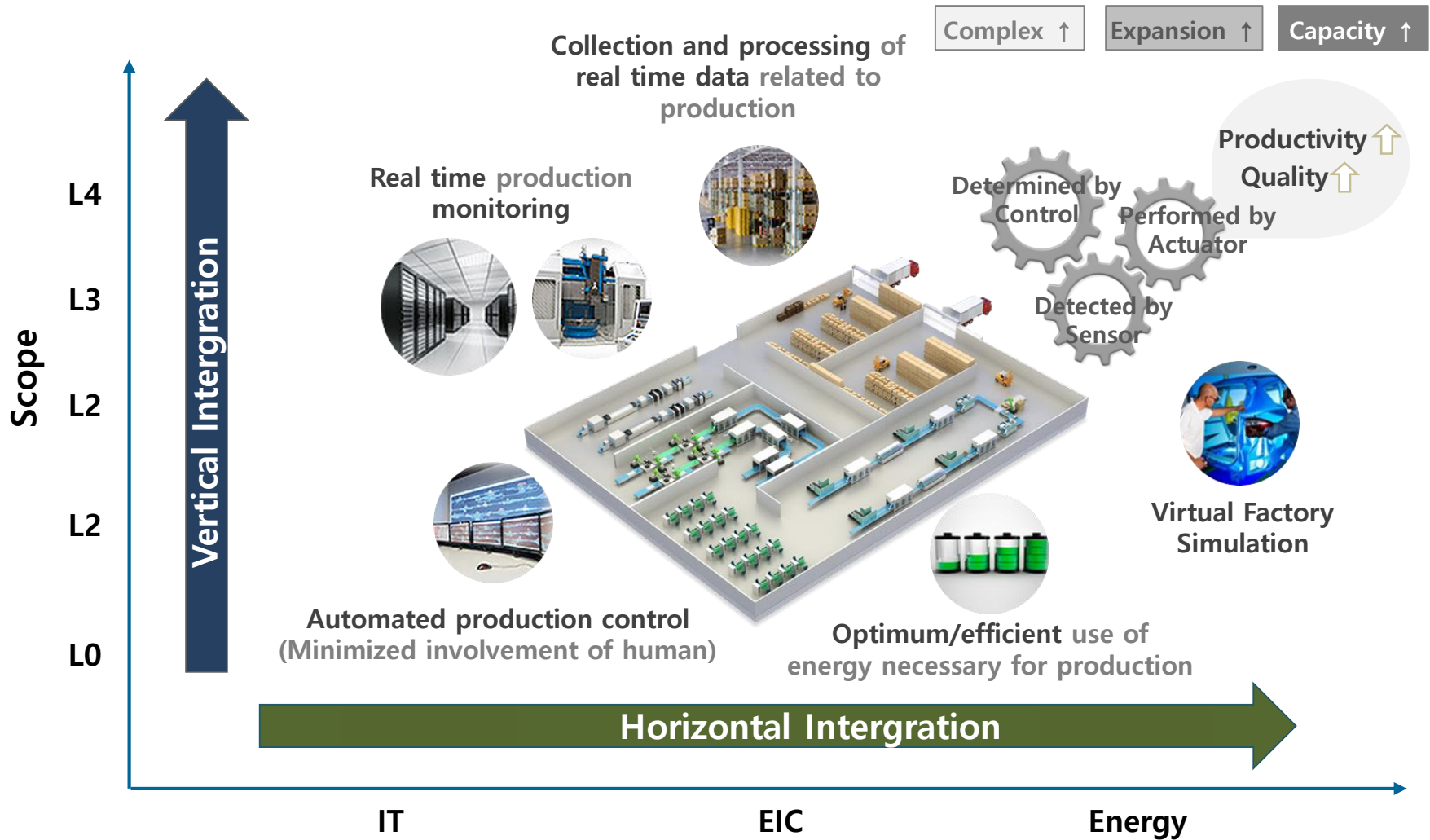
# ChargEV : EVC business model



# Smart Factory... Controlling your machine



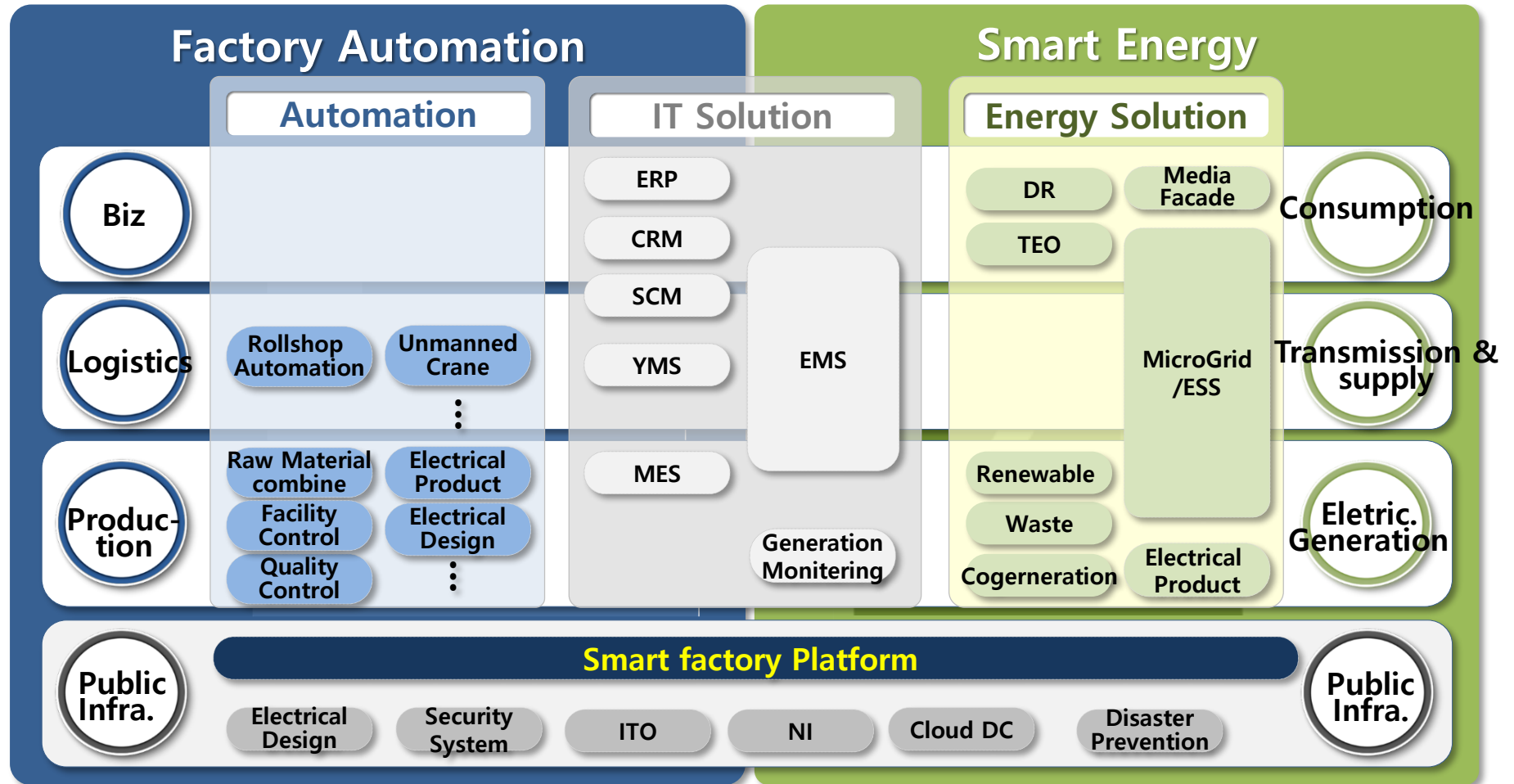
# Smart Factory





# Smart Factory & Energy

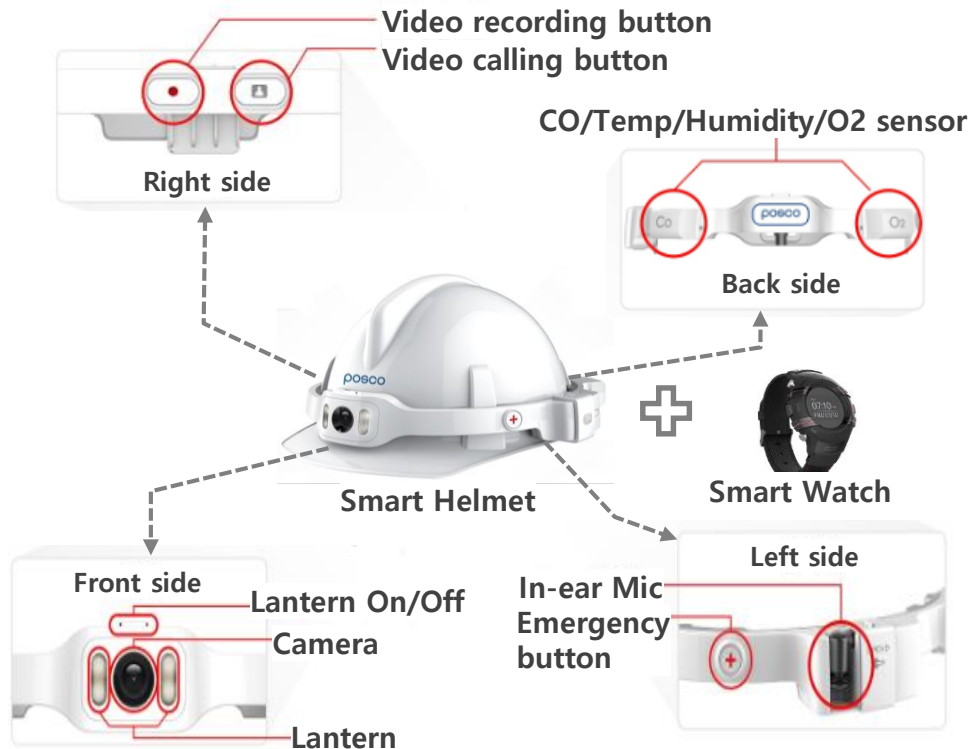
- ✓ Integrating Engineering – IT and Energy



# Smart Safety / Wearable device

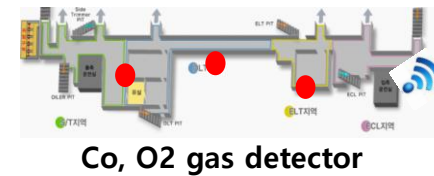
Strengthening workplace safety using Smart helmet & watch combined with cutting-edge IoT technology

## Smart Safety Solution



## ✓ Hazard Detecting

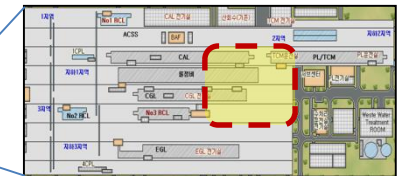
### ① Detecting Hazard area



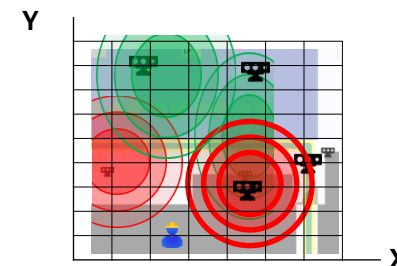
### ② Alarmed on system



Factory location Map



Factory Inside Map

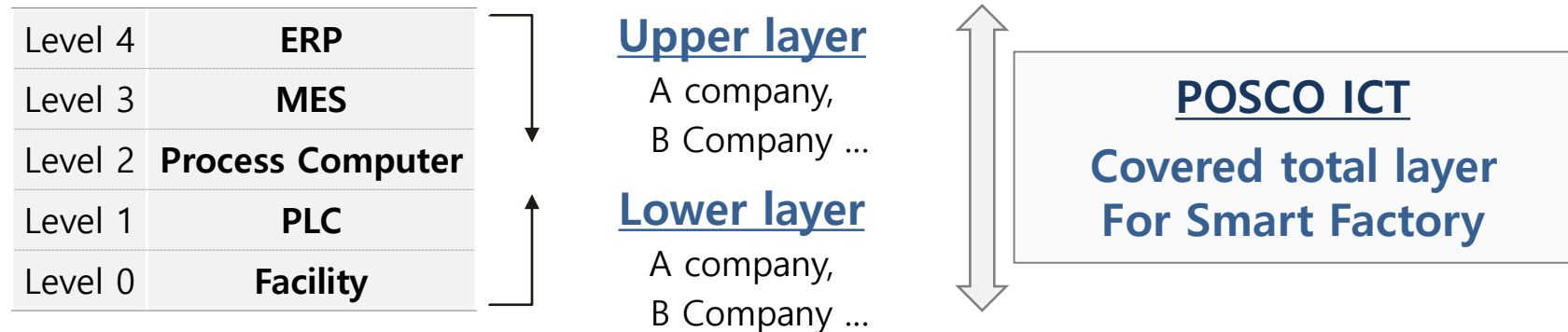


③ NO Entry

# POSCO ICT Smart Factory - Strength

Best in continuous manufacturing process in the world

## ✓ Structure of Industry Automation



## ✓ POSCO ICT's strength

- Knowledge of total layers : Lower Layer(POSCON) + Upper Layer(POSDATA)
- Both Industrial DNA and Internet DNA
- Data access to entire process, reference of POSCO's world-best continuous process



**Thank You!**