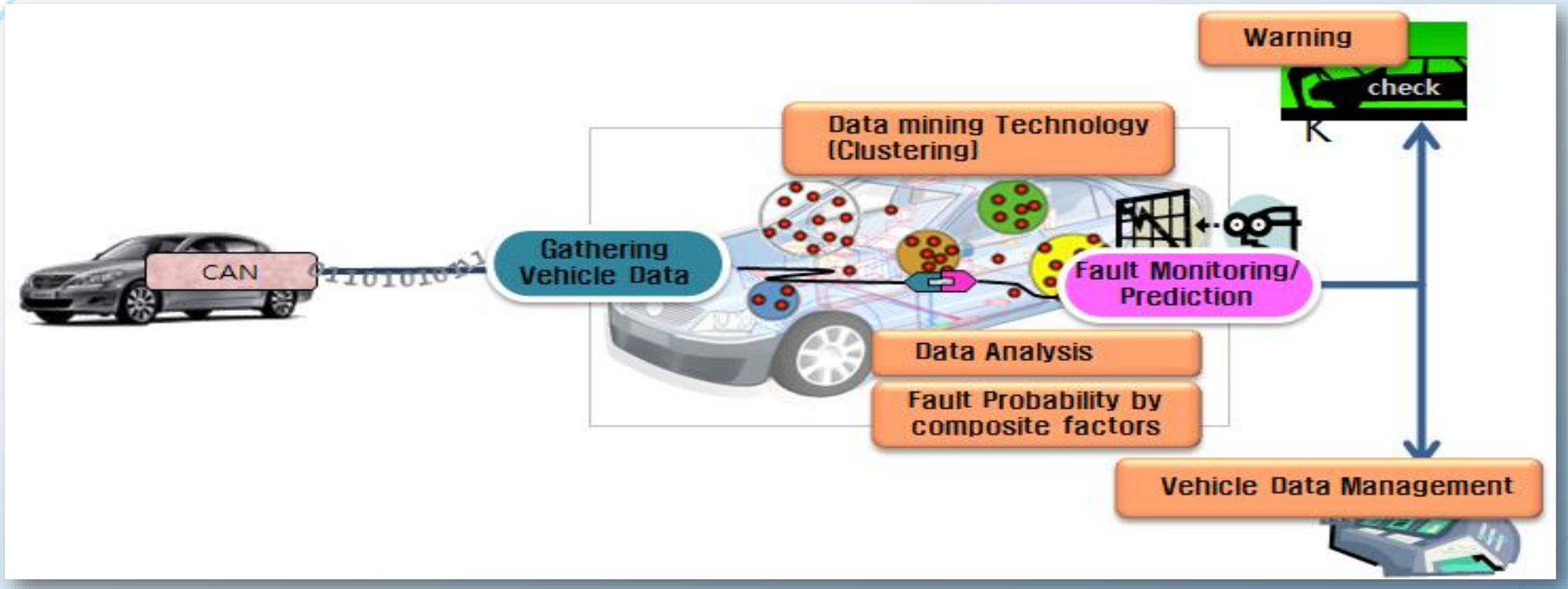
Fault Prediction Technology through Data Mining of Vehicle Sensor Values

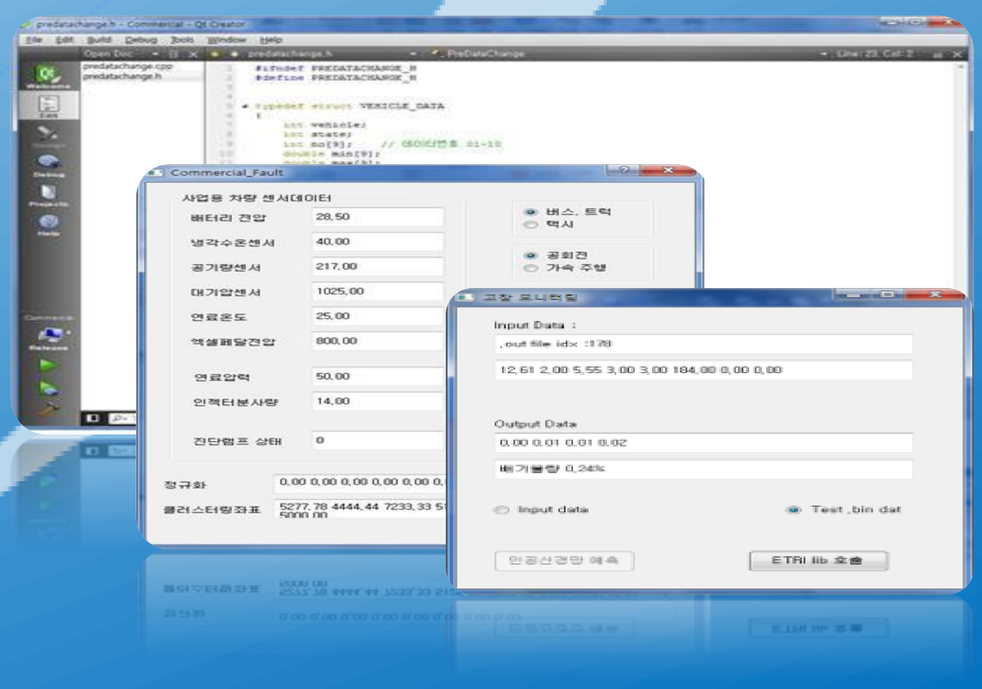
Technology Overview

- To predict the vehicle faults through analyzing interrelationship among vehicle sensor data and vehicle failure conditions based on various sensor values (powertrain sensor data) collected from in-vehicle network



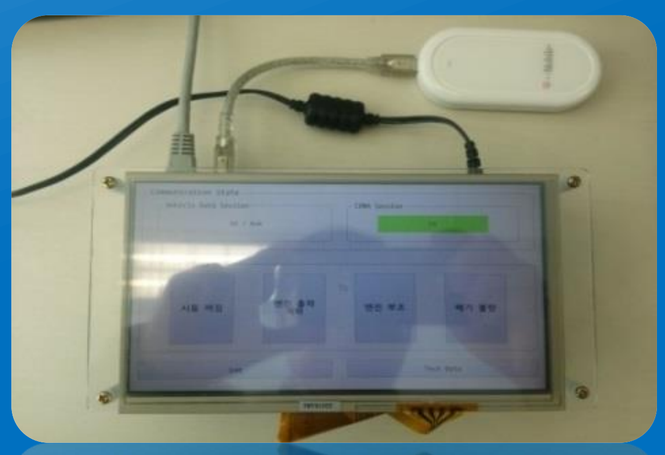
Core Technologies

- Collect 10 major sensors data from car engine, and identify 10 major faults
- Analyze the relationships between the sensors and the faults
- Predict 10 major faults and probability & time of vehicle faults using data mining
- Warn drivers of faults before car breakdown



Application Area and Advantages

- Big Data Service, DTG/Blackbox, Remote Diagnostic System, Eco-Driving, PAYD, e-Call Services
- Prevention of recalls through Fault Prediction
- Provide smart repair services through locating the causes of faults quickly



Accomplishments

- 6 Patents, 1 TOT (Transfer of Technology)