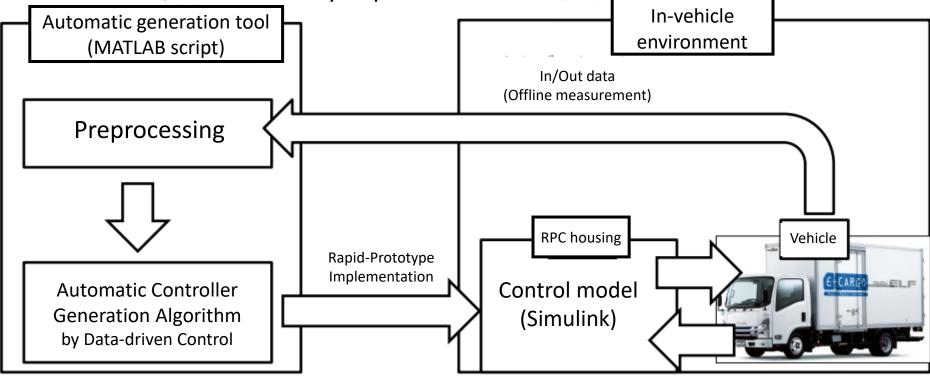# Overview of Prototype Tool

■ Automatic generation tool for lateral motion controller
- – can automatically generate a lateral motion controller from data just by running a test once.
  - No need for repeated driving tests or modeling
- – can export Automatically generated controller as Simulink model
  - can immediately implement in the vehicle's RPC environment

Automatic generation tool (MATLAB script)

Preprocessing

Automatic Controller Generation Algorithm by Data-driven Control

In-vehicle environment

In/Out data (Offline measurement)

Rapid-Prototype Implementation

RPC housing

Control model (Simulink)

Vehicle