

Plant Model Subscription Physical Model Hub

Immediate access to practical vehicle plant models for xILS at a reasonable price

1 Issues

The scale of simulation has expanded to include the whole vehicle as MBD is increasingly adopted.

➔ In-house development of all the component plant models of a vehicle is difficult due to limited time and resources.

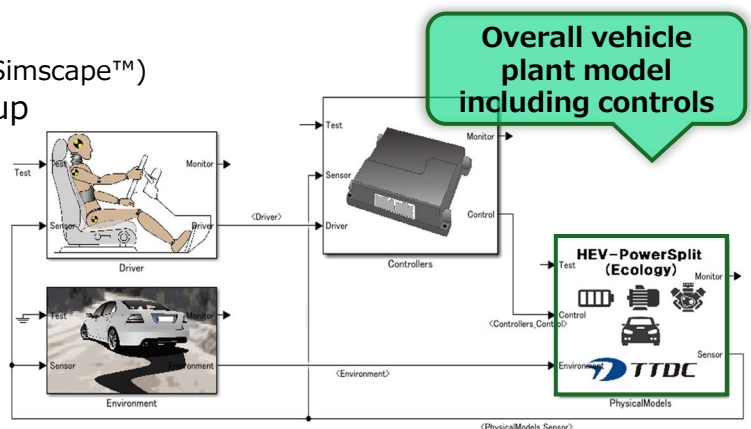
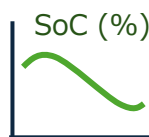
2 Solutions

TTDC provides vehicle plant models, helping to create simulation environments for the whole vehicle **efficiently** and **at low cost** without having to develop peripheral models outside your development targets! !

Product Features

- Realistic model configuration (Simscape™)
- Application-based product lineup

Power consumption performance/
dynamic performance



3 Model lineup

Overall vehicle system model

HEV
power consumption and fuel consumption simulations

HEV-PowerSplit (Ecology)

Split type

- power split device
- clutch
- Series type

BEV
power consumption and thermal simulations

BEV (Eco/Temperature)

- Battery EVs

Auto Driving BEV
auto driving simulations

Autonomous driving BEV

- Battery EVs

Can also be used as educational model

Individual unit models

Engines	<ul style="list-style-type: none"> Inline 3-cylinder NA cyclic engine model Inline 4-cylinder NA cyclic engine model (planned)
Transmissions	<ul style="list-style-type: none"> 6-speed AT model 4-speed AT model (planned)
Motors	<ul style="list-style-type: none"> Simple electric motor model Brush DC motor model (planned)
Battery	<ul style="list-style-type: none"> Battery equivalent circuit model
Vehicle	<ul style="list-style-type: none"> Simple 3-axis 6 degrees of freedom vehicle model

4 Inquiries

- ◇ Inquiries https://www.toyota-td.jp/product_site/en/contact/input/
- ◇ Corporate website https://www.toyota-td.jp/product_site/en/

