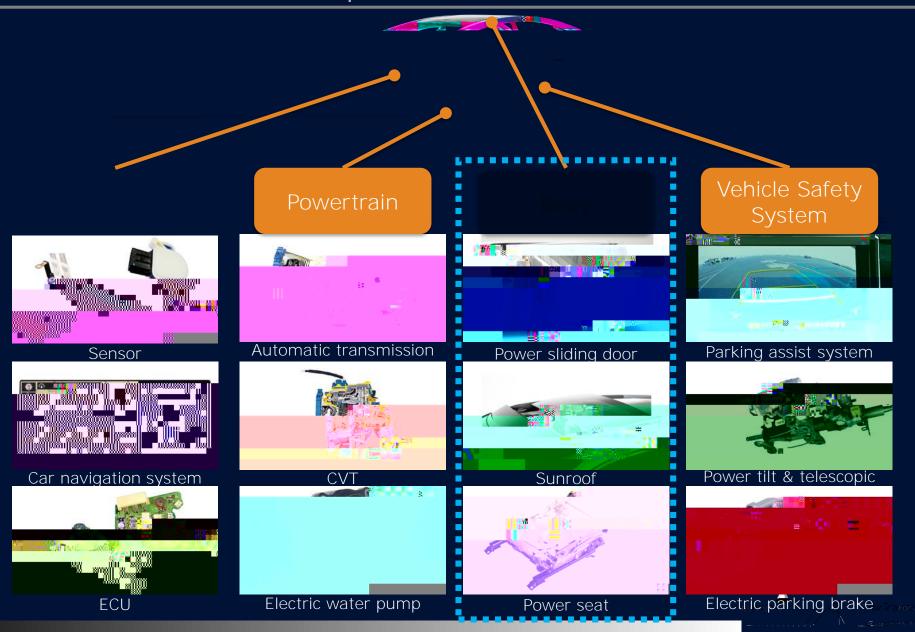


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1-1. AISIN Group Main Products



1-2. Features of the Body System

Features of the body system

- There is a direct operation request from the user.

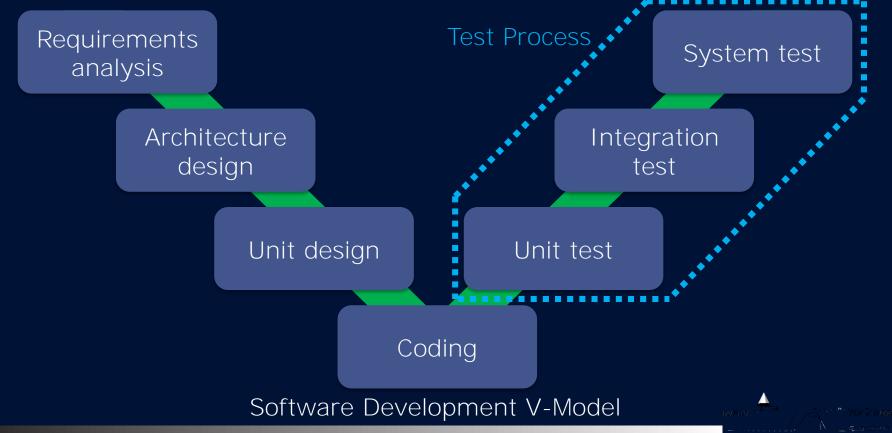


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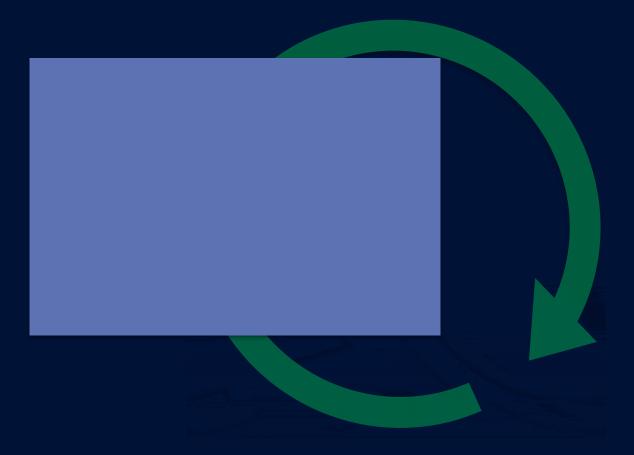


2-1. Testing Embedded Software

- Increase in test cases due to the development of larger-scale in-vehicle software
- Increased demand for simulation testing
 (Reduced hardware and other provisioning costs/easy and replicable test environments/to advance the testing schedule)



- 1. Silver was introduced as a tool for simulation of product ECU, and SILS environment was constructed.
- 2. TestWeaver Light was introduced to automatically generate reports and automatically judge for simulation results.





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Want to make the most of the increasing assets of SILS testing...



2-4. Issue in Test Assets Management

Good management practices for test assets are needed to keep testing costs lower.

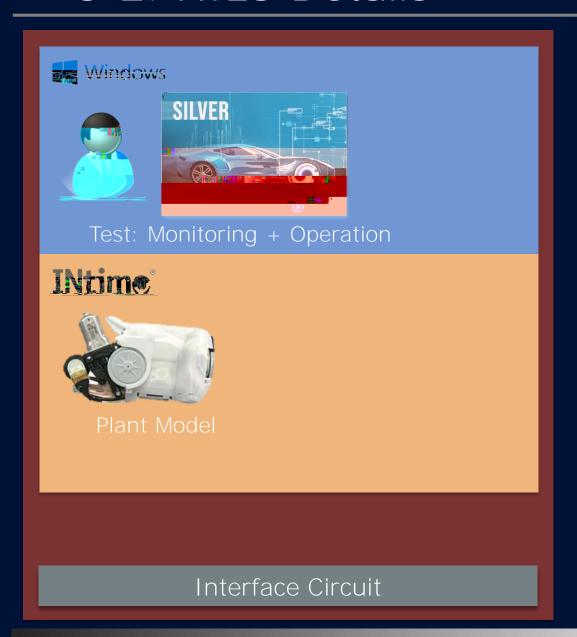




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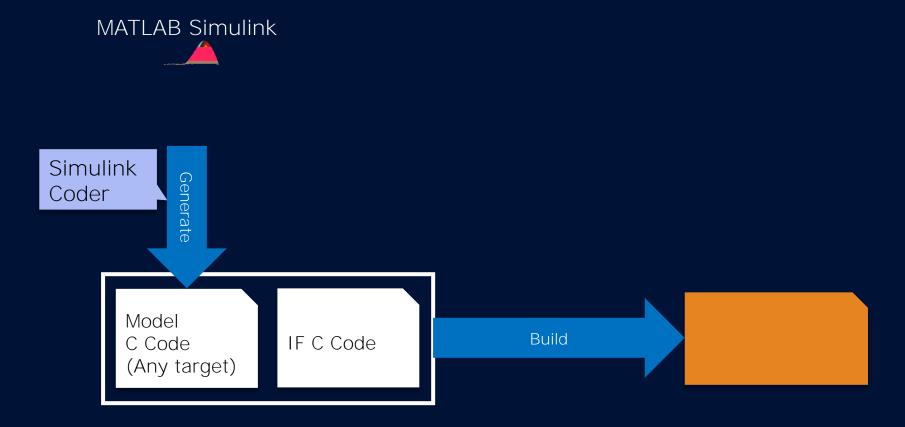
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3-4. Easily run Simulink models in RT

Flexible support for MBD by designing the HILS Plant Model Interface so that it can be imported from Simulink Model. Model development is performed externally using Simulink, and by providing the model, real time operation can be easily performed.



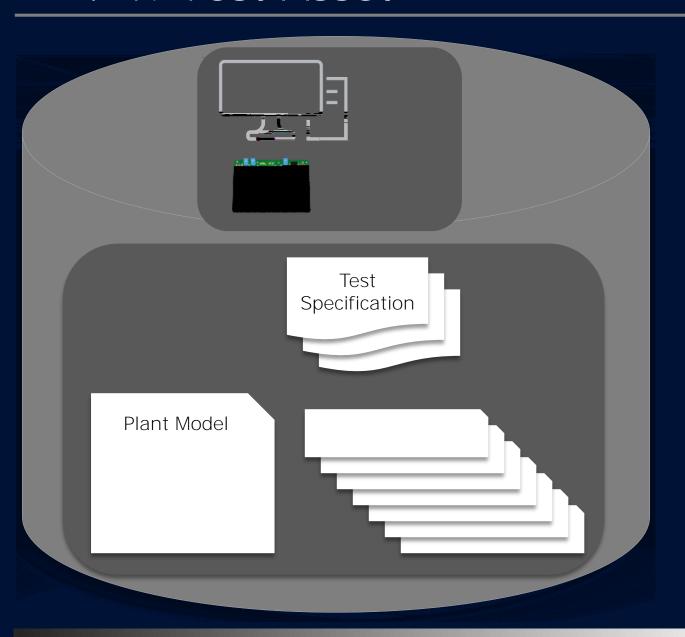


- < Reduce in-house software components >
- Cultivate successors through in-house software refactoring.
- Smaller in-house software components

Component	Conventional	Development	
1.PC	Outside	Outside	
2.Test Scripts	In-house	In-house	
3.GUI	In-house	Outside	
4.Interpreter	In-house	Outside	
5.Plant Model	In-house	Internal	
6.Controller	In-house		



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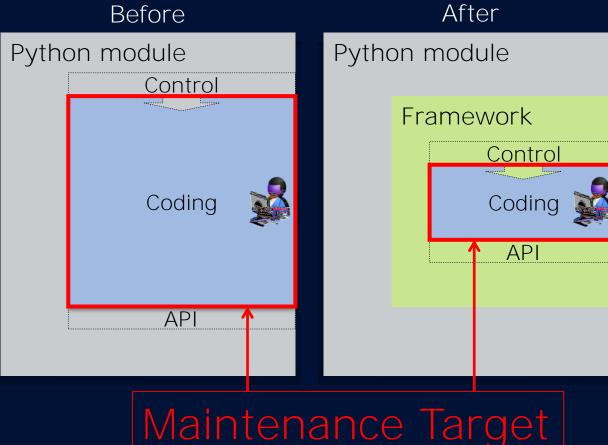


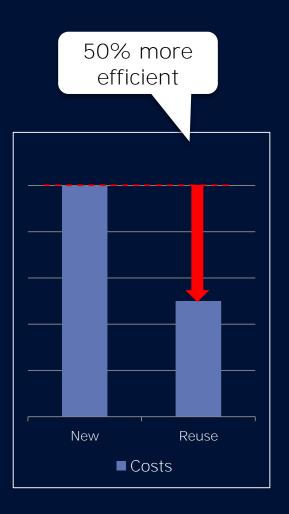


4-2. Test Framework

Advantages of the framework

- Reduce code volume
- Prevent unintended variations
- Fewer bugs







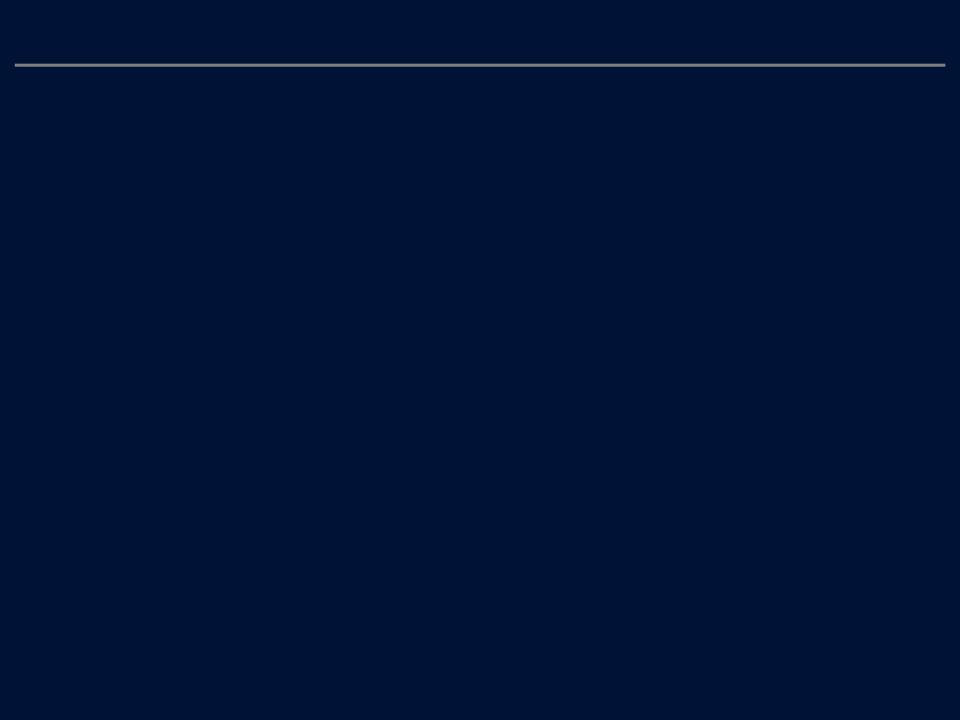
5-1. Test Script Architecture Design

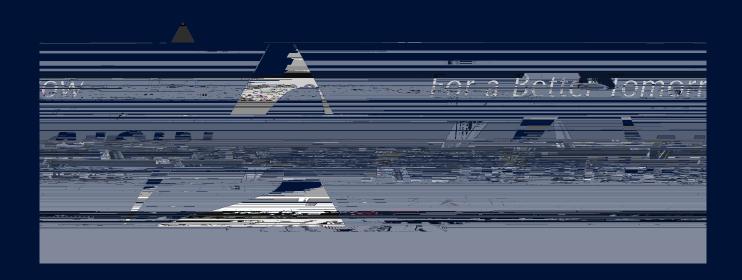
Design Test Script Architecture by Python for



- 1.Introduction
- 2.Background
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- 4. Python Scripts Management
- 5. Summary







Thank you for your attention!!

