Context:

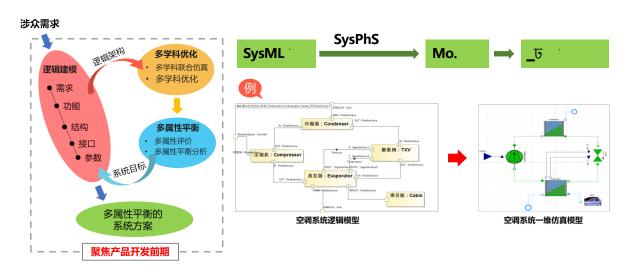
The CFD team of a Chinese automotive company would like to implement for the first time a MBSE approach that covers the logical architecture and domain specific simulations.

The CFD team is performing domain-specific simulations within a silo-approach that are disconnected from the system architecture. This create problem of consistency and poor quality.



Approach:

The designed approach consists in a simple framework to apply MBSE together with Modelica and eventually Simulink Simulations:



Project Case: CAE and CFD

Results:

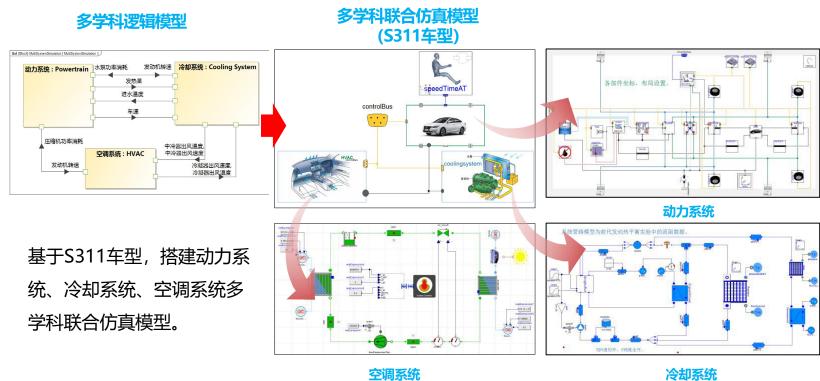
O1 Development of a tailored MBSE approach to integrate the system architecture with domain-specific simulations

- **02** PoC for SysML-Modelica integration
- **03** V&V approach to verify requirements of the performed simulation

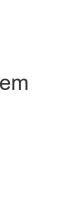
O4 Coaching and Training up to 250 engineers and SW developers on the new approach



05 MBSE adoption plan and best practices









+information