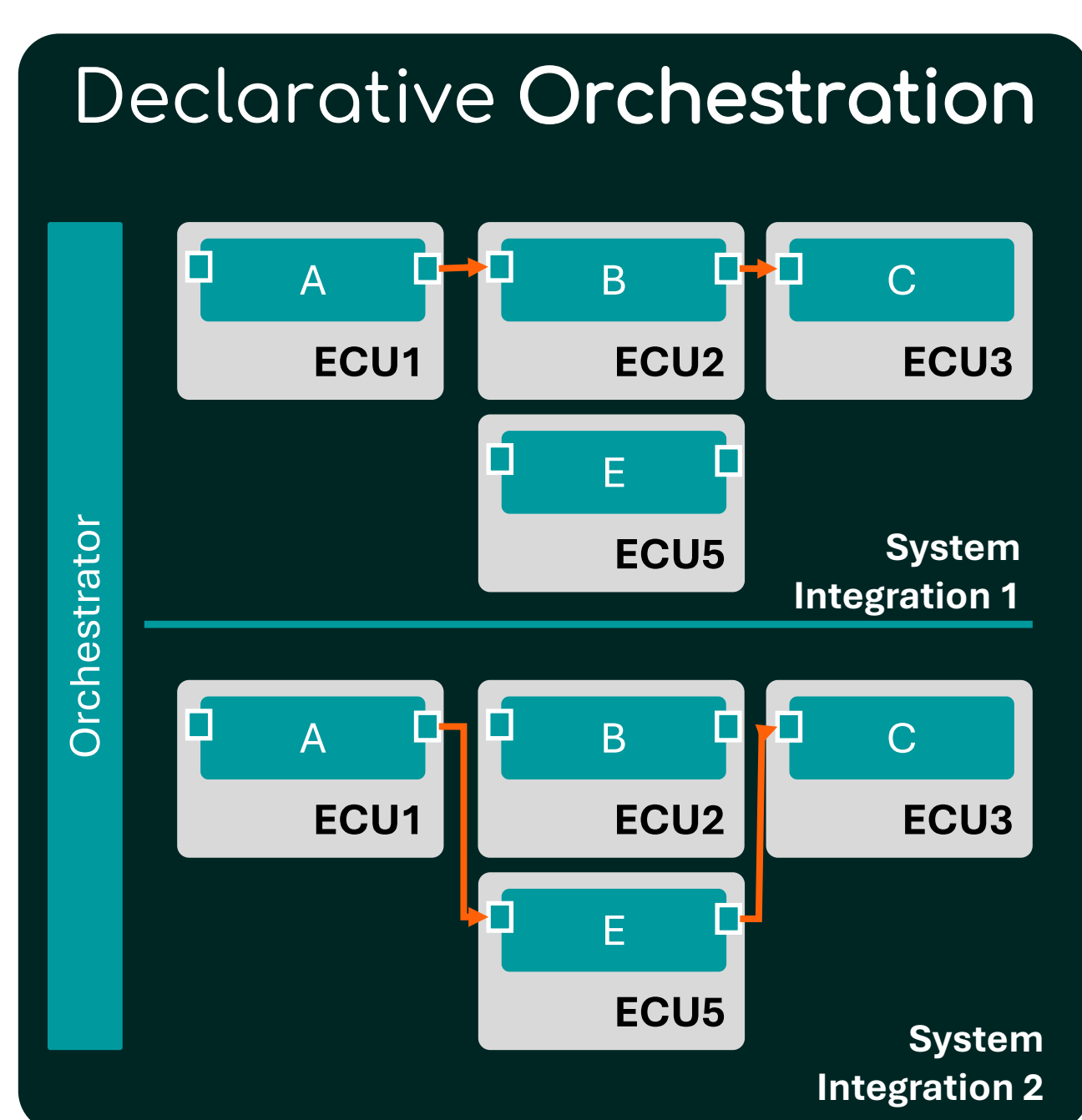
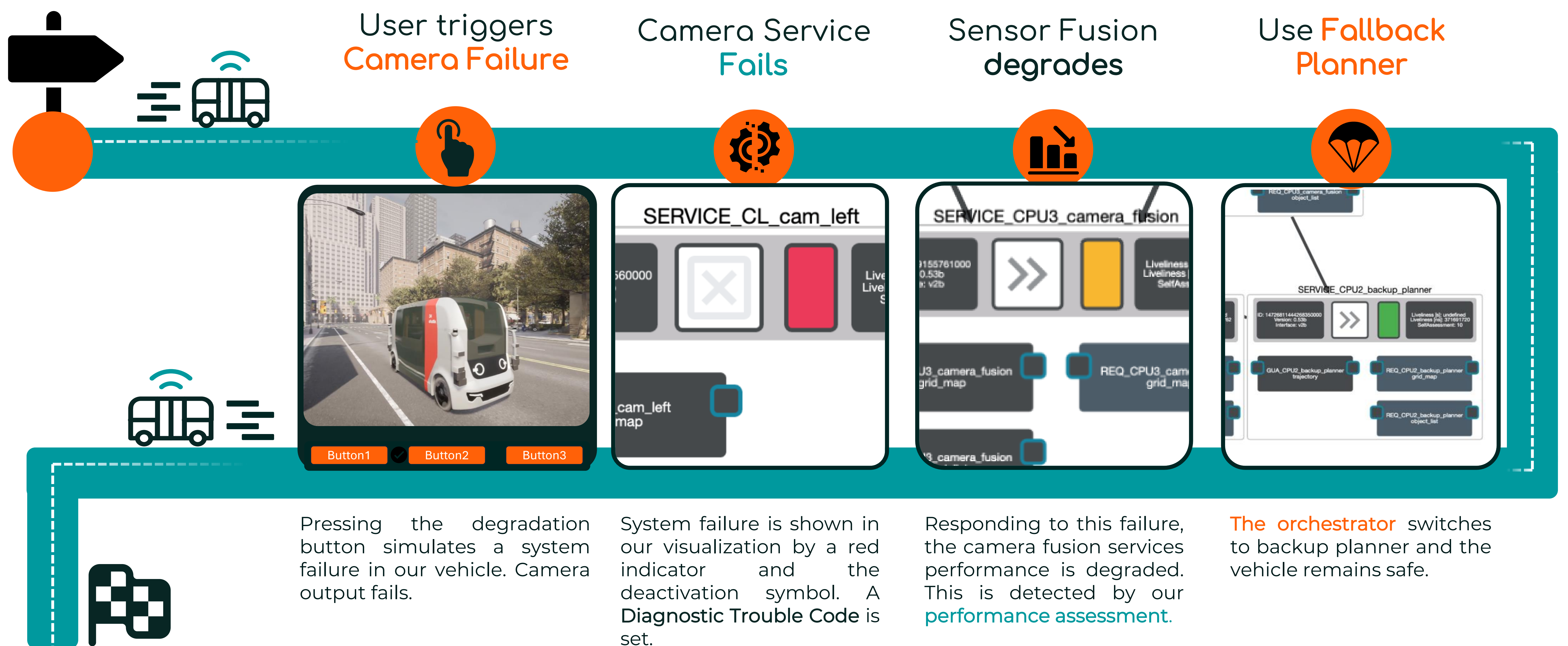


Automotive Software Stacks

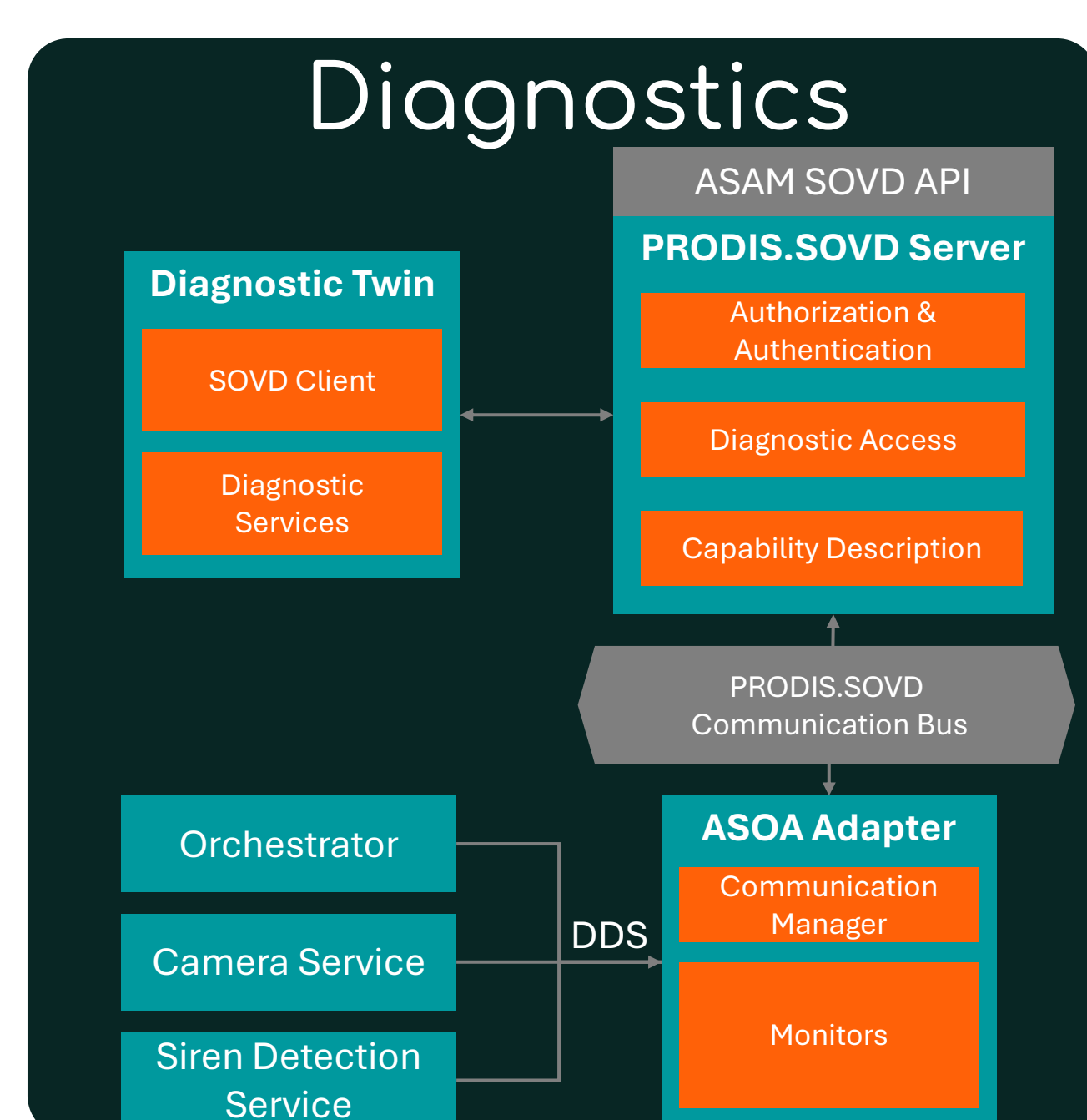
Degradation and Fault Diagnosis

With funding from the:
 Federal Ministry of Research, Technology and Space

Continuous performance assessment and soft degradation are key features of the Automotive Service-Oriented Software Architecture (ASOA), ensuring robust system behavior in the presence of faults. Through dynamic orchestration, the vehicle's software architecture can be reconfigured at runtime to maintain functionality and service availability.



Re-Orchestration changes the software architecture and service integration in the ASOA.



Record Message Correlation IDs and distribute SOA Diagnostic information using SOVD.

Technological Innovations

Continuous Performance Assessment and soft degradation implemented in Automotive Service-Oriented Software Architecture (ASOA) ensure continued operation even in case of failure. Enabled by dynamic orchestration, the vehicle software architecture is reconfigured to respond to failures. Diagnostic Trouble Codes (DTC) using new diagnostic features, such as credible replay and state recovery, show these failures and enable diagnosis of SOAs.

Contributing Partners

