

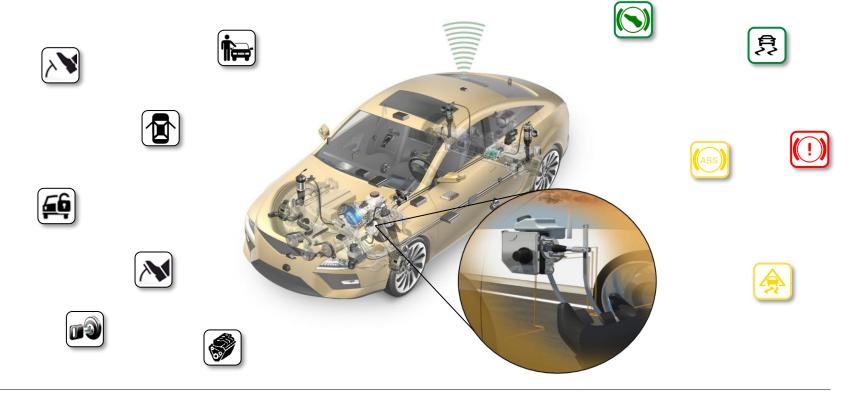
Accelerated Development Using Rapid Control Prototyping

Andreas Top



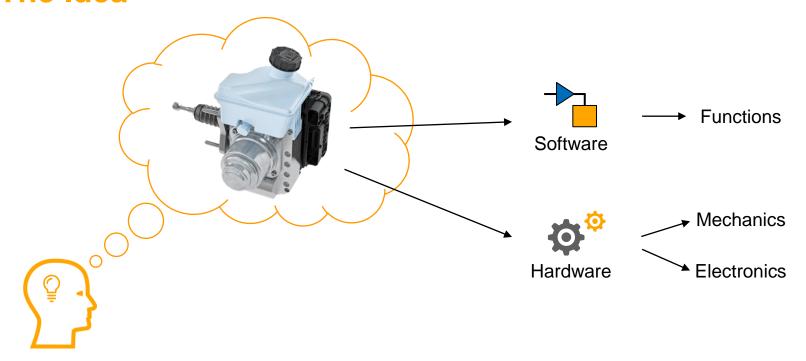


Introduction



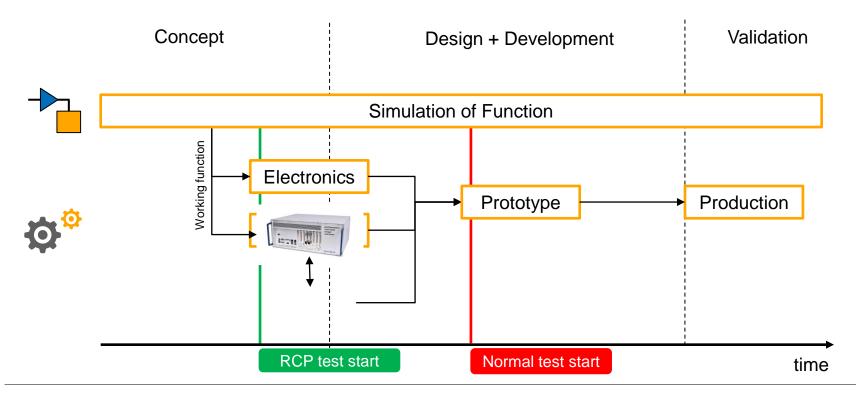


The Idea



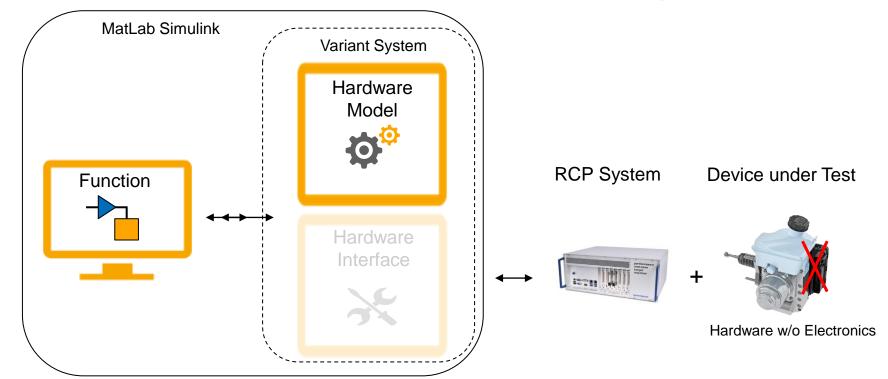


Development of a mechatronic system



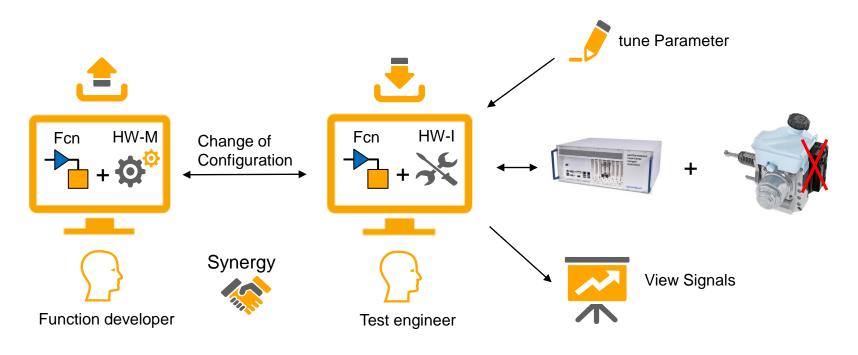


Development with Rapid Control Prototyping



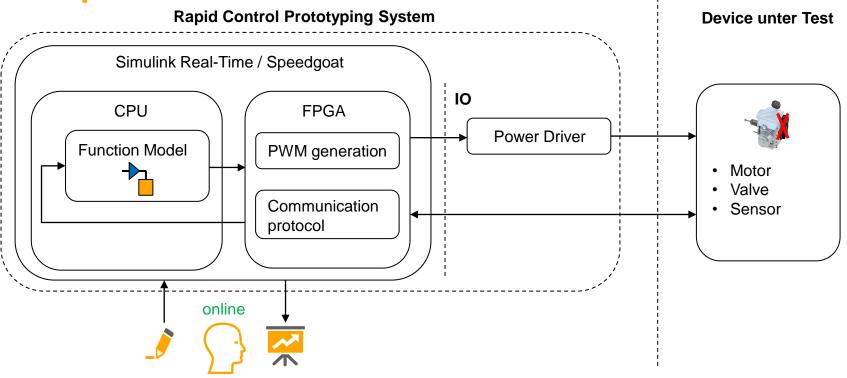


Workflow with Rapid Control Prototyping





Setup





Setup



Rapid Prototyping System:

- Speedgoat
- Electronics
 e.g. power drivers for motor and valves

Connection to PC



Advantage of Rapid Control Prototyping

Parameters can be tuned while the system is running





Testing functions without Electronics possible

Function & Test Engineer can review the function-code







Validation of the HW-Model

Only MatLab/Simulink is needed







Outlook



Development of RCP System



Duplication of RCP System

today



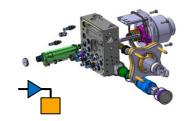
Integration of RCP into development process



Proof of concept



Train Matlab Simulink



Use of RCP







