

Safe and Dynamic Driving towards Vision Zero

Sense.Plan.Act

Chassis & Safety

Continental 



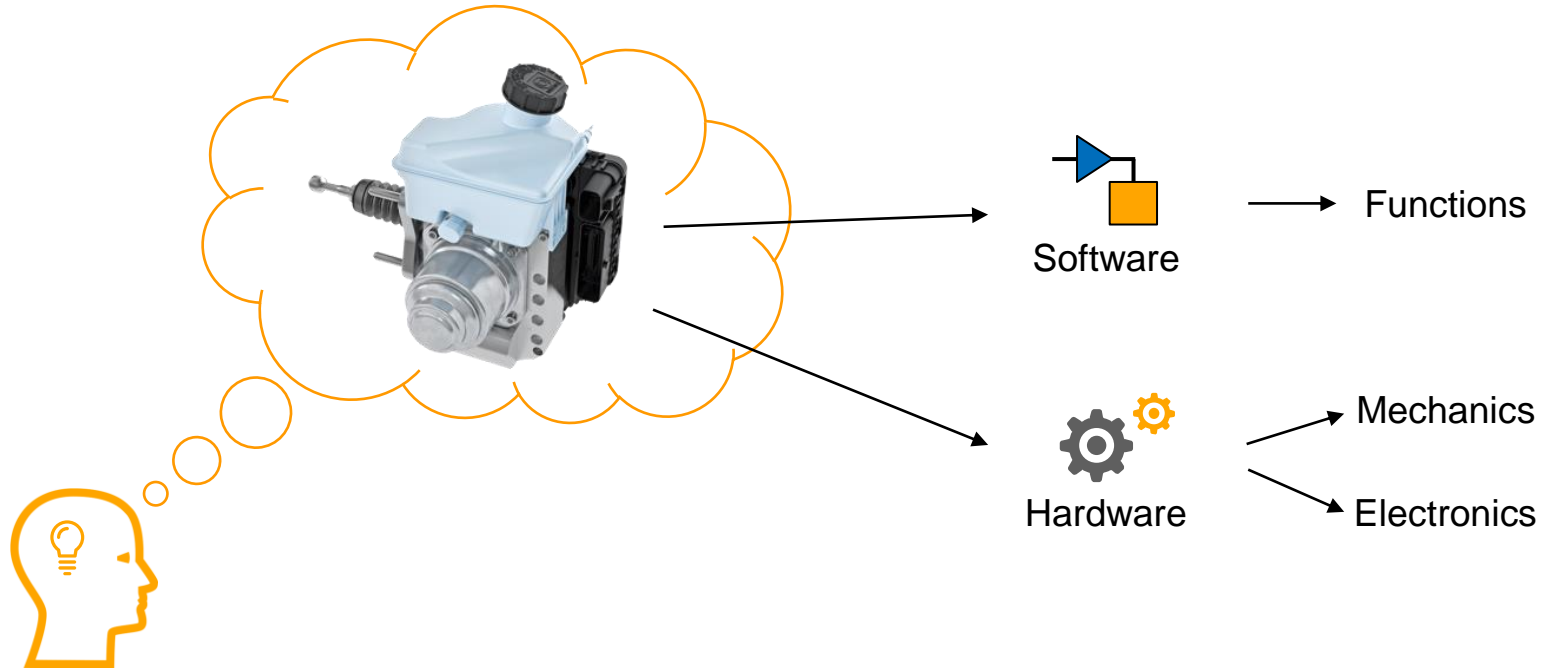


Accelerated Development Using Rapid Control Prototyping

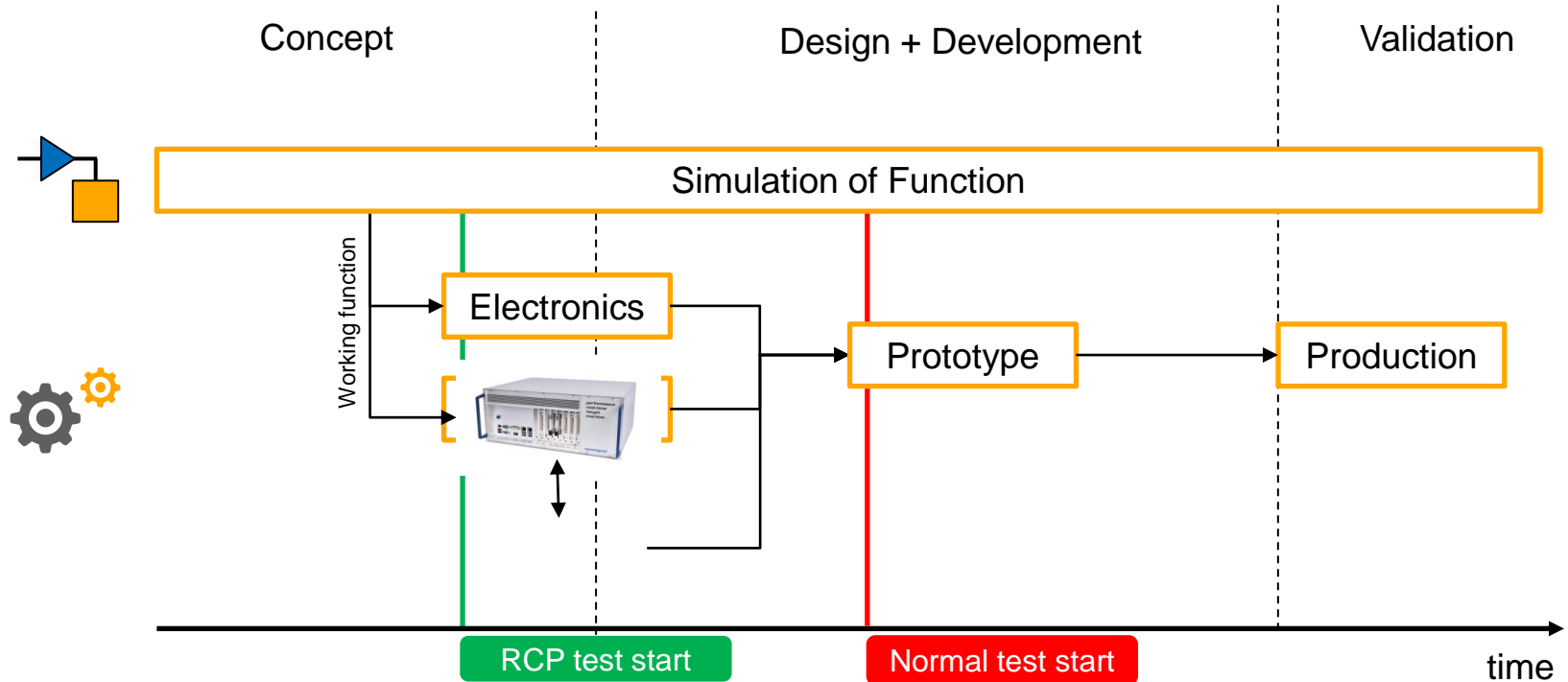
Andreas Top



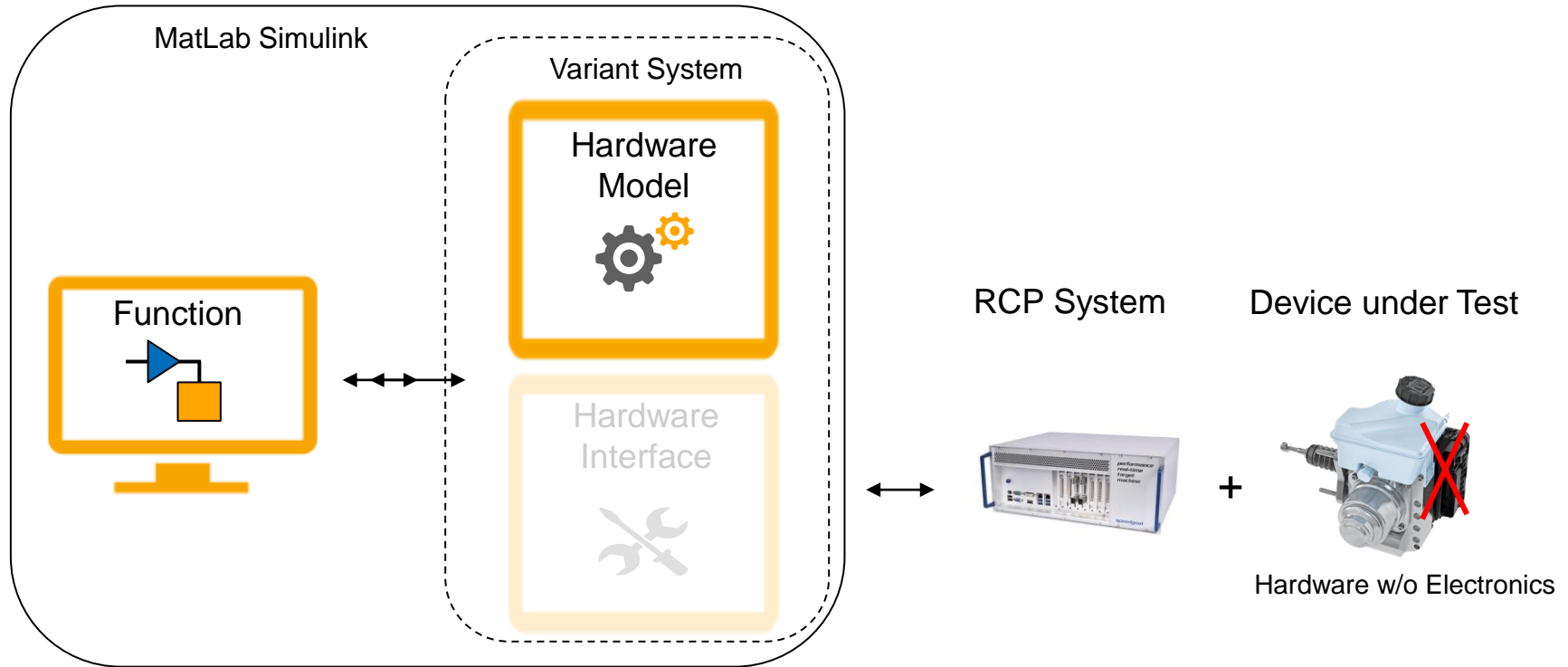
The Idea



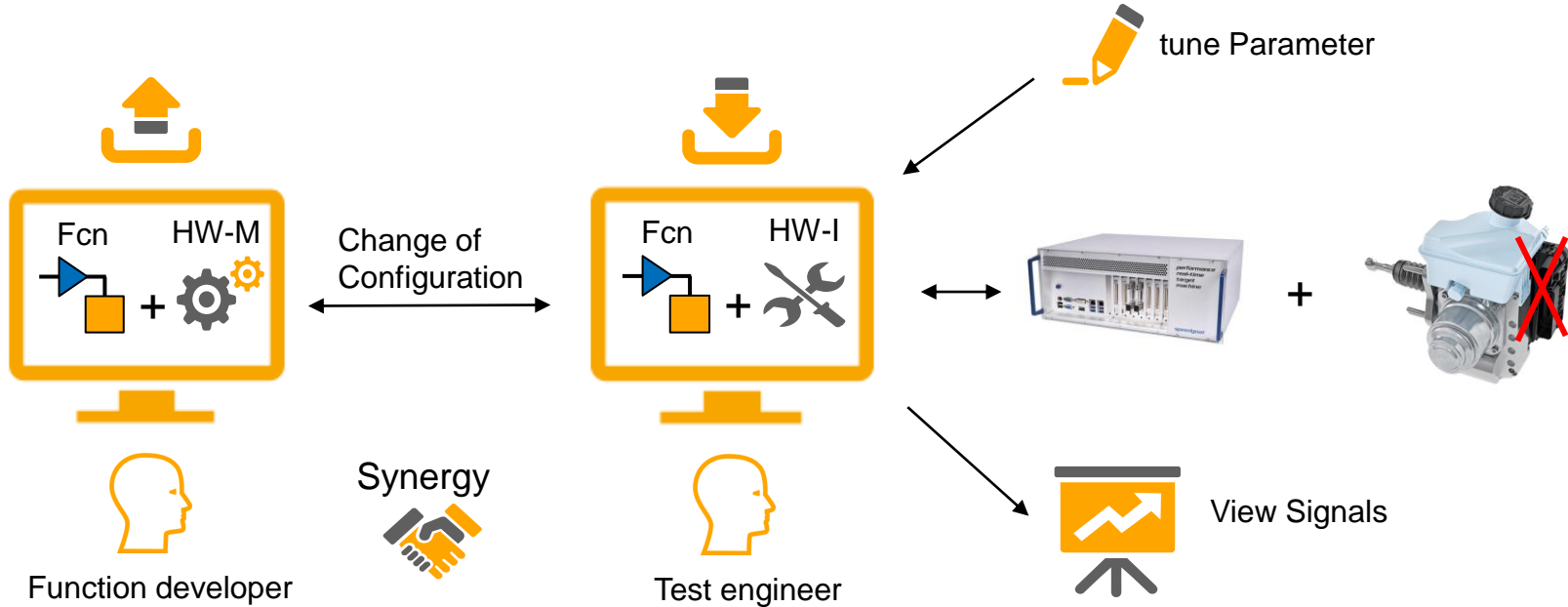
Development of a mechatronic system



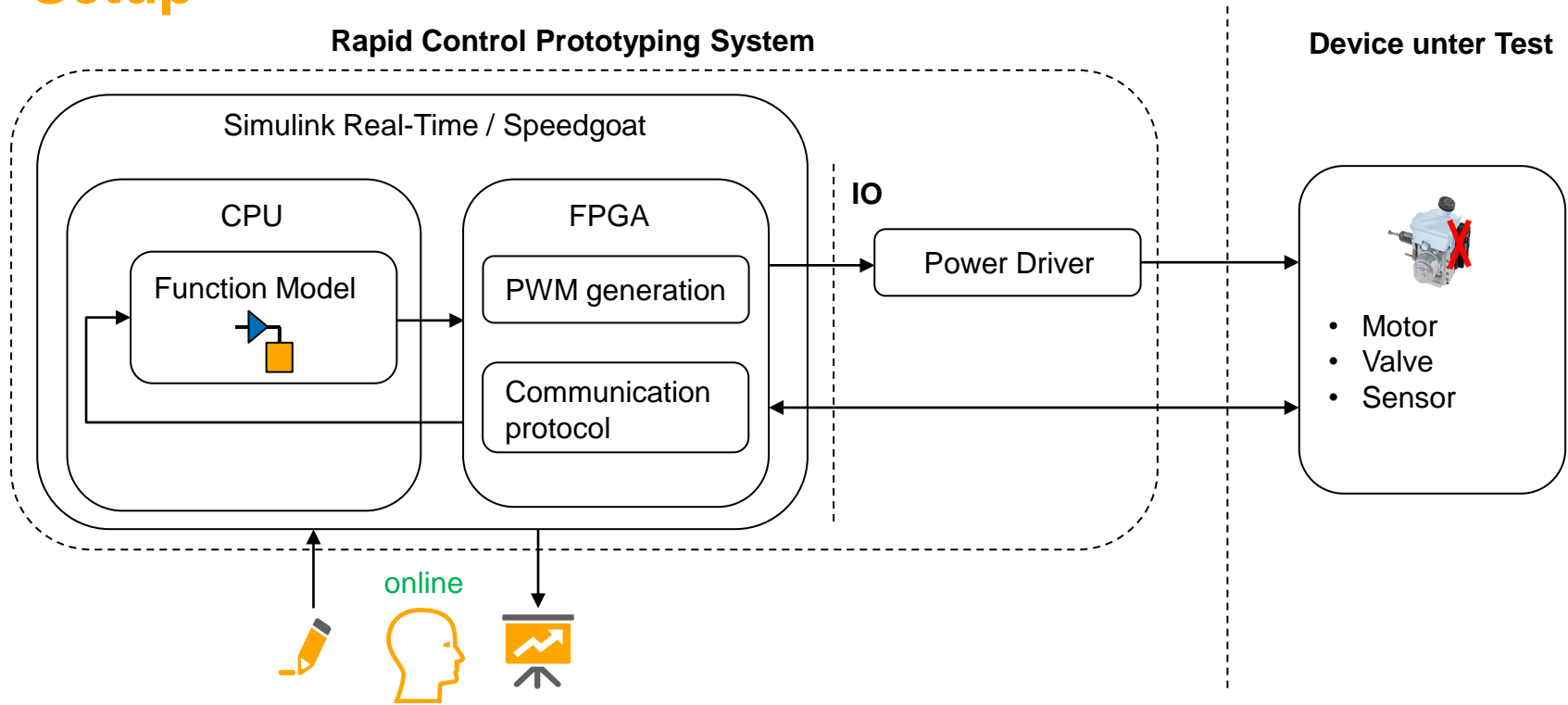
Development with Rapid Control Prototyping



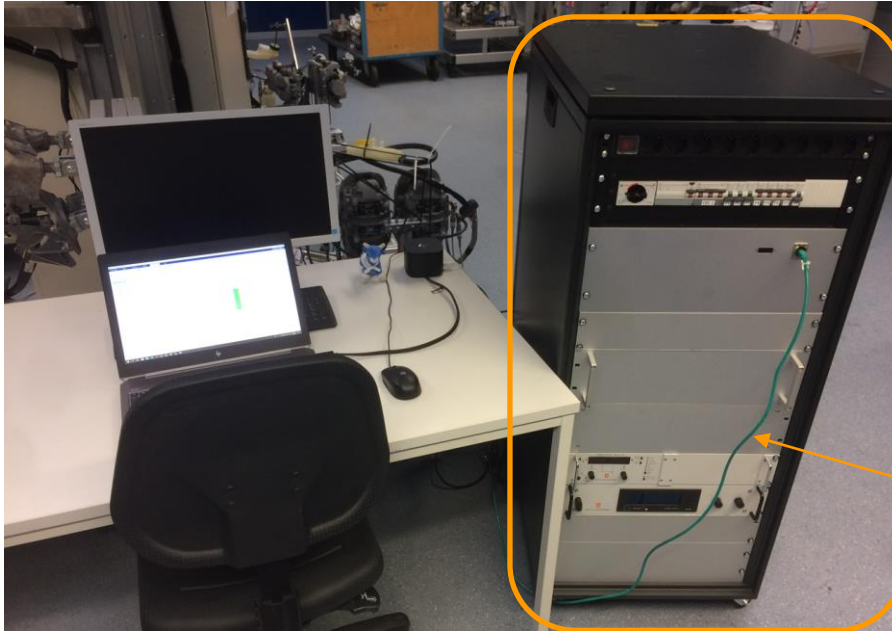
Workflow with Rapid Control Prototyping



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



Time savings

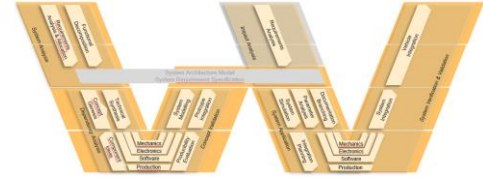
Outlook



Development of RCP System



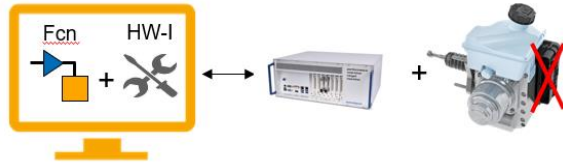
Duplication of RCP System



Integration of RCP into development process



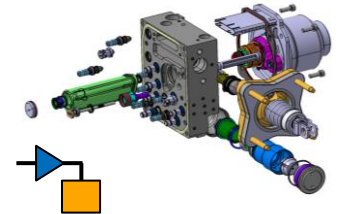
today



Proof of concept



Train Matlab Simulink



Use of RCP

