

The logo for Kineton features a stylized 'K' icon to the left of the word 'kineton'. The 'K' is composed of two overlapping triangles: a black one on top and a green one on the bottom. The word 'kineton' is written in a bold, lowercase, sans-serif font.



Engineering Company

Kineton is an engineering company that provides services and products.

Kineton assists clients in the creation and development of their products and solutions in some of the major technological domains, such as Media Television, ICT & Telco, Automotive.



Kineton



Connection to the Universities

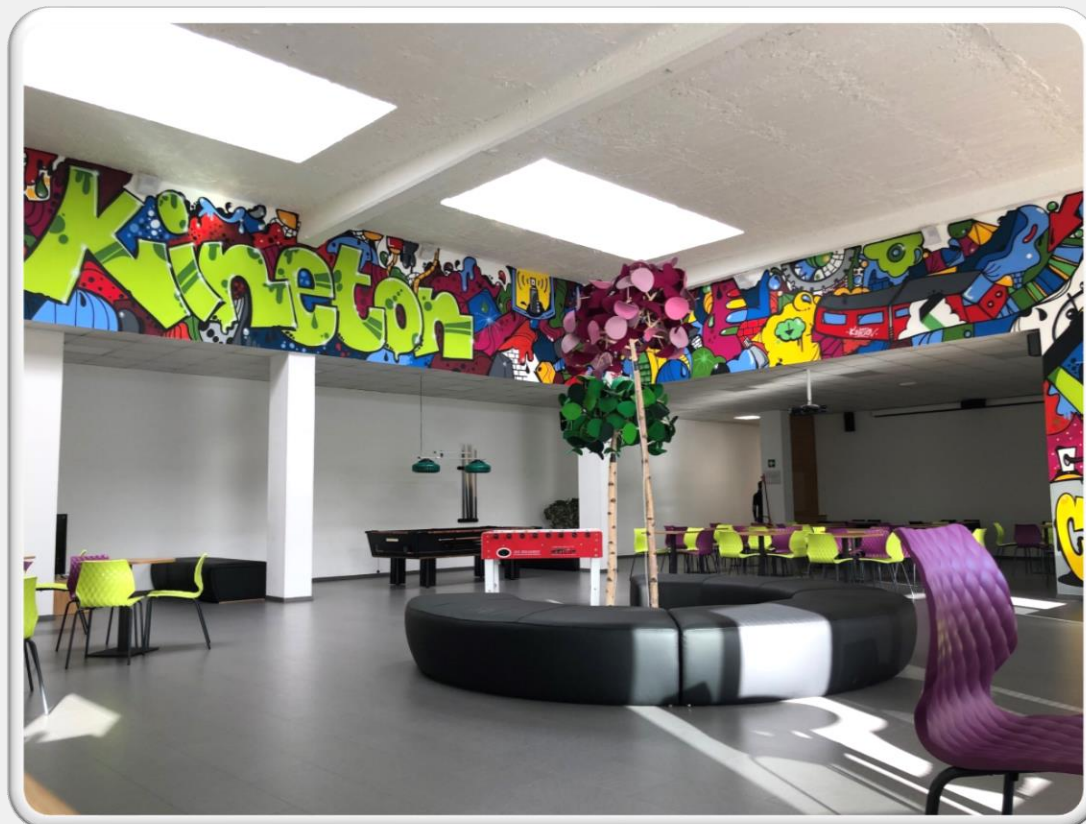
Kineton has relationships with some of the major Italian universities, and maintains a meaningful connection to the academic world. Academic preparation and skills play a key role for Kineton.

The Kineton Academy, fully supported by the company, prepares young resources for the world of business.

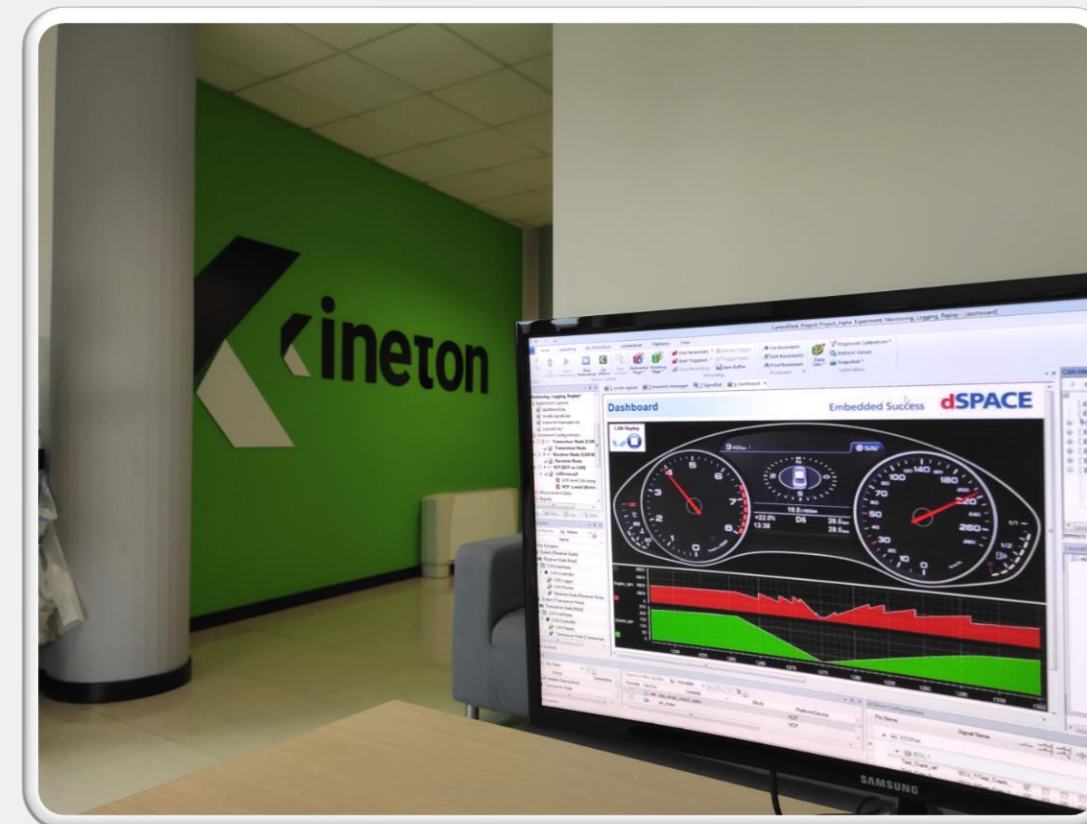




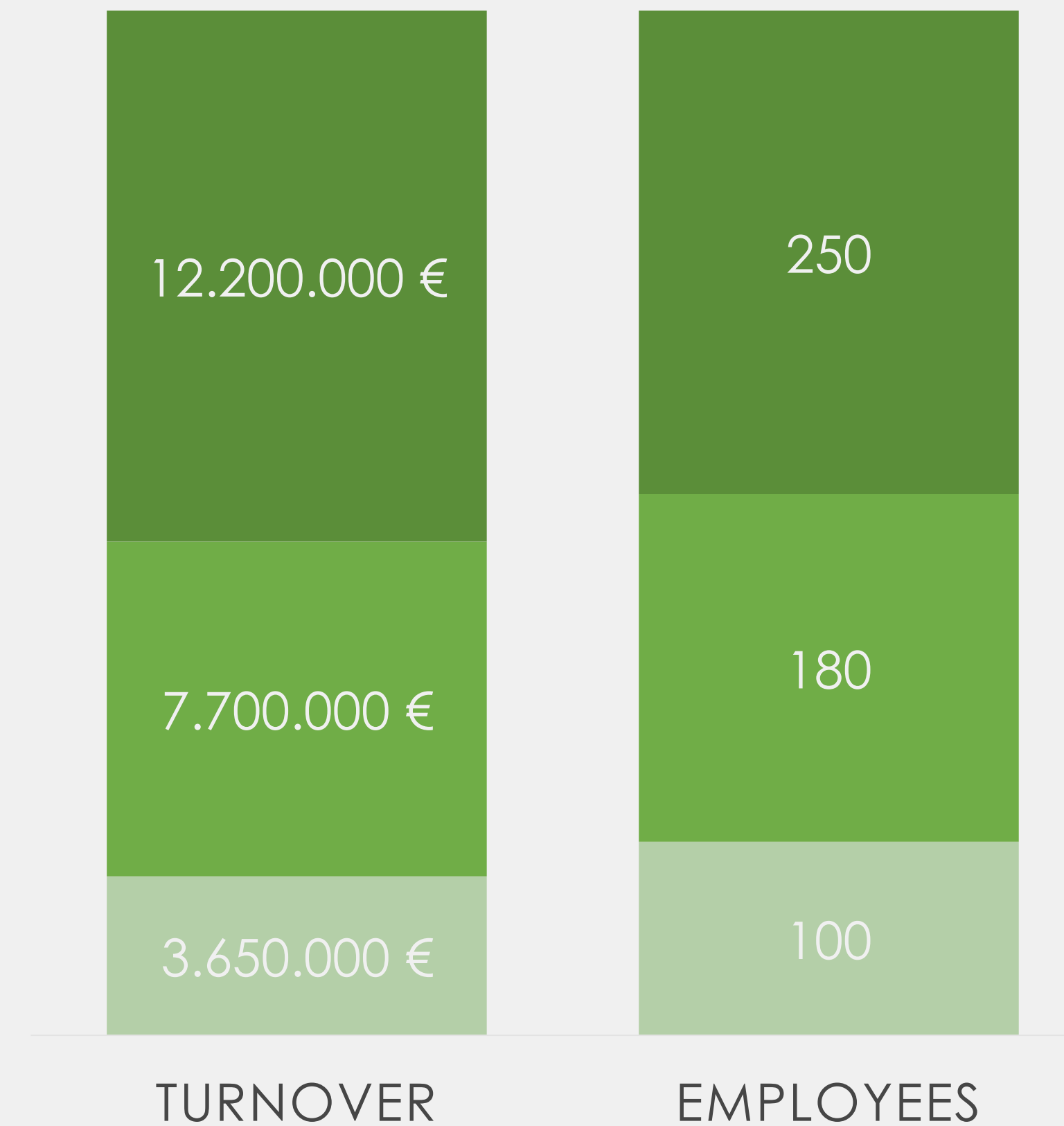
HEADQUARTER
Napoli



BRANCHES
Torino
Milano



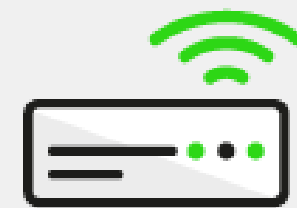
2017 2018 2019



Numbers

We are proud member of





MEDIA SOLUTIONS

Design and development of multimedia solutions on embedded systems for DTT, SAT, OTT, IPTV, SmartTV devices.



WEB & MOBILE SOLUTIONS

Design and development of web and mobile solutions.





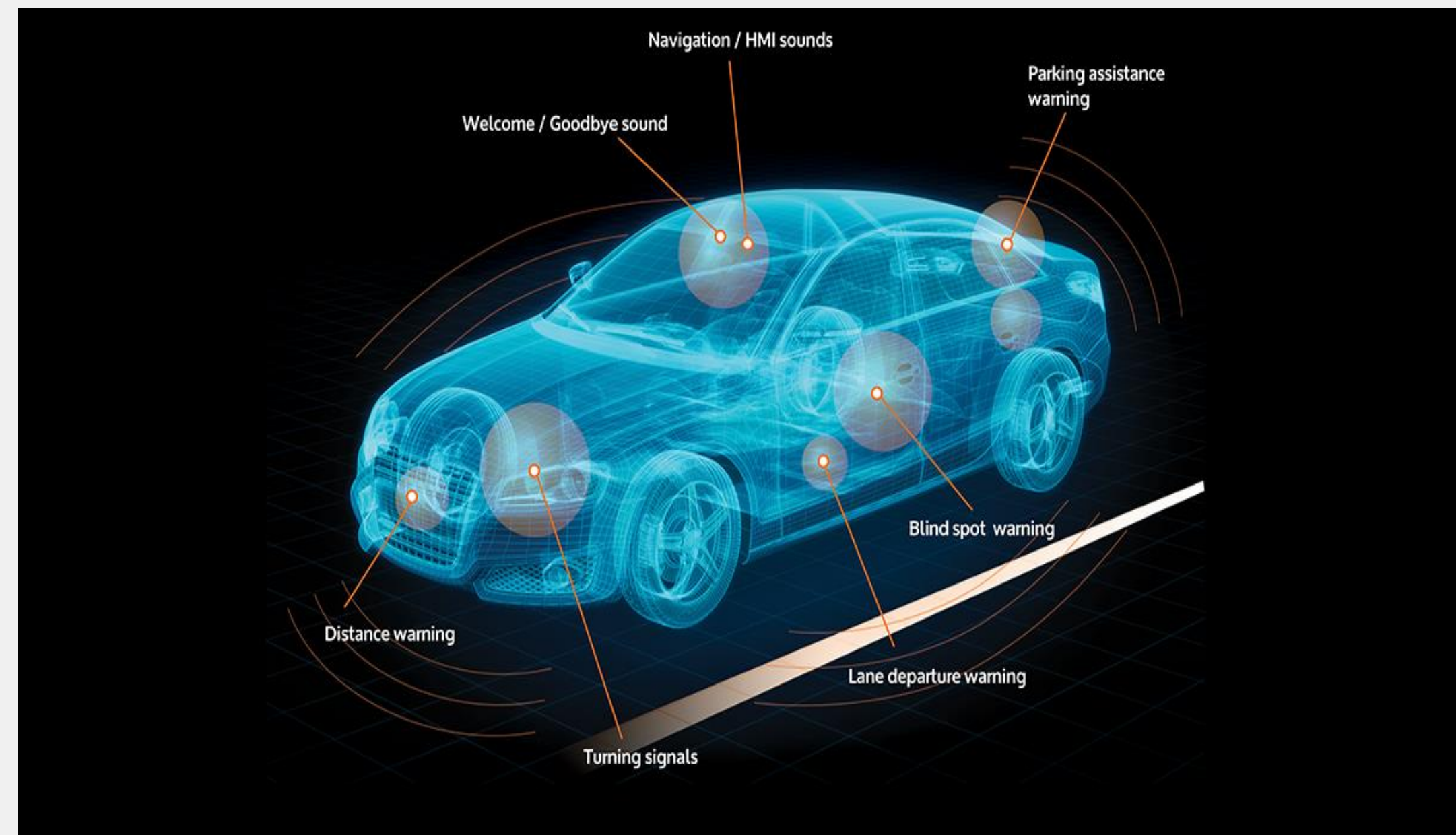
AUTOMOTIVE

Design and development of embedded software solutions
for Infotainment, Connectivity, Powertrain.



ADAS SYTSTEMS

Design and development of algorithms for autonomous
driving solutions.





AUTOMATION

Purposely designed automatic solutions for several environments: Scada System, Home Appliance, Electric Motor



R&D PROJECTS

KINECAR

“If you can dream, you can do it” [Walt Disney]





ENTERPRISE IT SOLUTIONS

Design and development of enterprise solutions for IT industrial aims.



AR\VR & IoT SOLUTIONS

Design and development of AR / VR / MR and IoT apps and integration with third part solutions.





Automotive Complexity Management





Automotive Control Strategies

Alone / EA6
FREE 6LACK

7:50

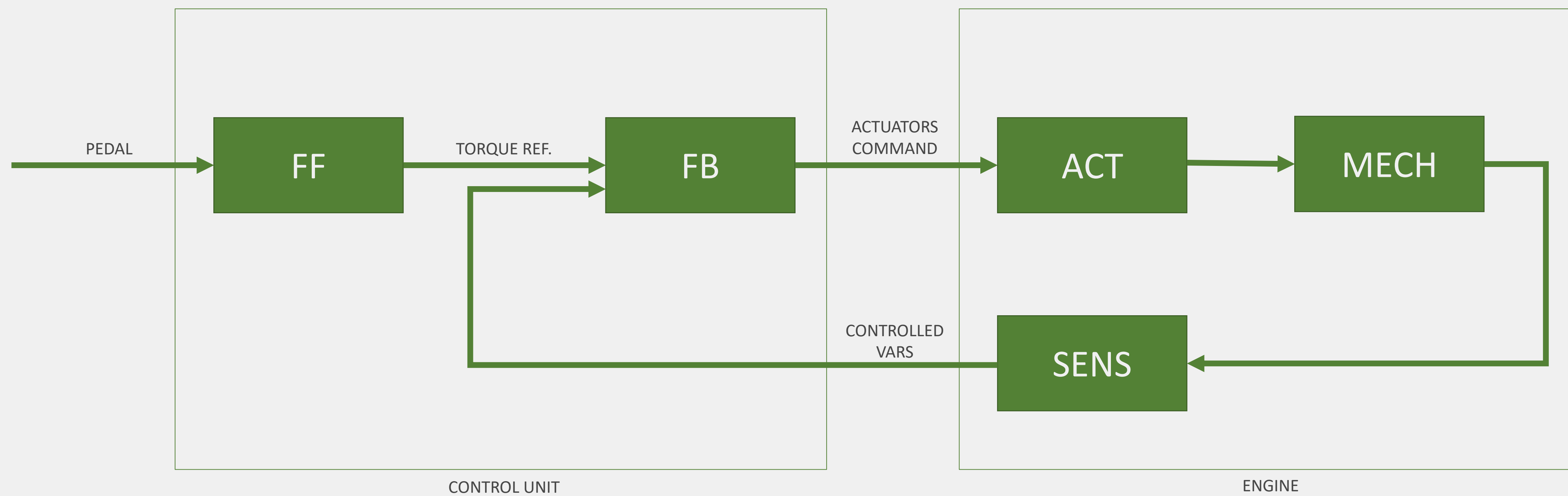
90.7

104.5

105.3-2



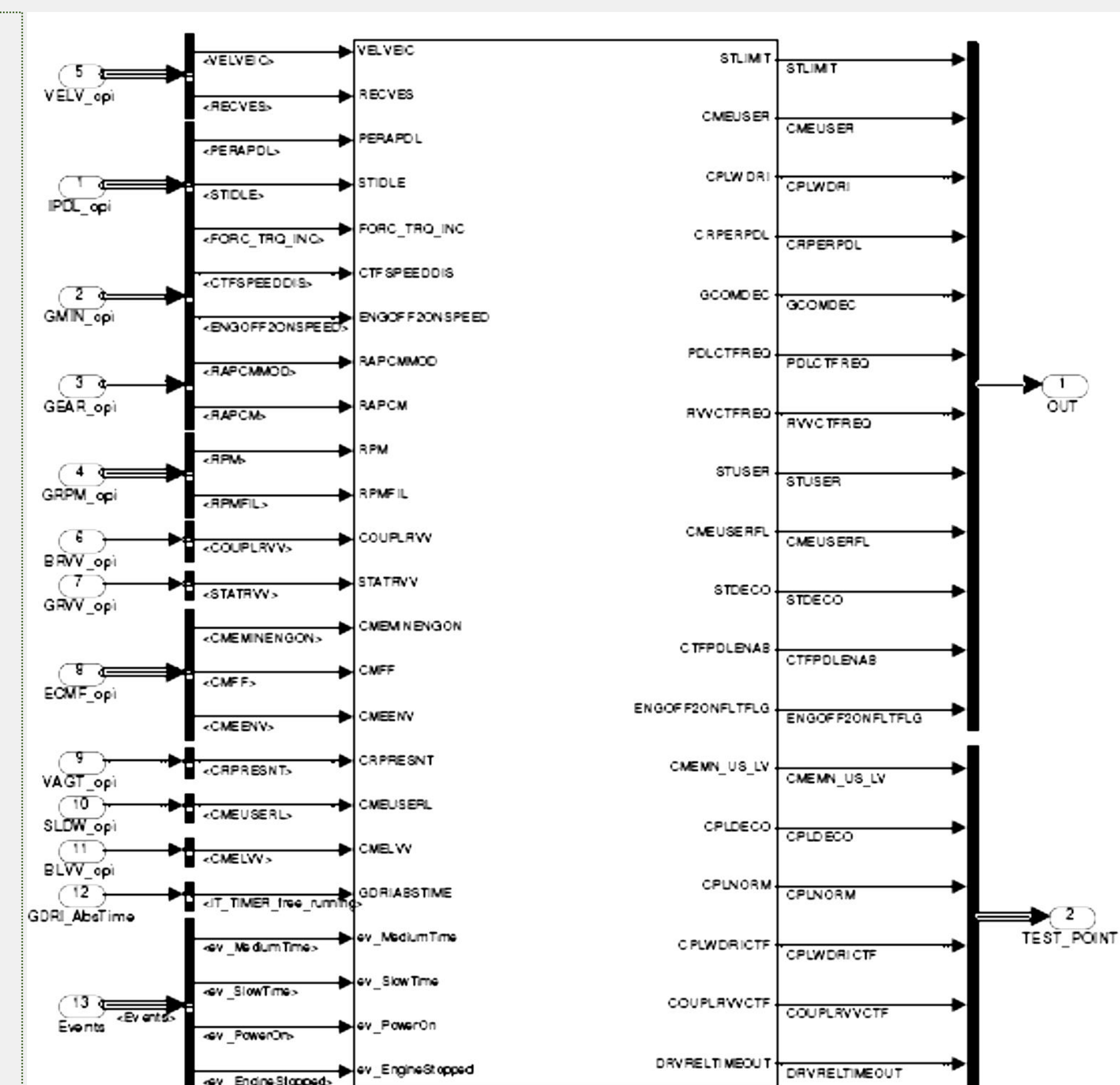
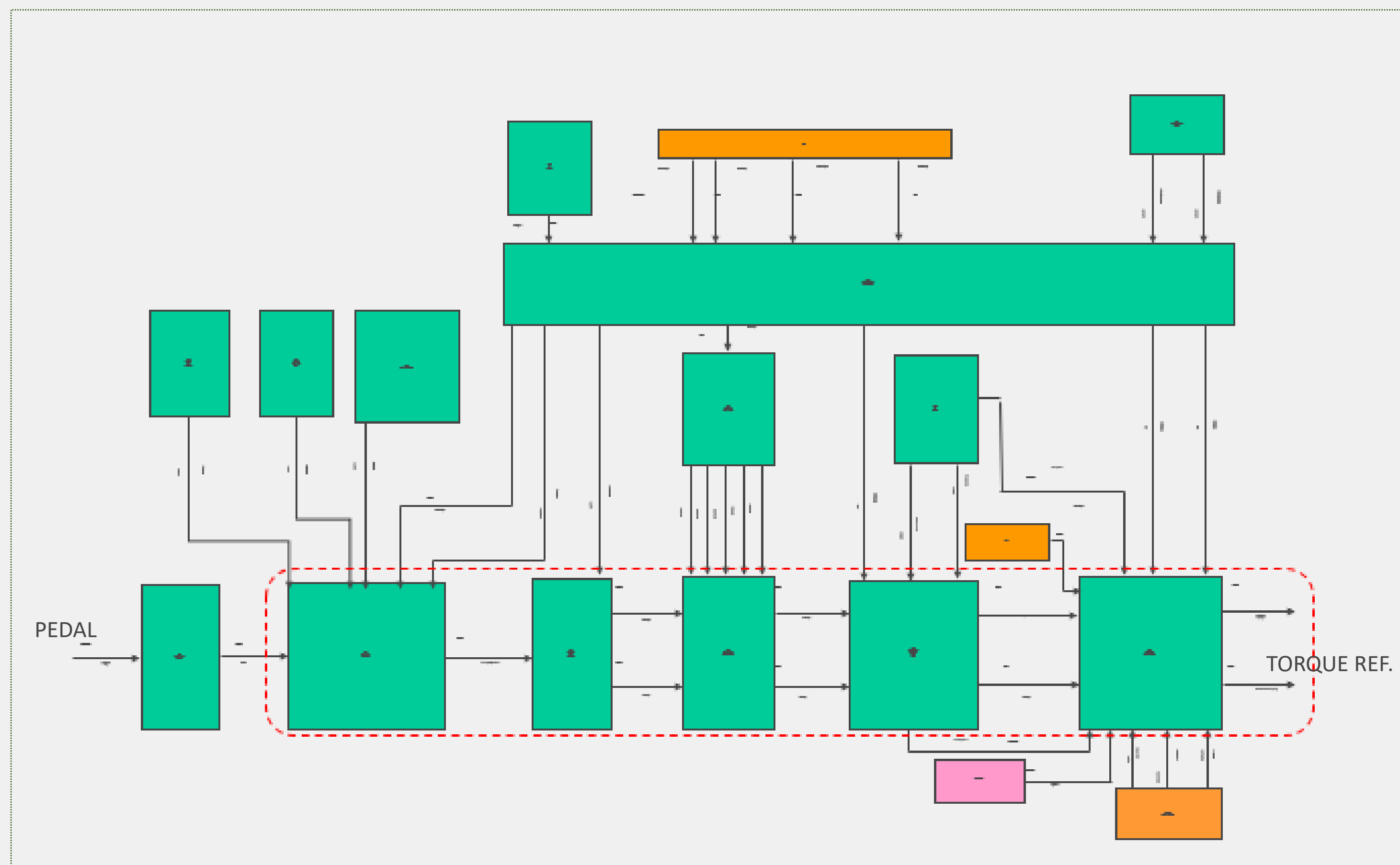
Theory



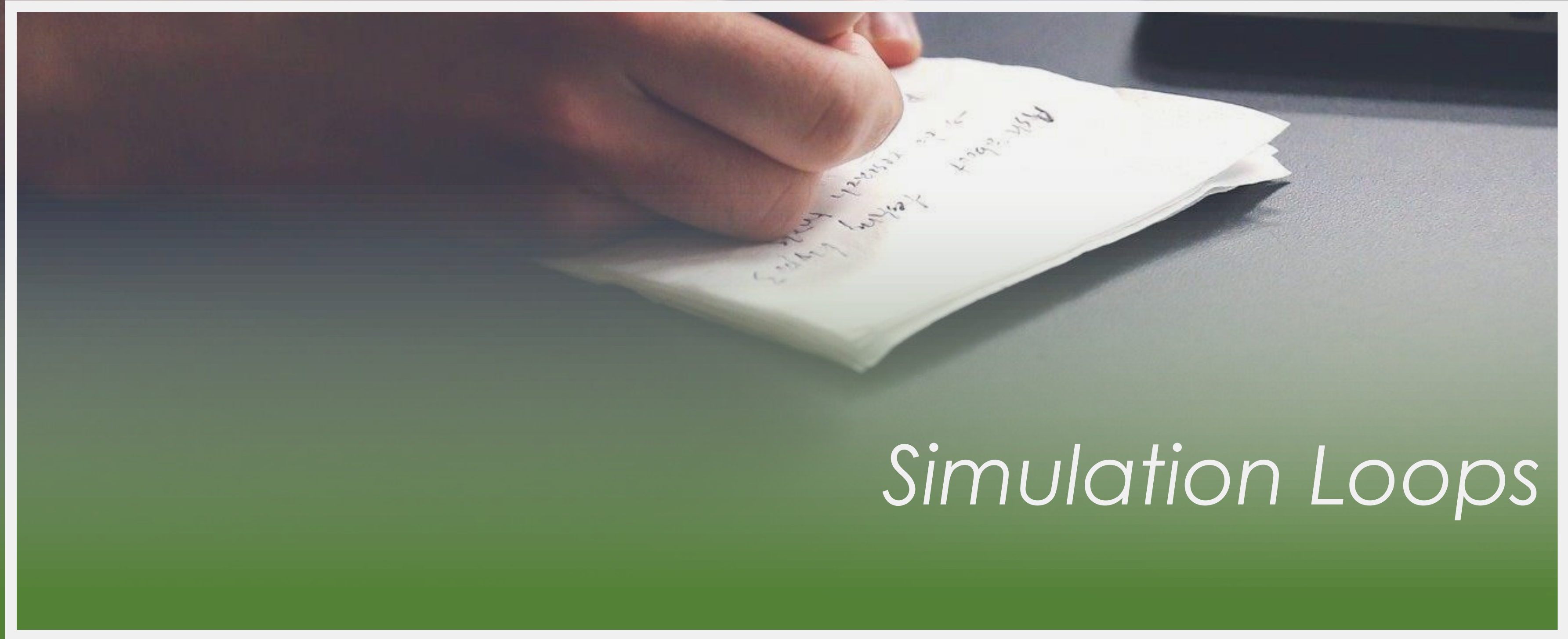


Reality

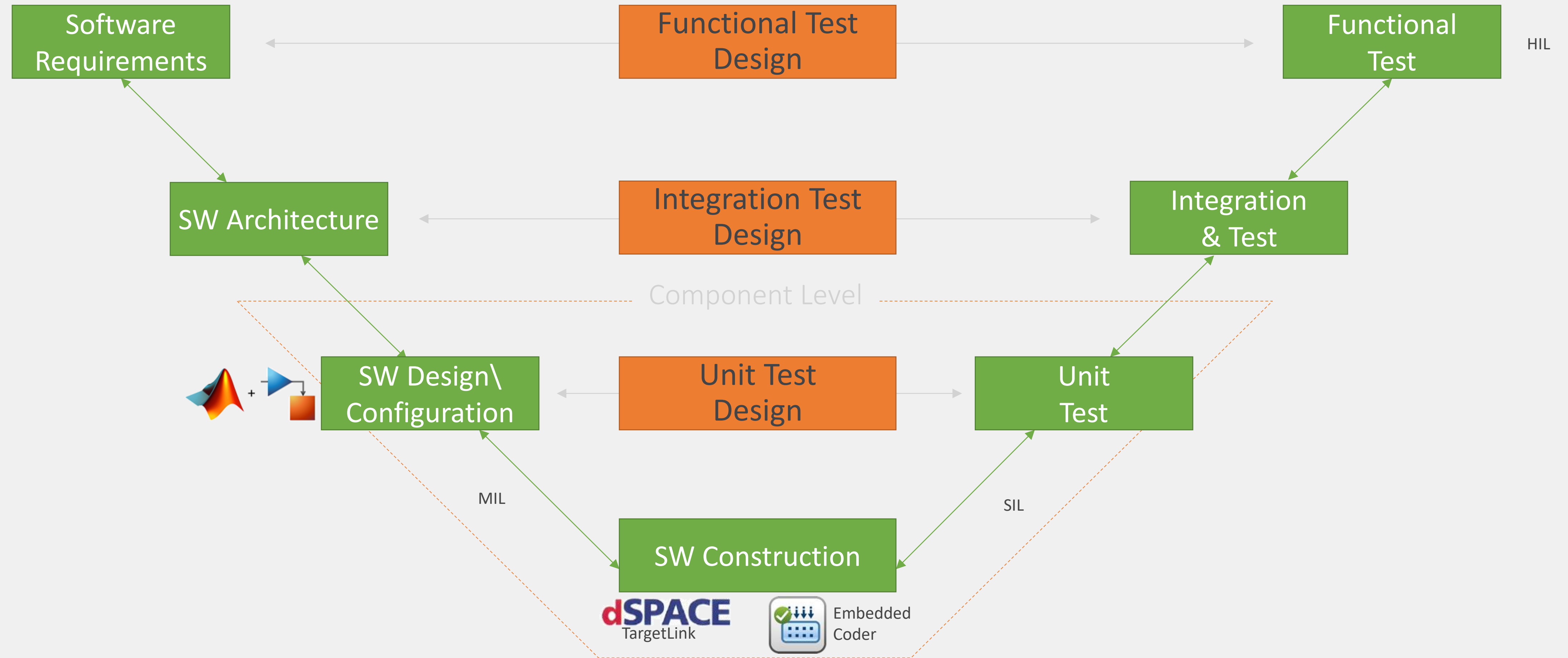
Internal combustion engine torque references calculation chain



e.g. a module for the one SWC code generation with more than 50 I/O interfaces!!!



Simulation Loops





Low Level Design

Implementation

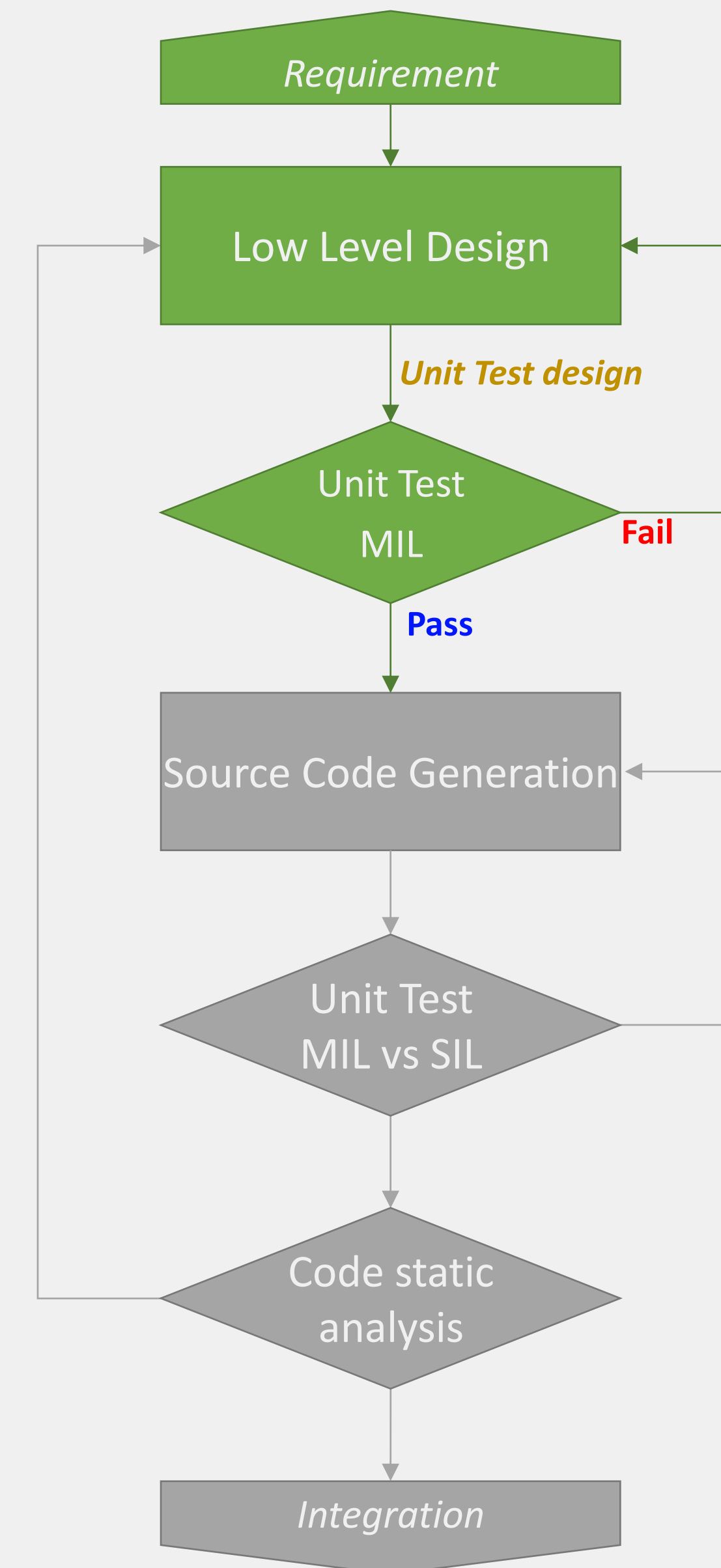
- Model construction in MATLAB/Simulink/Stateflow
- Check of Modeling and coding rules with Model Advisor - i.e. MAAB and MISRA-C coding standard
- Bi-directional links requirements $\leftrightarrow$ model

Testing

- MIL verification
- Unit tests design (test pattern definition)
- Bi-directional links requirements $\leftrightarrow$ test
- Model coverage (execution, decision...)

Documentation

- SWC Low Level Design diagram
- Requirements traceability report

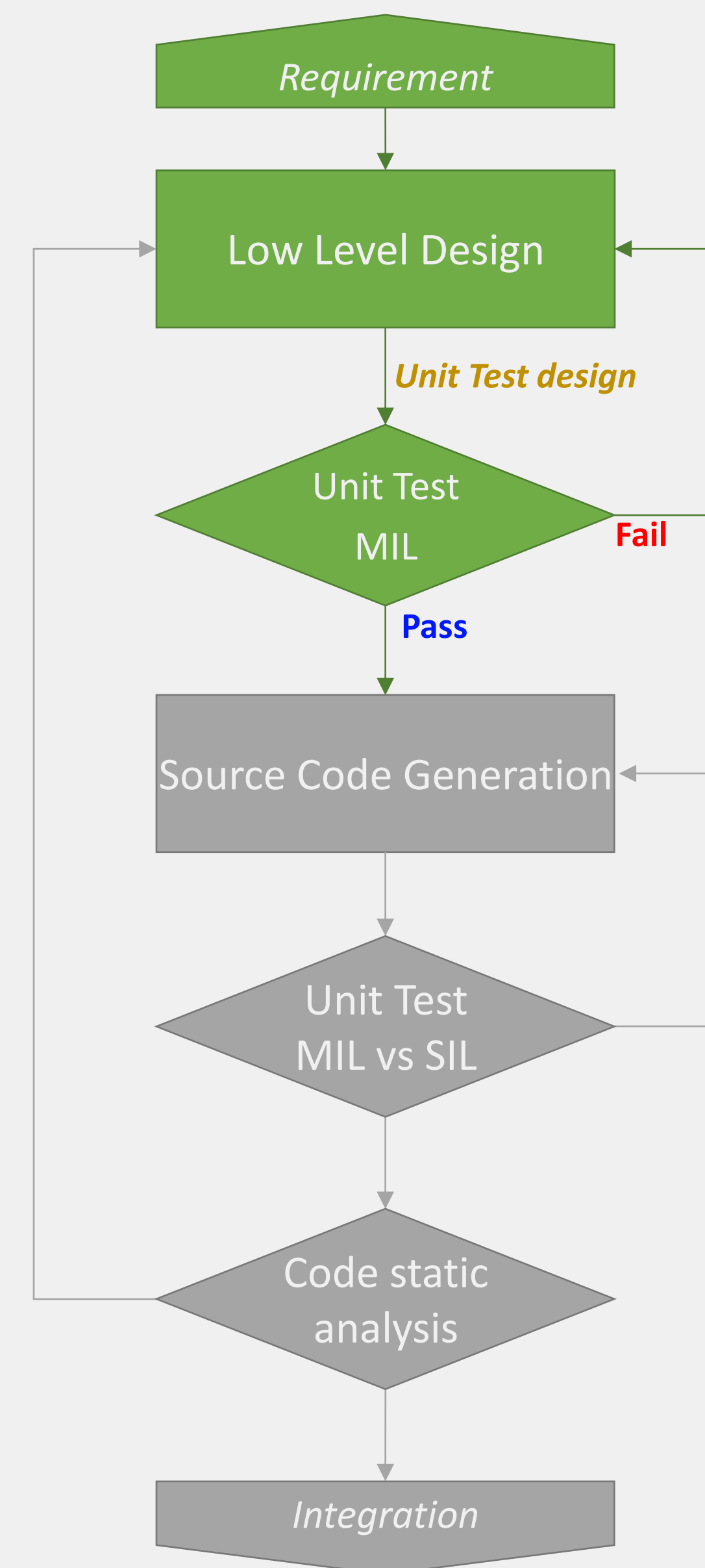
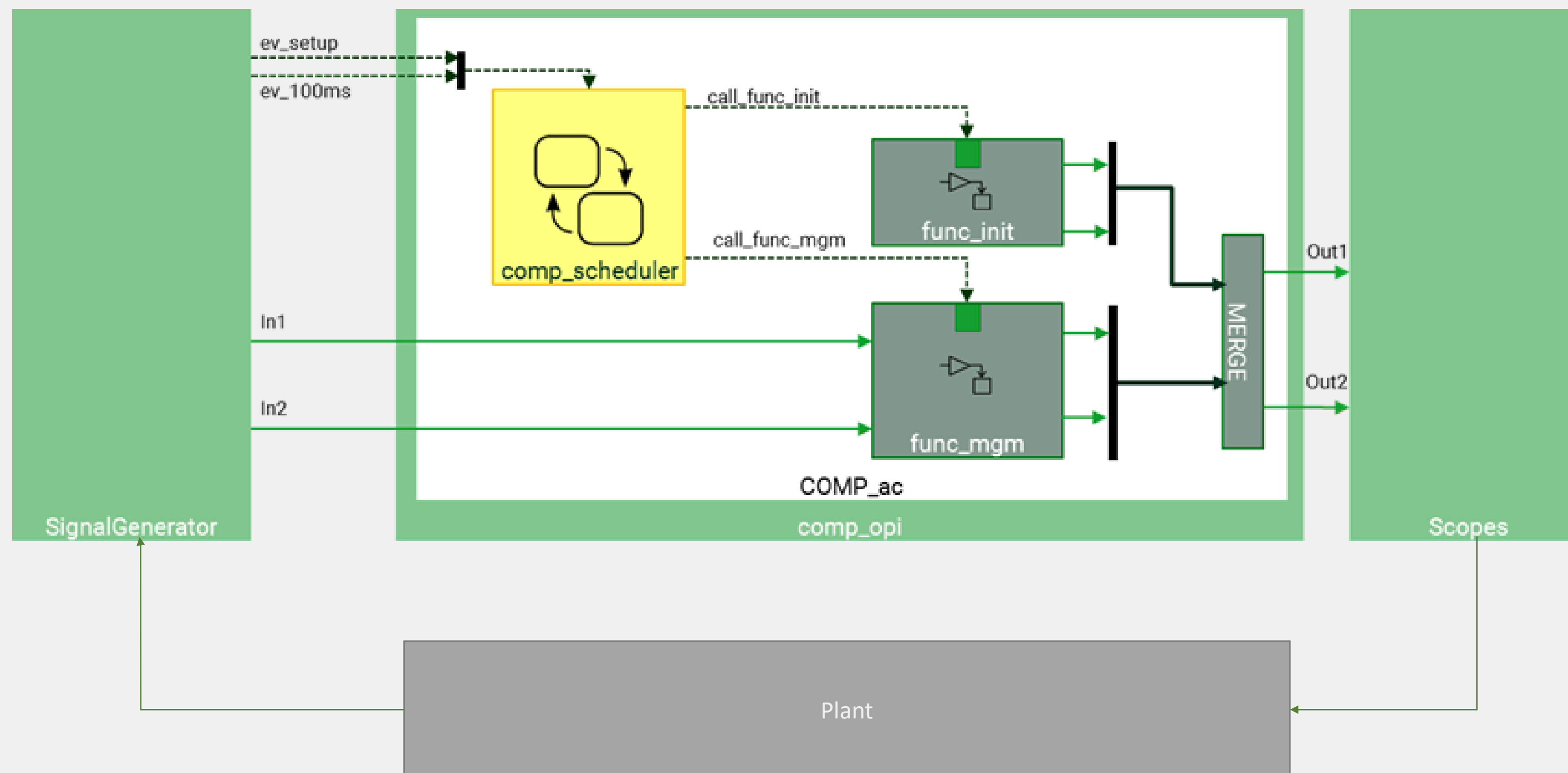




Low Level Design

Implementation

- Model construction in MATLAB/Simulink/Stateflow

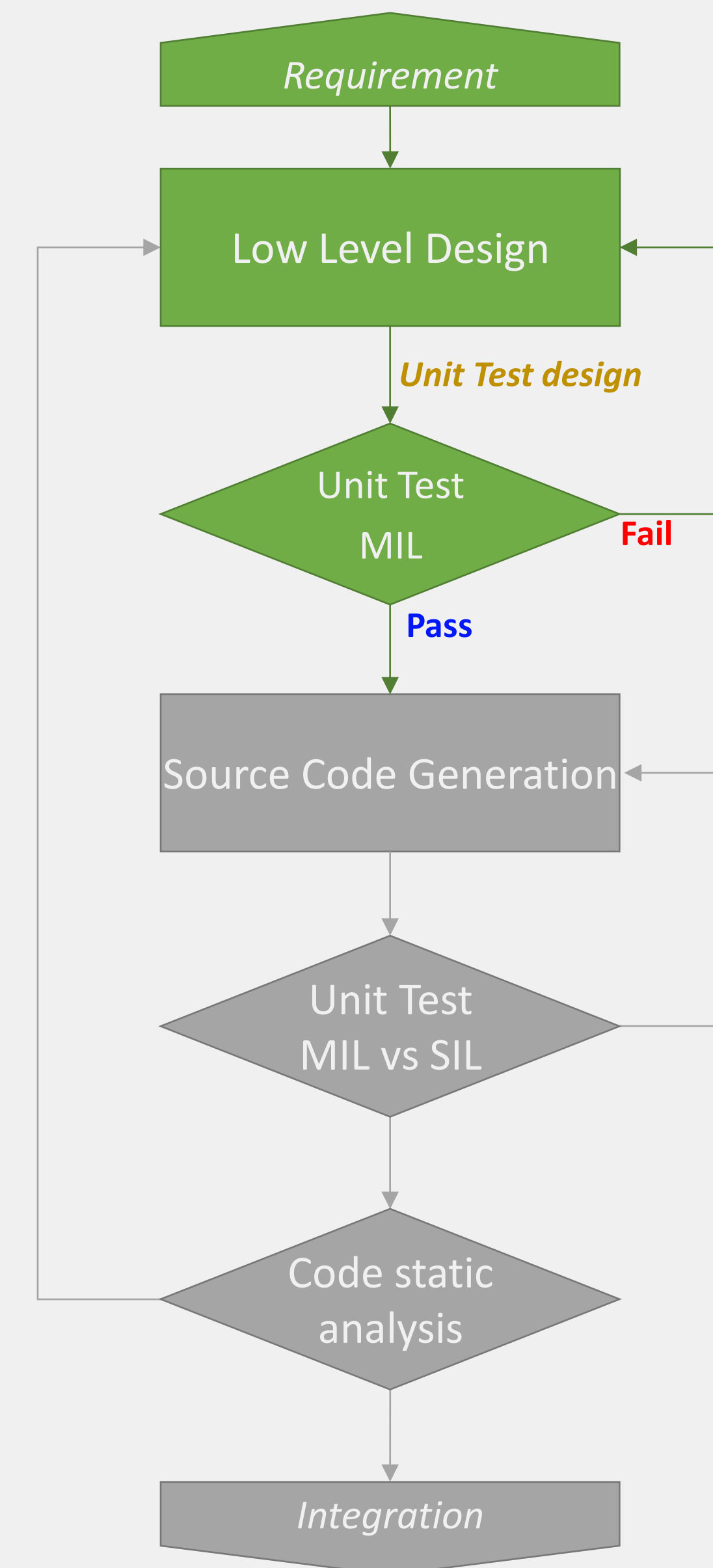
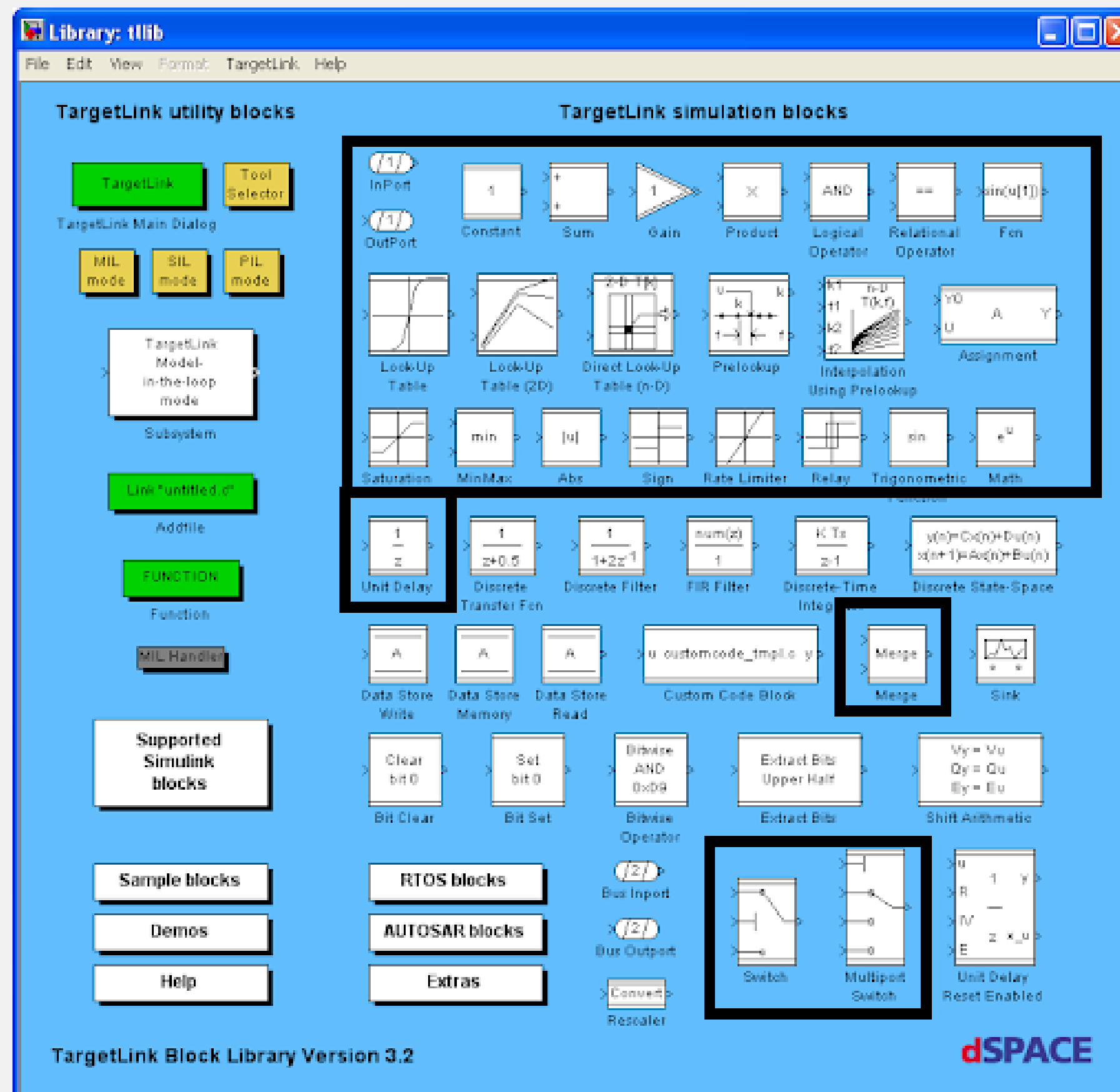




Low Level Design

Implementation

- Model construction in MATLAB/Simulink/Stateflow





Code generation

Configuration

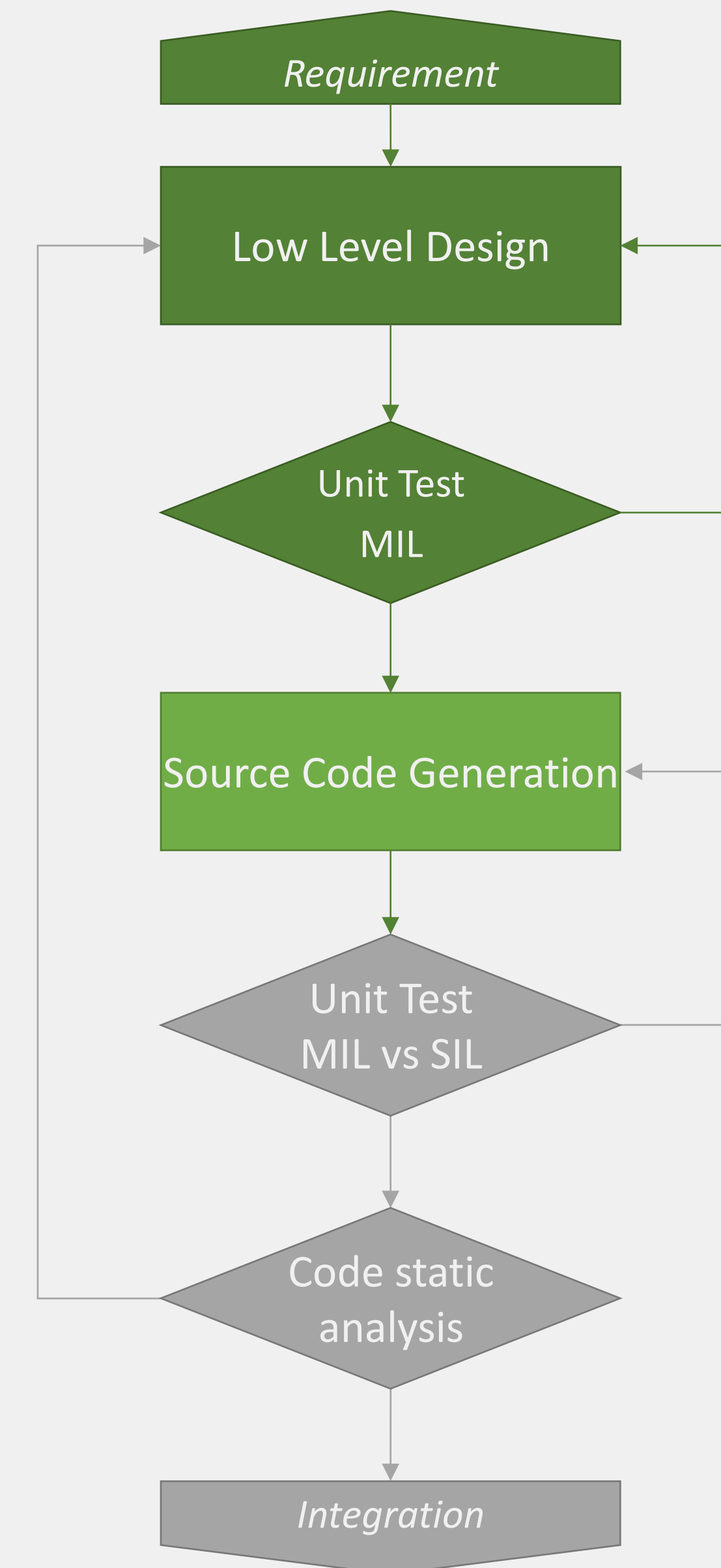
- Embedded real-time code generation parameters configuration (if needed)

Code

- Mathworks Embedded Coder data dictionary objects
- Autogeneration of source code by using ERT engine
- Generated code inspection by using model navigator
- Bi-directional traceability model $\leftrightarrow$ code

Documentation

- Software Detailed Design diagrams





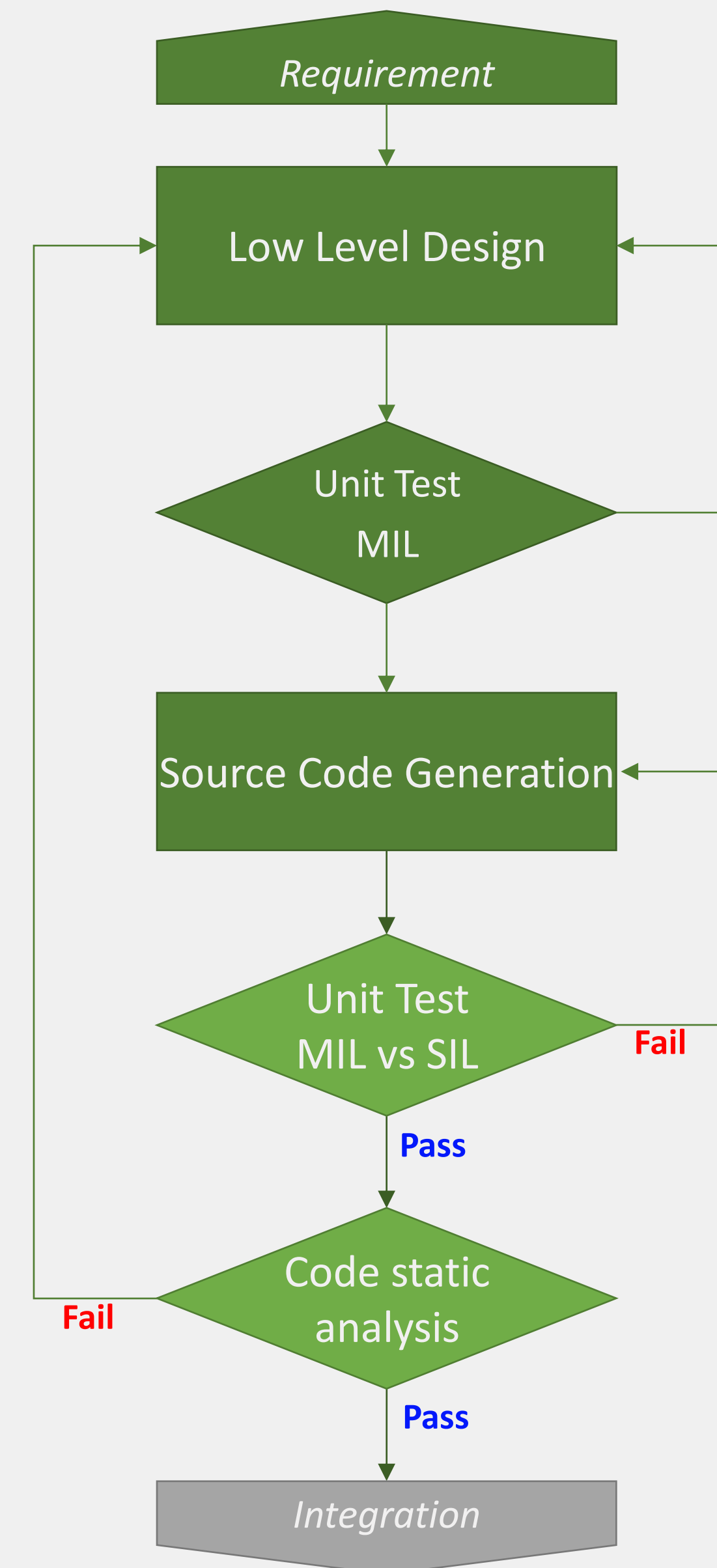
Unit tests

White-box tests

- Software in the loop VS Model in the loop
- SIL coverage analysis
- Static analysis
- MISRA C 2012 level 5 (Safety relevant)
- Bi-directional traceability model $\leftrightarrow$ test

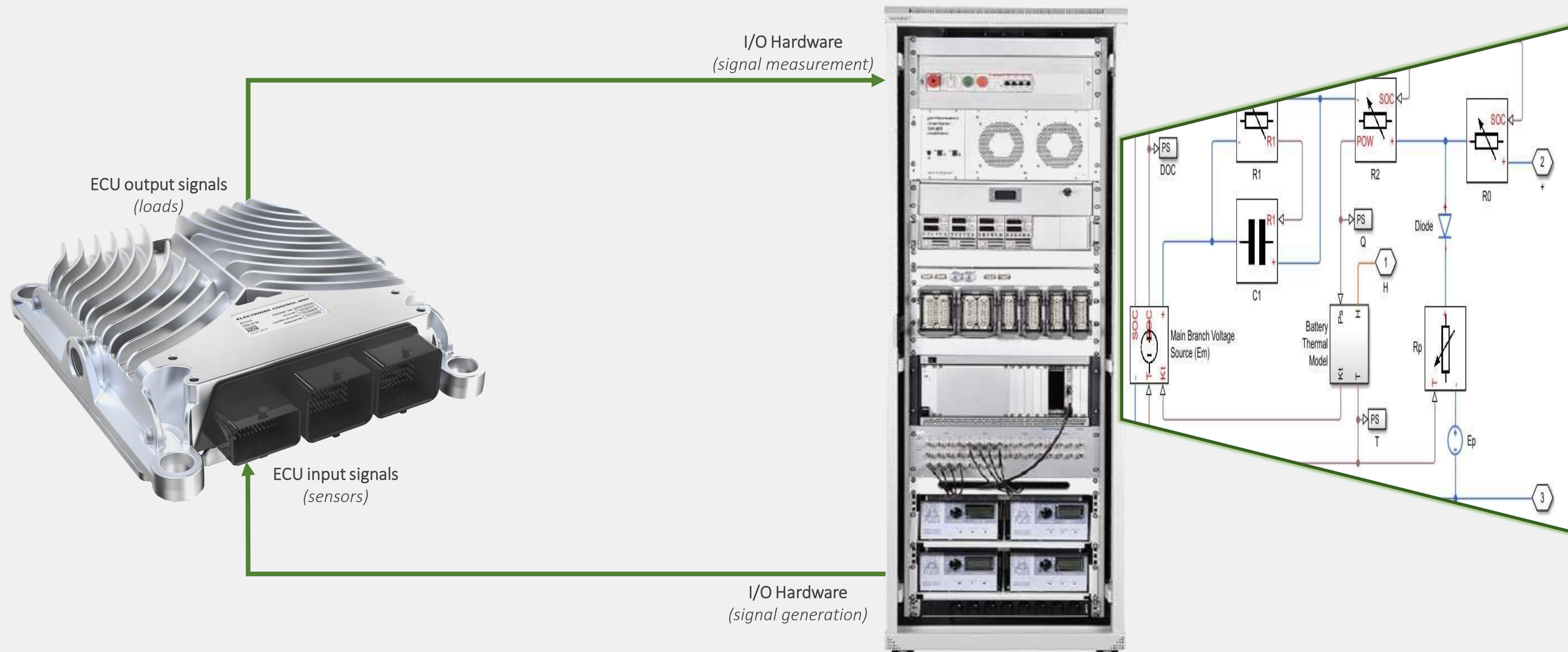
Documentation

- Test reports





Hardware in the loop





Alone / EA6
FREE 6LACK

7:50

90.7

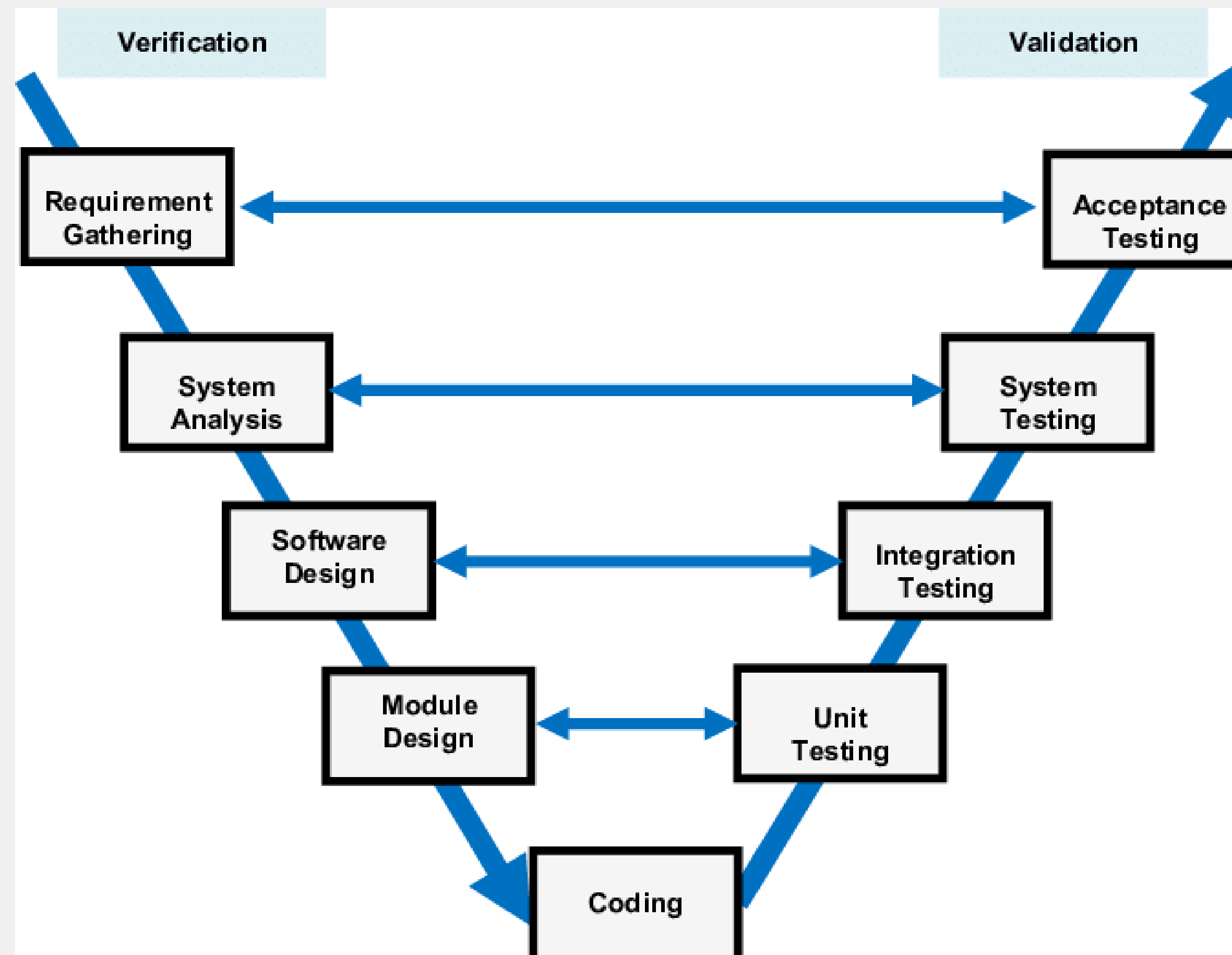
104.5

105.3-2

V-Cycle



Type “V-cycle” in Google Images: *I’m feeling lucky*





Type “V-cycle” in Google Images: *I’m feeling lost*

Tutti

Immagini

Shopping

Notizie

Video

Altro

Impostazioni

Strumenti

Raccolte

SafeS

en 50126

systems engineering

model

software testing

validation

automotive

iso 26262

product development

verification

V-Model life cycle for the automotive software te...
researchgate.net

ISO 26262 V-cycle Development Process. | Download Scien...
researchgate.net

Software Development Life Cycle - V ...
pinterest.com

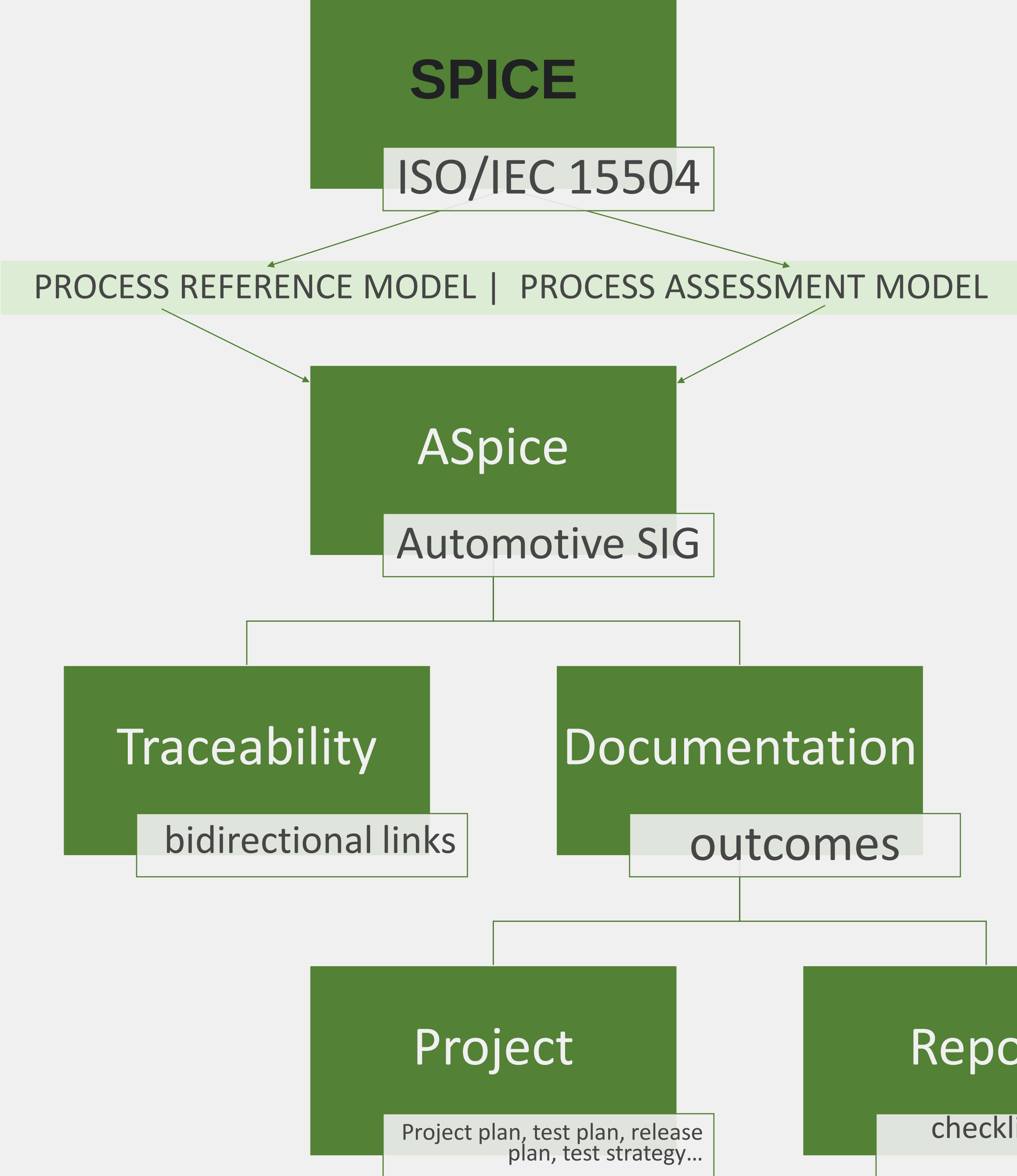
Essential aspects of the V-cycle software de...
x-engineer.org

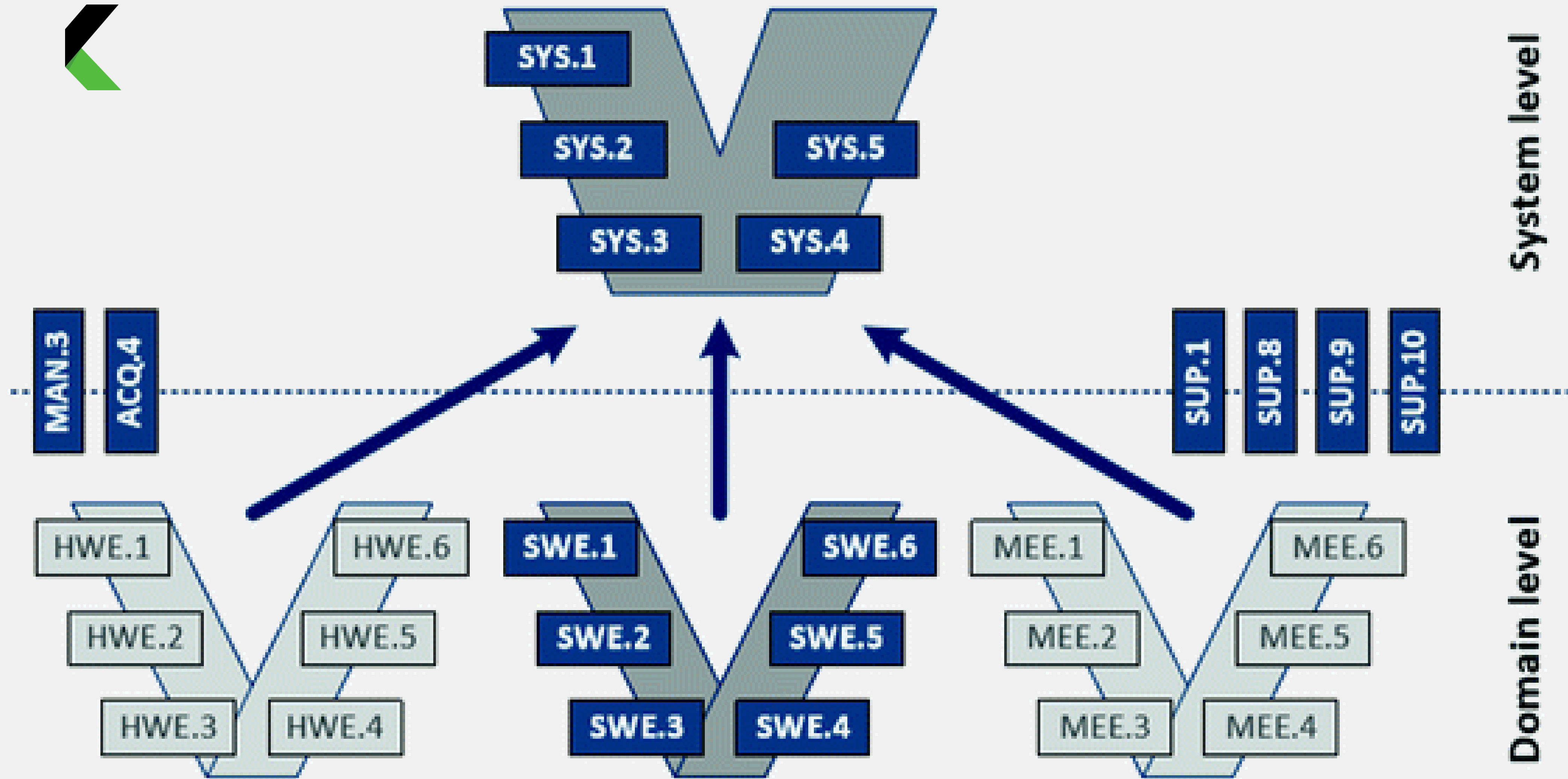


A-SPICE



ISO/IEC 15504 *Information technology –
Process assessment, also termed **Software
Process Improvement and Capability
Determination (SPICE)***





SYS : System engineering
 SWE : Software engineering
 HWE : Hardware engineering
 MEE : Mechanical engineering

VDA scope as part of Automotive SPICE 3.1 PRM/PAM

Exemplary processes for other domains, neither developed by VDA nor part of Automotive SPICE PRM/PAM



Thesis@Kineton



Argomenti tesi ✉ automotive@kineton.it

ADAS

- Realizzazione di un sistema di mantenimento della corsia (Lane Keeping System);
- Progettazione ed implementazione di un sistema di obstacle avoidance per veicoli terrestri;
- Progettazione ed implementazione di un sistema di "Adaptive Cruise Control";
- Progettazione ed implementazione di un sistema di frenata d'emergenza;
- Sviluppo di sistemi cooperativi basati sulla comunicazione veicolo-veicolo e veicolo-infrastruttura

HIL

- Sviluppo di una On board diagnosis wireless interface
- Sviluppo modelli simulatore BEV/PHEV, BMS, EM Cotrollers, ecc...

MBD

- Funzionalità avanzare Kinecar IPC

KINETON s.r.l.



automotive@kineton.it



Via E. Gianturco 23, 80146 – Napoli



+39 081 18639910

