

# FEV Signature Solutions

## Systems Engineering – CUBE

### Providing you with a Backbone for Modern Systems Engineering for Cyber-Physical Solutions

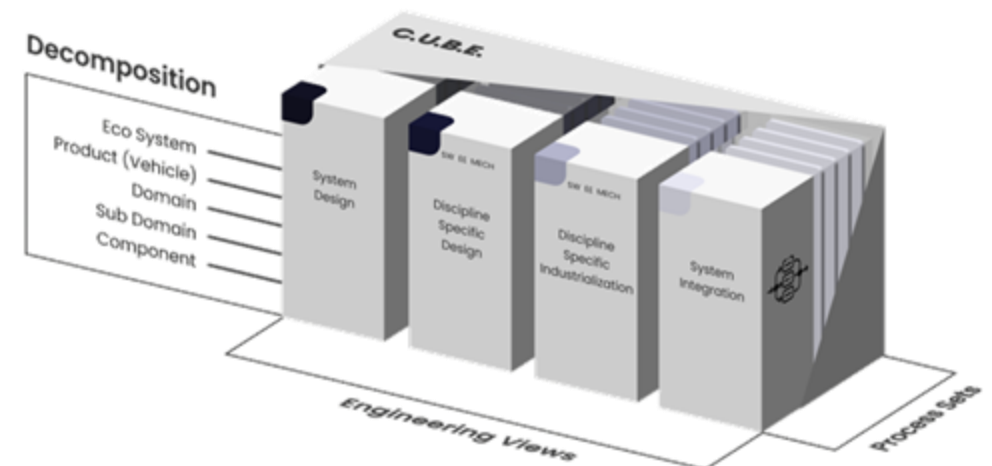
#### FEV offers

- **End-to-End Systems Engineering Excellence:** From vision to SOP. CUBE ensures clarity, traceability, and speed – with integrated toolchains (ALM/PLM, modeling, development/simulation, V&V, variants).
- **Beyond the V-Model: CUBE extends the V-Model:** Develop in parallel, reuse artifacts, integrate seamlessly – fewer late-stage errors.
- **Cross-Industry Applicability:** For Automotive, Aerospace, Energy, Rail, and Defense. Meets safety, security, and quality standards while driving innovation.
- **Training & Consulting for MBSE:** Training and consulting on MBSE and CUBE – building a shared, practical engineering language.
- **Tailored Processes for AI-Ready Engineering:** Tailored processes improve efficiency and quality, a solid foundation to scale AI in development.

CUBE = **C**ompositional **U**nified System-**B**ased **E**ngineering,  
FEV Signature Solutions – v20251010

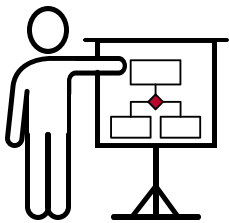
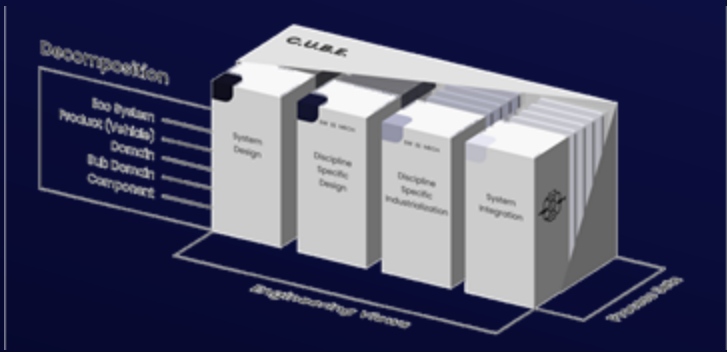
### Why FEV

- Our Engineering Backbone 'CUBE' is our USP that sets us apart. OEMs and Tier1s around the world value us for our holistic approach for +10 years.
- We deployed CUBE in +100 series production- and research projects showcasing our abilities and share this on established conferences.
- Our whole organization embeds CUBE in daily operation. Thereby we boost clarity, reuse of work and alignment in our teams.



# Reference projects

## SYSTEMS ENGINEERING



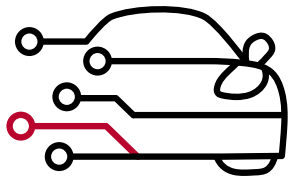
### Process & Method Consulting

(in systems engineering incl. MBSE & requirements management )



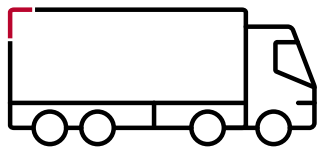
### Requirements & Architecture Management

(model-based systems engineering operationalization and method development)



### Software-defined Vehicle

(strategy development & organizational establishment)



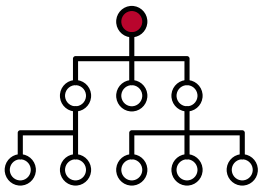
### Full Scope Systems Engineering roll-out

(model-based approach for cross-discipline development at truck OEM)



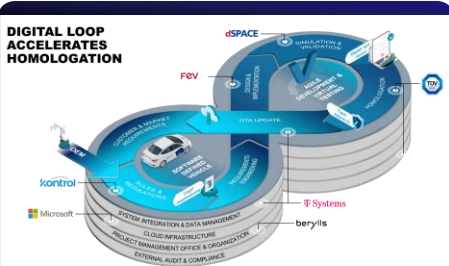
### Automated Testcase Generation

(model- & scenario-based testcase derivation on vehicle level for ADAS )



### Variant Management incl. full traceability

(model-based systems engineering for autonomous driving system)

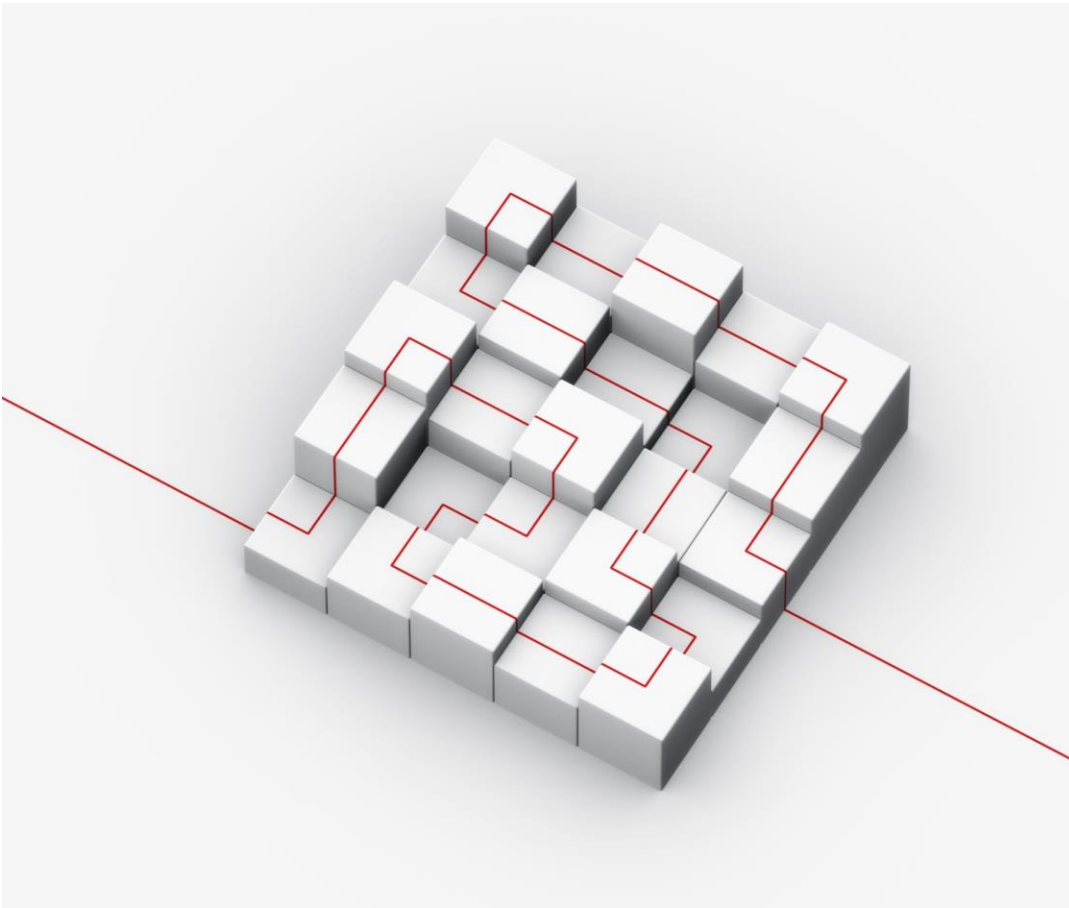


### Digiloop (see [Webpage](#))

(transformation of traditional, physical vehicle testing into sophisticated, virtual platform)

# Structured engineering and reusable work products help to reduce development costs

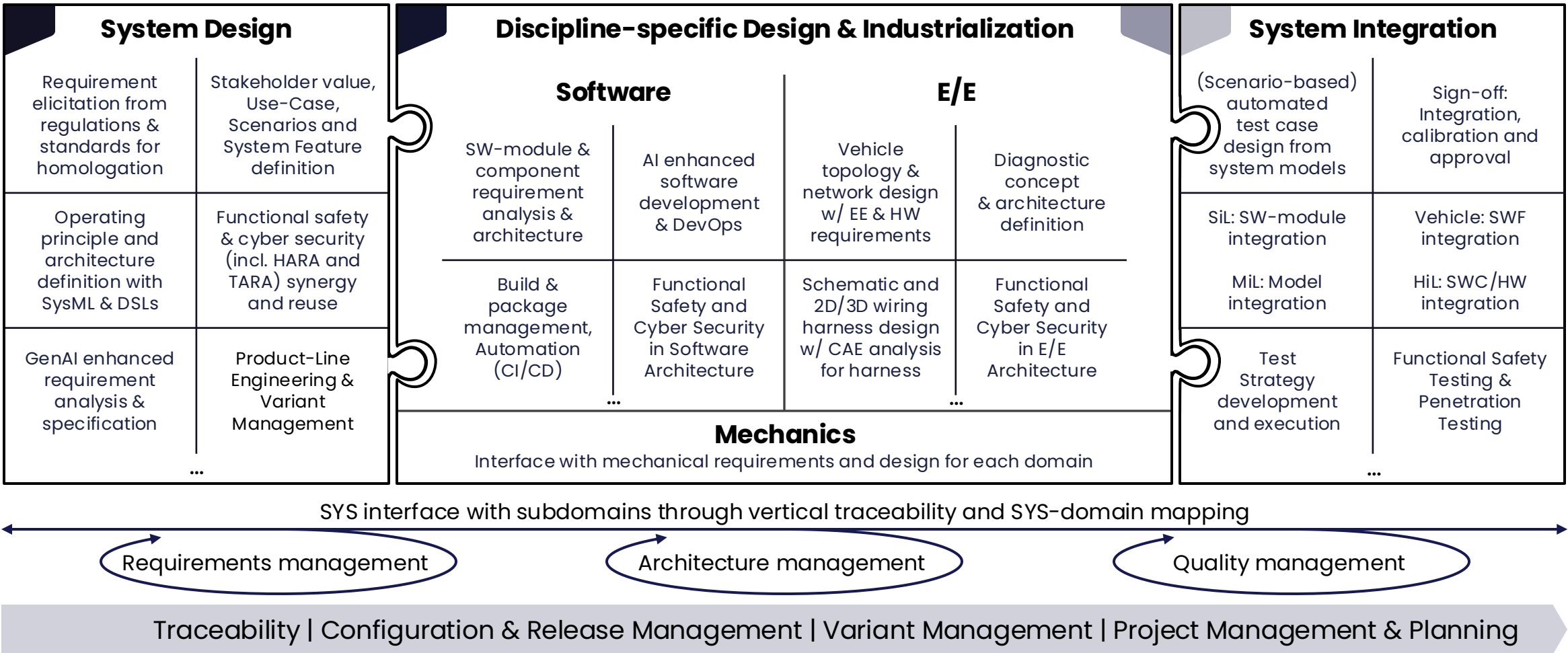
SYSTEMS ENGINEERING AS BASE OF INTERDISCIPLINARY PRODUCT DEVELOPMENT



|                                                   |                                                                                                                                               |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Comprehensive systems engineering backbone</b> | Every development target is locatable in CUBE structure to secure the same MBSE approach for mechanical, E/E, and SW development              |
| <b>Safe &amp; secure engineering</b>              | Seamless integration and reuse of required artifacts & processes of functional safety, cyber security and SOTIF                               |
| <b>Effective project organization</b>             | Effective project organization eases artifact planning, allocation of responsibility and harmonisation of processes, interfaces and artifacts |
| <b>Transformational character</b>                 | Application of CUBE eases the transformation of businesses and organizations to enable your systems engineering to thrive                     |
| <b>Conform to various standards</b>               | Support in known standards, norms and regulations in fields like A-Spice, ISO26262, ISO/SAE21424, ISO21448, ...                               |

# We apply proven processes, methods & tools for series grade design and industrialization – including model-based and text-based approaches

## SELECTION OF OUR MAIN ACTIVITIES



# Get in touch with us for further information



[www.fev.com/en/  
signature-solutions](http://www.fev.com/en/signature-solutions)