

YOUR GLOBAL **MOBILITY**
ENGINEERING EXPERTS



ZERO

PROTOTYPE LAB

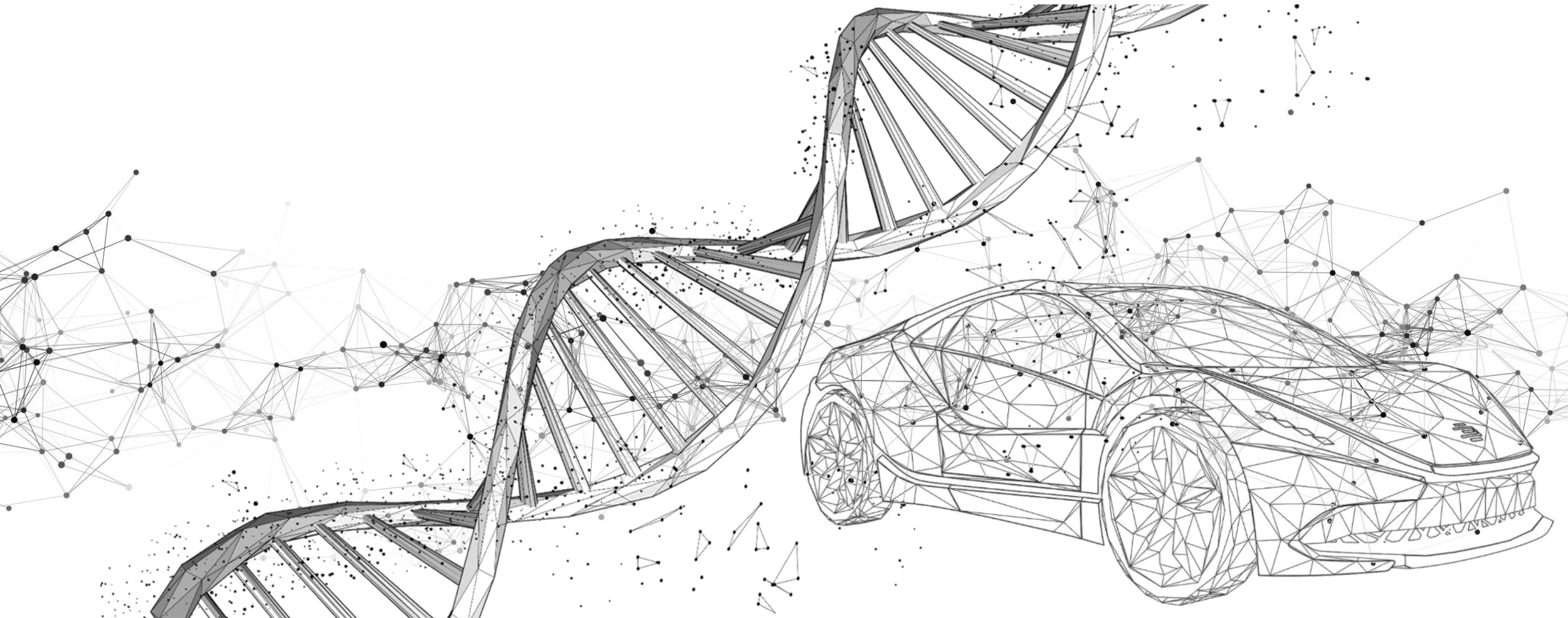
EDAG GROUP

FACING THE COMPLEXITY OF VEHICLE
ATTRIBUTE DEVELOPMENT

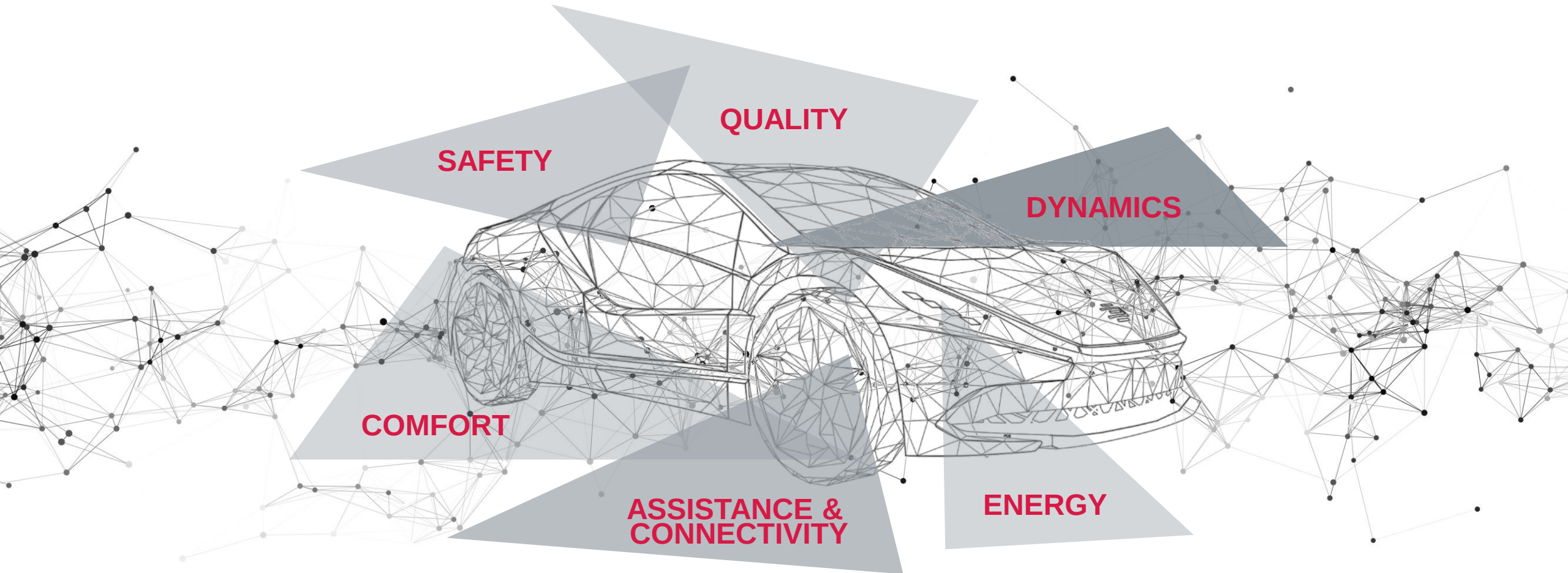
5/22/2024



ATTRIBUTE DEVELOPMENT DRIVER IMPRESSION



ATTRIBUTE DEVELOPMENT DRIVER IMPRESSION



ATTRIBUTE DEVELOPMENT DRIVER IMPRESSION

Customer Satisfaction



Dynamic Attribute



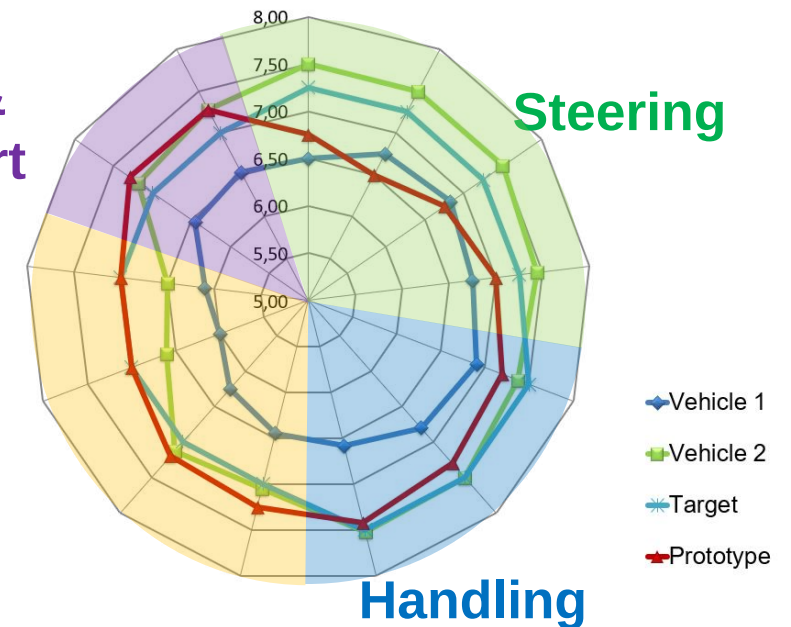
Attribute Overview

Ride & Comfort

NVH

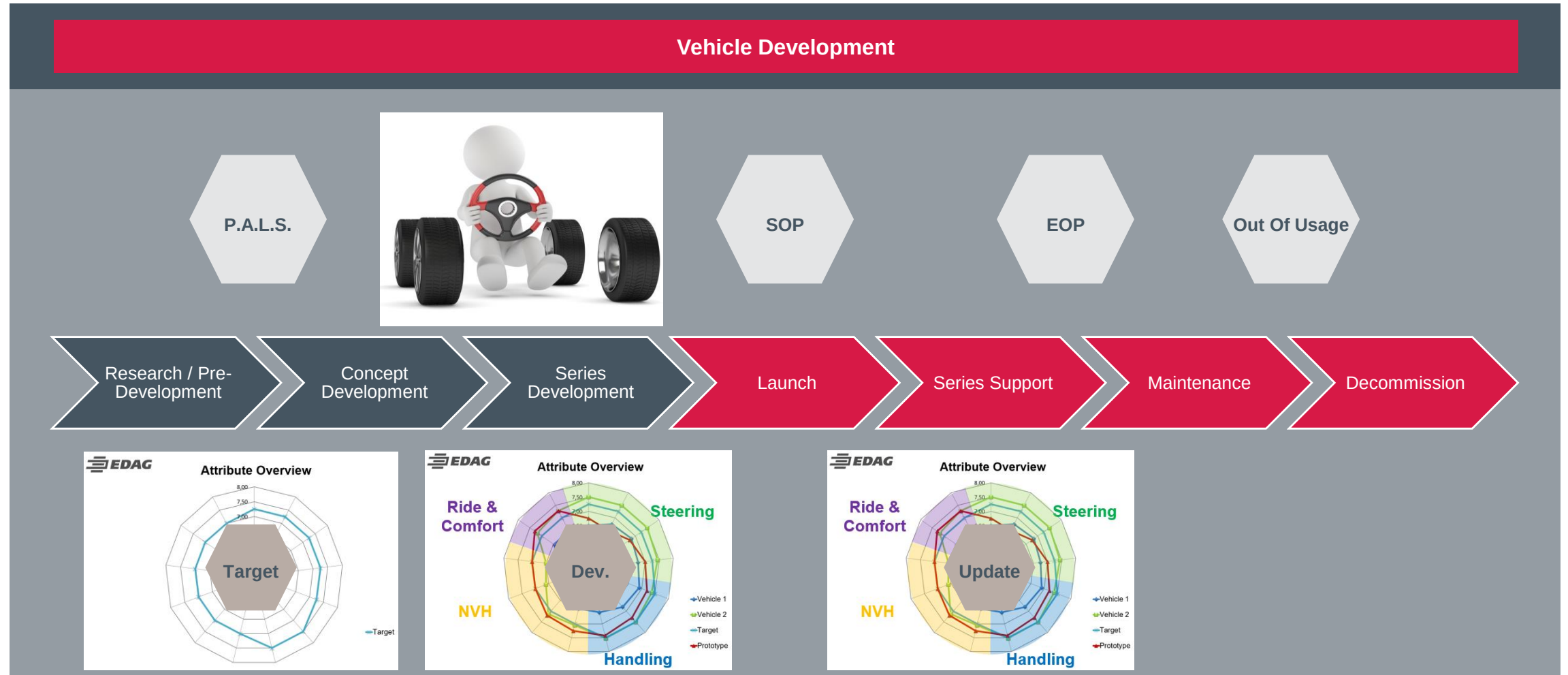
Steering

Handling

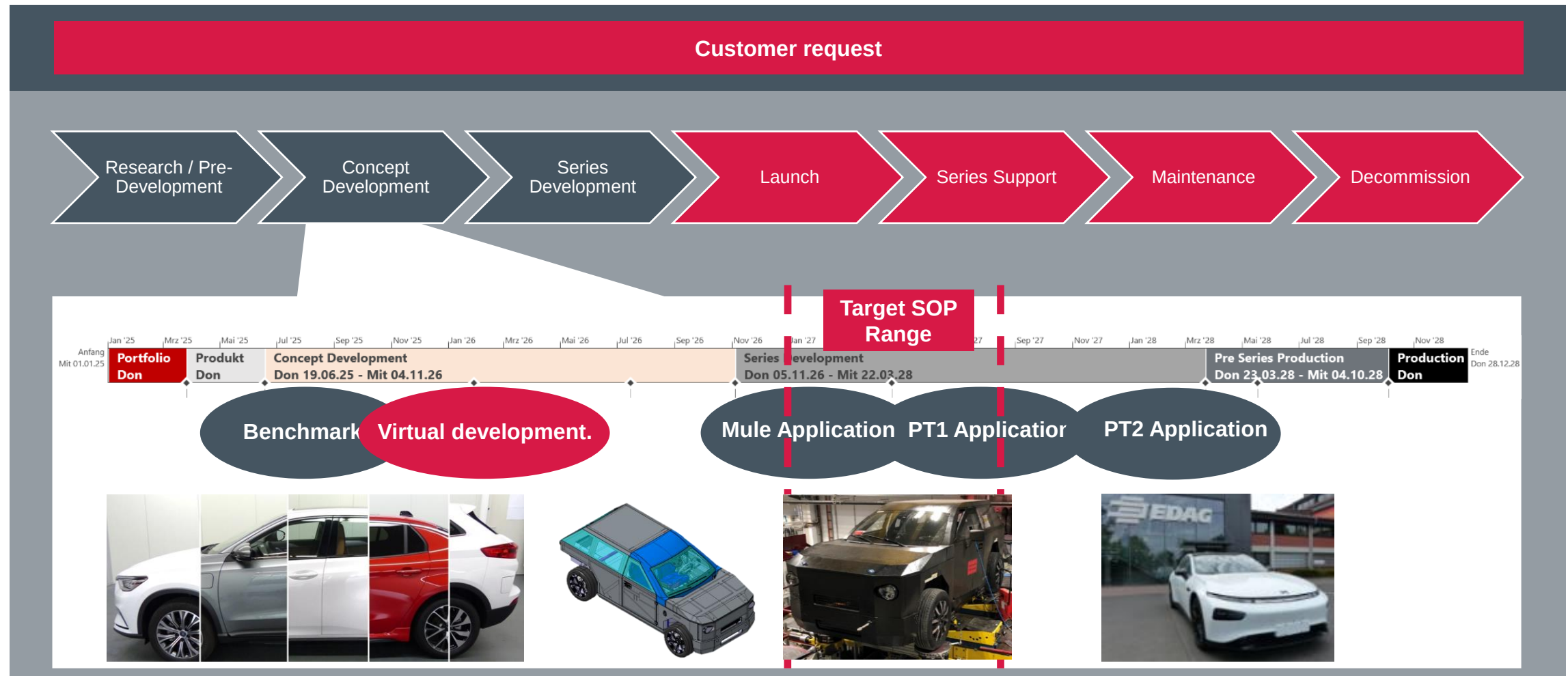


CHALLENGE

DEVELOPMENT TIMING



CHALLENGE DEVELOPMENT TIMING

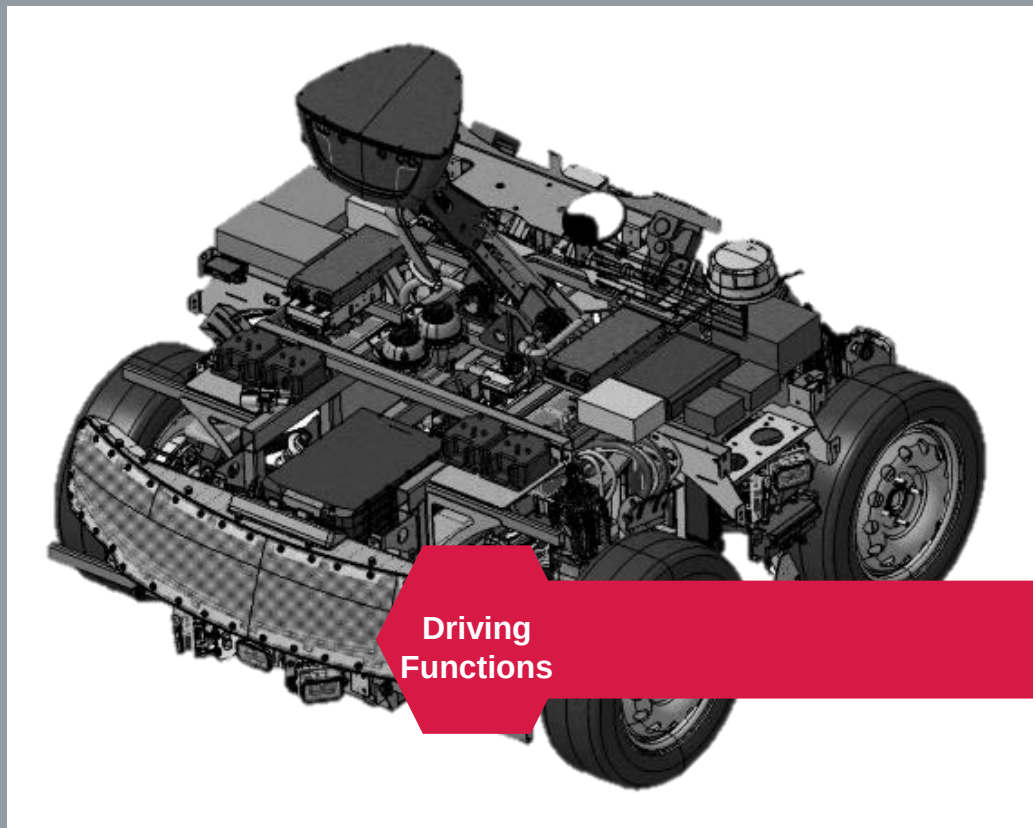


CHALLENGE MARKET CHANGE

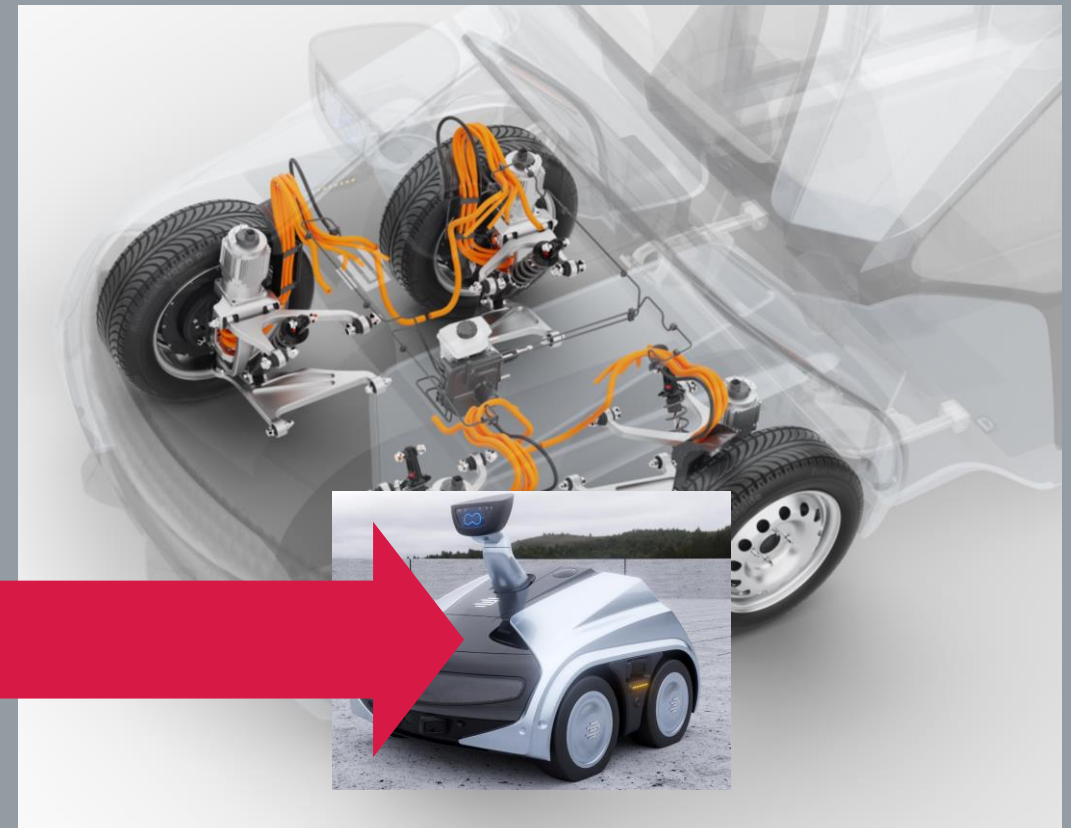


CHALLENGE MARKET CHANGE

AD System

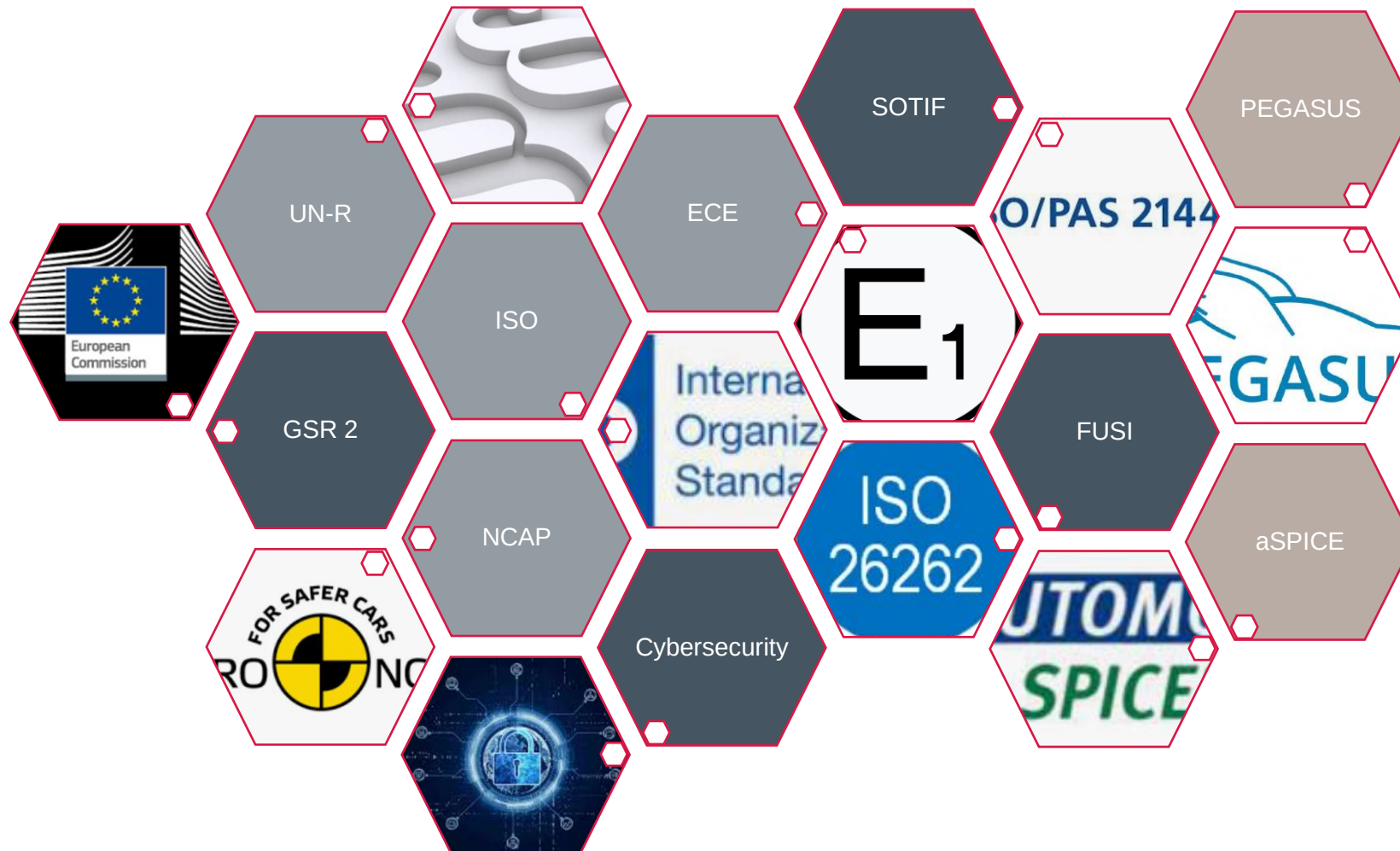


Drive System (X-By-Wire)

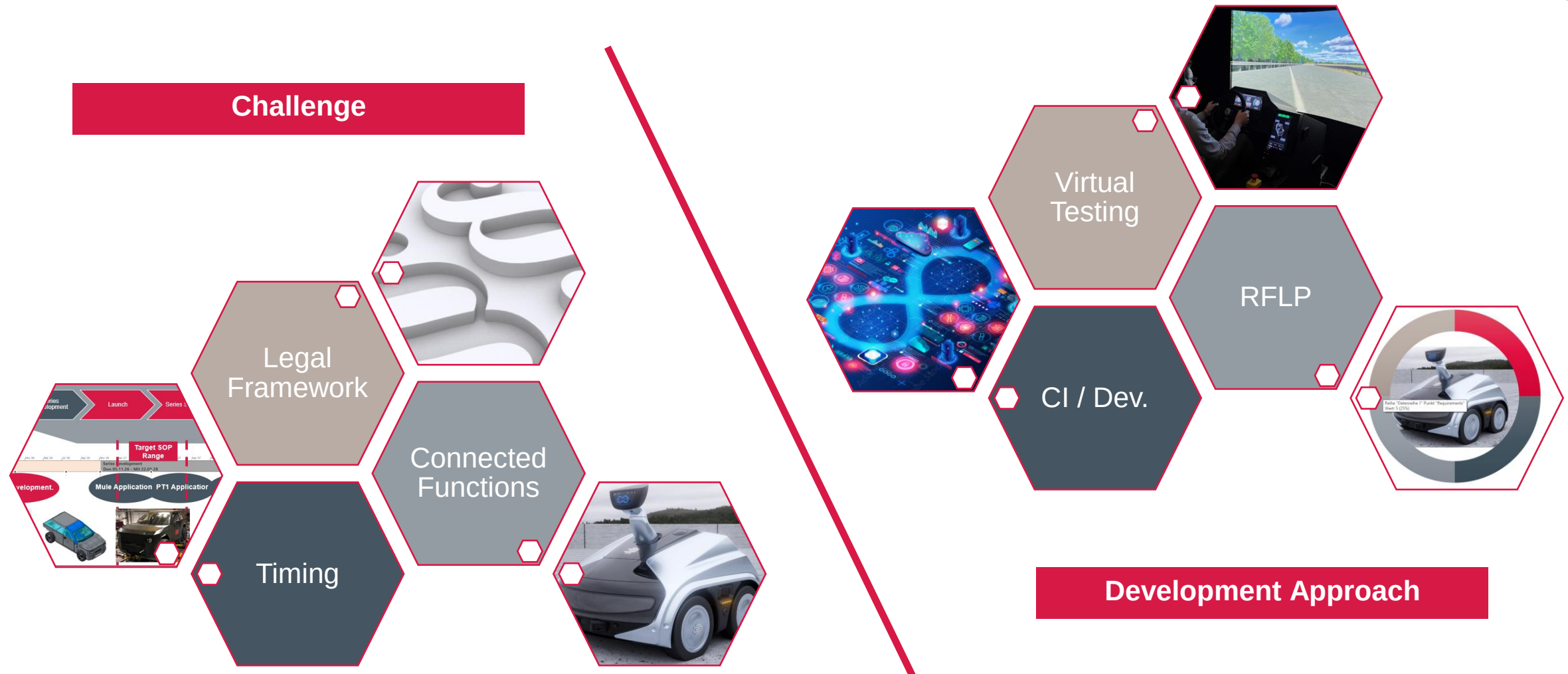


CHALLENGE

THE LEGAL FRAMEWORK



CHALLENGE SUMMARY



ZERO PROTOTYPE LAB LOCATION



SIMS & H
SIMULATION EX
METHODS
DATA MANAGEMENT
TRACKS
STAFF

Wolfsburg



ZERO PROTOTYPE LAB SIMULATOR OVERVIEW



DYNAMIC SIMULATOR DIM500

Manufacturer: **VI-Grade DIM500**
Real-Time-Computer: **AutoHawk16**
Software: **World-Sim**
3rd Party



June 2024

Moving / Motion: **1:1 Cueing**
Longitudinal 5m and 1,5g
Lateral 5m und 1,5g
Vertikal 298mm and 2,5g

COMPACT FSS SIMULATOR

Manufacturer: **VI-Grade**
Real-Time-Computer: **Autohawk16**
Software: **World-Sim**
3rd Party



April 2024

Moving / Motion:
Corner Actuators
Seat and Steering wheel shaker

DESKTOP SIMULATOR

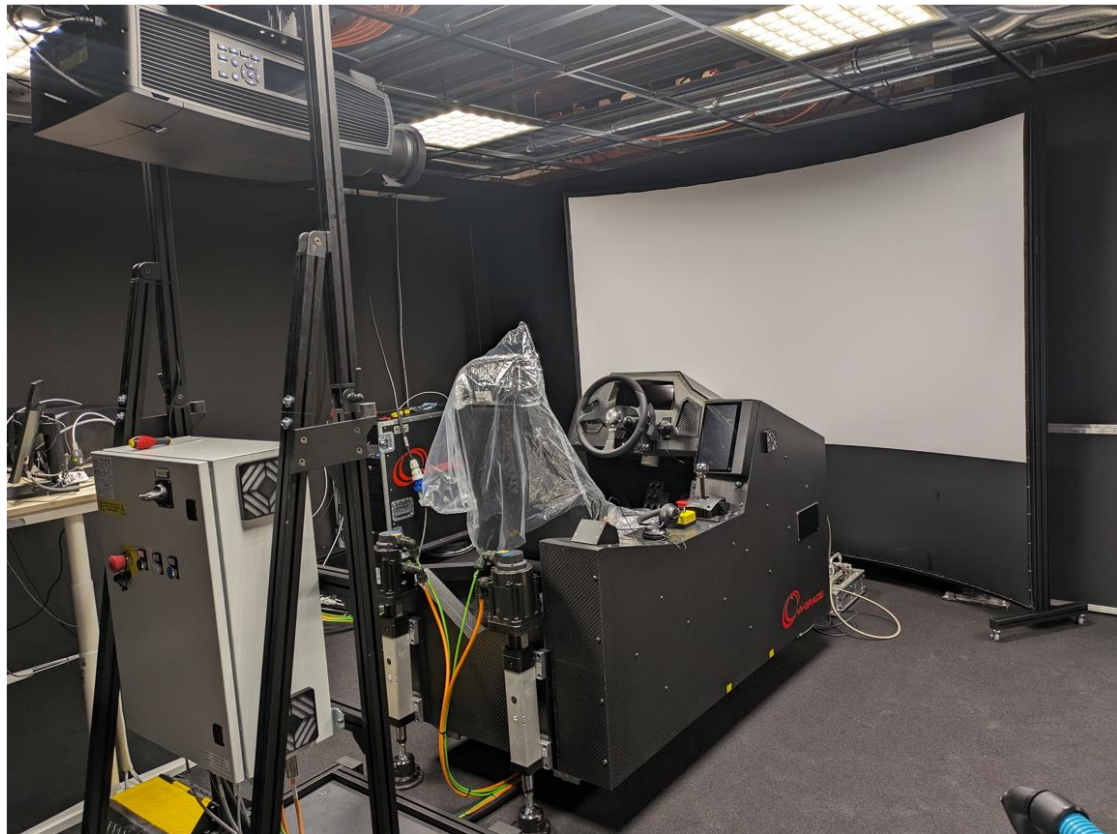
Manufacturer: **VI-Grade**
Real-Time-Computer: **Autohawk16**
Software: **World-Sim**
3rd Party



December
2023



ZERO PROTOTYPE LAB CURRENT STATUS



Continuous Development

- Software update
- Handling, Steering
- Ride & Comfort, NVH
- Functional Parameter Tuning
- Functional update
- Mechanical design update
- Hardware update

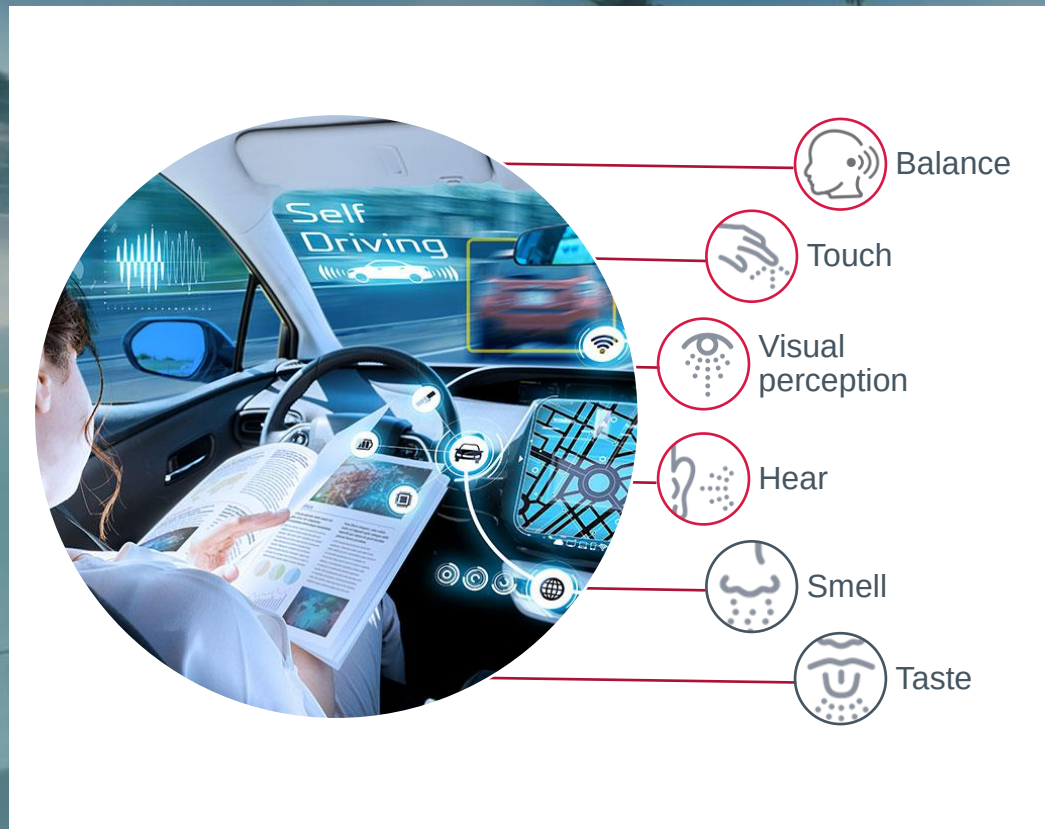
The diagram illustrates the development timeline for the PT2 Application. It is divided into four main phases: Benchmark, Mule Application, PT1 Application, and PT2 Application. The timeline spans from January 2021 to March 2022. A red arrow points to the PT2 Application phase, which is labeled 'Development' and '11.26 - Mit 22.03.28'.



EDAG APPROACH DYNAMIC ATTRIBUTES



Attribute Development with DIM500 and FSS in combination



YOUR GLOBAL **MOBILITY** AND
INDUSTRY ENGINEERING EXPERTS



EDAG GROUP

ZERO PROTOTYPE LAB



5/22/2024

