



The network of Horizon Europe Cluster 5 National Contact Point.







ANADOLU ISUZU

Gülenay Tunç

GREENET Brokerage Event 6th May 2025





ANADOLU ISUZU R&D

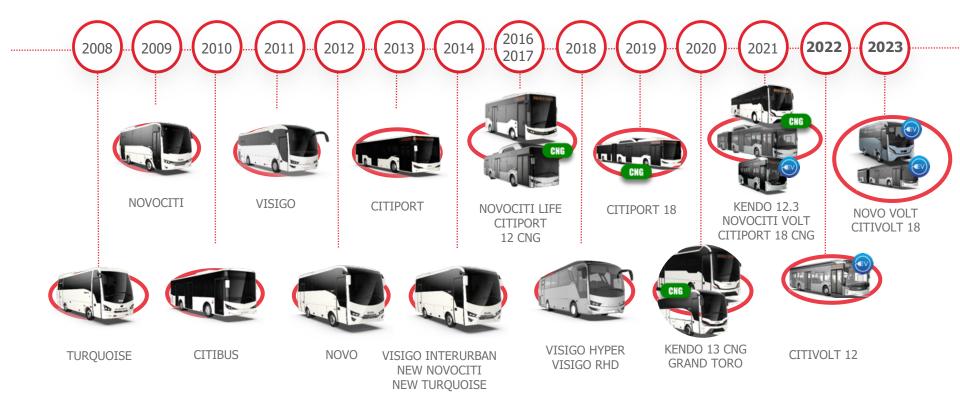


- One of the first centers to change status under the R&D Centers Law enacted in 2009
- ~300+ employees
- 6000 m² indoor area
- A center that covers all steps from sketch to product, including the Design Office, R&D Office, Prototype Workshop, Special Projects Workshop, and Testing Center



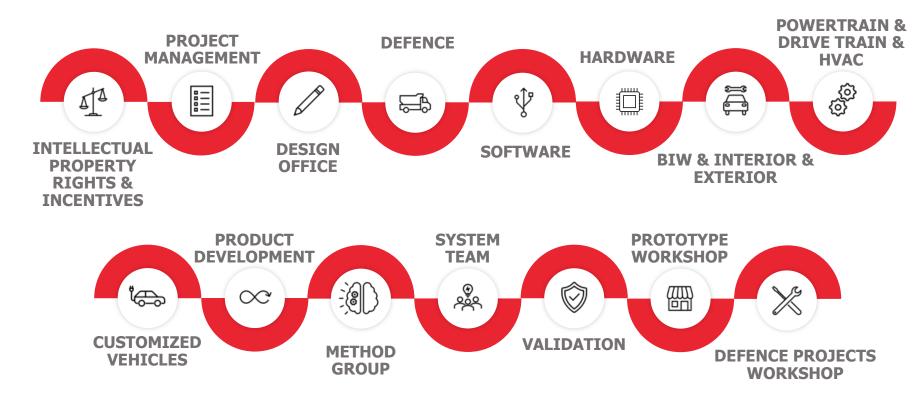


PRODUCT RANGE





R&D CENTER DIVISIONS







INTELLECTUAL PROPERTY RIGHTS & INCENTIVES





















































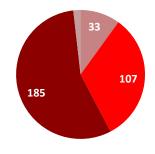














PATENTS

NATIONAL DESIGN **REGISTRATIONS**

■ INTERNATIONAL DESIGN REGISTRATIONS



































NUMBER OF COMPLETED APPLICATIONS IN 2024

ONGOING R&D PROJECTS

NUMBER OF RESEARCHERS WITH POSTGRADUATE 37 DEGREES

306

TOTAL R&D PERSONNEL

NUMBER OF RESEARCHERS PURSUING DOCTORAL STUDIES





DESIGN OFFICE

DESIGN OFFICE



STYLING

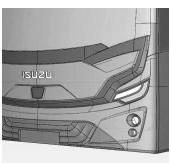


INTERFACE DESIGN



2D ILLUSTRATION





3D MODELLING



CMF







3D PRINTER



PHOTOREALISTIC RENDER



ANIMATION





ELECTRICAL AND ELECTRONIC SYSTEMS





CONTROLLER CONTROLS OF EQUIPMENT: DOORS, HEADLIGHTS, WIPER



SOFTWARE DEVELOPMENTS AND INTERFACE DESIGNS COMPLIANT WITH GSR AND REGULATIONS



PROGRAMMING THE TRACTION CONTROL UNIT ELECTRIC TRACTION MOTOR TORQUE CONTROL AND FUNCTIONS



BATTERY AND CHARGING SCENARIO MANAGEMENT SOFTWARE



DESKTOP INTERFACES AND DIAGNOSTICS SOFTWARE



SOURCE STATIC CODE ANALYSIS



CYBER SECURITY & SOFTWARE TESTING

SOFTWARE UPDATE MANAGEMENT SECURITY VULNERABILITY MONITORING & ANALYSIS & RESPONSE

FUZZ & PENETRATION TEST



ANALYSIS, ARCHITECTURAL DESIGN, THREAT ANALYSIS AND RISK ASSESSMENT



CYBER SECURITY SOFTWARE DEVELOPMENT, VALIDATION AND VERIFICATION



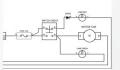
PROTOTYPE TOOL SOFTWARE VERIFICATION AND DOCUMENTATION

HARDWARE

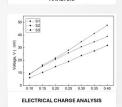
COMPONENT SELECTION AND CREATING SYSTEM ARCHITECTURE



PROTOTYPE, COMMISSIONING, SIMULATION AND TEST

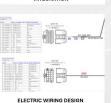


ELECTRICAL CIRCUIT DESIGN AND ANALYSIS



ELECTRICAL SYSTEMS LOCATION AND

INTEGRATION



HARDWARE DESIGN

ALTERNATIVE FUELED VEHICLES



BATTERY SYSTEM SELECTIONS



ELECTRIC ENGINE COMPARISON SIMULATION AND SELECTIONS



NEW SYSTEMS



SOFTWARE-IN-THE-LOOP (SIL)

ELECTRIC VEHICLE SYSTEM DESIGN AND CHOICES



INTERNATIONAL VALUE-ADDED PROJECTS



AUTONOMOUS **VEHICLE STUDIES**



SYSTEMS AND CONNECTED VEHICLES



FLEET TRACKING SYSTEMS

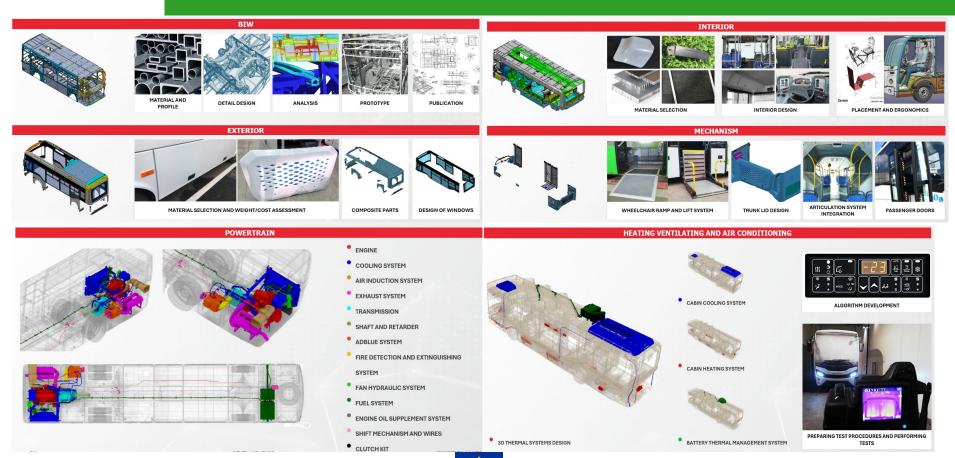


ALTERNATIVE CHARGING SYSTEMS





R&D VEHICLE DEVELOPMENT



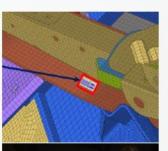


VALIDATION

TEST-ANALYSIS CORRELATION



MEASUREMENTS





STRAIN GAUGE MEASUREMENTS





ROUGH ROAD TESTS

THERMAL TESTS:

- FOG TEST
- ICE TEST
- TASE TESTS

VEHICLE DYNAMICS TESTS

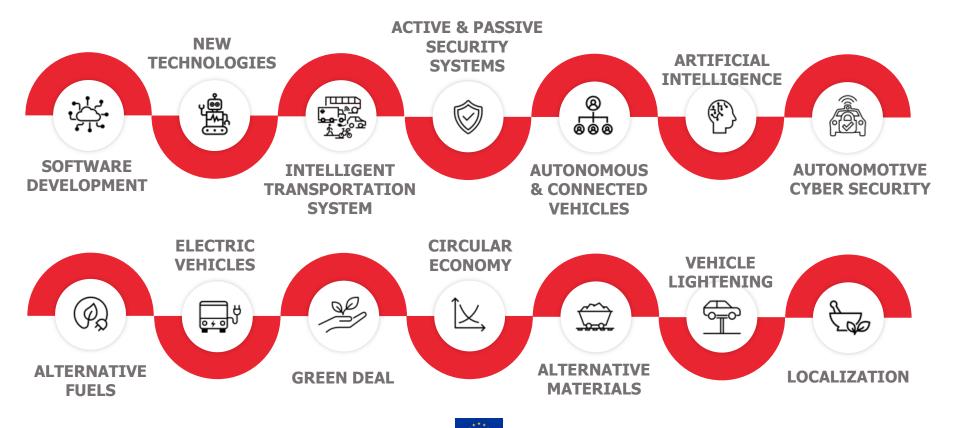
- ANTI-ROLL BAR TEST
- TURNING RADIUS TEST
- HUMB PASS TEST
- LANE CHANGE TEST
- STABILITY TEST

BODY VALIDATION TESTS:

- VEHICLE LOADING (STRAIN GAUGE MEASUREMENT)
- WHEEL-COG IMPACT TRANSMISSION (ACCELESS) MEASUREMENT)
- BROKEN ROAD-BODY VIBRATION (STRAIN GAUGE) MEASUREMENT)









INTELLIGENT TRANSPORTATION SYSTEMS



BLIND SPOT DETECTION SYSTEM



PEDESTRIAN AND BICYCLE DETECTION SYSTEM



TRAFFIC SIGNAL SYSTEM







DRIVER FAILURE AND VIOLATION DETECTION

ARTIFICIAL INTELLIGENCE



PREDICTIVE MAINTENANCE

[] OO























ALTERNATIVE MATERIALS, BIOMATERIAL, GREEN DEAL, LIGHTENING, CIRCULAR ECONOMY







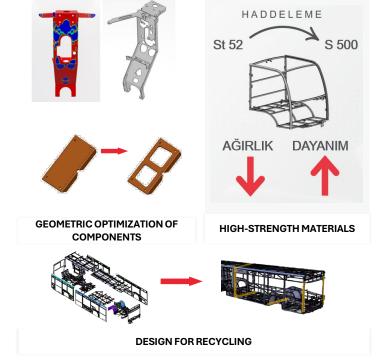






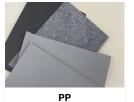


HDPE













CALLS

Call Topic	Type of Action
HORIZON-CL5-2025-04-D5-01: Efficient wireless stationary bidirectional charging solutions for road	
Light Duty Vehicles (2ZERO Partnership) – Societal Readiness Pilot	IA
HORIZON-CL5-2025-04-D5-02: Cybersecure and resilient road e-mobility ecosystem (2ZERO	
Partnership)	IA
HORIZON-CL5-2025-04-D5-03: Safe post-crash management of road Light Duty Battery Electric	
Vehicles (BEVs) (2ZERO Partnership)	IA
HORIZON-CL5-2026-01-D2-01: Development of sustainable and design-to-cost batteries with	
(energy-)efficient manufacturing processes and based on advanced and safer materials (Batt4EU	
Partnership)	IA
HORIZON-CL5-2026-01-D2-04: Integrating advanced materials, cell design and manufacturing	
development for high-performance batteries aimed at mobility (Batt4EU Partnership)	RIA







The network of Horizon Europe
Cluster 5 National Contact Point Cluster 5 National Contact Point.

CONTACT DETAILS:

E-MAIL: gulenay.tunc@isuzu.com.tr

COUNTRY:TÜRKİYE

