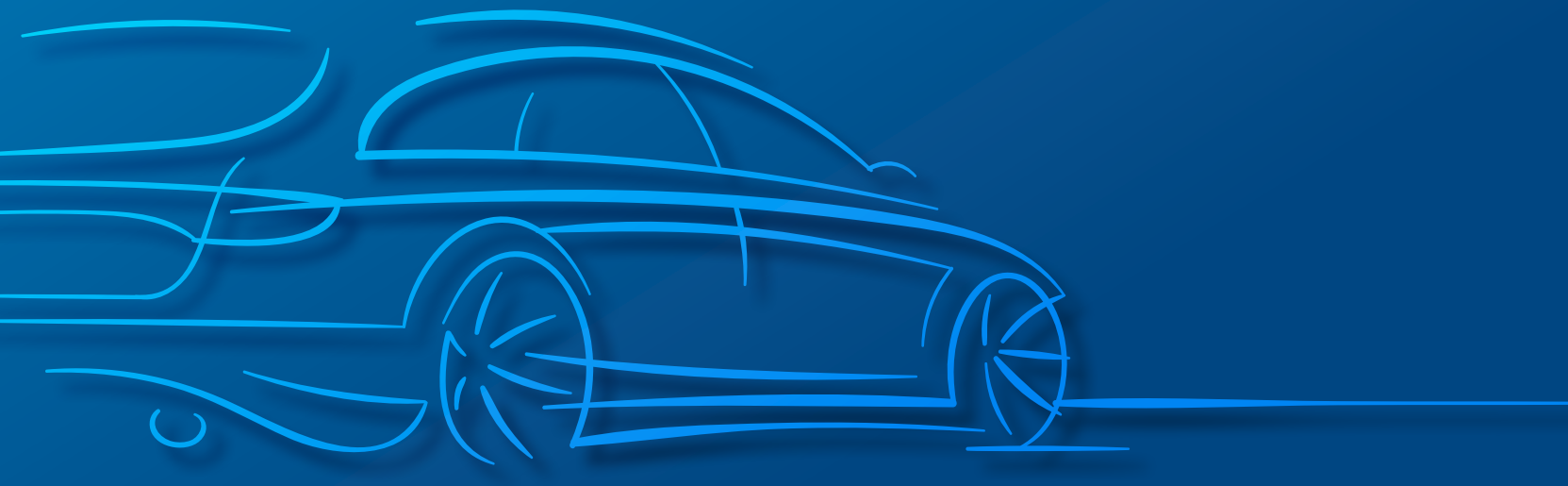
FUTURE MOBILITY TECHNOLOGY

KATECH



CONTENTS

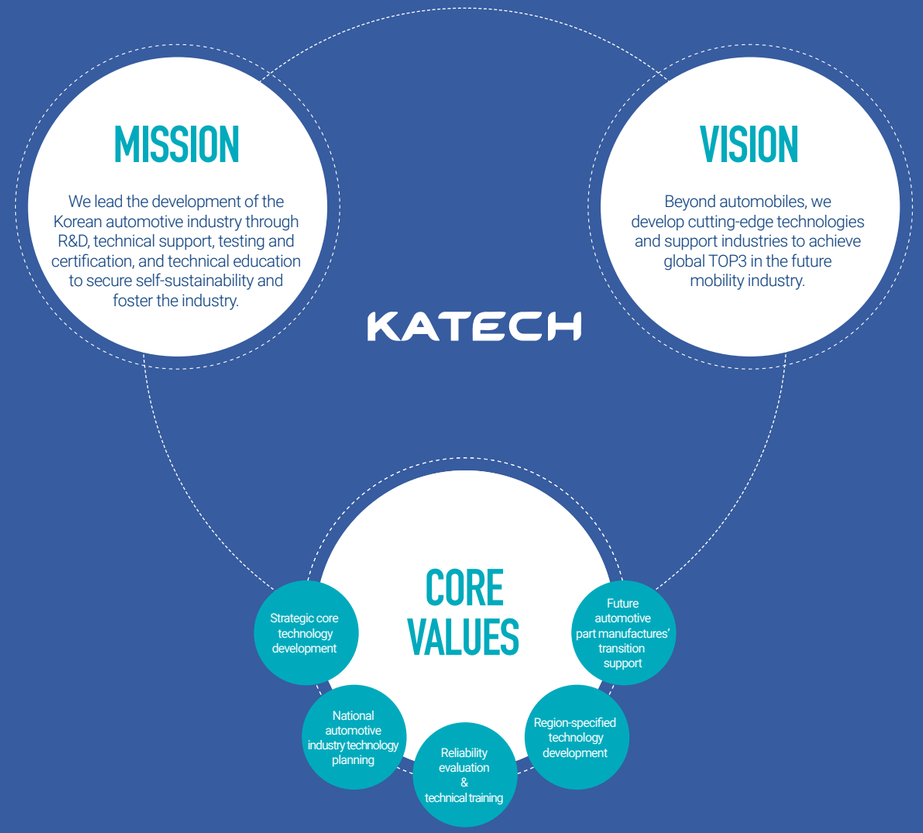
Foundation for Global Competitiveness

KATECH
LEADING THE FUTURE WITH CREATIVITY & INNOVATION

5 Research Laboratories

Mecca of the regional automotive industry

KATECH



2030 Management goal

Developing core technology for the automotive industry

Supporting technical support and test certification

Fostering future talents for the future automotive era

Leading research and development of core technologies in the automotive industry.

Supporting technology necessary for industry and support technology demonstration.

Fostering professionals and experts for the future automotive era.

KATECH has been dedicated to the growth of the Korean automotive industry.

1990

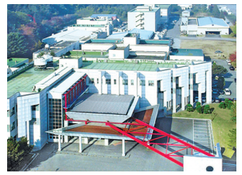
Sep 1990 Approval for establishment of「Private Specialized Production Technology Research Center」by the Ministry of Commerce and Industry

Feb 1992 Supervision of "G7 Next generation vehicle technology development" project

Mar 1995 Completion and relocation of the Institute (Pungsemyeon, Cheonansi)
*Whole area: 249,986㎡

Sep 1996 Designation as vehicle fuel efficiency measurement (gasoline, LPG) agency (Ministry of Trade and Industry)

Aug 1997 Secured Korea Laboratory Accrediation Scheme (KOLAS)



2000

May 2000 Completed and designated as Reliability Evaluation Center (RAC) (Ministry of Commerce, Industry and Energy), automotive performance test site

Feb 2002 Designated as Vehicle Exhaust Gas and Noise Measurement Institute (Ministry of Environment)

Jul 2002 Designated as Vehicle Fuel Efficiency Measurement Agency (Ministry of Commerce, Industry and Energy)

Apr 2004 Supervision of "Future vehicle technology development" project

Aug 2007 Designated as Strategic Technology Development Project Support Group

Feb 2010 Designated as the Green Car Stategic Forum Office

Mar 2010 Established Daegu-Gyeongbuk Regional R&D Department

2011

May 2011 Established Gwangju Regional R&D Department and Jeonbuk Office

Dec 2011 Established Eco-friendly Technology Research Laboratory

Dec 2012 Established Support Center (premium vehicle, e-mobility, automotive root industry)

Oct 2013 Hosted autonomous driving vehicle competition

Dec 2013 Established Premium Automotive Research Center (Yeongam)

Aug 2015 Designated as EMC GM Testing Laboratory

Mar 2016 Setup C-Auto project team in Daegu-Gyeongbuk Regional R&D Department

May 2017 Designated as EMC field Renault Samsung Automotive Test Lab

Feb 2018 Designated as Lane Deviation Warning Device, Tire Noise Measurement Agency

Nov 2019 Change the name of Institute (Automotive Part Institute to Korea Automotive Technology Institute)

2020

Jul 2020 Designated as Research Special Development Zone Technology Core Institute for small but strong companies in Cheonan/Asan

Jul 2021 Opened Automotive Human Resources Development Committee (ISC)

Sep 2022 Opened Pangyo Semiconductor/Sensor Technology Division/Big Data/SW Technology Division

Nov 2022 Opened Autonomous Driving Convergence Support Center

Nov 2022 Won presidential award for Material Part Equipment Technology Development Reliability Improvement Division

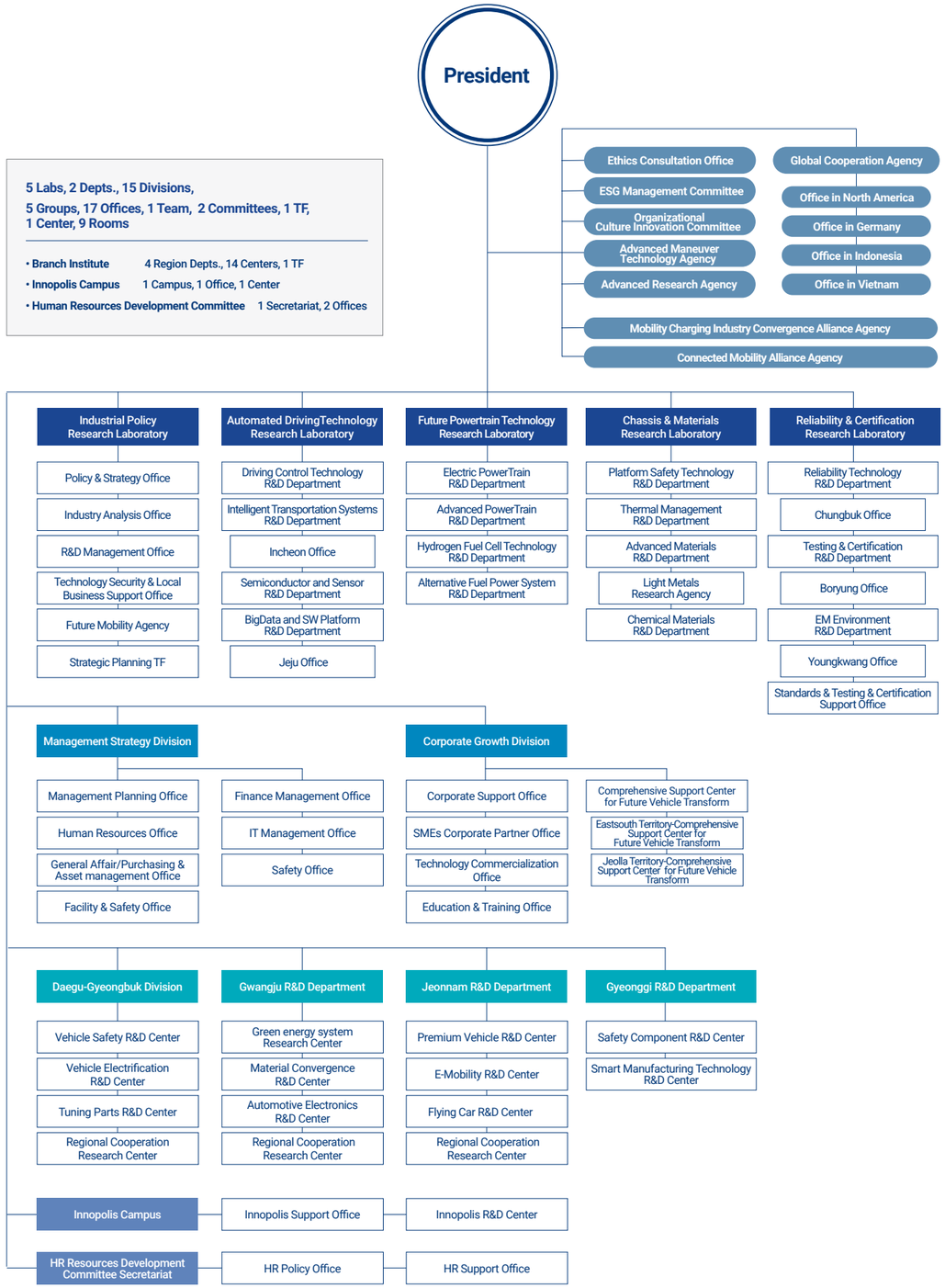
KATECH will lead the future of the automotive industry with creativity and innovation.

Since its establishment in 1990, the Korea Automotive Technology Institute has been carried out R&D and technical support such as reliability and certification of parts with Korean SMEs to develop the Korean automotive industry.

Amid the recent paradigm shift in the automotive industry, we will strengthen our role as a 'facilitator' to help the Korean automotive industry that connects and supports government, business, large and small companies, manufacturers and service providers.
Through a new wave of change, we will faithfully fulfill
our fundamental role to achieve the great dream in 'mobility industry'.
Please join us in the future mobility era that Korea Automotive
Technology Institute will lead.

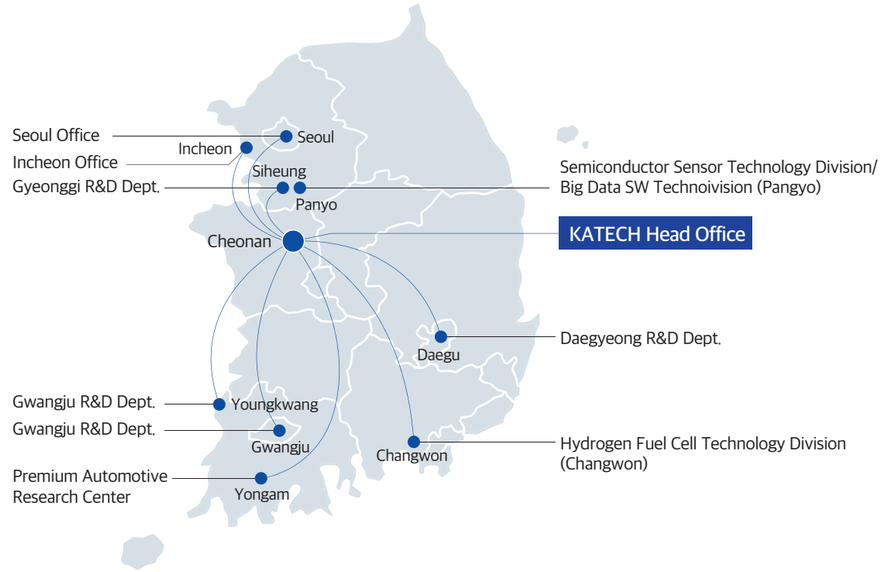
President
Seungsik Na
Korea Automotive Technology Institute

Organization



KATECH will take the lead in creating the future mobility industry ecosystem to actively support the innovation and structural advancement of the Korean automotive industry.

KATECH Head Office	Pungse-ro 303, Pungse-myeon, Dongnam-gu, Cheonan-si, Chungcheongnam-do	041-559-3114
Seoul Office	4F, Korea Automobile Industry Center, 9-22, Seocho-daero 62-gil, Seocho-gu, Seoul	
Incheon Office	4F, Baekyang Cheongna Branch, 94, Cheongna Emerald-ro, Seo-gu, Incheon	032-715-5788
Gyeonggi R&D Dept.	Oido-49, Siheung-si, Gyeonggi-do	031-365-5576
Semiconductor Sensor Technology Division/ Big Data SW Technology Division (Pangyo)	3F, Seongnam Global Convergence Center Building B, 46 Dalaenae-ro, Sujeong-gu, Seongnam-si, Gyeonggi-do	031-606-9017
Daegyeong R&D Dept.	Guksandanseo-ro201, Guji-myeon, Dalseong-gun, Daegu-si	053-719-7813
Gwangju R&D Dept.	Jingoksandanjungang-ro 55, Gwangsan-gu, Gwangju	062-960-9211
Jeonnam R&D Dept.	Jeokicharo 1-199 4, Daema-myeon, Yeonggwang-gun, Jeollanam-do	061-350-3424
Premium Automotive Research Center	F1-ro46, Samho-eup, Yeongam-gun, Jeollanam-do	061-813-3027
Hydrogen Fuel Cell Technology Division (Changwon)	Gongdan-ro 474-86, Seongsan-gu, Changwon-si, Gyeongsangnam-do	055-603-5922



Visions of 5 Research Laboratories

KATECH changed its organization into five research institutes to achieve the goal of transforming the industry into electrification and enhancing software competitiveness by strengthening our core technology development capabilities for the automotive industry and the future mobility industry, establishing various technology development policies that can create new market opportunities, providing necessary support capabilities to the domestic auto parts industry.

Industrial policy
Opinion leader in mobility policy · industry

Autonomous driving Technology
Autonomous mobility centered on industrial sites and markets

Future Powertrain Technology
Innovating software future power train technology

Chassis · Material technology
Securing the small, medium, and long original technology Innovating chassis · materials

Reliability & Certification Technology
Establishing reliability · certification hub for future mobility industry ecosystem

Reinforcing core technology development capabilities for the future mobility industry

KATECH Manpower Status

(as of March 2024)

Researcher

695 Researcher

168 Doctoral

276 Master

251 Bachelors

Administrative Staff

126

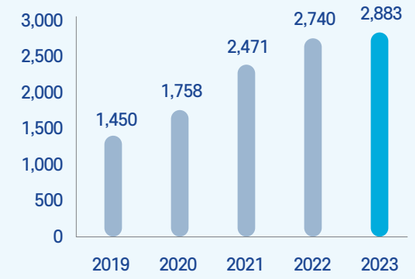
Total **821**

KATECH R&D Status

(as of March 2024)

2023 R&D budgets

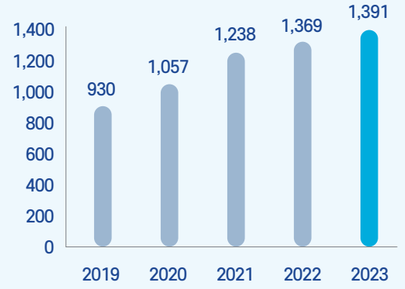
99% increase over 5 years



(Unit: KRW 100 million)

2023 No. of cooperated companies

50% increase over 5 years



(no. of partner companies, unit: number)

5 Research Laboratory

Industry & Policy Research Laboratory

Autonomous Driving Technology Research Laboratory

Future Powertrain Technology Research Laboratory

Chassis & Material Technology Research Laboratory

Reliability & Certification Technology Research Laboratory

Industry & Policy Research Laboratory

The Industry & Policy Research Laboratory discovers policy agendas for future technologies to promote Korean mobility industry based on systematic collected information and analysis for related industry.

Policy Strategy Office

- Leading Discovery of mobility policy agenda
  - Utilizing in-house policy research and expert network
- New business planning (government R&D and non-R&D)
- Supporting industry by collecting opinions from industry, academia, and research institutes

Industry Analysis Office

- Managing Key statistics collection and systematic
- Providing industry/technology/policy/corporate trends
- Exchanging knowledge between automotive front and rear industries

Industry & Policy Research Laboratory

Future Mobility Business Group

- Discovering future mobility research trends and future technologies
  - Mobility with new operation methods and environment
- Establishing future mobility strategy roadmap
- Establishing linked project cooperation system for each research laboratory

Project Security Support Office

- Establishing important information security systems such as R&D projects and tasks
- Preventing leakage of core technology through compliance with security compliance
- Establishing In-house organic cooperation system and activating regional projects

Vision An opinion leader leading mobility policy and industry agenda

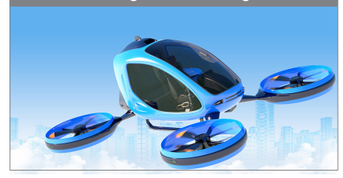
Goal Leading mobility industry throughout discovering future-oriented policy and industry analysis

- Collecting, analyzing, and systematically accumulating of important information such as industry trends and statistics
- Securing physical and human driving force by preemptively discovering and establishing policy issues and commercializing them
- Promoting endless industrial innovation by exploring new growth areas and preemptively securing core technologies

Collecting and analyzing statistical and trend information

Discovering policy issues and project planning

Exploring new growth areas and securing core technologies



Autonomous Driving Technology Research Laboratory

Autonomous Driving Technology Research Laboratory is specialized in Big Data·SW, autonomous driving control, Intelligent Traffic Control and semiconductor·Sensor to enhance technologies for future vehicles and supporting companies.

Autonomous Driving Technology Research Laboratory

Big Data · SW Technology Division

- Future electronic platform technology for realizing SDV
- Developing AI/big data infrastructure and utilization technology
- Edge computing-based autonomous driving perfor mance advancement technology

Intelligent Traffic Control Technology Division

- Infrastructure convergence awareness enhancement and connected platform technology
- Infrastructure control convergence automatic parking · charging integrated control technology
- Precision map-linked location recognition and navigation technology

Driving Control Technology Division

- Mobility autonomous cooperative driving package control technology
- HiLS/EiLS linked digital twin-based virtual verification
- UX/UI personalization inside and outside the cabin and optimal management technology for driving control

Semiconductor·Sensor Technology Division

- Developing core semiconductor design and localization technology for next-generation autonomous driving
- Advancing AI cognitive sensor and convergence sensing technology
- Vitalizing and establishing domestic semiconductor/ sensor parts ecosystem

Vision Frontier R&BD specialized organization for Autonomous mobility industry

Goal Establishment for strategic business partnerships through industrial field and market-oriented R&D

- Securing autonomous mobility service capabilities centered on human emotion
- Leading Preoccupying software-centered vehicle(SDV) technologies such as autonomous driving and driver support
- Establishing connected platform and service and infrastructure system

Establishing autonomous mobility service

Securing software-driven vehicle (SDV) competence

Activating Connected Platform Ecosystem

Future Powertrain Technology Research Laboratory

Future Powertrain Technology Research Laboratory is specialized in powertrain technology for future automobiles, such as e-automobiles, hybrid automobiles, hydrogen e-automobiles and alternative fuel automobiles that can reduce greenhouse gases.

Future Powertrain Technology Research Laboratory

Electric Power Technology Division

- Future mobility electric drive diversification and advance ment technology
- Next-generation power electric apparatus and charger technology
- Electric energy use efficiency optimization technology

Hydrogen Fuel Cell Technology Division

- Hydrogen fuel cell stack and system design technology
- Hydrogen storage and charging technology
- Support for future vehicle conversion of hydrogen mobility parts makers

Hybrid Technology Division

- Digital-based xEV Powertrain system design/ analysis/ control technology
- Virtualization application powertrain system evaluation technology
- xEV diagnosis/control parts prioritization and applica tion technology

Alternative Fuel Power Technology Division

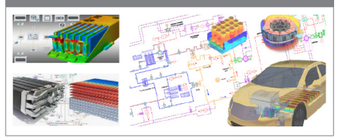
- Carbon-neutral alternative fuel utilization technology and CCU technology
- Non-road power system and decarbonization technology
- Actual vehicle driving environment simulation perfor mance analysis technology in response to emission regulations

Vision Leading the future Powertrain Technology

Goal Technology innovation of Software-focused mobility powertrain and contribution to the automobile industry

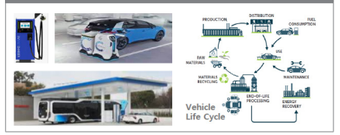
- Technology leadership by securing software-oriented eco-friendly vehicle powertrain parts and system technology
- Fostering the part industry through the advancement of eco-friendly vehicle powertrain performance
- Contributing to the continuous expansion of supply by fostering related industries in the front and rear of eco-friendly vehicle

Powertrain software technology



Vehicle erformance enhancement technology

Fostering technology for eco-friendly vehicle front and rear industry



Chassis & material Technology Research Laboratory

Chassis & Material Technology Research Laboratory carries out R&D for e-PBV for mobility, ultra-safe driving platform, electrified chassis parts, and safety convenience fields, light hydrogen e-automobiles, hydrogen storage, battery, heat control field, advanced materials for future displays, automotive semiconductors, sensors, and electromagnetic wave control for autonomous driving.

Chassis & Material Technology Research Laboratory

Platform Safety Technology Division

- e-PBV / ultra-safe platform and chassis control
- Automobile integrated analysis and evaluation technology
- Automobile safety and convenience integrated evaluation technology

Thermal Control Technology Division

- Thermal comfort-based air conditioning performance prediction technology
- Machine learning-based integrated thermal management system modeling technology
- Optimum control technology for integrated thermal management using digital twin

New Material Technology Division

- Future material technology for mobility semiconductors and electric apparatus
- Lightweight for vehicle efficiency· Ecofriendly core material technology
- High-efficiency intelligent process technology for carbon neutrality

Chemical Material Technology Division

- Highly functional chemical material technology applied to future mobility
- Eco-friendly convergence chemical material design technology
- High-efficiency secondary battery chemical material technology

Vision Leading innovation in core chassis and material technology for future mobility

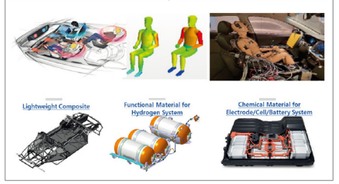
Goal ELV* Basic Solution for the transition of the automotive industry

* ELV : End of Life Vehicle

- Leading the best chassis and material technology and research leading future mobility innovation
- Securing core small, medium, and long original technologies for future automobile transition and becoming the Global Top 3
- Establishing hub foundation for global cooperation with domestic/overseas chassis·material part makers

Innovating future mobility chassis·material technology

Securing core small, medium, and long source technology



Establishing a cornerstone for global cooperation with chassis·material part makers

Reliability & Certification Technology Research Laboratory

Reliability & Certification Technology Research Laboratory is researching reliability enhancement technology, accelerated life prediction method, and purpose-based electric vehicle (PBV) technology based on reliability physics of future automobile and automotive semiconductors and developing radio wave environment (EMC, EMF, WPT, IEMI, RF, etc.) optimization technology. It conducts comprehensive evaluation and certification of energy and power of mobility, performance including electric apparatus, and safety, and provides overall operational support for KOLAS operations and standards/tests/certifications.

Reliability & Certification Technology Research Laboratory

Reliability Technology Division

- Reliability physics-based future automobile reliability improvement technology & precision analysis method research
- Automotive semiconductor unit-module-system reliability analysis & evaluation research
- e- multi-purpose automobile (PBV) technology research

Test Certification Technology Division

- Establishing one-stop test/certification service infrastructure
- Mobility field test certification service
- Discovering new certification area and test service

Electromagnetic Wave Environment Technology Division

- Electromagnetic wave (EMX) countermeasure technology research
- Electromagnetic wave application (EMF, WPT, IEMI, SE) technology research
- Wireless communication (RF) technology research

Standard Test Certification Support Office

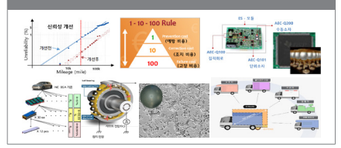
- Strengthening test certification service competitiveness
- Supporting standard, test, and certification
- Reinforcing client-responsive marketing

Vision Establish ‘Reliability • certification hub(HUB)’ for technology innovation in the future mobility industry ecosystem

Goal Technical support as a total solution for development life-cycle (design/research/test certification) to secure high reliability for future mobility

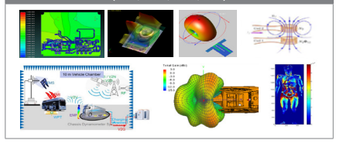
- Advancing reliability and safety factors in the innovation phase of future mobility design & strengthening the research base
- Enhancing the institute’s competence and global competitiveness and strengthening market-friendly certification services by enhancing mobility test certification services
- Enhancing optimal EMX (EMC application technology) response design research technology and developing electromagnetic wave test method based on high power and wireless communication

Advancing core technology centered on reliability design and physics



Expanding future mobility test certification and strengthening expertise

Securing EMX response technology and strengthening application technology
(EMF, WPT, IEMI, etc.)



Regional R&D Department

Daegu-Gyeongbuk R&D Department

Gwangju R&D Department

Jeonnam R&D Department

Gyeonggi R&D Department

Daegu-Gyeongbuk R&D Department

Daegu-Gyeongbuk R&D Department supports the advancement of the tuning parts industry through empirical research of core modules of autonomous driving automobiles and design/evaluation of electric automobile electrification module core components (motor, inverter, reducer) and parts related to tuning technology.

It endeavors to convert future automobile parts for the local automotive industry through planning research projects and carrying out technical support and joint research of automobile parts manufacturers for the Daegu-Gyeongbuk.

Daegu-Gyeongbuk R&D Department

Vehicle Safety Research Center

- Vehicle chassis system design and control tech nology research
- Vehicle electronic system design and control technology research
- Demonstration operation and data analysis tech nology research with autonomous driving on the real road

Vehicle Electrification Research Center

- e-Powertrain design, analysis, and optimization technology research
- Power conversion/control technology advance ment and evaluation and verification technology research
- Performance optimization technology research of e-Powertrain electrification module core part, NVH

Tuning Part Research Center

- Vehicle tuning part design and performance evaluation technology research
- Research on actual vehicle evaluation technology based on tuning vehicle driving environment
- Tuning vehicle output improvement and emission reduction technology research

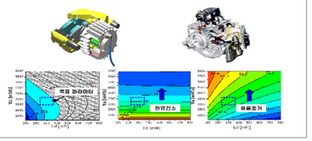
Vision Building e-vehicle-based autonomous driving vehicle leading city and future vehicle development strategy in Daegu-Gyeongbuk region

Goal Advancing electric·autonomous vehicle technology and future vehicle new industry ecosystem for expansion of related projects

- Building autonomous driving life-cycle support system and advancing step-by-step demonstration technology
- Building and advancing life-cycle support system for fostering e-vehicle motor cluster
- Advancing future vehicle parts and life-cycle support R&D competence advancement based on vehicle tuning technology

Advancing autonomous driving on the real road demonstration

Advancing e-vehicle e-Powertrain industry ecosystem



Advancing future vehicle part technology based on tuning technology

Gwangju R&D Department

Gwangju R&D Department carries out technology development of eco-friendly (hydrogen/electric powertrain, e-vehicle) parts and lightweight material parts, test evaluation and certification, technical support and human resource training for the local automotive industry and sustainable growth.

Gwangju R&D Department

Environmental Technology Research Center
- Developing electric/hydrogen power system
- Hydrogen mobility/charging safety securing technology
- Failure analysis and life diagnosis technology for hydrogen charging parts

Material Convergence Research Center
- Harsh environment material property analysis technology
- Vehicle body chassis/part weight lightening and high-efficiency production technology
- Part and process virtualization design technology

Future Electric Apparatus Research Center
- Development and verification/evaluation of future vehicle's electric apparatus part
- Big data-based electric apparatus part reliability technology
- Purpose-based vehicle platform and specialized technology

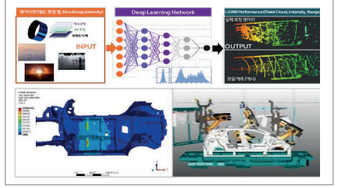
Vision Leading AI convergence future mobility research in Gwangju region

Goal Enhancing the region's future mobility industry technological competitiveness

- Enforcing research competence through part corporate technology R&D cooperation
- Securing part company's future vehicle transition technology and virtualization technology
- Leading AI convergence future mobility service core technology

Enhancing research competence

Securing future vehicle core technology



Leading service core technology

Jeonnam R&D Department

It carries out various national and regional projects related to the development of e-mobility, tuning, and flying car technologies, which are the future growth engines of Jeollanam-do.

It is responsible for supporting specialized R&D research for companies in the Jeollanam-do and conducts test evaluation, certification, demonstration of free trade zones, and support for trial production.

Jeonnam R&D Department

Premium Vehicle Research Center
- Material-analysis-unit-module-real vehicle linked total solution technology
- Building chassis part test/evaluation/certification system
- Mobility reliability diagnosis/prediction/ improvement technology

E-Mobility Research Center
- Developing PM core part and platform (PM: Sharing e-two-wheelers, e-bikes, e-kickboards, etc. / All Subscription Personal Mobility)
- Building an e-mobility reliability management system based on demonstration big data analysis
- Supporting development of e-mobility + service convergence project items

Flying Car Research Center
- Securing core technologies for future mobility (ultra EV, AAV, Rover) and technology
- Leading future mobility industry ecosystem through the use of Ultra EV platform technology
- Building battery and hydrogen fuel cellbased safety evaluation system (Application: EV, AAV, Rover, etc.)

Vision Making Jeonnam as the base for future mobility

Goal Developing e-mobility, tuning, flying car technology, and industry for Jeonnam's future

- **Premium Vehicle** Building cluster focused on small and medium-sized enterprises related to highperformance mobility and tuning
- **E-Mobility** As an e-mobility technology hub, developing core technology and projects based on demonstration research
- **Flying Car** Building a base for future mobility (AAV · Rover) and core part development

High-Performance Mobility Cluster

E-Mobility Technology Hub

Building a base for PAV· Rover technology development

Gyeonggi R&D Department

Gyeonggi R&D Department is for future mobility safety parts and smart manufacturing technology to promote the digital transition of vehicle part companies.

Safety Part Research Center

- Researching preceding technology for future mobility safety parts based on design and analysis and developing High safety parts
- Developing future vehicle safety part manufacturing technology (advanced material and process technology) and supporting digital transition demonstration
- Performance and reliability evaluation and certification technology for major vehicle safety parts such as airbags, seats, seat belts, lamps, and brakes

Gyeonggi R&D Department

Smart Manufacturing Technology Research Center

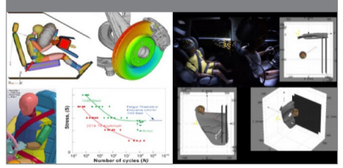
- Design · Control technology for robotics, data, network, AI technology convergence intelligent automation system
- Building a digital twin-based vehicle part manufacturing process and designing algorithm optimization technology
- Promoting smart manufacturing technology for the future vehicle part industry for digital transition in the manufacturing industry and researching demonstration technology

Vision Leading in the field of future mobility for safety parts and smart manufacturing technology

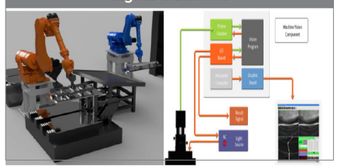
Goal Supporting research and development of smart manufacturing technology-based mobility manufacturing industry innovation and future safety part

- Leading development of high-reliability safety parts based on future mobility safety part analysis/manufacturing/evaluation technology
- Supplying smart manufacturing technology research development and technology for the digital transition of vehicle part manufacturing sites
- Deriving synergy effect by securing department core technology and infrastructure connection plan

Highly reliable safety part technology



Smart manufacturing technology for digital transition



Plan for linked possessed technology and infrastructure

Corporate Growth Division

The Corporate Growth Division communicates with companies, and provides customized growth support to respond to the rapidly changing future vehicle transition preemptively.

Company Support Office

- Discovering company support policy
- Company support project
- Supporting evaluation of prototypes

Company Partner Office

- Company networking
- Building and operating company DB
- Company forum and consultative body

Corporate Growth Division

Technology Projectization Office

- Managing and advising Intellectual property
- Technology transfer/projectization
- Discovering company technology demand

Training Office

- Fostering technical manpower
- Job training
- Developing core curriculum for future vehicle

Vision A reliable partner of Korean companies and contribution to their growth

Goal Knowing our client, 'company', well (communication), and expanding support tools (platform) with a direct influence on the growth of the company (office).

- Expanding base for SW and HW platforms with omnidirectional support for companies
- Enhancing communication channels for causal meetings and getting to know each other deeply
- A support program that can contribute to the company's office qualitative growth

Company support platform

Communication channel

Office quality support program

Global Cooperation

Norway
IFE

Sweden
RISE Research Institute

Finland
VTT

UK
Horiba-MIRA
Vehicle Certification Agency (VCA)
Catapult Energy Sytems
Energy Research Accelerator
Intelligent Energy
Luxfer gas cylinders
Arcola Energy
Loughborough Univ.
Imperial College of London
Nottingham Univ.

Russia
NAMI-FOND

China
China Automotive
Technology & Research Center
Jilin University

Netherlands
Royal Netherlands Aerospace Centre(NLR)

Austria
AMS

Türkiye
Standard profil

UAE
Abu Dhabi Integrated Transport Center

Spain
IDIADA
CDTI
ITAINNOVA
EVARM

ISRAEL
Israel Innovation Institute (III)

India
ARAI
ICAT

France
Mines-paristech
Montpellier
CEA
UTAC

Czech
Czech Technical University in Prague (CTU)

Germany
Fraunhofer LBF
Fraunhofer IKTS
Technischer Uberwachungs Verine .e.
Aachen Univ.
Office in Germany

Belgium
IMEC
Flanders Make
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University of Tokyo (UTmobI)
National Traffic Safety and Environment Laboratory (NTSEL)
KOBELCO Research Institute Inc.

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Office in Vietnam

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Nanyang Technological Univ.

Indonesia
Institut Otomotif Indonesia(IOI)
Office in Indonesia

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Powertechlabs

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University of Southern California (USC)
National Renewable Energy Laboratory (NREL)
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SAE International
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Paraguay
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