

Korea-EU Horizon Europe Researchers Networking Forum on Energy & Advanced Mobility

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(Korea Institute of Civil Engineering
and Building Technology)**

**Research Area:
Advanced Mobility
(Mobility S, etc.)
Project Planning**



1. Short Introduction of your Organization

KICT is "The only national science & technology institute about civil engineering" in Korea

Member Research Institutes

Full Introduction

Member Research Institutes > Full Introduction

We would like to introduce our 23 member research institutes.

Click on each research institute for more information

23 Member Research Institutes

KIST	NIST	KBSI	KRISS	KIST
Korea Institute of Science and Technology (KIST)	National Institute of Green Technology (NIGT)	Korea Basic Science Institute (KBSI)	Korea Research Institute of Bioscience and Biotechnology (KRISS)	Korea Institute of Science and Technology Information (KISTI)
KIOM	KITECH	ETRI	NSRI	KICT
Korea Institute of Oriental Medicine (KIOM)	Korea Institute of Industrial Technology (KITECH)	ETRI (Electronics and Telecommunications Research Institute)	NSRI (National Security Research Institute)	KICT (Korea Institute of Civil Engineering and Building Technology)
KIRRI	KRISS	KFRRI	WIKM	KIGAM
Korea Railroad Research Institute (KIRRI)	Korea Research Institute of Standards and Science (KRISS)	Korea Food Research Institute (KFRRI)	World Institute of Kimchi (WIKM)	Korea Institute of Geoscience and Mineral Resources (KIGAM)
KIMM	KIER	KERI	KRICT	KIT
Korea Institute of Machinery and Materials (KIMM)	Korea Institute of Energy Research (KIER)	Korea Electrotechnology Research Institute (KERI)	Korea Research Institute of Chemical Technology (KRICT)	Korea Institute of Toxicology (KITOX)
KAERI	KIMS	KFE		
Korea Atomic Energy Research Institute (KAERI)	Korea Institute of Materials Science (KIMS)	Korea Institute of Fusion Energy (KFE)		

R&D, research support, and joint research related to research facilities

Green Technology



Korea Institute of Civil Engineering and Building Technology (KICT)

Source technology development and results dissemination in the field of construction and land management

President	Kim Byeongseok
Establishment Date	1983.06.11
Location	KICT, 283, Goyangdae-ro, Ilsanseo-gu, Goyang-si, Gyeonggi-do
Contact	031-910-0114
Homepage	www.kict.re.kr

Key Functions

- To research and develop the advanced performance of the national infrastructure
- To research and develop land to disaster-response technology
- To research and develop the eco-friendly country construction
- To research and develop construction-based convergence and integration
- To research and develop high-performance construction materials
- Quality assurance, certification, designation, inspection, testing, and evaluation of construction works and equipment and materials
- To cooperate in R&D with government, the private sector, corporations, and organizations and commissioning or being commissioned technical services
- Construction and land technology transfer, technology dissemination, commercialization support, and cooperation and support and technology commercialization of related SMEs
- To train professionals specialized in the major mission areas, formulation of construction and land technology policies, major national project implantation support, and development of national standards and criteria for the construction sector

Mission & Function



Mission



Contributing to the development of the construction industry, enhancing people's quality of life, and developing the economic and social conditions of the nation by advancing original technologies and increasing achievements in the fields of construction and land management

Function

Research and Development

- Performance advancement technology for national infrastructure facilities
- Response technology for natural disasters
- Technology for eco-friendly land development
- Technology for construction based convergences
- Technology for high performance construction materials

Policy-Making and Technology Support

- R&D cooperation with governments, private sector, multinational corporations and nongovernmental organizations as well as the implementation of government or private sector commissioned technology services
- Technology transfers related to land and construction, adaptation, commercialization cooperation, and support for related industries including small and medium enterprises
- Nurturing high skilled human resources in primary areas, establishment of technological policies for land and construction, implementation support for major national projects, and development of national standards and construction sector criteria

Quality Certification and Testing Services

- Quality certification for: construction projects, equipment and materials as well as relevant accreditation, designation, inspection, testing, evaluation, and certification



2. Expertise

Dept. of Highway and Transportation Research, KICT,
has always been involved in the development of advanced mobility technology in Korea.

1990 ~ 2010

Road Management
& ITS Foundation

- ✓ Road managing system
- ✓ Traffic control system
- ✓ Traffic inform system
- ✓ Safety analysis
- ✓ National ITS develop

Laid the
foundation
for
national ITS

2010 ~ 2015

Advanced Traffic
Control System

- ✓ Next-generation road
- ✓ Safety inspection vehicle
- ✓ Real-time detection
- ✓ Simulation-based
- ✓ Variable speed limit

Advanced
traffic control
and
road safety

2015 ~ 2020

Road - Vehicle
Convergence

- ✓ Cooperative driving
- ✓ Dynamic map platform
- ✓ Sensor-based prediction
- ✓ Road platform tech.
- ✓ Climate adaptation

Pioneered
road-vehicle
convergence
and MaaS

2020s Future Mobility Research



AV Operation, MaaS, Sustainable Road

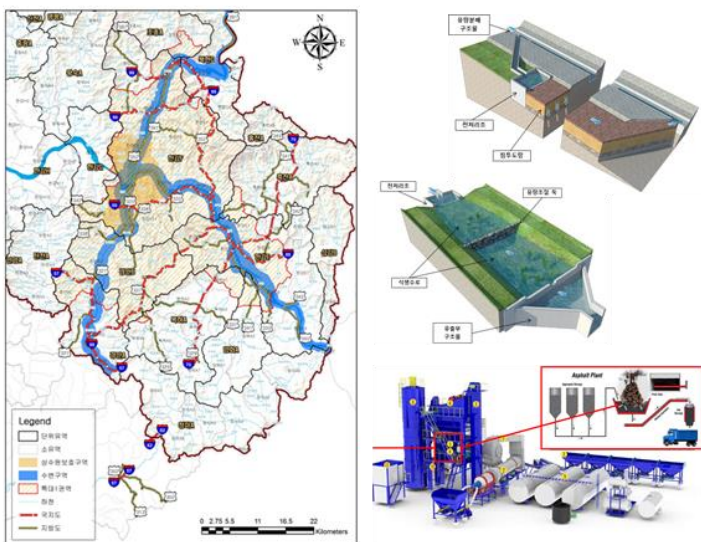


AI-driven autonomous driving infrastructure



3. Your Project Idea

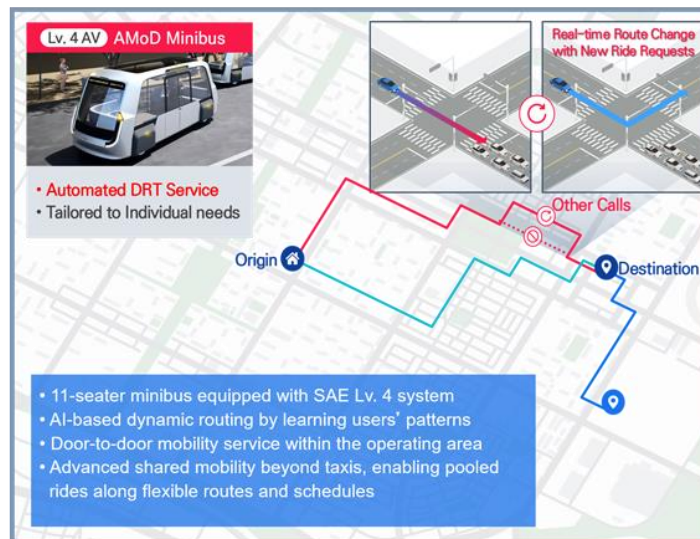
D5-20 : NEE Mitigation



KEY IDEA

- Integrated Framework for NEE Mitigation
- Innovative Road Technologies (Monitoring, Pavement System) for NEE Mitigation

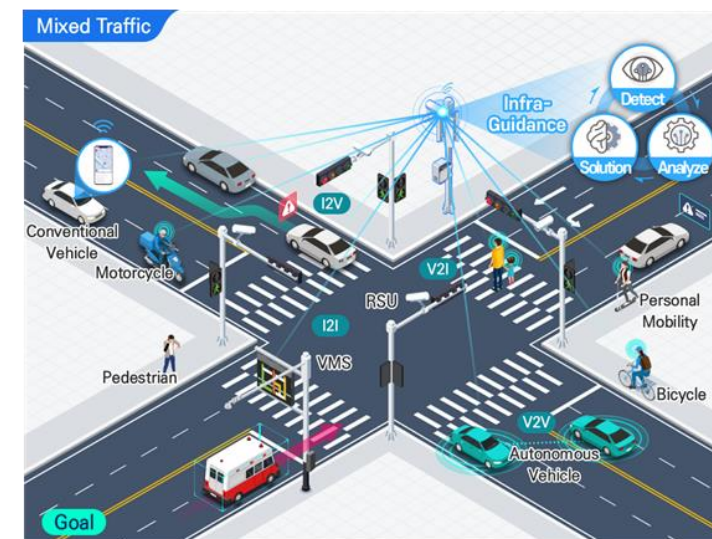
D6-01 : CCAM Demonstration



KEY IDEA

- Validating Effectiveness of CCAM
Large-scale demonstration based on vehicle maneuvering and driver's psychophysiological workload

D6-03 : Gen AI for CCAM



KEY IDEA

- Universal multimodal interface for cooperative guidance based on human-intelligible display of driving intent and optimal behaviors



4. Profile You are Seeking and Why

Full-Cycle Capability for Advanced Mobility

- ✓ KICT's Research Capability includes
 - 70+ research experts
 - A wide research range in advanced mobility
 - : Advanced Infrastructure (pavement, road design, etc.) to Mobility Service(AV, MaaS, etc.)
 - Various test and evaluation facility



Key facility: SOC Demonstration Center

KICT's Strengths in Collaboration for HE Program

Institute-wide Support System

- ✓ KICT's Support System includes
 - Strong intention for international cooperation by president and head
 - Internal collaboration between research departments
 - : Policy, Test & Certification
 - Availability of national/international collaboration relationships for joint research and research outcome application

MOU between
KICT-BAM(Germany)
08/26/2025



NOW WE ARE READY FOR COLLABORATION!



5. Contact Details

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