

Beyond Korea No.1+

Beyond Korea No.1⁺



BEYOND KOREA NO.1⁺



Ministry of Trade,
Industry and Energy

Affiliated organization established
in accordance with Article 41
of the Industrial Technology
Innovation Promotion Act



Ministry of Science
and ICT

Specific research institute
under Article 2 of the
Specific Research
Institutes Support Act



Ministry of Economy
and Finance

Public institution under
Article 4 of the Act on the
Management of
Public Institutions



Ministry of Economy
and Finance

Institute for research and
development purposes under
Article 5 of the Act on the
Management of Public Institutions



Support for Establishment
by UNESCO
Since 1966



Korea's only comprehensive
public testing and
certification organization



Korea Testing Laboratory

www.ktl.re.kr

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TRUST

| Leading Future Industry Growth |
| Protecting Public Safety | Partner for Corporate Growth |
| Leading Balanced Regional Development | Practicing ESG Management |

kti Korea Testing
Laboratory



Advancing into a global green powerhouse of digital transformation and carbon neutrality

through technological support for K-innovation

KTL contributes to securing public safety, improving corporate competitiveness, and increasing export by objectively and accurately verifying if the corporate R&D outcomes meet the performance and safety requirements in domestic and overseas markets.

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KTL improves the nations' industrial competitiveness
and the quality of life of citizens
through testing and certification
and technological support services.



Se-jong Kim,
President of
Korea Testing Laboratory

CEO Greeting

Dear valued customers,

This is Se-jong Kim, President of Korea Testing Laboratory(KTL)

Korea Testing Laboratory (KTL) is Korea's only comprehensive public testing and certification organization that was founded in 1966 with aid from UNESCO for the purpose of establishing a foundation for national industrialization. While Koreans have worked together to achieve the Miracle of the Hangang River over the past half century, KTL has played a role in the country's industrialization with a dream of creating a technological powerhouse. In particular, KTL has contributed to national economic development by supporting industrial "transformation" and "growth," which was unheard of in the past, by fulfilling its duty of supporting companies in improving their quality competitiveness and acquiring export certifications.

KTL will continue dedicating utmost effort to accomplishing tasks required by the times through the full commitment of its members. In doing so, KTL promises the following:

First, in the era of the Fourth Industrial Revolution, digitalization, and eco-friendliness, KTL will lead Korea's advancement into a hegemonic power in the digital economy and transition to a green economy by creating outcomes through the development of international standards for the key Fourth Industrial technologies and testing and evaluation platform establishment and integrating KTL's expertise with strategic industries of the future, such as AI, big data, secondary battery, future mobility, and aerospace.

Second, KTL will contribute to the improvement of the Korean companies quality through test certification evaluation support and technology development consulting, and promptly respond to potential Technical Barriers to Trade (TBT) in line with the rapidly changing global trade environment in order to position as a partner of corporate growth by enhancing the export competitiveness of Korean companies and taking the lead in pioneering the market.

Third, KTL, as Korea's only comprehensive public testing and certification organization, will commit itself to verifying the causes of threats to public safety and removing safety blind spots by making active use of its professional competencies.

Fourth, following the relocation of the head office in 2015, KTL will strive to achieve industrial development at the same time as revitalizing the local economy by working together with local communities and discovering industries specialized for each region.

Lastly, KTL will fulfill its responsibility and duty as a public institution by practicing ESG management to bring benefits to citizens, create an organization culture of communication and harmony, change and innovation, and integrity and fairness, and maximize its competencies accordingly.

Thank you.

KTL Mission & Vision

Mission ▲





Improve the nations' industrial competitiveness and the quality of life of citizens through testing and certification and technological support services

Vision ▲

Beyond Korea No.1+

The nation's leading testing and certification agency that grows with citizens

Strategic Direction ▲

- 
Leading the future business of testing and certification
 Aerospace, digital transformation, future mobility, carbon neutrality
- 
Leading the TIC industry value-up
 Protecting the environment and safety, strengthening customer service, supporting the industrial ecosystem activation
- 
Internalizing the KTL-type ESG management system
 Business and management advancement in E (environmental), S (social), and G (governance) fields
- 
Continuously reinventing the management system
 Strategy advancement, smart and safe workplace, organizational culture of communication and innovation

Core Value

TRUST



TOP



Responsible



U & I






Sustainable



Transparent

KTL People ▲

- 
Top-tier professional talents
 · Expertise · Responsibility · Technological Power · Top Class
- 
Innovative talents that keep on developing
 · Innovative Growth · Leadership · Passion · Positivity
- 
Responsible talents promoting shared growth
 · Communication · Cooperation · Practice · Trust Building

Highest financial integrity ▲



AAA

Consecutively garnered corporate credit rating of AAA



ktl Korea Testing Laboratory

History



Grounds for Establishment

Established according to Article 41 of the Industrial Technology Innovation Promotion Act to support efficiently the testing and evaluation of outcomes of innovation of technology, etc.

Purpose

To verify objectively and accurately if the corporate R&D outcomes meet the performance and safety requirements in domestic and overseas markets

Main Objective

Secure public safety, improve export competitiveness, and contribute to national backbone industry development

Legal Stature

 Ministry of Trade, Industry and Energy Affiliated organization established in accordance with Article 41 of the Industrial Technology Innovation Promotion Act	 Ministry of Science and ICT Specific research institute under Article 2 of the Specific Research Institutes Support Act	 Ministry of Economy and Finance Public institution under Article 4 of the Act on the Management of Public Institutions	 Ministry of Economy and Finance Institute for research and development purposes under Article 5 of the Act on the Management of Public Institutions
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ktl leading future industry growth

KTL studies evaluation methods for technological performance and safety in order to contribute to the successful establishment of the Fourth Industrial Revolution technologies.

Leading the Fourth Industrial Revolution

- Future Mobility
- Artificial Intelligence
- IT Convergence Products
- Bio and Health
- Space Industry
- Aviation Industry
- Smart National Defense
- Robot Industry

Industrial Digital Transformation

- Smart Laboratory
- Digital Platform
- Future Communication

Low Carbon, Green Economy

- R&D for Carbon Neutrality and Resource Circulation
- Clean Hydrogen Certification System
- Smart Green Industrial Complex
- Electric Vehicle
- Intelligent Power Network
- Medium and Large Secondary Battery
- Renewable Energy

Leading the Fourth Industrial Revolution

In the era of the Fourth Industrial Revolution, boundaries between industries are being blurred based on hyper-convergence, hyper-connectivity, and hyper-intelligence, leading to the development of new technologies and products. Accordingly, KTL is studying evaluation methods necessary in securing the safety and reliability of new technologies and products and also contributing to national competitiveness improvement for the Fourth Industrial technologies by swiftly preparing related international standards.

Future Mobility



Evaluate **autonomous driving** scenarios and virtual driving



Test and evaluate the autonomous driving system and driving assist devices



Develop business for establishing a foundation to test and evaluate **urban air traffic**



Develop integrated technology management and testing and evaluation system for public unmanned mobilities

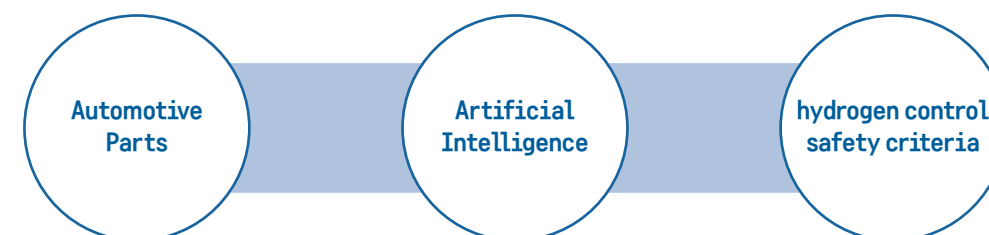


Artificial Intelligence

- ▲ Support **artificial intelligence** software testing and evaluation, promote international technology standardization
- ▲ Support the development and verification of a smart air conditioning technology performance evaluation method

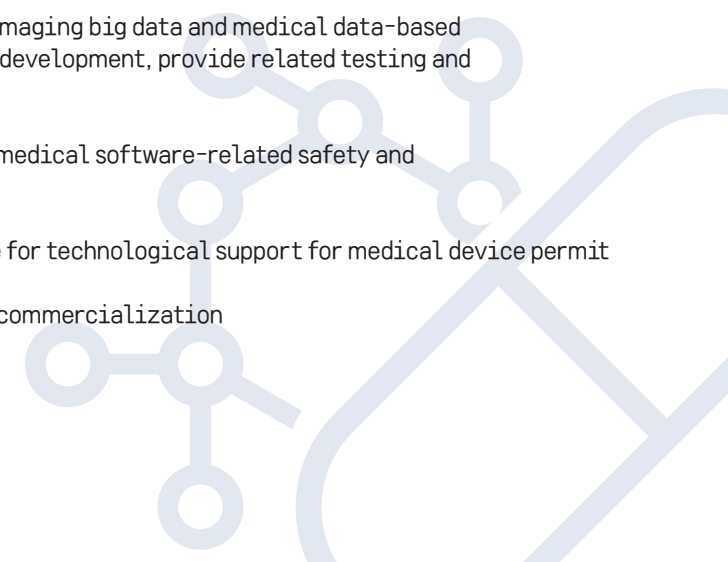
IT Convergence Products

- ▲ Implement government projects related to automotive parts, artificial intelligence, hydrogen control safety criteria, and standardization
- ▲ Implement corporate consignment projects and provide testing and evaluation service in the automotive field, provide KS certification service for automotive accident video data recorder



Bio and Health

- ▲ Support the expansion of medical imaging big data and medical data-based artificial intelligence algorithm development, provide related testing and evaluation service
- ▲ Provide technological support for medical software-related safety and performance evaluation
- ▲ Develop and operate infrastructure for technological support for medical device permit
- ▲ Supporting advanced bio material commercialization



Smart National Defense



Develop the Artificial Intelligence(AI)-based Predictive maintenance business for the national defense field



Develop Korea's only **anti-drone system** performance evaluation and testing service

Robot Industry

- ▲ Conduct R&D in line with the demand from the robot industry, such as developing the testing and evaluation business for **collaborative robot safety certification**
- ▲ Conduct robot and drone performance and safety testing

Industrial robot

Collaborative robot

Service robot

Space Industry

Provide testing and evaluation service by simulating the space environment for space parts and units

Develop space part and unit testing technologies, provide **space industry-related technological training**

Develop, launch, and operate a **micro satellite** for locally customized talent fostering

Aviation Industry

- ▲ Establish the basis for extreme electromagnetic testing and evaluation service for the aviation field
- ▲ Provide electromagnetic compatibility (EMC) testing and evaluation service for aircraft/warplane parts and systems
- ▲ Provide system engineering service for the aviation field, such as analysis of indirect lighting impact on aircraft

Industrial Digital Transformation

The core elements of industrial digital transformation are data and future communication technology. KTL established a data platform necessary for industrial technology innovation and a national standard for data exchange in the smart manufacturing system to ensure swift data sharing among industries. In addition, for the successful exchange of such data, KTL is leading testing and international standard development in the 5G and 6G-based future communication field.

Smart Laboratory

- ▲ Promote testing automation through data-based test design and test equipment link
- ▲ Develop a smart TIC platform (Certi planner, Claydox, Claynet) based on testing and certification operation standardization using new information technologies
- ▲ Prevent report falsification by using 2D bar code and special paper of Korea Minting, Security Printing, & ID Card Operating Corp.
- ▲ Strengthen the reliability of the domestic testing and certification industry by distributing and expanding the TIC platform and lead digital transformation (DT)

Digital Platform

- ▲ Develop big data platform for industrial technology innovation and support data trade activation
- ▲ Establish and provide technological support for the industrial AI conformance evaluation system
- ▲ Provide testing, evaluation, and consulting service for industrial AI data quality, software, and service



- ▲ Establish and verify the national standard for data exchange in the smart manufacturing system (KS X 9101)
- ▲ Evaluate the functions and safety of home appliances, ESS, robot, and smart factory and implement related government projects

Future Communication

Implement research projects in the future communication field and conduct international mobile communication technology standardization activities

Conduct 5G and 6G-based service convergence verification, provide hyper-connected network testing and evaluation service

Provide testing and evaluation service for international certifications on mobile communication conformance (PTCRB/GCF/CTIA)

Evaluate the mobile communication antenna radiation performance (OTA/RSE)

Low Carbon, Green Economy

Based on professional competencies and expertise built over the last half century, KTL supports the development of new technologies required in the "Green Survival" era.

R&D for Carbon Neutrality and Resource Circulation

- ▲ Implement the project to lay the foundation for the industrial byproduct recycling verification support center
- ▲ Conduct R&D for waste-to-energy facilities
- ▲ Study carbon reduction and resource circulation technologies such as for bio gas, eco-friendly new materials, and conversion of manure into solid fuel

Smart Green Industrial Complex

- ▲ Implement the project to develop infrastructure for energy independence in Changwon and Yeosu
- ▲ Develop and support the certification of the RE100 (100% renewable energy) support system

Clean Hydrogen Certification System

- ▲ Promote the introduction of Korea's first **clean hydrogen certification system**
- ▲ Support the expansion of Korean clean hydrogen (K-hydrogen) distribution



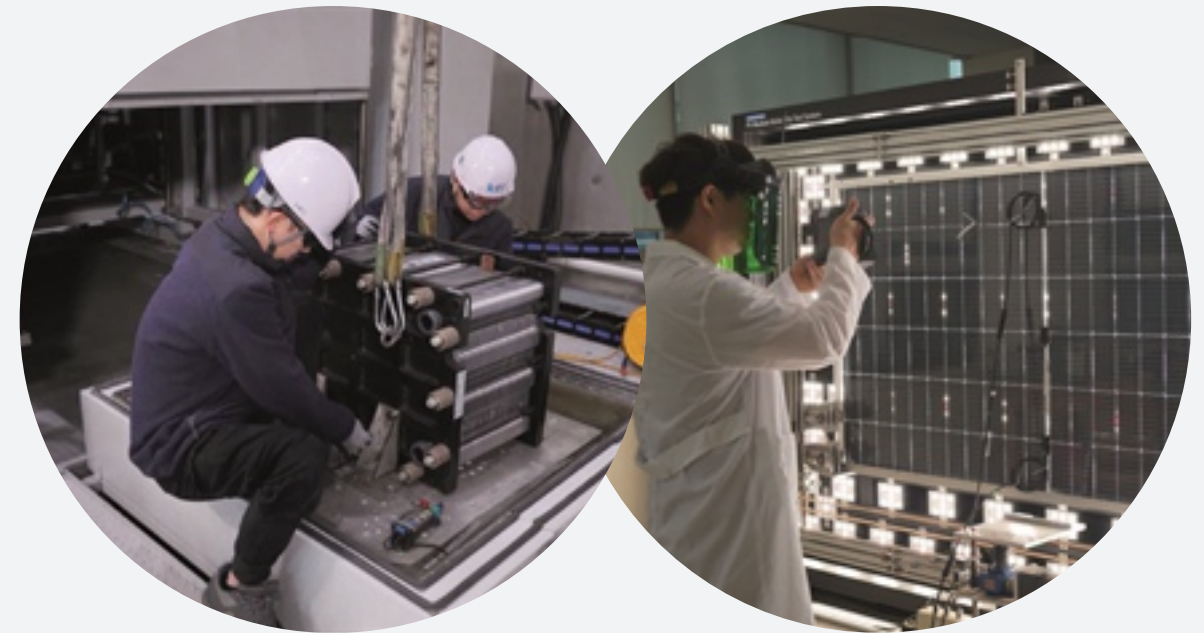
Electric Vehicle

- ▲ Provide communication conformance testing service for electric vehicle charging infrastructure based on ISO 15118
- ▲ Conduct electromagnetic test for the KC safety certification of electric vehicle charger/connector and electric vehicle charger type approval
- ▲ Perform operations related to the type approval of ~ and as an accreditation body for ~ legal meters applied to smart energy metering



Intelligent Power Network

- ▲ Implement government projects for electric power and IT convergence to integrate traditional electrical/electric power technologies and IT



Medium and Large Secondary Battery

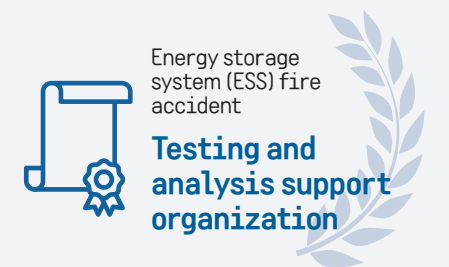
- ▲ Operate Korea's largest medium and large secondary battery testing lab
- ▲ EV/ESS medium and large battery safety and performance test for eco-friendly energy
- ▲ Research projects and engineering consulting for next-generation secondary batteries such as used batteries
- ▲ 2MW class power conversion system (PCS) test evaluation and research project

Removing Safety Blind Spots



Product Safety Day in 2019 for verifying the cause of mobile phone battery fire

Bronze Tower Order of Industrial Service Merit on



Energy storage system (ESS) fire accident

Testing and analysis support organization

Renewable Energy

- ▲ Provide testing and evaluation service for photovoltaic power generation module, inverter, junction box, and solar panel, etc.
- ▲ Implement government projects and develop new business in the renewable energy field

kti protecting public safety

To protect public safety, KTL studies the safety testing and evaluation method for various industrial sectors.

Public Safety

Environmental Measuring Device Performance and Integrity Testing
Simple Measuring Device Performance Certification
Eco-friendly Product Testing
Product Safety
Air Purifier Testing and Evaluation

Industrial Safety

Safety in Industrial Sites (Explosion-Proof)
Software Safety
Environmental Facility Testing, Inspection, and Performance Examination
Environmental Pollutant Measuring and Analysis

National Safety

Electromagnetic Conformance Testing and Evaluation for the Backbone Industry
Performance Verification of Nuclear Power Plant Devices, Facilities, and Parts
Technological Consulting for Reliability in the National Defense Field and According to Private Demand
Testing of and Technological Consulting for Railway Parts
Aviation Security Equipment
Performance Hall and Performance Safety

Removing Safety Blind Spots



Support for the early licensing of K-syringe

Received a citation of the Minister of Food and Drug Safety in 2021



COVID-19 patient transfer cart

First issue of test report



Product Safety Day in 2020

Received a group citation from the Prime Minister



Verifying the cause of mass food poisoning in Ansan

Received a citation from the Gyeonggi-do Nambu Regional Police Commissioner

Public safety

Environmental Measuring Device Performance and Integrity Testing



- ▲ Conduct testing in all areas stipulated by the Ministry of Environment, such as air quality, water quality, drinking water, automobile, soil, and indoor air quality, and provide technological support for the national environmental measuring network

Simple Measuring Device Performance Certification

- ▲ Support the performance certification of simple measuring devices for particulate matter, air quality, water quality, and noise

Eco-friendly Product Testing

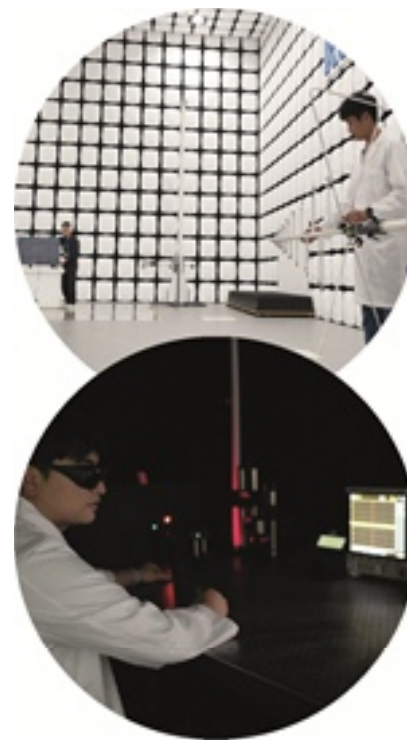
- ▲ Provide testing and certification service for eco-friendly products and building materials
- ▲ Conduct test on health-friendly housing
- ▲ Conduct test on the emission of pollutants from automobile interior materials

Product Safety

- ▲ Support safety and reliability testing and evaluation of electrical devices and parts
- ▲ Conduct video monitoring device (CCTV), home beauty device, photobiology, and laser performance test
- ▲ Test the reliability of electronic parts and products (performance, environmental, life)
- ▲ Conduct safety, energy efficiency, and high-efficiency test on multi-function devices and lighting instruments

Air Purifier Testing and Evaluation

- ▲ Provide the air purification system testing and evaluation service, such as airborne virus/bacteria reduction, hazardous substance, and deodorization test



Industrial Safety

Safety in Industrial Sites (Explosion-Proof)

- ▲ Support the acquisition of explosion-proof certification according to the Ministry of Labor and Employment Notice and IEC, overseas certifications



- ▲ Conduct waterproof/dust-proof, impact resistance, and explosion-proof general type testing
- ▲ Conduct explosion-proof conformance-securing engineering and R&D projects

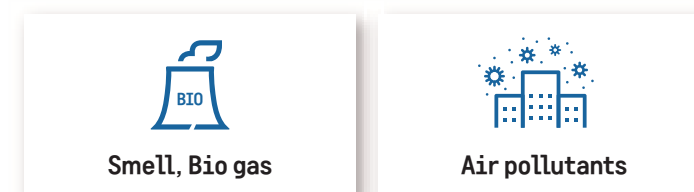
Software Safety

- ▲ Certify the quality of software (GS, KTL Mark) and conduct performance, safety, and conformance testing and evaluation
- ▲ Develop AI, software, and metaverse testing and evaluation, implement government projects for ICT convergence products
- ▲ Commercialize the mobile communication testing and certification platform (CertiPlanner) and develop an international standard

Environmental Facility Testing, Inspection, and Performance Examination

- ▲ Conduct performance test and technological examination on waste (energy) treatment facilities

Environmental Pollutant Measuring and Analysis



- ▲ Support the measurement and analysis of smell, bio gas, and air pollutants
- ▲ Support the measurement and analysis of persistent organic pollutants such as dioxin
- ▲ Conduct testing for the quality labeling of solid fuel products



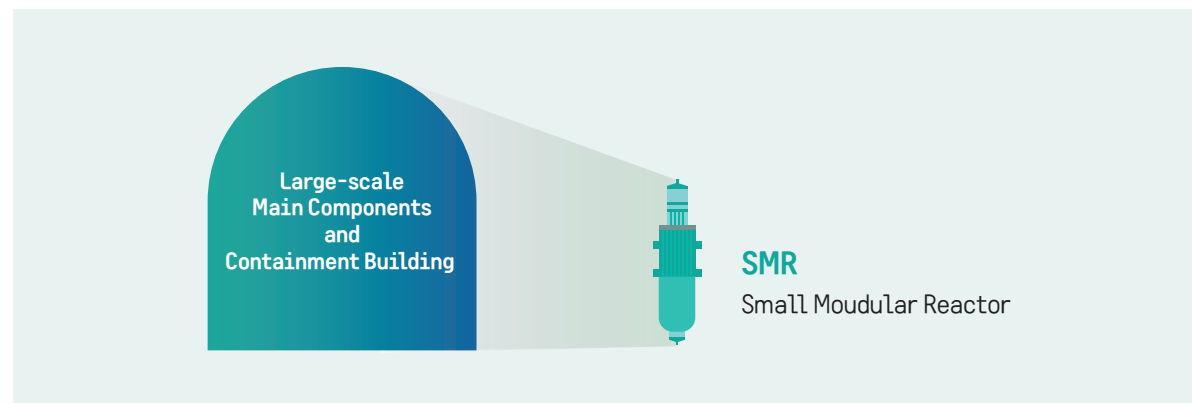
National Safety

Electromagnetic Conformance Testing and Evaluation for the Backbone Industry

- ▲ Conduct EMC test on nuclear power facilities, vessels, railway, and electric meter
- ▲ Conduct a performance evaluation of high-output electromagnetic pulse (EMP) protection facilities and equipment
- ▲ Conduct a performance evaluation of the electromagnetic testing area (chamber and shield room)



Performance Verification of Nuclear Power Plant Devices, Facilities, and Parts



- ▲ Provide testing and evaluation service for nuclear power plant devices and parts, such as small modular reactor (SMR)
- ▲ Conduct a performance verification of devices certified with nuclear power safety level and quality verification of general standard items

Technological Consulting for Reliability in the National Defense Field and According to Private Demand

- ▲ Provide technological consulting for the reliability test of the national defense weapon system
- ▲ Support elementary technology development for weapon system reliability verification

Testing of and Technological Consulting for Railway Parts



Railway Parts

- ▲ Conduct test for railway parts and vehicle type approval
- ▲ Implement railway part and system-related government and commissioned R&D projects

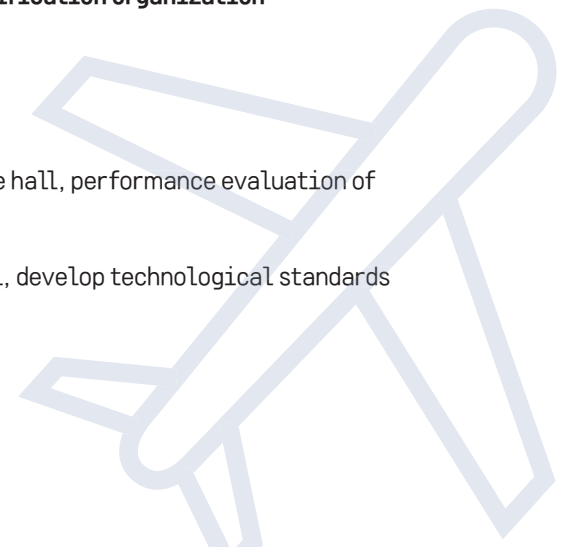


Aviation Security Equipment

- ▲ Provide performance testing and evaluation service for the statutory certification system as **Korea's only traffic security search system performance testing and certification organization**

Performance Hall and Performance Safety

- ▲ Conduct safety inspection on the performance hall, performance evaluation of stage facilities
- ▲ Provide safety training to industry personnel, develop technological standards for stage facilities



ktl a Partner for Corporate Growth

KTL grows with companies by providing a wide range of one-stop services including performance test on corporate technological outcomes, measuring equipment correction, and support for the acquisition of overseas certifications.

Providing One-stop Testing Service

Mechanical System Performance Testing and Optimization
Design/Analysis
Calibration and Testing Service
Noise and Vibration Testing and Performance Evaluation
Testing and Evaluation of Medical Instruments and Supplies
Testing and Evaluation in the Material Field
Wireless and Electromagnetic Conformance Evaluation
Commercial Reference Material Business Development
Energy Efficiency Testing
Certification of Composite Materials for Aircraft

Strengthening Corporate Competitiveness

Industrial Technology Training
K Mark / KTL Mark Certification
Conformance Test and Inspection for Procurement Item
Registration
K-STAR Company Fostering

Supporting the Acquisition of Domestic and Overseas Certifications

Market Development and Export Activation
Global Network

Best Partner for Corporate Growth



Largest number of
government-commissioned projects
in Korea

**54 certification and
designation services**



16,000

240,000

240,000 test reports issued annually for approx. 16,000 companies

Providing One-stop Testing Service

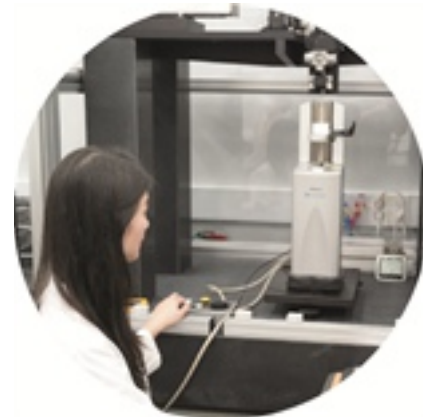
Mechanical System Performance Testing and Optimization Design/Analysis

- ▲ Mechanical part performance testing (environment simulation) and evaluation
- ▲ Evaluate the structural integrity and provide technological support through thermal, structural, and fluid interaction analyses

Calibration and Testing Service

(Korea's largest calibration institute Korea Laboratory Accreditation Scheme (KOLAS))

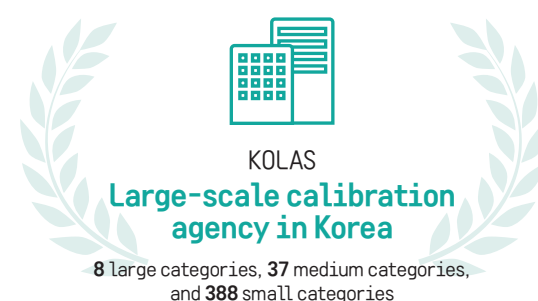
- ▲ Length, pressure, vacuum, temperature, and others KOLAS calibration fixed standard room operation and local on-site calibration service
- ▲ Conduct calibration and testing in the mechanics field, such as for force, torque, pressure, sound, and vibration
- ▲ Conduct calibration and testing in the electrical and electronic field, such as for time, frequency, speed, and AC power
- ▲ Conduct calibration and testing in the engineering physics field, such as for mass, temperature, humidity, fluid flow, and luminous intensity
- ▲ Conduct calibration and testing in the length and shape-related field, such as for length, angle, shape, and composite shape
- ▲ Conduct the calibration and correction of medium and large 3D coordinate measuring meter and laser tracker
- ▲ Operate a KOLAS test lab and conduct local on-site test for heat and temperature, electrical conductivity, pH meter, etc.



Top-tier Quality and Technological Reliability



Best Partner for Corporate Growth



Noise and Vibration Testing and Performance Evaluation



Measure and evaluate the sound pressure and sound power levels, etc. of electronic products and home appliances



Measure and evaluate the floor noise and noise upon construction completion of apartment housing

Testing and Evaluation of Medical Instruments and Supplies

- ▲ Test and evaluate electronic medical devices and in vitro diagnostic devices
- ▲ Conduct testing and evaluation of and ensure cyber security for medical device software
- ▲ Test the biological safety of medical supplies, conduct GLP testing and evaluation on medical instruments





Government and public sector

Won the Korean Reliability Award 2019

Testing and Evaluation in the Material Field

- ▲ Conduct testing and evaluation of ceramic, metallic, chemical, and polymer materials (characteristics, performance, reliability, etc.)

Wireless and Electromagnetic Conformance Evaluation

- ▲ Conduct wireless and electromagnetic conformance testing on domestic and overseas broadcasting and communication equipment according to the Radio Waves Act
- ▲ Conduct electromagnetic conformance testing and evaluation in the mobility field, such as on electric components of automobiles
- ▲ Conduct an electromagnetic test on electronic medical devices specified by the Ministry of Food and Drug Safety
- ▲ Provide testing and evaluation service for the type approval of electric vehicle chargers by the Korean Agency for Technology and Standards



Commercial Reference Material Business Development

- ▲ Establish and operate a general reference material information system

Energy Efficiency Testing

- ▲ Conduct domestic energy efficiency rating and overseas energy efficiency certification testing for home appliances, such as air conditioner, washing machine, and refrigerator

Certification of Composite Materials for Aircraft

- ▲ Support composite material certification and sharing BD as a testing and evaluation organization of composite materials for aircraft

Strengthening Corporate Competitiveness

Industrial Technology Training

- ▲ Provide training for the competency development of industrial personnel and technological and quality improvement of companies, such as training on KOLAS system and ISO auditor course
- ▲ Provide professional technological training for international conformance evaluation and quality management, etc. to help the unemployed secure competitiveness

K Mark / KTL Mark Certification

- ▲ Operate the KTL certification system to certify the performance of technologies and products developed by companies
- ▲ Assure quality by developing product standards, testing products, conducting factory inspection, etc.
- ▲ Certify the AI safety of home appliances and quality of general software products

Conformance Test and Inspection for Procurement Item Registration

- ▲ Provide delivery inspection service as an organization specializing in the management of Public Procurement Service supplies, for the quality management of procurement items

K-STAR Company Fostering

- ▲ Select companies with potential for global growth, technology innovation companies
- ▲ Provide KTL's comprehensive customized intensive fostering program



Supporting the Acquisition of Domestic and Overseas Certifications

Market Development and Export Activation

Provide various services such as testing, inspection, correction, and certification according to standards and technological criteria



Providing the best exporting company support service

160 organizations in 55 countries, the largest in Korea

Supporting the acquisition of overseas certifications based on MOU

Asia Network Forum

ANF

Establishing an Asia-wide certification system centering on ANF member countries

1st

1st in Korea for internationally accredited testing report issuance

Provide consulting service for and support the acquisition of international test report (IECEE-CB) and overseas certifications for export

Provide information on overseas certifications, such as guidelines for the acquisition of certification by country and list of regulatory items

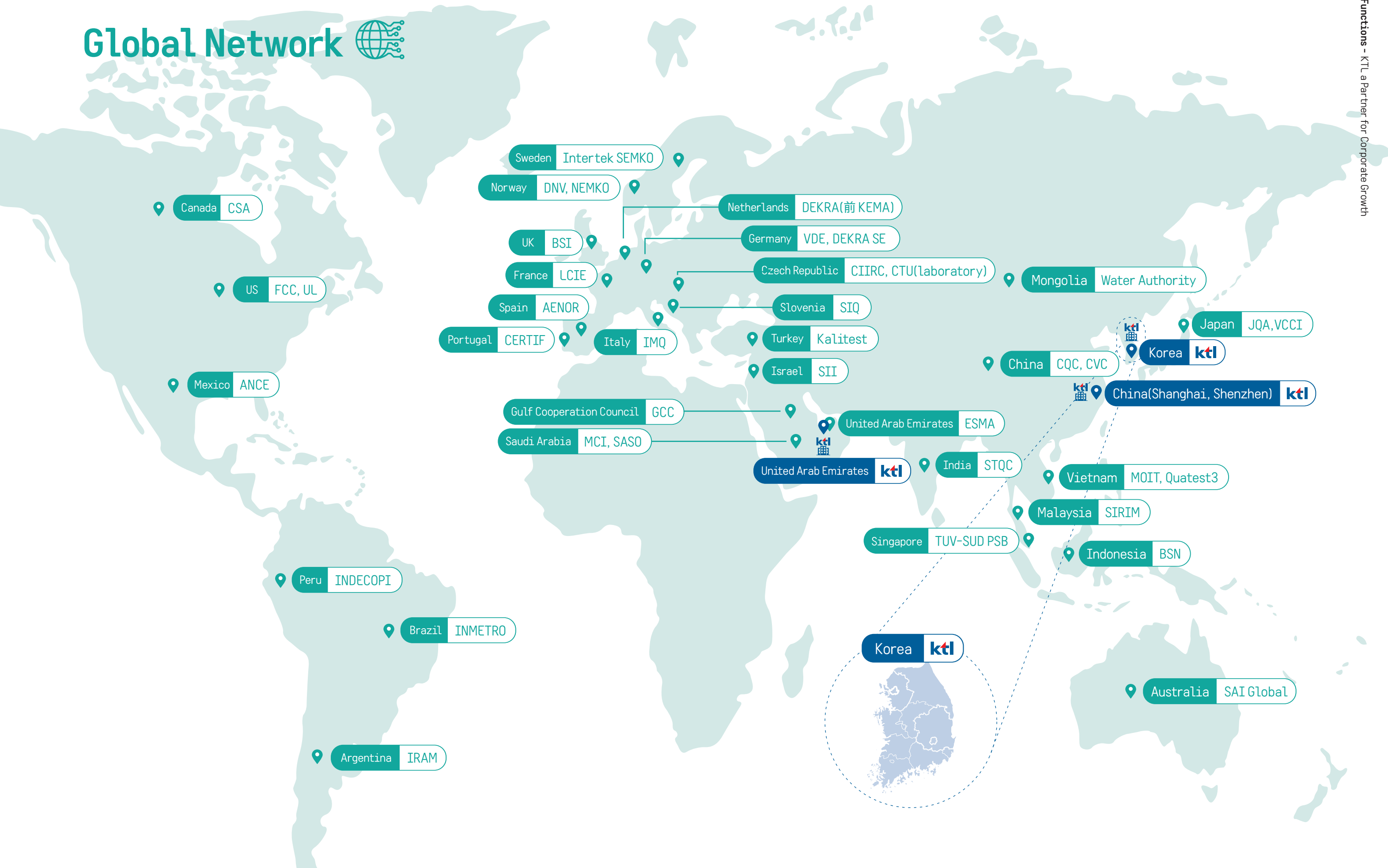
Overseas Certification Information System
www.certinfo.kr

Support the preemptive response to TBT by entering intoMOUs with approx. **160 overseas testing and certification agencies in 55 countries**

Establish an Asia-wide certification system centering on ANF member countries

*ANF (Asia Network Forum)
A consultative body of certification agencies representing Asian countries, such as Korea, Japan, China, Taiwan, Singapore, and Vietnam, to perform international cooperation activities

Global Network



An aerial night view of a city skyline, likely Seoul, with numerous skyscrapers and illuminated streets. Overlaid on the city is a complex digital network of glowing lines and nodes in blue, purple, and red, suggesting a global or regional connectivity theme. The lines radiate from various points across the city, some connecting to specific buildings or landmarks.

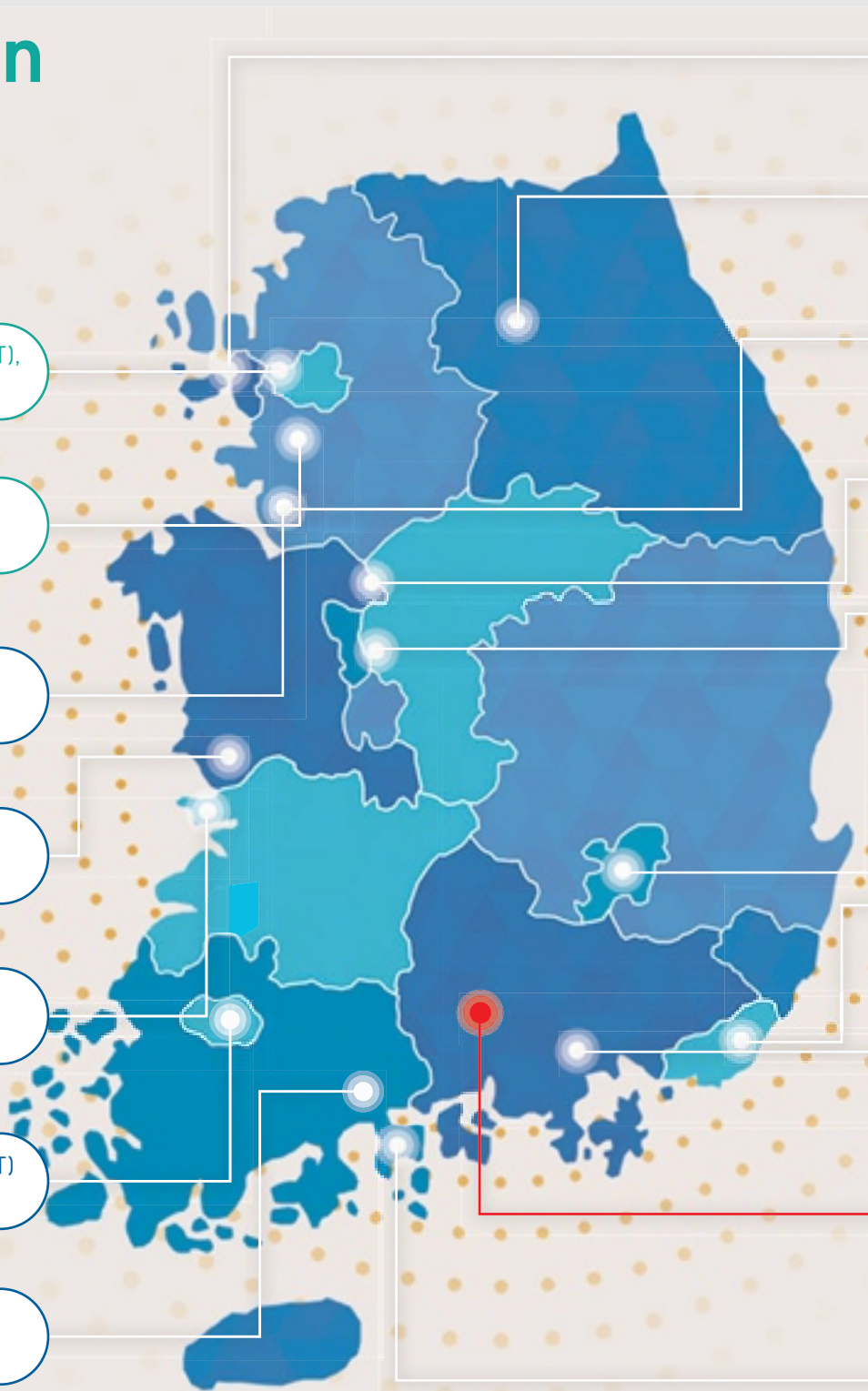
ktl leading balanced regional development

With the nationwide network,
KTL swiftly supports local companies,
discovers specialized industries for regional areas,
and contributes to regional industrial
and economic development accordingly.

Leading Industrial Development by Region

☎ Call Center 080-808-0114

-  **Seoul** Information and communications technology (ICT), convergence, environmental technology, etc.
-  **Ansan** Nuclear power plant devices, future communication technology, securing and correction of industrial technology standards, etc.
-  **Asan** Biological safety evaluation and regeneration/reconstruction industrial technology
-  **Seocheon** Performance testing of aviation security equipment and key Parts
-  **Gunsan** Verification of renewable energy technologies such as for the floating photovoltaic system
-  **Gwangju** Information and communications technology (ICT) convergence performance testing, etc.
-  **Gwangyang** Verification of technologies for the recycling of industrial byproducts



-  **Gimpo** Industrial technology innovation data platform and smart manufacturing
-  **Wonju** Biological safety testing of medical supplies, testing of manned/unmanned mid- to large-scale drones
-  **Hwaseong** Verification of performance and functional safety of IT convergence products, self-driving system
-  **Cheonan** Testing of and international standard development for medium and large secondary battery and used battery
-  **Daejeon** Software quality certification, performance testing and evaluation
-  **Daegu** Medical artificial intelligence (AI) big data platform
-  **Busan** Professional technological training, such as training for quality management and training of the unemployed
-  **Changwon** Smart Green Industrial Complex development, support for companies in Yeongnam/southeastern region
-  **Jinju (Head Office)** Space parts, aviation electromagnetic technology, urban air mobility (UAM), national defense/mechanical/shipbuilding equipment, noise and vibration control, environmental devices, etc.
-  **Yeosu** Smart Green Industrial Complex development, support for companies in the Honam region

kti practicing ESG management

With the goal of creating a better future,
KTL practices sustainable management
based on its professional competencies and expertise.

Environmental

- Strengthen climate change response
- Secure and save energy
- Support solutions for environmental issues
- Disseminate eco-friendly products

Social

- Secure safety for consumers and across the supply chain
- Create tangible social value
- Revitalize the local economy
- Strengthen the safety network, achieve zero serious accidents
- Create an organizational culture for employees' happiness

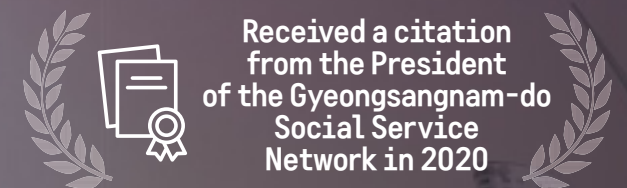
Governance

- Establish the integrity and ethical management system
- Enhance stakeholder value

Creating the best social value



Ministry of Health and Welfare and Korea Social Service Network
Selected for contribution to the local community



Won the Minister of Employment and Labor Award as excellent company in gender equality in employment in 2022



Contribution to local development
Received a citation from the Gyeongsangnam-do Provincial Governor in 2021



Contribution to local development
Contribution to local development



Service in traditional market revitalization
Won the Minister of SMEs and Startups Award
2021

E

Environment

Environmental management to lead sustainable carbon neutrality

Strengthen climate change response

- Conduct R&D in the waste-to-energy field
- Develop a Korean clean hydrogen certification system, activate the hydrogen economy
- Conduct R&D in the environmental field and provide integrated environmental consulting service
- Conduct electric vehicle charger interoperability testing and evaluation

Secure and save energy

- Support nuclear power device performance verification
- Certify the safety of the power conversion device for a large-capacity energy storage system (ESS)
- Conduct efficiency rating and energy consumption efficiency testing for high-efficiency devices
- Provide testing and evaluation service to and establish a certification system for RE100 companies and products

Support solutions for environmental issues

- Provide technological support for environmental devices used in air quality, water quality, automobile, indoor air quality, drinking water, and waste management areas
- Conduct technological examination of environmental pollution prevention facilities
- Measure and analyze environmentally hazardous substances, evaluate greenhouse gas emissions
- Strive to create a pleasant regional air environment and a regional shared growth environment

Disseminate eco-friendly products

- Conduct test for eco-friendly product certification targeting building materials, furniture, and environmental mark-certified products

S

Social

Win-win management by creating a shared growth ecosystem

Secure safety for consumers and across the supply chain

- Certify the safety of explosion-proof devices, medical devices, performance halls, and electrical items
- Assist in the overseas market development of domestic companies by supporting their acquisition of overseas certifications including technological consulting service
- Support companies in overcoming the Technical Barriers to Trade (TBT) by using the network of global testing and certification agencies

Create tangible social value

- Secure competent human resources through fair recruitment
- Expand employment to promote social equality
- Professional technical education, clean environment, support for the underprivileged, etc
- support for the socially neglected class

Revitalize the local economy

- Discovery of regional specialized industries such as aerospace, secondary battery, and bio
- Promotion of community-based social contribution

Strengthen the safety network, achieve zero serious accidents

- Complete the introduction of the health and safety management system (ISO 45001)
- Protect workers' safety and health, create a safe environment by developing a comprehensive health and safety management plan

Create an organizational culture for employees' happiness

- Improve the organizational culture by forming the GWP promotion council
- Strive to create a culture that upholds respect for human rights, internally spread human rights management
- Create a working environment for harmonious work-life balance

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Governance

Ethical management through the establishment of transparent, fair governance

Establishment of integrity and ethical management system

- Spreading a culture of integrity through upright, corruption-preventing activities and by practicing transparent management that meets people's expectations

Improvement of value for stakeholders

- Operating a foolproof public notice system and vitalizing the real-name business system
- Enhancing transparency in management by forming a balanced board of directors

