Press Release

Ministry of Land, Infrastructure and Transport

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OPR: Advanced Logistics Division, MOLIT
#ExcellentNewLogisticsTechnology

MOLIT and MOF seek out new technologies for the future of logistics

The Ministry of Land, Infrastructure and Transport (MOLIT, Minister NOH Hyeong-ouk) and the Ministry of Oceans and Fisheries (MOF, Minister Moon Seong-hyuk) announced the execution plan for the designation of "Excellent New Logistics Technology, etc. (hereafter 'Excellent New Logistics Technology')" for the first half of 2022 on March 7 (Mon), with the aim of encouraging dissemination and utilization of new technologies in the logistics sector.

New logistics technologies that are home-grown or imported from overseas but improved in Korea are eligible to apply for the designation of Excellent New Logistics Technology. Candidate technologies go through technical and on-site examinations conducted by the evaluation committee, which assesses the technologies based on the criteria of novelty, economic feasibility and field applicability.

Through this system, new and outstanding technologies developed by private-sector entities can receive certification from the government. The government provides administrative and financial support to the certified technologies, promoting the development and dissemination of new technologies in logistics.

Technologies designated as Excellent New Logistics Technology can use the mark of certification for up to 10 years*. Benefits for Excellent New Logistics Technologies include ① priority in the provision of support funds (e.g. technology development fund), ② priority in public procurement, and ③ additional points in tenders, to name a few.

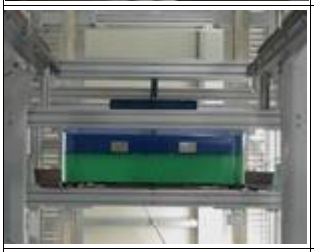
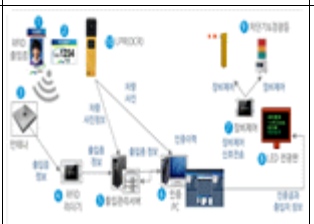
> * After the initially protected designation period of 5 years, the period of designation may be extended once for an additional period of maximum 5 years, after reviewing utilization results of the technology, etc.

The Excellent New Logistics Technology certificate was introduced in 2020 to promote wide-spread application and utilization of new technologies in the logistics sector. As of now, 7 new technologies have been certified as Excellent New Logistics Technology (MOLIT: 5, MOF: 2).

The technologies designated can be applied to a variety of areas in the field of logistics, such as converting diesel delivery trucks into hybrids, and building robots to handle cargo at logistics centers.

"Logistics and delivery services are essential to our everyday life, and this sector needs to development further with new technologies," said officials from MOLIT and MOF. "We hope to see more active participation from individuals and businesses with innovative new technologies, so that going forward, this certification will stimulate technology development in Korea's logistics sector."

Cat.	Photo	Content

MOLIT		<# 1> **Hybrid conversion technology for diesel delivery truck (KAIST)** ○ Converting the diesel drive train of a small-sized diesel truck (about 1 ton) into a hybrid diesel-electric drive system by retrofitting an electric motor
		<# 2> **Real-time logistic information monitoring system using smart weight sensors and unmanned Weigh-in -Motion scales (UDNS Co., Ltd., UDICO Co., Ltd.)** ○ Monitoring the weight, image, and location of a freight vehicle in real time with smart weight sensors installed on the vehicle and unmanned WIM scales installed in the access roads to warehouses
		<# 3> **Warehouse shuttle system for storage/picking automation (Lab2 Market)** ○ A warehouse shuttle system that facilitates storage, transport, and picking of cargo boxes weighing less than 50kg through automated adjustment of fork width to fit the size of each box and lowering/lifting of the stored boxes
		<# 4> **Smart warehouse facility management system using digital floor plans of warehouse layout (Kins Media Co., Ltd., Son Byeong Seok)** ○ Managing warehouse facilities by digitizing the floor plan of a warehouse, dividing the space by facility management unit, and matching the data of facility assets with the digital floor plan
		**<# 5> Loading/unloading robot that loads/unloads cargo from truck and containers (Korea Railroad Research Institute, Nova Co., Ltd.)** ○ An loading/unloading robot system with a multiple-loading/unloading equipment entry module, an automatic manipulator, a shock absorber, and image-based picking algorithm for loading/unloading cargo (taking 30 minutes to load/unload 1,500 boxes on a 11-ton truck)
MOF		**<# 2020-01> Multiple-data grouping technology to address tag recognition errors and non-separation (KLNet)** ○ A port access security system that applies mapping technologies to group data on the number of people and the LPR image of vehicles entering the port, in case of access tag recognition errors.
		**<#2021-01> Container crane rail fasteners and the fastener installation technology for earthquake damage recovery (Daekwang Engineering Co., Ltd.)** ○ An adjustable crane rail fastening solution that enables rapid recovery in the event of an earthquake or ground subsidence