



Smart Construction EXPO

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The smartest construction innovation technology of the year with the 5 winners of the Smart Construction Challenge 2023, including artificial intelligence (AI) CCTV and anchor robots, etc. awarded at the Smart Construction EXPO on the 22nd

The Ministry of Land, Infrastructure and Transport (MOLIT, Minister WON Hee-ryong) announced the winners of the Smart Construction Challenge 2023 (Aug. ~ Nov. 2023), which is promoted to support the revitalization of excellent smart construction technology.

The Smart Construction Challenge, which is celebrating its 4th anniversary this year, is an event hosted by the MOLIT and organized by related public institutions for the five technology fields* such as safety management, complexes/housing, roads, railroads, and building information modeling (BIM) to evaluate technology demonstrations and so forth.

* ① Safety Management: Korea Authority of Land and Infrastructure Safety ② Complexes/housing: Korea Land and Housing Corporation ③ Roads: Korea Expressway Corporation ④ Railroad: Korea National Railway ⑤ BIM: Korea Institute of Civil Engineering and Building Technology

The MOLIT Award (1 team, prize of KRW 30 million) in each of the five fields and the Public Institution Awards (3 teams, prize of KRW 10 million) were selected, and the technologies that won the MOLIT's Ministerial Award are as



follows.

- (Safety management) Improvement of intelligent CCTV function by applying AI technology to prevent construction accidents
- (Complex/house) Construction robot technology that automatically installs anchors on the ceiling
- (Road) Automation platform for the management of roads' life cycle using unmanned drones
- (Railway) Railway station management using digital twin technology
- (BIM) Design automation and collaboration solution using BIM

For each excellent technology that receives the Ministerial Award of the MOLIT, there will be supported with prize money, priority application of technology verification, pioneering sales to public institutions, and additional points when selected as Small Giant Companies* next year.

* Selected starting this year to provide intensive support to smart construction SMEs with great potential

The Awards Ceremony and their presentation for the Ministerial Award winners will be held at the Smart Construction EXPO 2023*, which is scheduled from Wednesday 22 November to Friday 24 November.

* For more information, please refer to the website (<http://smartconexpo.com>)

MOLIT's Director General for Technology and Safety Policy KIM Tae-oh stated, "Through this Challenge, we could acknowledge the interest and expectations for smart construction not only in the existing construction industry but also in various industries.", adding that the MOLIT will continue to make efforts to spread out smart construction sector.