

# MoU signed to develop AI smart farm for 'Damyang Strawberry'

- GIST, Damyang-gun, and Korea Bio-Healthcare Technology Research Association held an agreement ceremony on the 27th



▲ GIST, Damyang-gun, and Korea Bio-Healthcare Technology Research Association signed a business agreement to vitalize strawberry farming in Damyang-gun at 11:00 am on the 27th (Tue) in the meeting room on the 2nd floor of the GIST administrative building and are taking commemorative photos. (From left) GIST President Kiseon Kim, Damyang County Mayor Byung-no Lee, Korea Bio-Healthcare Technology Research Association Vice Chairman Jin-seong Park

GIST (Gwangju Institute of Science and Technology, President Kiseon Kim), Damyang-gun, Jeollanam-do, and the Korea BioHealthcare Technology Research Association have signed a business agreement to grow new varieties of strawberries, precision agriculture\*, and develop and distribute artificial intelligence smart farm technologies.

GIST, Damyang-gun, and Korea Bio-Healthcare Technology Research Association held a meeting on December 27th (Tuesday) at 11:00 am in the large meeting room on the 2nd floor of the GIST administrative building with GIST President Kiseon Kim and Damyang-gun Mayor Byung-no Lee, and a business agreement ceremony was held in the presence of Korea Bio-Healthcare Technology Research Association Vice Chairman Jin-seong Park and officials from related companies.

\* precision agriculture: It is a production method that maximizes production while minimizing input resources such as fertilizer, water, and labor by utilizing various information and communication technologies (ICT). It is a system that collects and analyzes information on factors affecting crop cultivation to optimize agricultural production management efficiency by minimizing unnecessary agricultural materials and work, and is attracting attention as a way to solve all manpower shortages, land shortages, and climate change in rural areas.

Through this business agreement, three organizations, including GIST, will cooperate on △ artificial intelligence smart farm research and technology distribution cooperation △ cooperation in supporting variety characteristics and cultivation technology information for new varieties of Damyang strawberries

abroad △ artificial intelligence smart farm field and joint participation in government support projects such as development of new strawberry and cultivation technology △ joint use of S/W and H/W owned by institutions △ cooperation in production of new strawberry cultivation manuals based on big data in the agricultural environment △ cooperation in developing deep learning algorithms and hyperspectral analysis model tools.

In 2010, Damyang Strawberry completed geographical indication registration (No. 70) for the first time in Korea in the strawberry sector, and was objectively certified for its excellence in taste and aroma. 'Jukhyang' and 'Merry Queen', which are self-developed varieties of Damyang-gun, are globally recognized as the best varieties in terms of sugar content, hardness, fruit shape, and fragrance.

Damyang-gun is investing 30 billion won in national and military expenses to create an advanced agricultural technology complex using AgTech (AgTech = Agriculture + Technology), which increases productivity based on individualization and precision by applying state-of-the-art technology to agricultural production. are running a business. Through this business agreement with GIST, etc., it is expected to develop and introduce AgTech that can be applied in the field, such as agricultural ICT (information and computer technology), drones, agricultural robots, and cultivation of high value-added precision agricultural products.



▲ GIST President Kiseon Kim, Damyang County Mayor Byung-no Lee, Korea Bio-Healthcare Technology Research Association Vice Chairman Jin-seong Park are taking a commemorative photo with Damyang-gun's representative specialty, strawberries.

President Kiseon Kim said, "GIST's artificial intelligence technology will be able to contribute to the dissemination of new strawberry breeding technology to be developed by Damyang-gun by analyzing big data related to Damyang strawberry cultivation environment, growth technology, crop efficacy and ingredients in smart farms. We will strive to help develop the local economy and increase farm household income through science and technology."

Damyang County Mayor Byung-no Lee said, "Based on this agreement, the 'Damyang-type smart farm complex' is created to create a 'well-off rural village' so that the data and information accumulated by agricultural experts have great added value. We will do our best to build Damyang, the central city of high-tech agriculture where young people visit."

