ESTABLISHMENT OF SMART FARM INNOVATION VALLEY

- Creating an industrial ecosystem in which mutual growth of the upstream and downstream agricultural industries are promoted
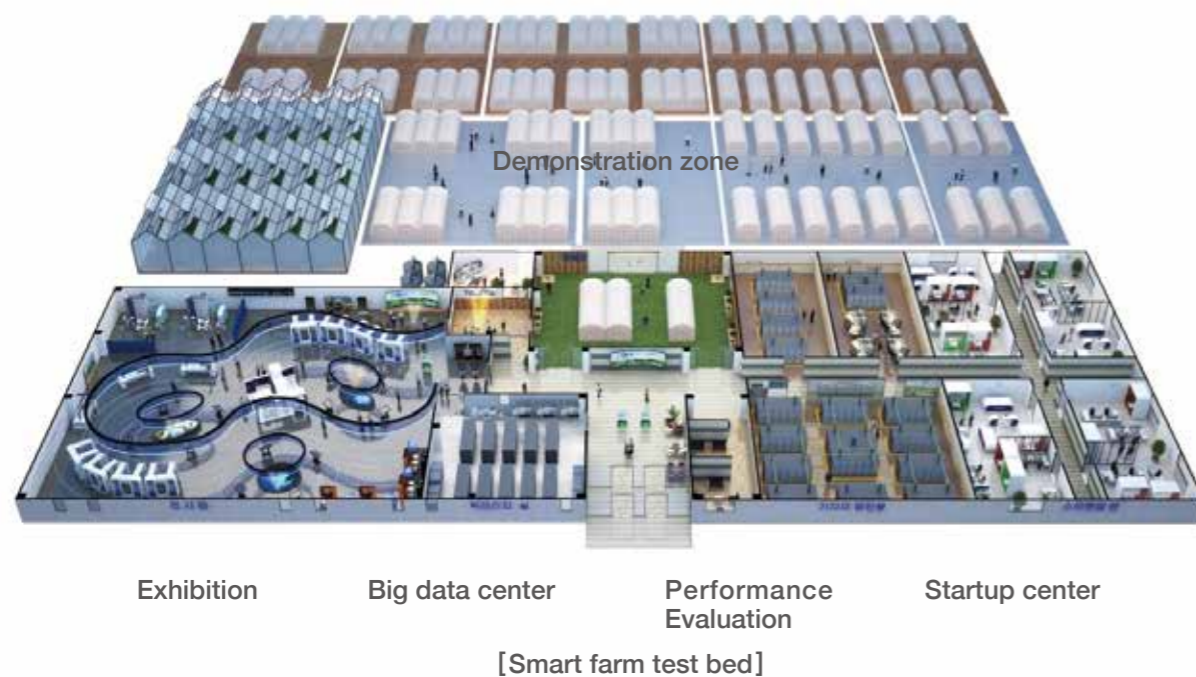
■ BACKGROUND

- Agricultural sector in Korea is facing challenges including ageing population, climate change and environmental issues.
- Smart agriculture is the best responsive measures to enhance food safety and productivity through precise data-based environmental control and growth management.
- Among others, since 2018, the government has been setting up ICT-based agriculture clusters, "Smart Farm Innovation Valleys".They are multi-purpose venues consisting of smart farms facilities for rent, training centers, research institutions and test sites, opening up opportunities for young smart farmers and startups.
- The construction of the first two Smart Farm Innovation Valleys selected in 2018 will start in 2019 and two additional sites are expected to be built.

■ RESPONSIBLE BODY

- Ministry of Agriculture, Food and Rural Affairs

■ PLANNED EFFORTS IN DETAIL

- Four Incubation Centers will be established by 2022 to nurture young talents
  - ▶ Long-term training programs for smart farm specialized workers (500 young professionals by 2022)
  - ▶ Lease Smart Farms facilities for the youths

Exhibition   Big data center   Performance Evaluation   Startup center

[Smart farm test bed]

- Smart Farm test beds to be established for businesses (machinery and material, food and bio)
  - ▶ Joint development of new products and technologies with farmers and research institutes
  - ▶ Establish a consultative body of businesses and research institutes
  - ▶ Cultivation test of high value crops
- Standard for collecting quality big data in the Innovation Valley to be prepared and big data collection by farm to be expanded
- Smart farming will be expanded from greenhouse horticulture to livestock and upland farming to smartify overall agri-food industry
  - ▶ Smart stable with automation of temperature and humidity management and feed supply
  - ▶ ICT-based Pilot Complex for smart livestock

■ OUTCOMES

- Three pilot centers were selected in 2018
- 60 trainees were selected for education

■ WAY FORWARD

- Construction of four valleys to be completed by 2022

[Smart farm innovation valley, bird's eye view]