

01 • Hello, We are

## Girls in loT 2019

02

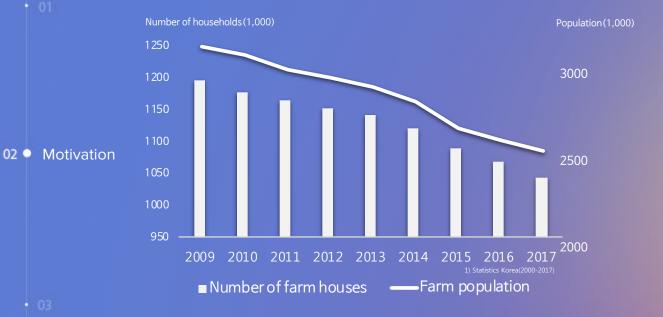
03

Guardians of Agriculture

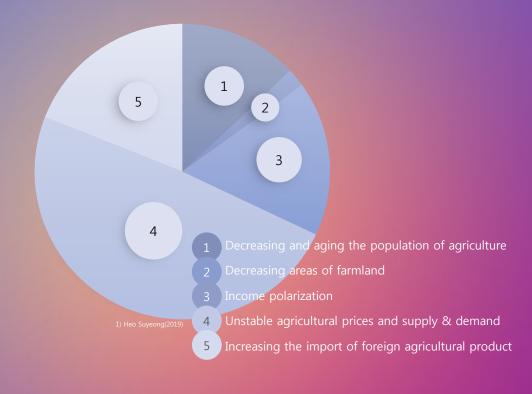
- 04



## **Decreasing and Aging the Population of Agriculture**



## Biggest Problems in Agricultural Society



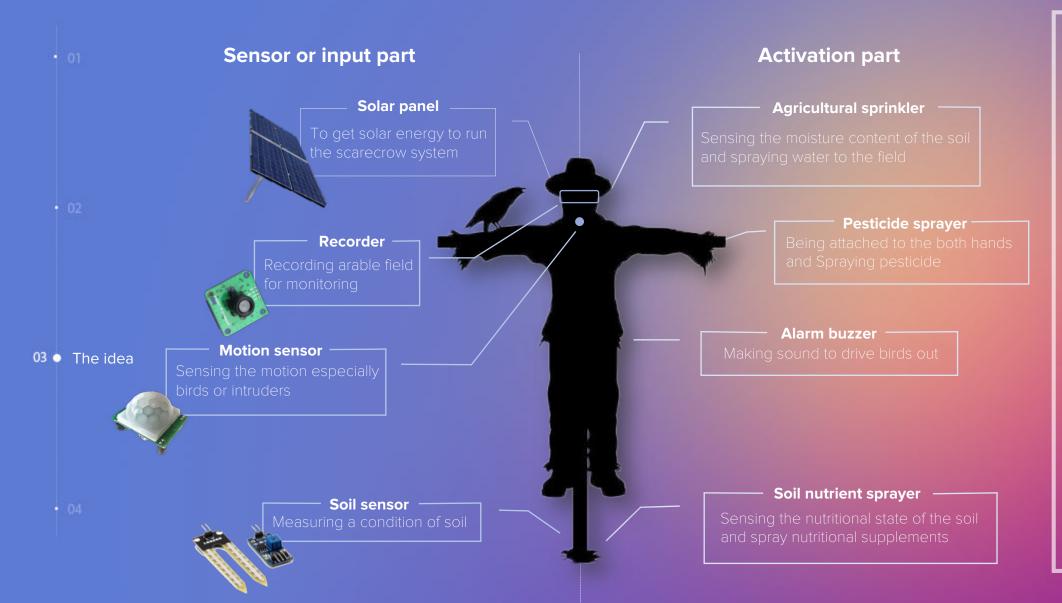
- The age of people working in agriculture is getting older
- Young people tend to avoid working in agriculture
- The population in agriculture is getting decreased

IoT Scarecrow

- Supposing **alternatives** to vitalize agriculture
- Increasing the convenience of current agricultural people
- Encouraging various age groups to engage in agriculture



## IoT scarecrow



- a. We consider the
  environment and energy
  utilization using solar
  panel because of its trait
  that is always exposed to
- b. We use the soil sensor to measure condition of soil and spray water or soil nutrient automatically.
- c. it also can spray pesticide regularly.
- d. It monitors the field through the recorder, even if it cannot take a large area, however, we can install many scarecrows on cultivation areas, so it does not matter.
- e. It also has a buzzer to drive harmful intruders especially birds away.



Increasing convenience by the automation:

- → Making an influx of young people
- → Helping the mitigation of aging

- → Being possible to supply optimal nutrients

- → Being able to save time

Producing sustainable energy for IoT sensors:

- → Maximizing the **efficiency** of energy use

04 • Benefits