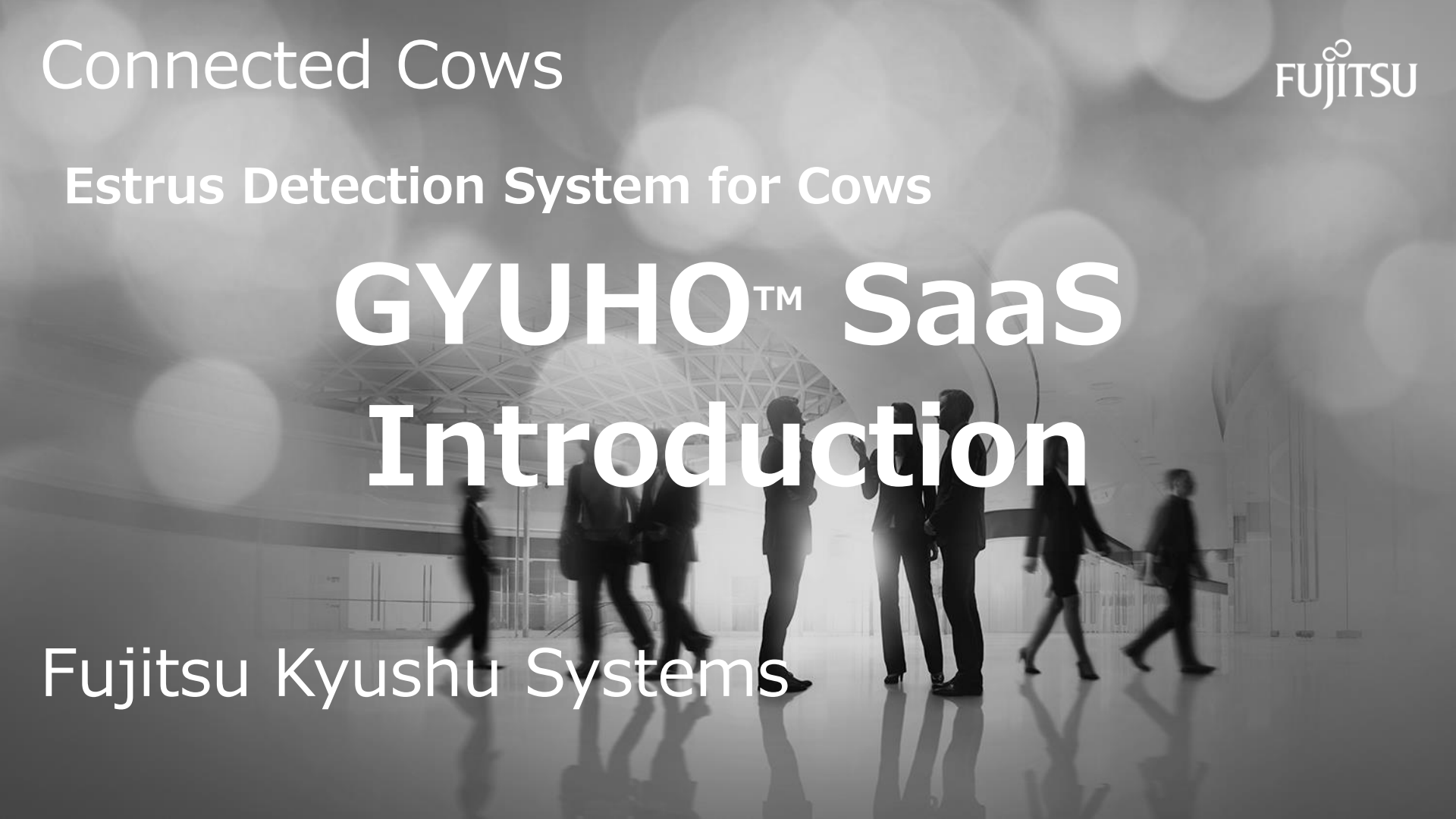
Connected Cows

FUJITSU

Estrus Detection System for Cows

GYUHO™ SaaS Introduction



Fujitsu Kyushu Systems

GYUHO™ SaaS Overview

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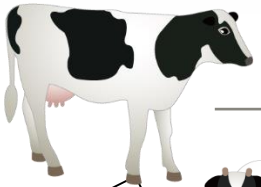
- A system that efficiently increases cattle yield by detecting estrus, based on changes in cow's behavior patterns.
- The main advantages of this system include:
  - ✓ Recognition of the best timing for insemination by detecting estrus.
  - ✓ Early detection of conception as well as due date prediction becomes possible according to the state of estrus after insemination.
  - ✓ Notifications can be received at any time and any place.

System Overview

Farm



Sending data every hour from pedometer within 150m radius from receiver

Receiver
Antenna

Pedometer

1.Sending steps data

Internet

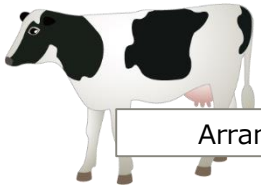
Receiving steps information

Fujitsu manages Servers

Fujitsu estrus info

2.Automatically sending feedback information to mobile phone/smartphone etc.

Farmer



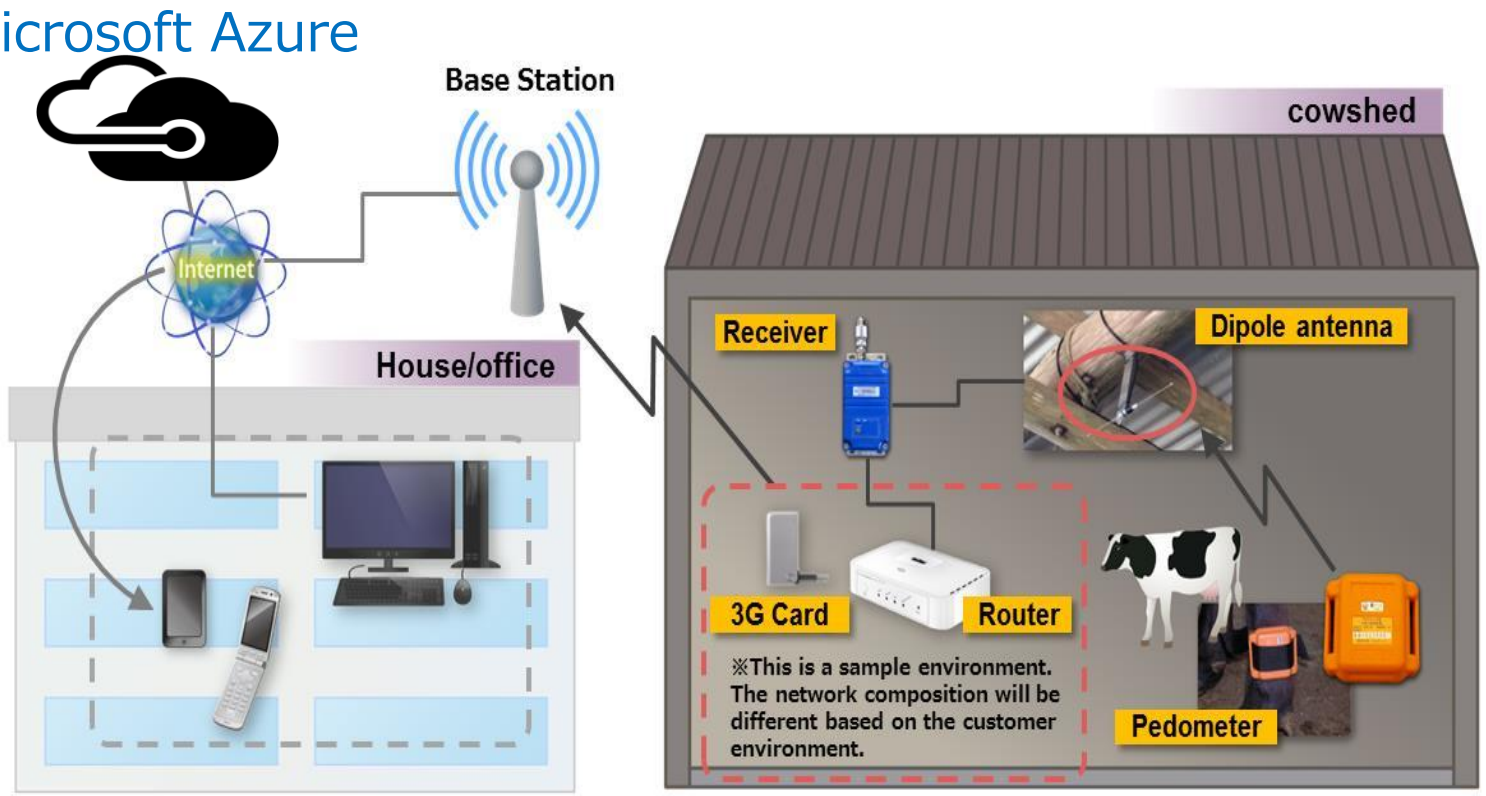
3.Confirming detailed information on PC

Arranging insemination

Data center

- Putting together every farmer's information
- Production planning

Standard device composition



Device overview

- Pedometer
  - ✓ Waterproof and dustproof structure in a completely sealed
  - ✓ Size: W 78.0 x D 71.5 x H 29.0
  - ✓ Weight: approx 120g
- Receiver
  - ✓ Size: W 65.0 x D 41.0 x H 105.5
  - ✓ Weight: approx 270g

Pedometer Receiver

The effect of the introduction in Japan

- It became possible to detect estrus in 1,150 cows with less manpower, and production milk yield increased.

- Average insemination success was improved to 1.58 attempts from 2.0-2.5 attempts.

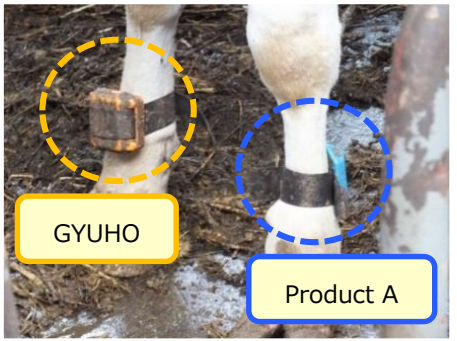
The effect of the introduction in Korea

- Average calving interval was shortened to 354 days from 402 days.
- Male cattle birth ratio was increased.
  - ✓ As a result, an increase of 740,000 KRW (US$645) per head per year is expected.

The effect of the introduction in Poland

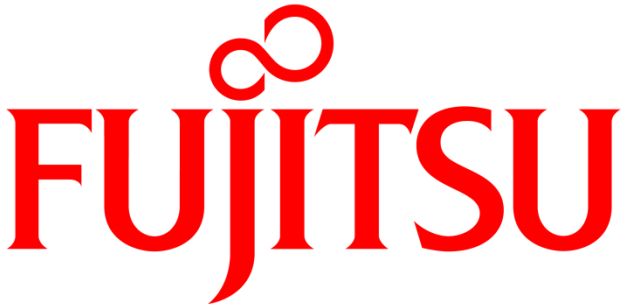
FUJITSU

- Compared to other products for estrus detection, GYUHO achieved the following results.
  - 1st Farm: GYUHO 98.4%, “Product A” 91.9%
  - 2nd Farm: GYUHO 98.3%, “Product A” 96.7%



- GYUHO provides real time monitoring and notifications, but “Product A” collects data only 2-3 times per day.

GYUHO SaaS can help livestock farmers.



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