Cloud Livestock System

System Summary

Cloud Livestock system is an innovative software solution that helps to effectively manage the health and welfare of cattle. It incorporates a range of features and tools designed to provide cattle farmers and veterinarians with an easy–to–use and comprehensive platform for monitoring and tracking the health and wellbeing of their herds.
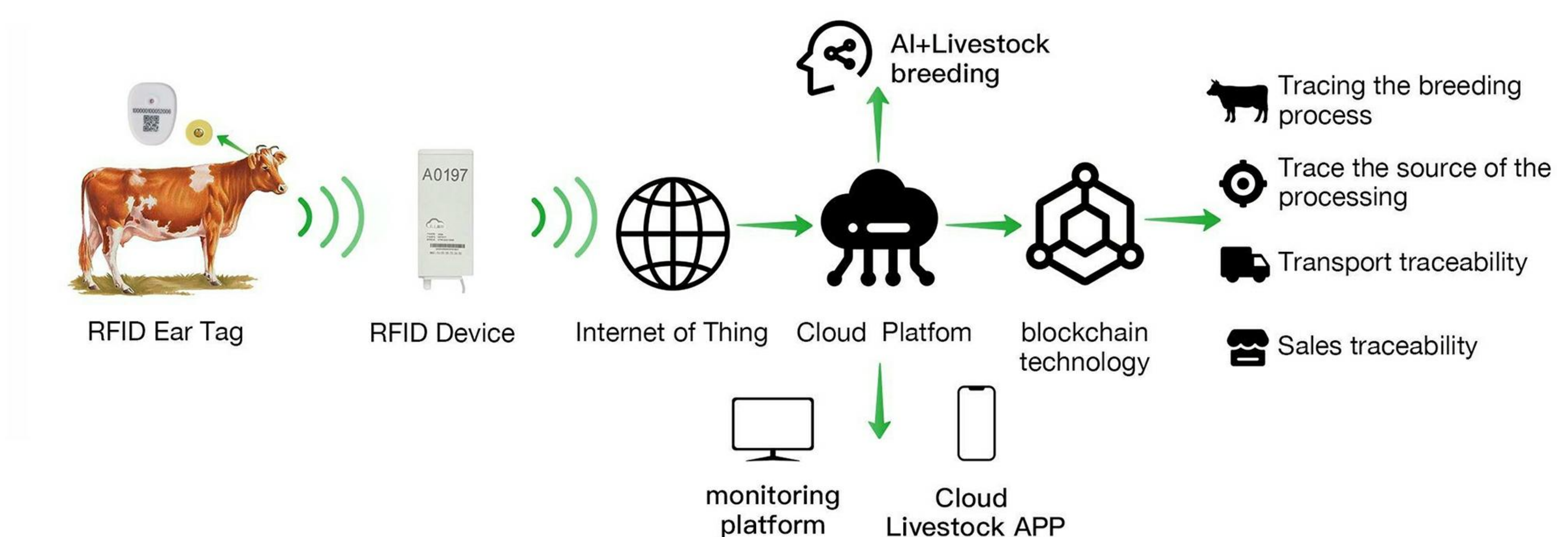
By providing real–time data and alerts, the Cloud Livestock System enables farmers and veterinarians to quickly detect any potential health problems before they become serious, and take proactive measures to prevent the spread of disease or infection. The system also offers extensive reporting capabilities, allowing for easy analysis of the herd's overall health status and the efficacy of any interventions.

The biochip ear tag independently developed by our company collects the life characteristics of the cow every second. Through AI artificial intelligence, it can push the health status of the cow, monitor the cow's estrus, monitor the birth of the cow, and trace the entire life chain of the cow. Every second They are all collecting information on the vital characteristics of cattle. Currently, Xinjiang Hualing Group, Guizhou Yellow Cattle Group, Yunnan Pengxin Agriculture and Animal Husbandry, and Rongqiao Group are all using them.

System Architecture

Cloud livestock is composed of Internet of Things +AI artificial intelligence + blockchain technology

RFID Ear Tag → RFID Device → Internet of Thing → Cloud Platfom → blockchain technology

AI+Livestock breeding

monitoring platform   Cloud Livestock APP

Tracing the breeding process
Trace the source of the processing
Transport traceability
Sales traceability

Main Function

01 Automatic inventory
The temperature and movement data of livestock are automatically collected and uploaded to the cloud in real time, and the breeding quantity and location data are automatically collected in real time.

02 AI Estrus alert
AI estrus reminds to plant frozen essence in time to reduce losses and improve breeding benefits
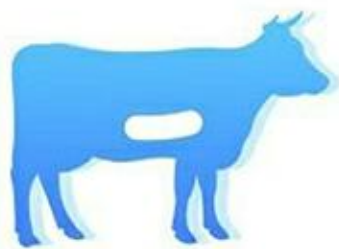
03 AI Death detection
AI death judgment timely inform the insurance institution, realize online claim settlement, reduce labor costs.

04 AI Health prediction
AI algorithms analyze the health status of livestock to effectively prevent disease transmission and reduce mortality

05 AI Birth prediction
AI birth prediction can avoid dystocia of livestock, reduce the risk of mother calf death, and ensure breeding benefits.
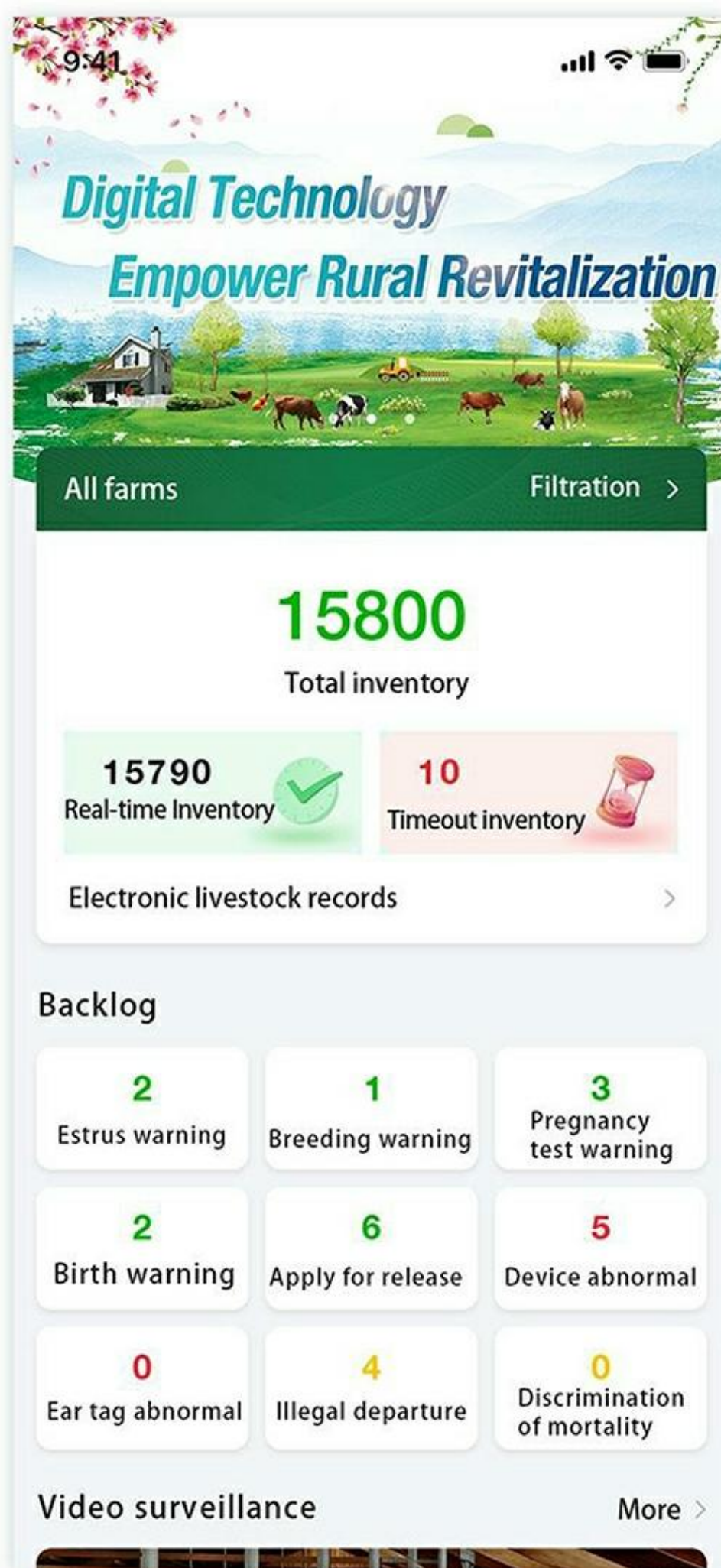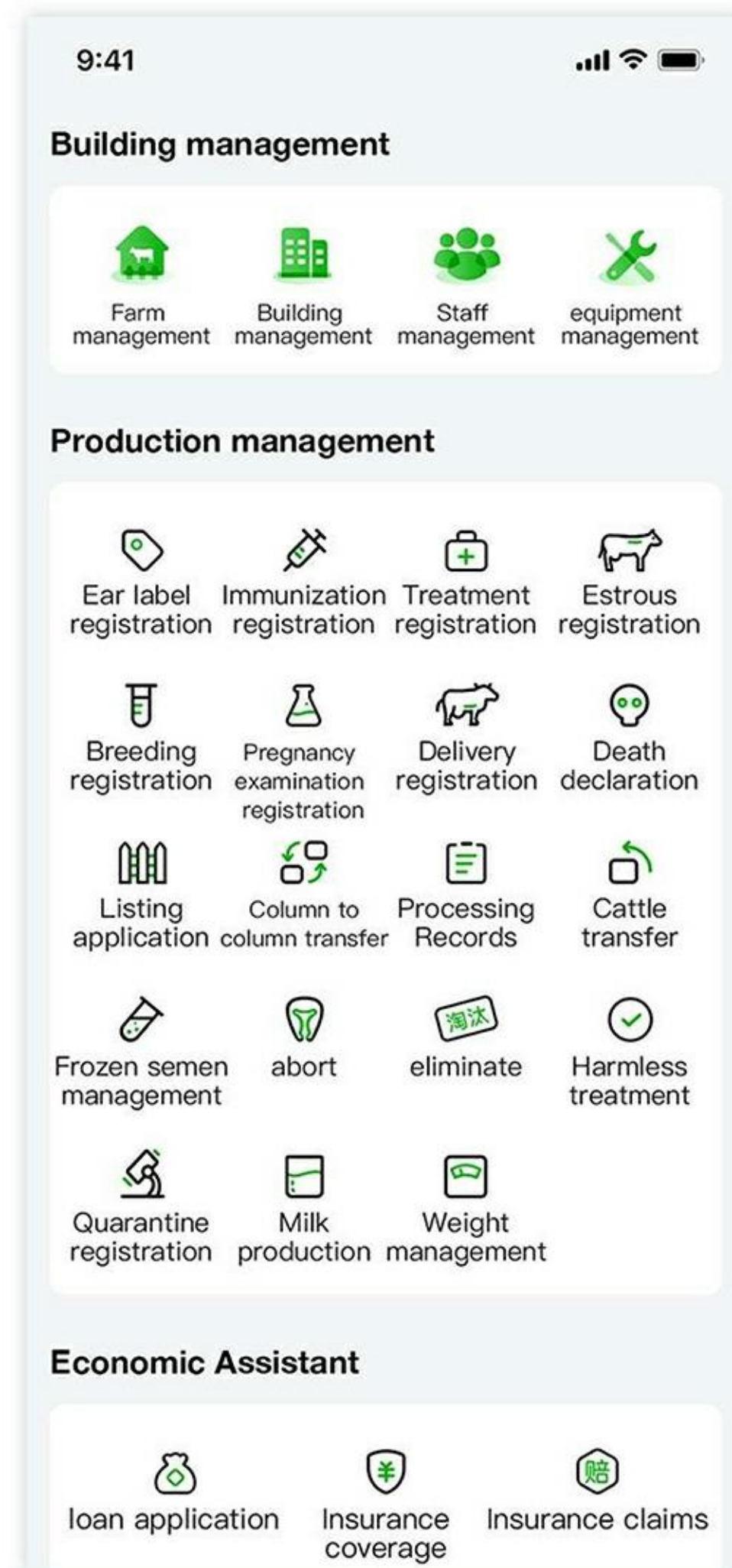
06 AI Picks cows
AI technology turns beef cattle into measurable, collaterable, and regulated digital assets.

Cloud Livestock Dashboard

Cloud Livestock App

Automatic inventory to do list

Eer tag registration information entry
insured loans matching transactions

Cloud Livestock App

Electronic livestock records

9:41

< Details of livestock electronic records

1000001000021487
Simmental Fattening cattle
158 days old
Registered weight 300 kilograms

BLOCKCHAIN

2 h 20min
Today's Sports

38.6°C
Current temperature

Basic information

Electronic ear label number	25300
Original field ear label	24300
Labeled person	Jesse
Labeling time	2023-03-13 12:12:00
Farmers	Inner Mongolia Wanxing Rare Bird Farm
Breeding phone number	134 6666 9999
Breeding ground	Building 103, southwest of Hexigten Banner, Chifeng

growth portfolio

Genealogical file

Last breeding time	2023-05-23 09:10:00
Days after breeding	20 days
Last delivery time	2023-05-28 10:40:00
Postpartum days	30 days

family tree	Father: AR778292223022	Grandfather: AR778292222222	Grandfather: AR778292222222
			Grandmother: AR778292222222
		Grandmother: AR778292222222	Great grandfather: AR778292222222
			Grandmother: AR778292222222
	Mother: AR778292223022	Grandfather: AR778292222222	Grandfather: AR778292222222
			Grandmother: AR778292222222
		Grandmother: AR778292222222	Grandfather: AR778292222222
			Grandmother: AR778292222222

Registration records

Immunization registration	Treatment registration	Estrous registration

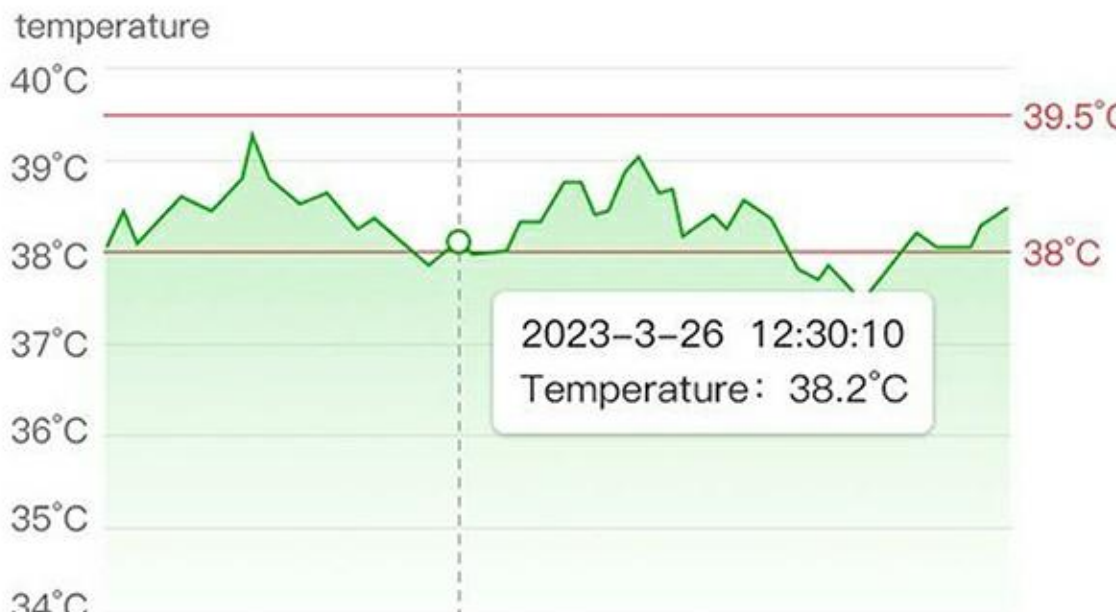|	
Immunization date	2023-05-13
Epidemic prevention personnel	Jackson
Vaccine name	Kexing Vaccine
Medication method	injection
dose	20CC
Manufacturer	Vick Company

Visual record

Up chain node   **Daily monitoring**

Health status during the breeding process   2023-06-26 ▾
Monitoring days: 180 days
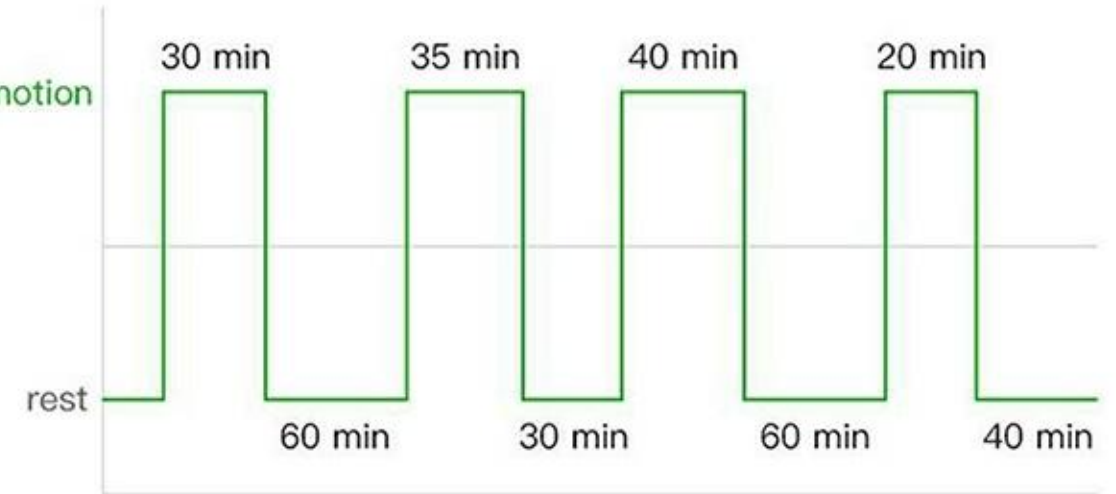Monitoring Cycle：2023-01-26~2023-06-10

temperature
40°C
39°C ————————————————————— 39.5°C
38°C ————————————————————— 38°C
37°C
36°C
35°C
34°C

2023-3-26 12:30:10
Temperature: 38.2°C

Movement duration during the breeding process   2023-06-26 ▾
Monitoring days: 180 days
Monitoring Cycle：2023-01-26~2023-06-10

motion
30 min   35 min   40 min   20 min

rest
60 min   30 min   60 min   40 min

Data source: collected through intelligent ear tags

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Main Device

2.4G IOT Smart Terminal

1000001000052006

2.4G RFID Ear Tag