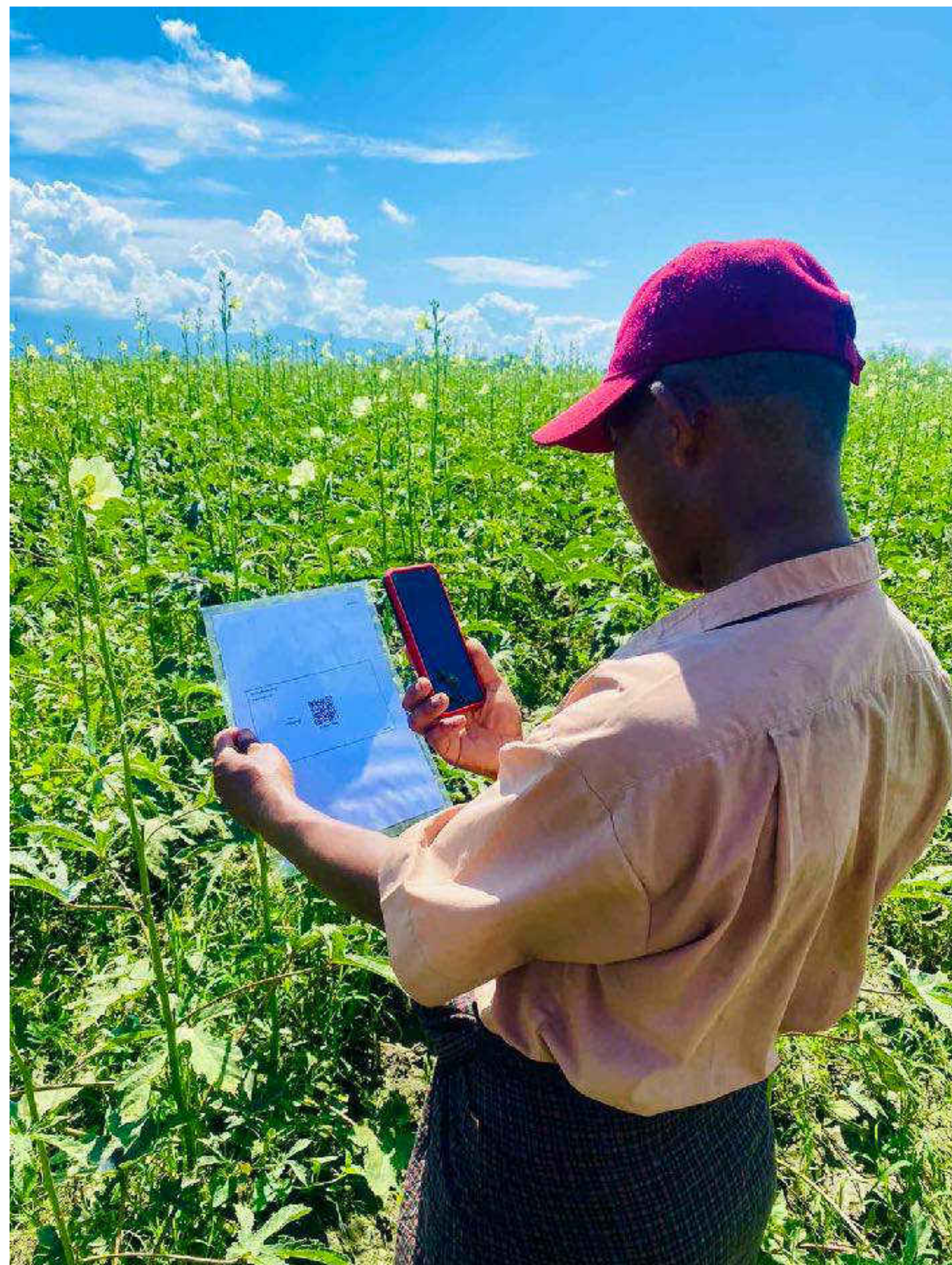


Crop production history database construction technology using QR codes and smartphone



## What is our technology?



**Using farmer's smartphone,**

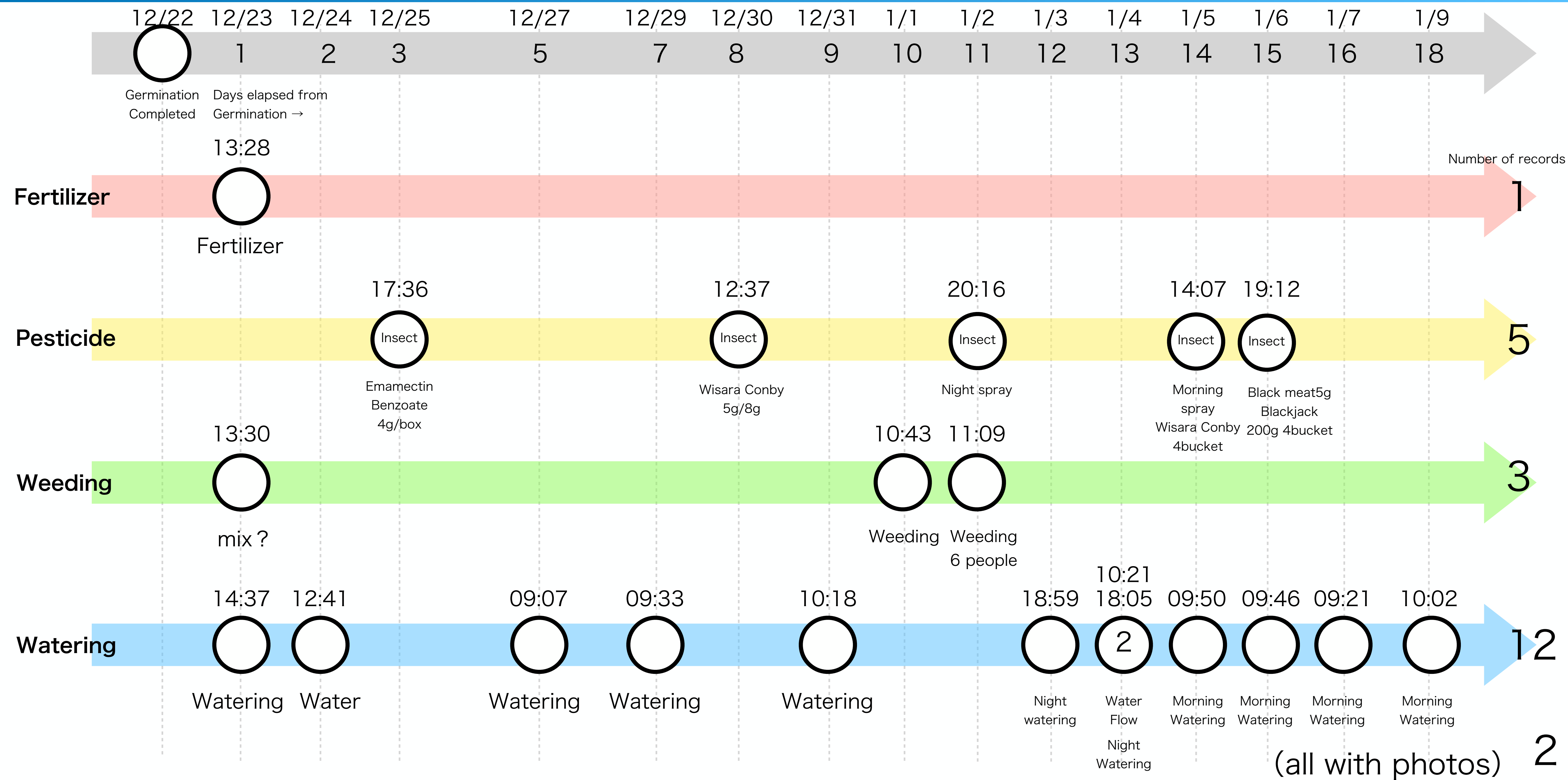
**Just reading QR code,**

**Recording data such as**

**Who, When, What, Where, How much  
about production history**

**10 years of experience in Japan,  
1 year overseas**

# Examples of recorded data (about spinach farmer)



# You can also upload photos

### Germination complete



### Fertilizer



### Watering



### Pesticide



### Weeding



### Watering



### Pesticide



5g out of 8g

ပါဝင်သော အာဟာရဓာတ်များ	
နိုက်ထရိုဂျင် N	36900 ppm
ဖော့စဖိုရပ်စ် P <sub>2</sub> O <sub>5</sub>	29500 ppm
ဇင်ခ် Zn	18600 ppm
ဆီလီဆာ Si	8800 ppm
ပိုတက်ရှီယမ် K <sub>2</sub> O	40100 ppm
မိုလစ်ဘီဒန် Mo	60 ppm
ကော့ပက်စ် Cu	200 ppm

# Flood damage can also be checked online

	24-Sep	25-Sep	28-Sep	29-Sep	2-Oct	11-Oct	TOTAL
၂၄.၉.၂၀၂၁ နသောသည်	1						1
25.9.2021 မနက်		1					1
နသောသည်			1				1
မိုးသည်းထန်စွာရွာသည်						1	1
မိုးသည်းထန်စွာရွာသည်/ထိမ်ထူထပ်သည်				1			1
မိုးသည်းထန်စွာရွာသွန်းသည်၊ ထိမ်ထူထပ်သည်					1		1
blank	1	3	1	1	1	1	8
<b>TOTAL</b>	<b>2</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>14</b>



# Fertilizers and Pesticides usage is also available online

	8-Sep	13-Sep	17-Sep	14-Oct	15-Oct	30-Oct	Total
Sep							
17.9.2021 Sino Dino-10g=8 box			1				1
23.8.2021 Chlorothalonail 20g x 10Box		1					1
28.8.2021 Acephate 10g x 3Box		1					1
3.9.2021 Cartap 10g x6 Box		1					1
30.8 21 Chlorothalonail 20gx5Box	1						1
7.9.21 Cartap 50% SP 10gx 5Box	1						1
Armo15:15:15 25kg		1					1
Armo15:15:15 7 Pyi	1						1
E -OKra (MAF) Sinodino			1				1
Subtotal	3	4	2				9
Oct							
15.10.2021 Prevathon 5g 8 box					1		1
21.9.2021 Imidadupride 5g 8 box				1			1
26.9.2021 အမဲနက် 5g 8box				1			1
29.10.2021 Sino Dino 5g 8 box						1	1
Subtotal				2	1	1	4
Total	6	8	4	4	2	2	26

The old way

10

သက်တမ်း/Planting Date: 21. 9. 2020  
 Farmer Code No.: NPT 016-0  
 မြို့နယ်/Village Name: Si Pin Gyi  
 အမျိုးအမည်/Crop Name With Variety: Okra 9702  
 ဧက/Acre: 1 Acre  
 အပင်အရေ/Plant Population: 5376 Plat

Pesticide Spraying Data) ဆေးပျန်းမှတ်တမ်း

စဉ်	ပိုးသတ်ဆေးပျန်းသည့်ရက်စွဲ	ပေါင်းပစ္စည်း	အသုံးပြုသောဆေးနှုန်းထား	ယူနစ်	ထည့်သွင်းသည့်ရေပမာဏ	ပုံးအရေအတွက်	စုစုပေါင်းဆေးနှုန်းထား	စုစုပေါင်းဆေးနှုန်းထား	မရိတ်သိမ်းနီဆေးပျန်းရက်	ကျရောက်သည့်ရက်	ခတ်ကြွင်းကုန်ဆုံးရက်	ရိတ်သိမ်းရမည့်ရက်	ကာလအပိုင်းအခြား
1	6-6-20	Acephate	15	g	49gal	15box	225g	609gal	-	8ရက်	7day	-	-
2	17-6-20	Daconil	10	g	49gal	14box	140g	56gal	-	1ရက်	1day	-	-
3	23-6-20	Mospilan	5	g	49gal	16box	80g	64gal	-	1ရက်	1day	-	-
4	27-6-20	Eminent	5	g	49gal	18box	90g	72gal	-	1ရက်	1day	-	-
5	8-7-20	Imidacloprid	5	g	49gal	18box	90g	72gal	-	1ရက်	1day	-	-
6	18-7-20	Sinodino	10	g	49gal	15box	150g	60gal	-	1ရက်	1day	-	-
7	25-7-20	Mospilan	5	g	49gal	16box	80g	64gal	-	1ရက်	1day	-	-
8	2-8-20	Prevathon	10	ec	49gal	20box	200cc	80gal	-	1ရက်	1day	-	-

Harvesting Date/ရိတ်သိမ်းရက်: \_\_\_\_\_  
 အနီးကျင်အနောက်/Surrounding Crop: \_\_\_\_\_  
 အရှေ့/ East      အနောက်/ West      တောင်/ South      မြောက်/ North

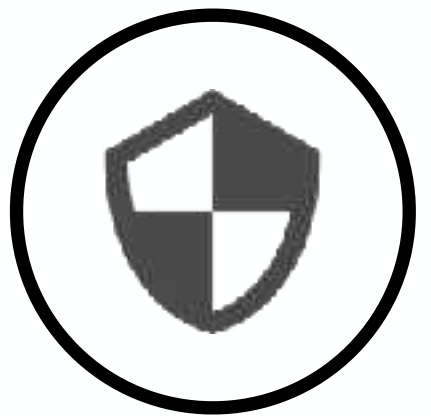
အသုံးပြုသည့်ရာသီ/Previous Crop: \_\_\_\_\_  
 အသုံးပြုသည့်ပိုးသတ်ဆေး/မိုသတ်ဆေး/ပေါင်းသတ်ဆေး: \_\_\_\_\_

Inspector Name: \_\_\_\_\_ Sign: \_\_\_\_\_ Agri Manager Name: \_\_\_\_\_ Sign: \_\_\_\_\_



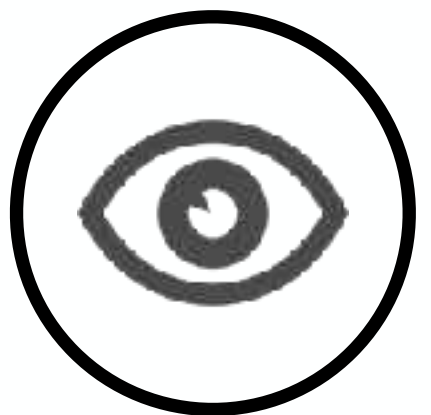
## Form collective knowledge among farmers leading to increased productivity

By recording, consolidating, accumulating, and analyzing farming processes, it will be possible to compare the results with other farmers and to compare them over time. This will lead to optimal methods of farming processes that lead to higher yields, and will be shared with farmers to promote awareness and learning.



## Contributing to farm risk management

Since farmers can record photos of their fields, they can share information with managers in real time about pests, floods, and other conditions that may damage crops. This allows farmers can receive expert advice on how to minimize damage and alert other farmers.



## Establish traceability

Information on the types of seeds, agricultural chemicals, and fertilizers used, as well as the amount and frequency of use, can be recorded, making it possible to visualize the production process, which is essential for food safety. This is especially important for overseas exports and direct sales to consumers.



## Creation of trust

It reveals farmers who are working hard. It can also be used by banks to monitor new lending and credit management based on productivity improvements and yield forecasts, and by insurance companies to calculate expected losses and simplify loss assessment.

## Target crop



### - more preferable

- Cash crops,
- Such as those that Thai government is promoting for export,
- Those with a relatively short production period,

## Potential Partners



### - more preferable

- have contract with at least 50 farmers,
- knowing the farmers' harvest of previous years,
- interested in predicting yields,

## Procedure (We can start anytime)

### STEP1

#### Gathering

- MTG to discuss the data to be recorded
- We will provide the app to farmers through your company and start gathering data

### STEP2

#### Analyzing

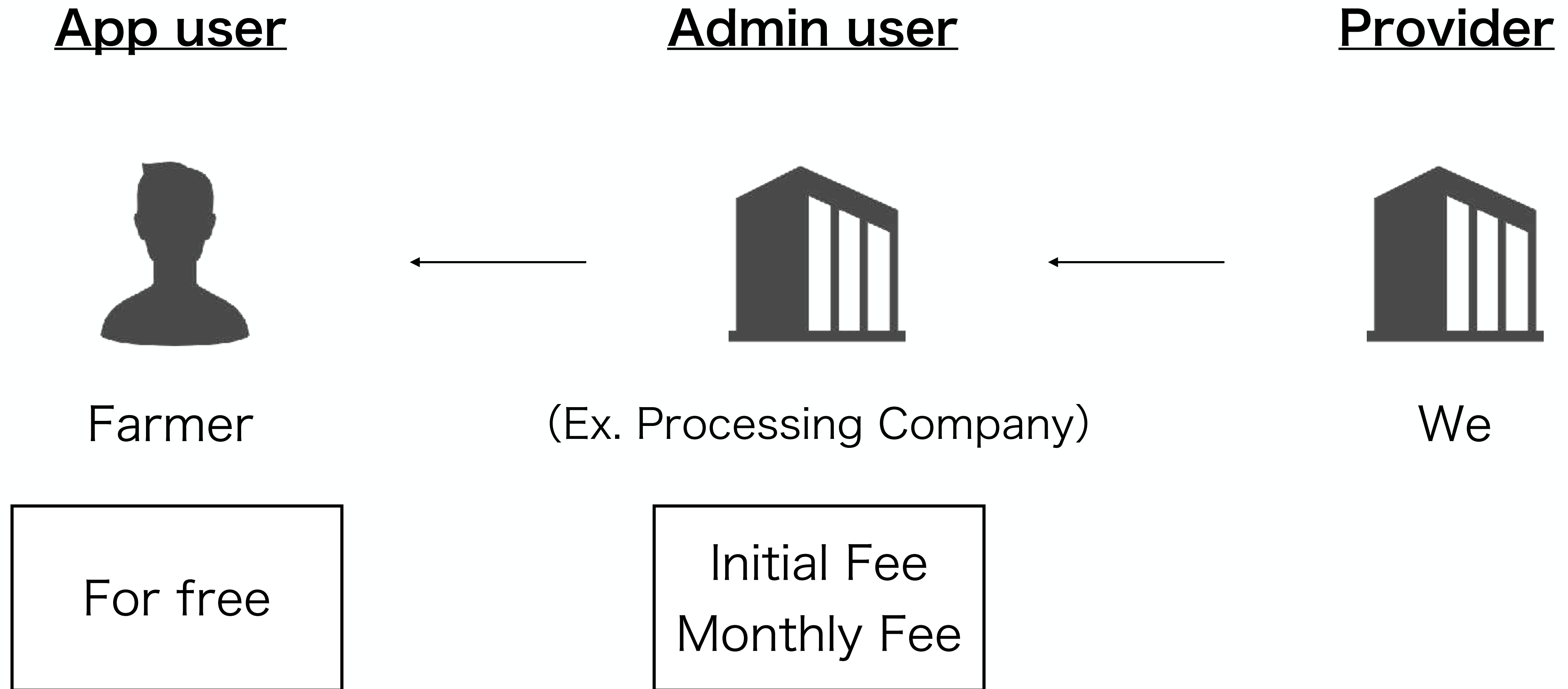
- We will analyze the production history data recorded by farmers and their yields. Particular attention will be paid to comparisons with other farmers who produced at the same time,

### STEP3

#### Utilizing

- Based on the production process of the person who had the highest yield in that period, we aim to create learning opportunities for other farmers and improve their productivity,

# Business model



We would like to complete the system for widespread use in Thailand with our initial demonstration (PoC) partners and sell it as a joint product.



Scala, Inc.

<https://scalagr.jp/en/>

Ryo Ishihara (Mr.) [ishihara@scalagr.jp](mailto:ishihara@scalagr.jp)

Director

Global Business Department

Business Development Division

English OK, please feel free to contact me



Daiwa Computer Co., Ltd.

Takashi Tashiro(Mr.)

General Manager  
i-agriculture Development Division

<https://www.daiwa-computer.co.jp/en/>

## Our efforts in production

- 1) We acquired agricultural production facilities in Fukuroi City, Shizuoka. (Built a 2,148 m<sup>2</sup> greenhouse on 8,800 m<sup>2</sup> of farmland; 2,557 m<sup>2</sup> of which are consigned to Kondo Farm)
- 2) Melons and tomatoes are grown by hydroponic culture, which uses no soil.
- 3) We are working on improving the tomato harvest using our proprietary Total Environment Control, which controls the supply of nutrient mix according to the state of growth.

