

HACKATHON

# XCELERATE X ROOFTOP REPUBLIC

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UIUX x Data Science x Web Development

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# ABOUT ROOFTOP REPUBLIC (RR)

- **Build and manage urban farms** to transform under-utilised areas into vibrant natural spaces
- **Create sources of nutritious organic food**
- **Engage and empower communities** to lead a sustainable lifestyle.

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- **Rooftop Republic (RR)** is a social enterprise committed to creating sustainable cities and communities powered by urbanization and farming since 2015.
  - After 6 years of transforming people's mindsets, shifting their relationship with food, and connecting them to nature and to each other, we believe it is the reasonable next step to **scale up by digitizing and automating our processes**, to help Hong Kong move closer to a carbon neutral future.

## VISION

# HOW RR WORKS

## Site Assessment

We visit your premises to conduct a site assessment to understand what we're working with and make recommendations for how to best utilise the space for urban farming.



## Consultation

We meet with your team to understand your goals and how we can add value to your stakeholders (including employees, customers, and community partners) through urban farming.



## Design

Based on our site assessment and consultation, we create a customised farm design, integrating core farming principles with engineering and landscape design.



## Farm Build

Based on our farm design, we take care of the full installation of your urban farm so you can be assured of a professional service from beginning to end. We use top quality planters, organic seedlings, soil, fertilisers to build your farm so that your farm can have the best conditions to flourish.



## Ongoing Management

We are committed to helping you make the most of your farm through our network of organic farmers, who provide the care and attention your farm requires.

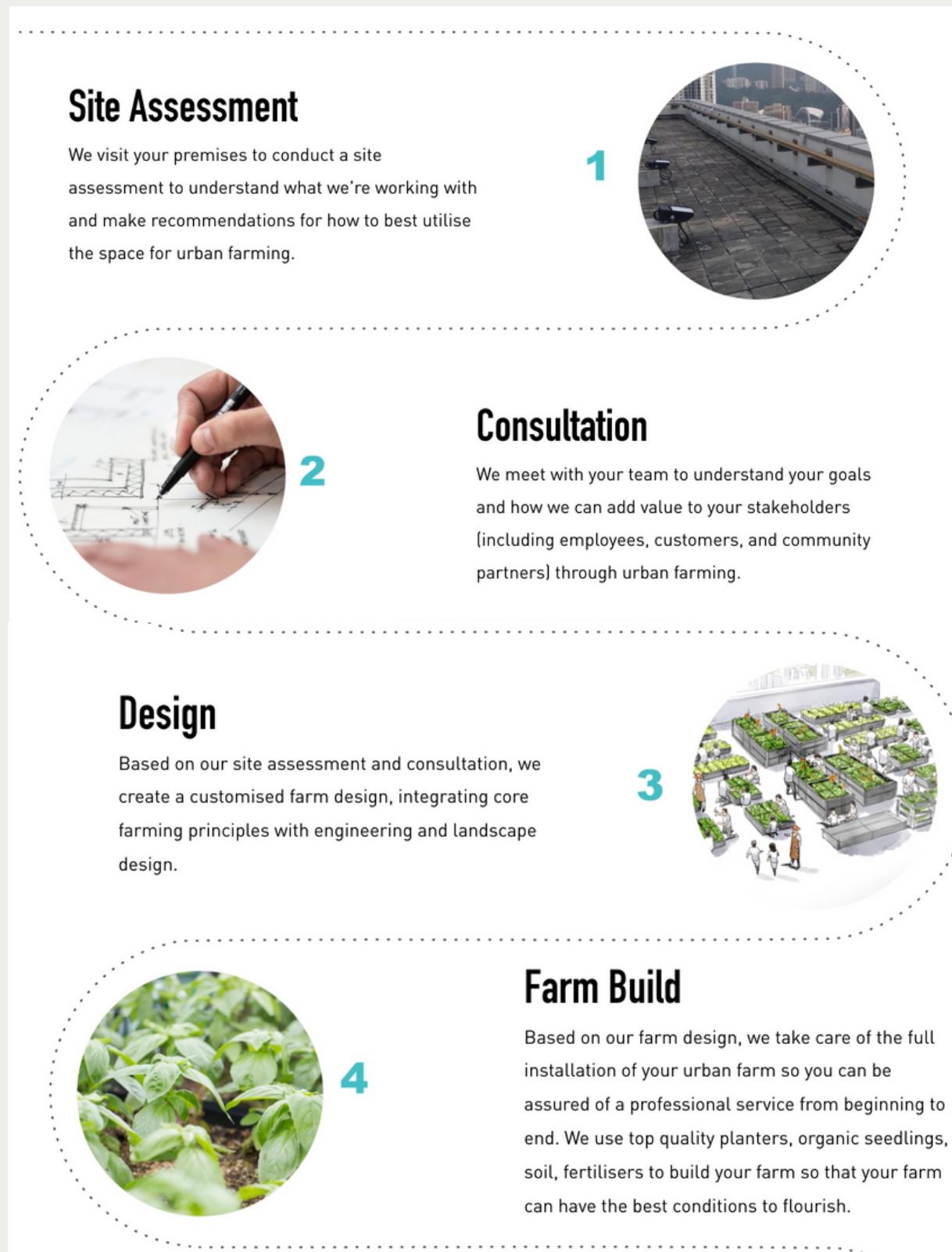


## Engagement

In addition to technical support, our team also supports you to make your urban farm into a platform for long-term engagement with your stakeholders, whether they are employees, students, families, or other community members.



# HOW RR WORKS



## Hackathon scope



[https://rooftoprepublic.com/pages/urban-farming-solutions?utm\\_source=canva&utm\\_medium=iframely](https://rooftoprepublic.com/pages/urban-farming-solutions?utm_source=canva&utm_medium=iframely)



EXAMPLE OF ROOFTOP GARDEN (METRO PLAZA IN KWAI FONG)

# MAIN STAKEHOLDERS



# CLIENTS

## PROPERTY DEVELOPERS



## COMPANIES



## SCHOOLS/ EDUCATIONAL INSTITUTIONS



## F&B AND HOSPITALITY



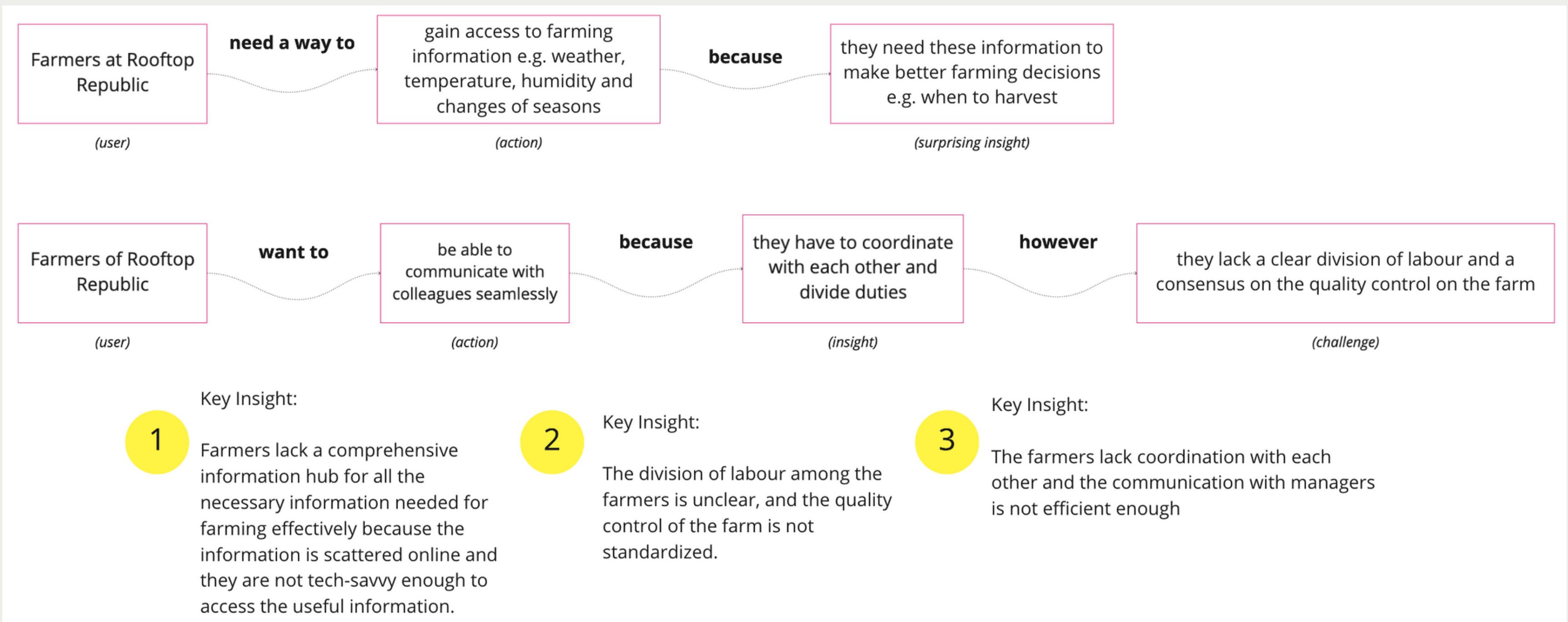
## RESIDENTIAL & INDIVIDUALS



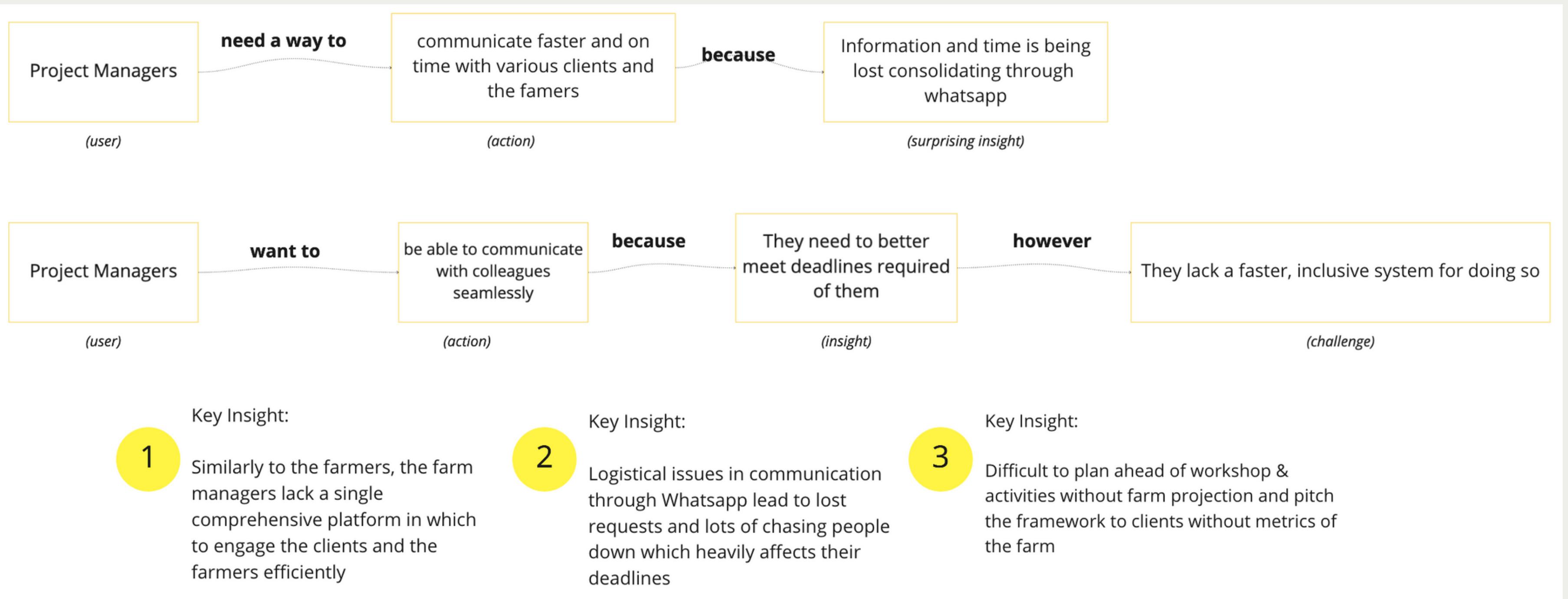
## COMMUNITIES



# PROBLEM STATEMENT (FARMER)



# PROBLEM STATEMENT (PM)



# HACKATHON

**Recommendation tool for PMs and clients**

# UX COHORT

## Recommendation system:

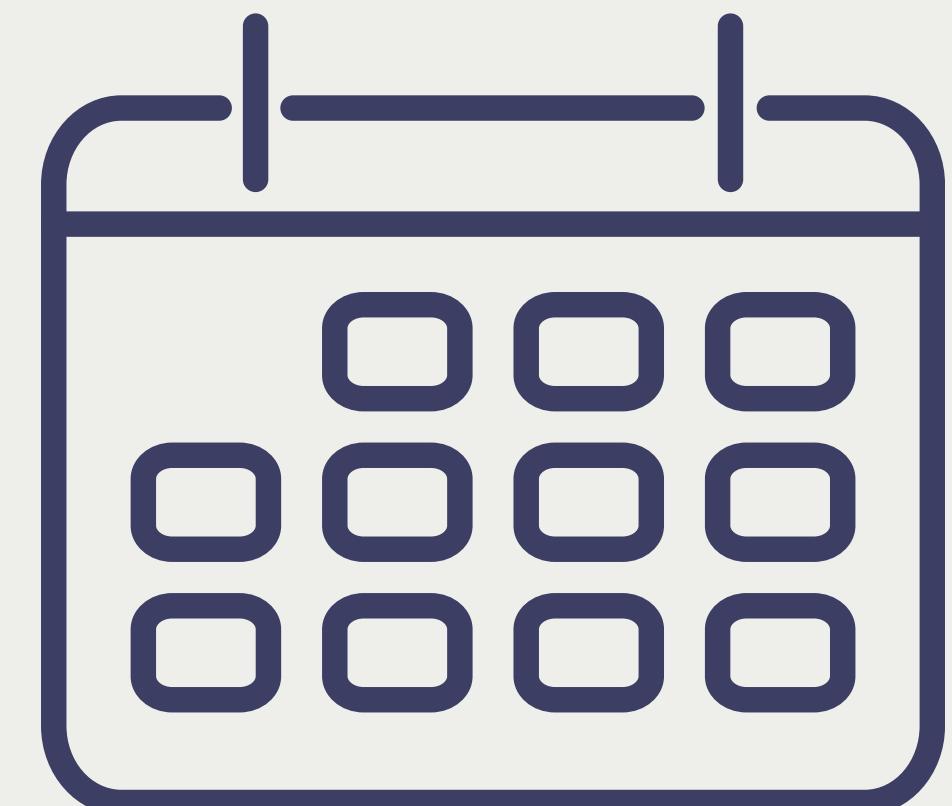
Recommendation system for clients to plan their rooftop planting schedule

## Target users:

- PMs
- Clients

## Features in recommendation :

- Time schedule (Calendar)
- Suggestions (based on **Seasons, theme/festival, Events**)



# WEB DEVELOPMENT COHORT

- '**Upcoming events**' page generated overall events
- Once the '**View Package**' button is pressed, a **card** would pop up with different plant selections
- Once the plant(s) is selected or ticked, the user can click the button '**View on Chart**'
- Then it will directly land on the page with a Gantt chart and a list of selected plants
- Once the '**Add to chart**' is pressed, the specific plant would automatically show on the chart

More information about the Chart page:

- Gantt chart
- Chosen plants selected from the previous pop up card would be recommended next to the Gantt chart
- Recommendations are **scrollable**
- Once the '**Add to chart**' button is pressed, the event would transfer over to the chart according to the start and end dates from the cards

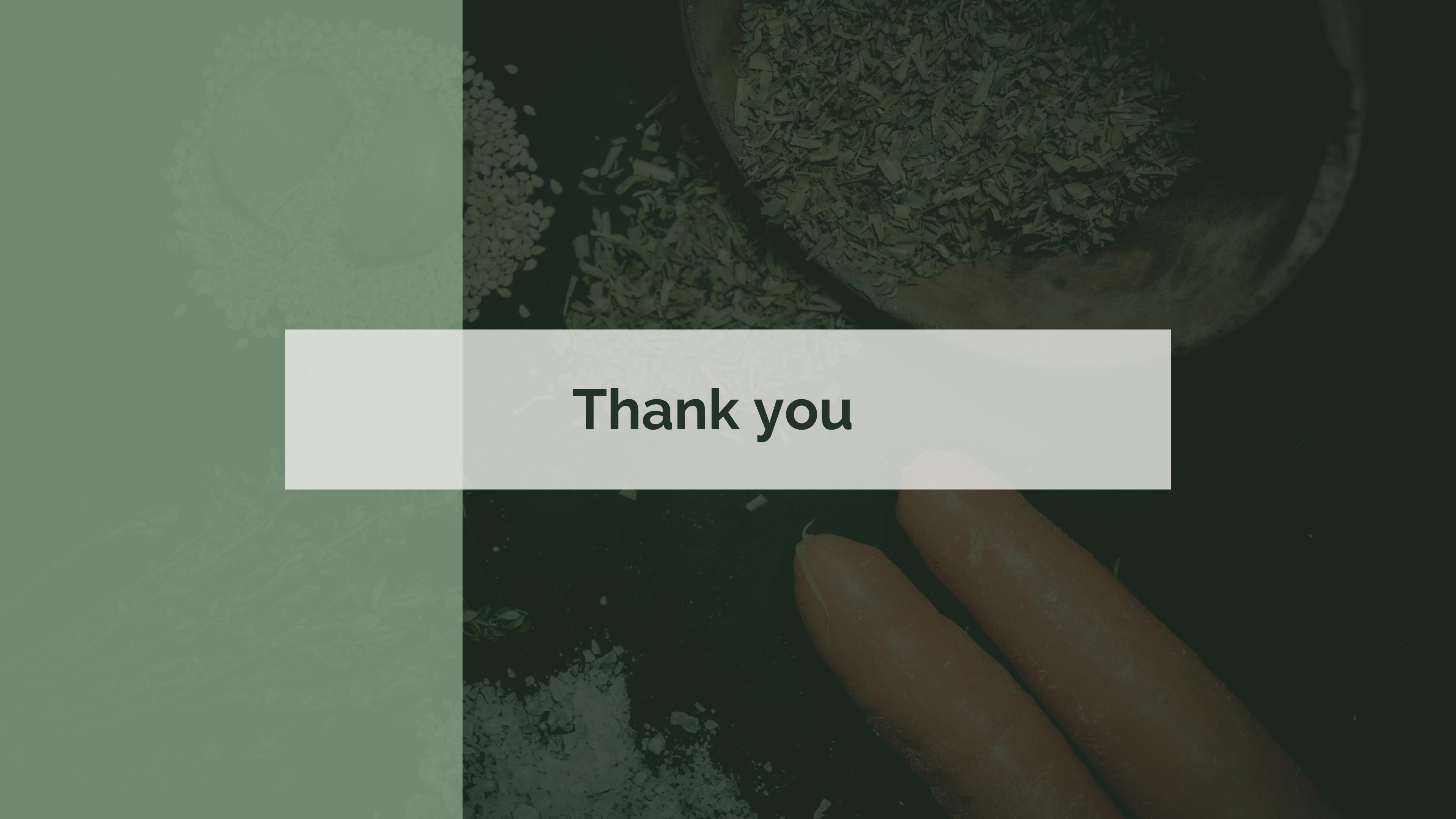
# DATA SCIENCE COHORT

What we need: Data on the plants in a year and what weather conditions work best for each plant

- Based on the given Excel sheet, also analyze HK observatory weather data to generate information on what plants work best for what seasons and months

# RESOURCES

- **Rooftop Republic site**
- **UX Cohort Figma** (Refer to Team 3: Recommendations)
- **Database** + Hong Kong Observatory database
- **RR Presentation to UX cohort (PDF)**

The background of the image is a collage of various food items. It includes a close-up of a green leafy vegetable, a pile of white rice grains, a pile of small, light-colored seeds, a pile of dried green leaves or herbs, and a wooden spoon resting on a surface. The colors are earthy and natural.

**Thank you**