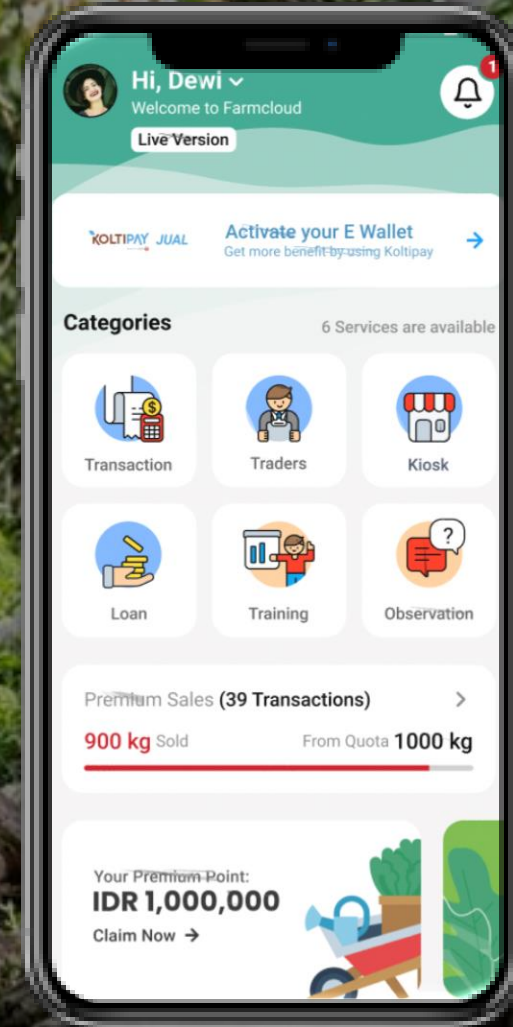




# Transforming Supply Chains and Smallholder Farming with AI

BEYOND TRACEABILITY





# Why We Do, What We Do?

## *Market Pain Problem of Global Supply Chains*

KOLTIVA



### Driven by the Growing Demand of Ever-Changing Regulation To Comply with Stringent Regulations

Over 50,000 EU-based businesses and non-EU companies engaged in the EU market must adhere to the European Union Deforestation Regulation (EUDR) that enforces stringent due diligence on businesses to combat global deforestation.



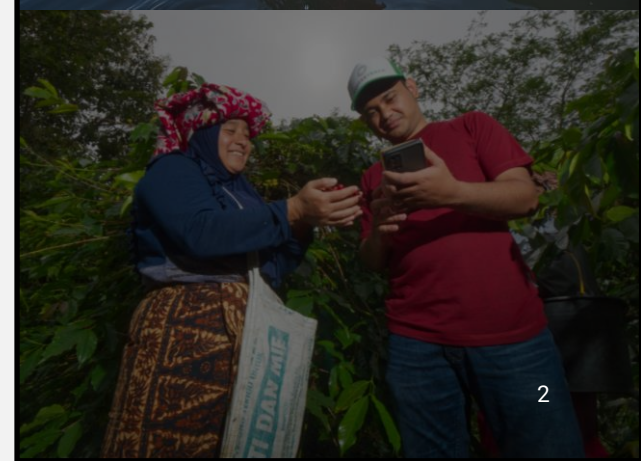
### Climate Change and Smallholders' Vulnerability In Agriculture Supply Chain

Over 630M agriculture smallholders and micro-enterprises are vulnerable to climate change and need, while Agriculture is a major part of the climate problem, that causes 19-29% of total GHG emissions.



### Growing Consumer Demand for Sustainable and Safe Products

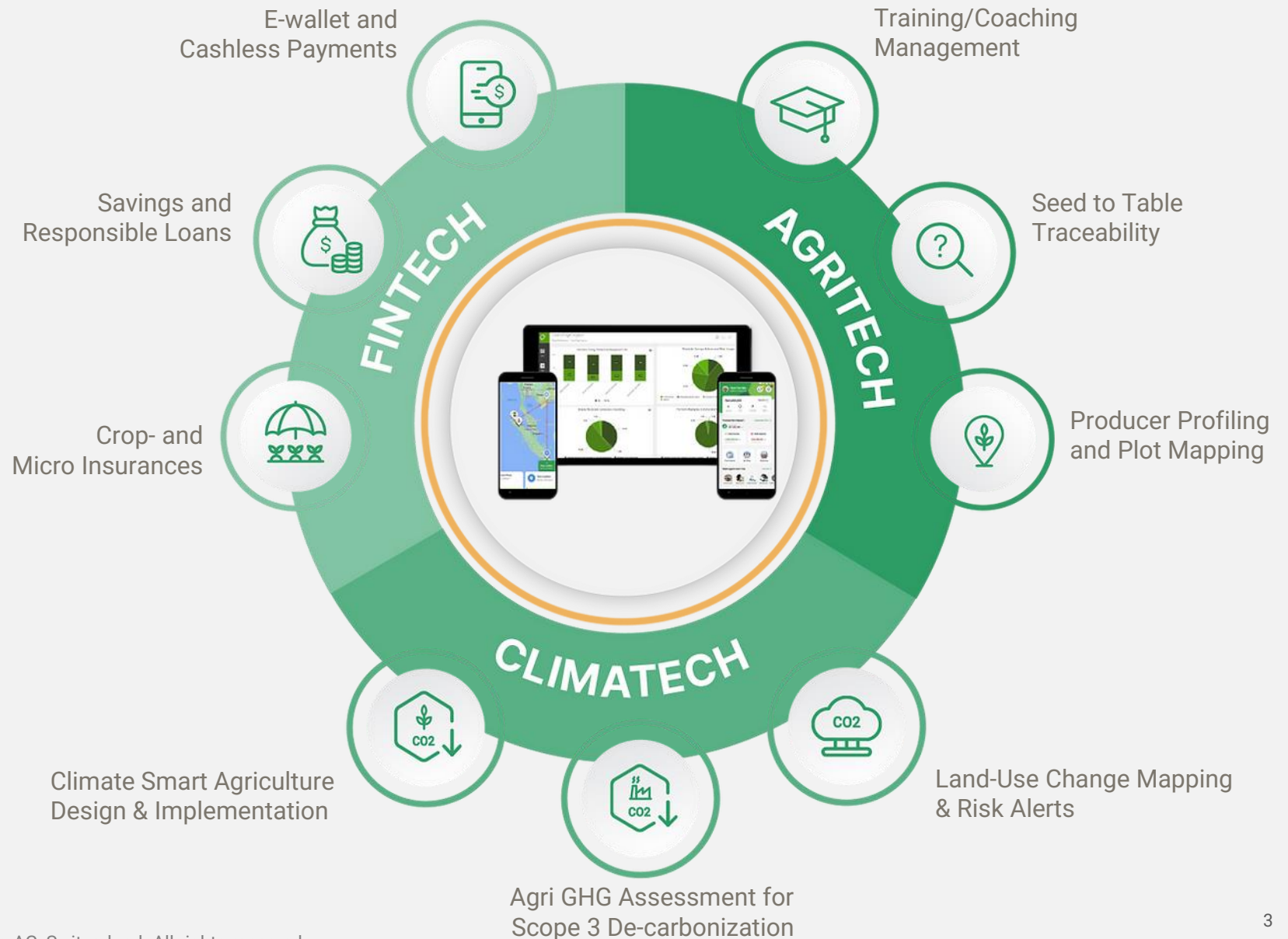
The surge in consumer demand for sustainable products is reshaping industries and driving companies to adopt socially and environmentally responsible practices, reduce environmental harm and prioritize eco-friendly sourcing, manufacturing, and distribution processes.



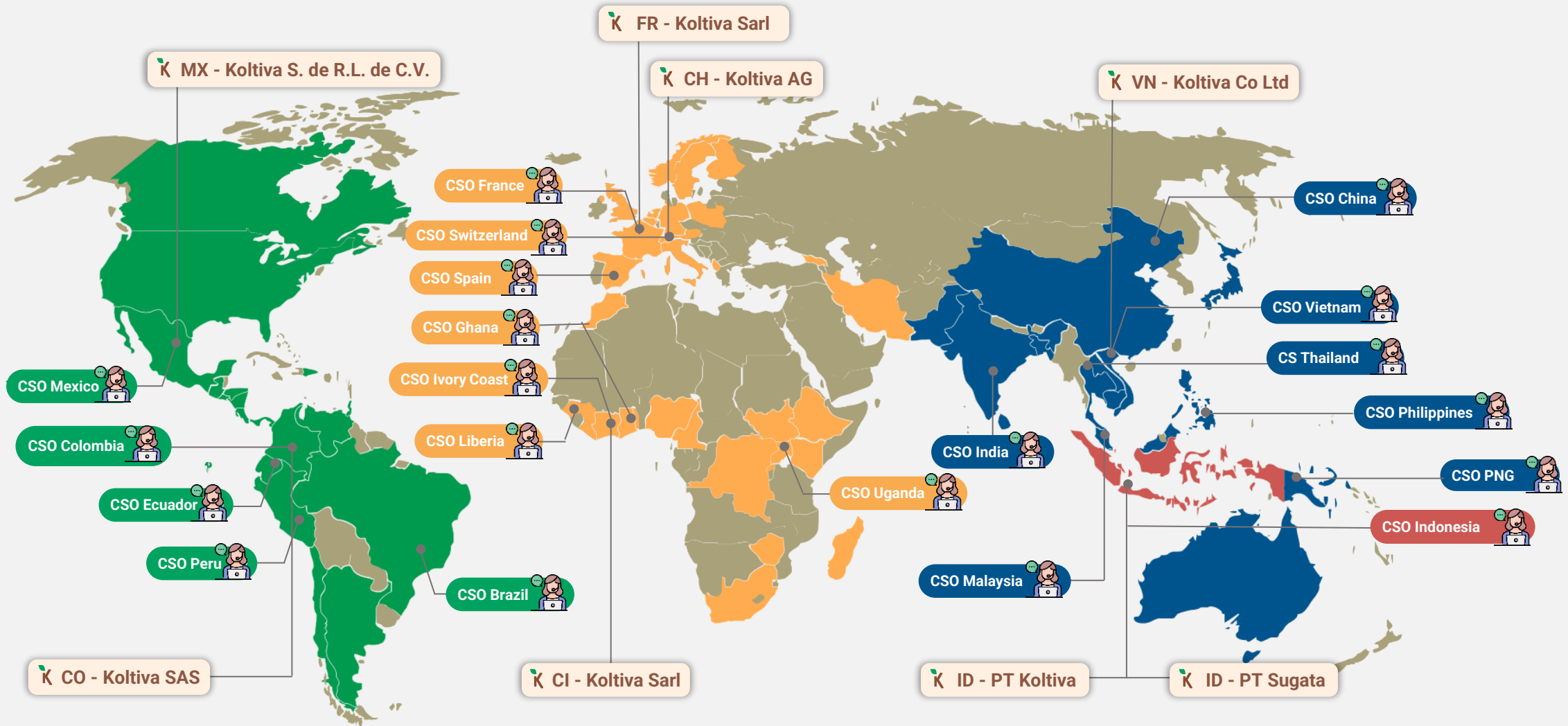


As a **triple-tech company**, we combine **Fintech**, **AgriTech**, and **ClimateTech** with 'boots on the ground' for sustainable global supply chains.

Professional Services, **Beyond Traceability**



# 4 Global Regions | 65 Countries | 8 Entities | 20 Country Support Offices



**NORTH, CENTRAL, SOUTH - AMERICAS**  
18 Countries, 2 Legal Entities, 5 CSO Offices

**EUROPE, MIDDLE EAST AND AFRICA - EMEA**  
33 Countries, 3 Legal Entities, 7 CSO Offices

**ASIA PACIFIC - APAC**  
13 Countries, 1 Legal Entities, 7 CSO Offices

**INDONESIA**  
1 Country, 2 Legal Entities, 1 CSO Office

# Our 4 Integrated Business Lines



## PRODUCTS

KOLTITRACE



### TECH SOLUTIONS FROM SEED TO TABLE

Web, mobile, MIS, GIS, and IOT solutions empowering producers and businesses in global supply chains.

KOLTIPAY



### RESPONSIBLE DIGITAL FINANCE AND PAYMENTS

Integrated fintech platform for cashless payments, loans, savings, micro-insurance, and paying bills.



## SERVICES

KOLTITRADE



### AGRI-INPUTS DISTRIBUTION AND CROP TRADING

Distribution of high quality agri-inputs and single origin crop post-harvest processing and trading

KOLTISKILLS



### PROFESSIONAL SERVICES BEYOND TRACEABILITY

'Boots on the Ground' for extension services, farming support, and carbon monitoring.

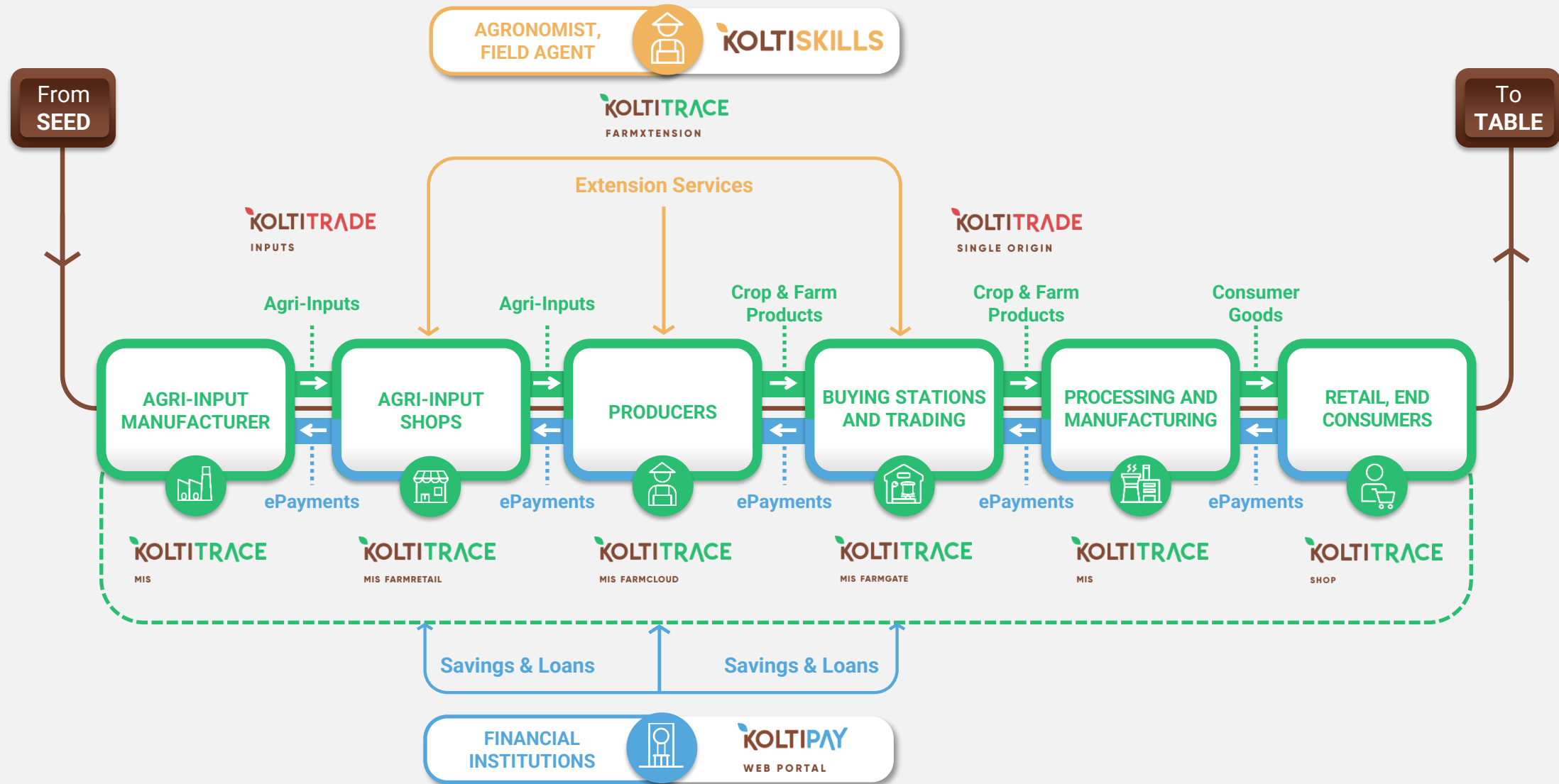


An aerial photograph of a coffee processing facility. In the center, a long, narrow metal cage structure is filled with coffee beans. Several workers are visible around the structure, some wearing yellow shirts and others in blue. A large, clear plastic bag is hanging from the top of the cage. To the right of the cage, a large, dense green tree stands prominently. The background shows a dirt path and more vegetation.

# Introducing End-to-End Global Supply Chain Solutions

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# Our Holistic Tech & Service Solutions





# Implementation Challenges of Traceability



## Supply Chains are Fragmented and Dynamic

Fragmented and multi-tiered supply chains can increase complexity, at the same time, supplier relationships are ever-changing.



## Farmer Awareness

A gap in knowledge and understanding of traceability and compliance requirements among smallholders.



## Infrastructure and Logistics

Farms being located in disbursed, remote areas can prove to be a challenge for data collection and poor signal can limit real-time data syncing.



## Incentives and Benefits

There's a need for fair incentive mechanisms that can motivate all participants, from farmers to buyers to maintain traceability systems.



## Data Protection and Sharing

There is a lack of collaboration between actors when it comes to traceability data.





# KoltiSkills, **Extension Services** Beyond Traceability

Koltiva serves as a one-stop-shop for EUDR and sustainable sourcing needs by not only providing the software but also the manpower to collect data and engage producers on behalf of our clients. Koltiva deploys hundreds of Field Agents to map, training, and empower thousands of smallholders.



## SUPPLY CHAIN MAPPING & VERIFICATION

Producer surveying to map the origins of your products, verify farm production practices and emissions, and ensure compliance to sustainability standards and ever-changing regulations, such as the European Union Deforestation Regulation (EUDR).



## TRAINING & COACHING

Group training to raise awareness of sustainable practices and one-on-one coaching to support producer households in implementing their farm development plans.



## BUSINESS SUPPORT

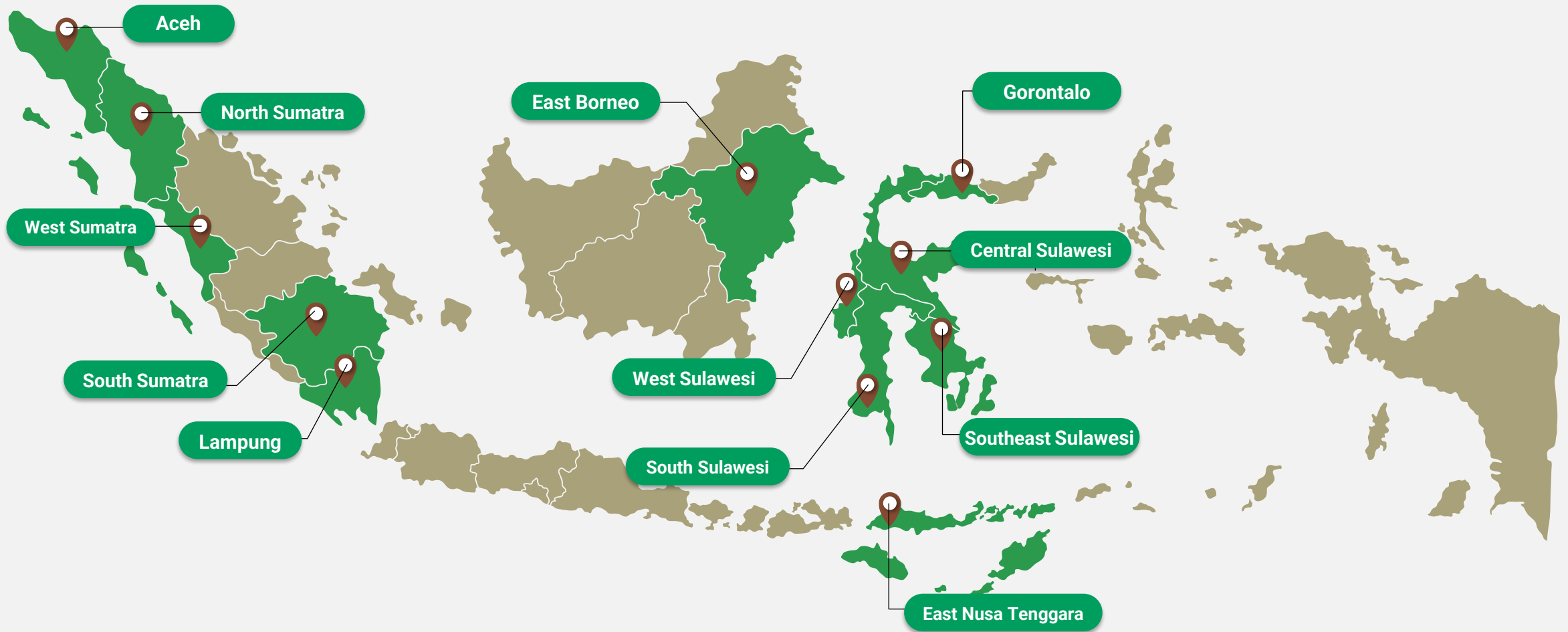
Engagement and capacity building for supply chain actors, including local aggregators, cooperatives, financial service providers, nurseries, and other agri-input suppliers.



## CERTIFICATION PREPARATION

Koltiva becomes the one-stop shop to prepare producer to achieve sustainability certification, such as Rainforest Alliance, RSPO, 4C, and FSC.

# Cocoa Projects in Indonesia



*\*Data last updated on September 18, 2024*



# Palm Oil Projects in Indonesia



*\*Data last updated on October 17, 2024*

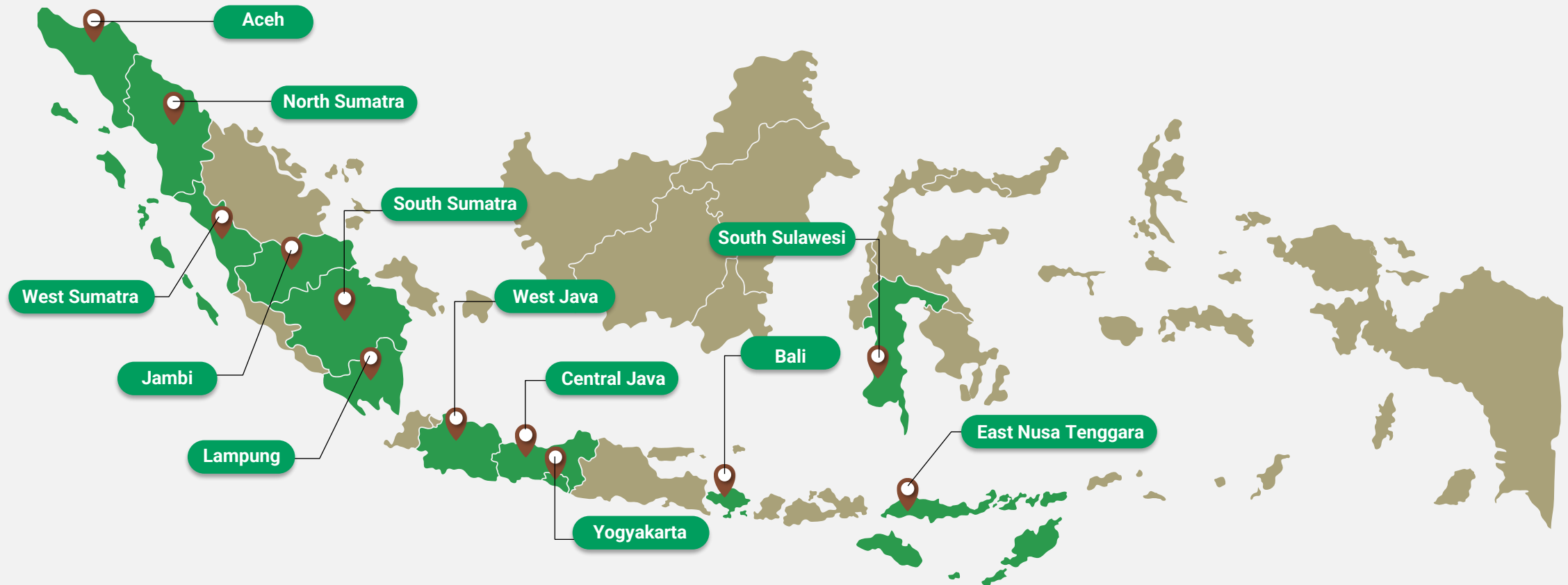
# Rubber Projects in Indonesia



*\*Data last updated on October 14, 2024*



# Coffee Projects in Indonesia



*\*Data last updated on July 19, 2024*



# Tailored Solutions and Services for **58 Crops** and Commodities

## PLANTATION CROPS



## NUTS, FRUITS, AND FOREST PRODUCTS



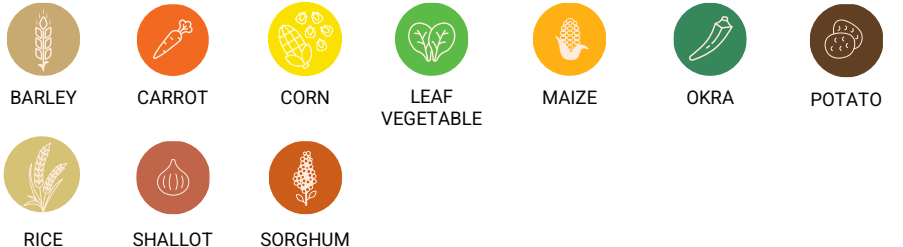
## AQUATIC RESOURCES



## FRAGRANCES, FLAVORS, AND SPICES



## STARCH CROPS AND VEGETABLES



## LIVESTOCK AND DAIRY





# Communicate **Impact** to the End Consumers with QR Codes

## Bean to Chocolate Bar

**100% TRACEABLE**



## Coffee Bean to Cup

**100% TRACEABLE**



## From Producer to Table

**100% TRACEABLE**







We help **17,200+ enterprises** achieve traceable and resilient supply chains

We help **1,728,000 + producers** increase their annual income up to 4x





# AI-Powered Solutions for Smallholders

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# KOLTIVA FarmCloud Chatbot

The FarmCloud app improves the quality of life for producers by offering access to training, financial services, and markets. It enables producers to purchase high-quality seeds and sell crops to nearby traders.

FarmCloud chatbot empowers producers with agricultural insights, advice, and alerts based on live weather data and plant disease detection using image recognition.



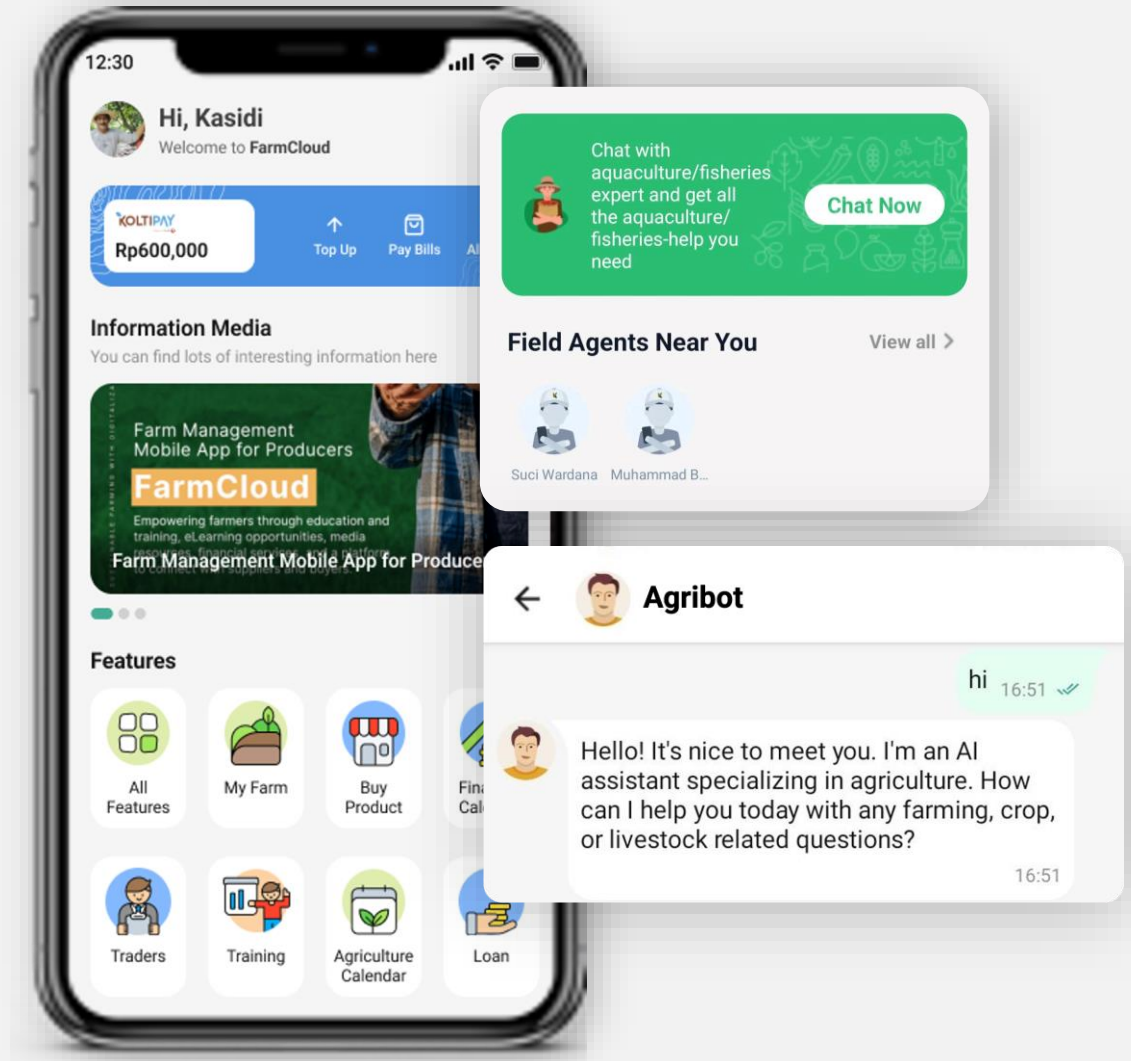
Dedicated agricultural advisor



Expert knowledge across crop cultivation



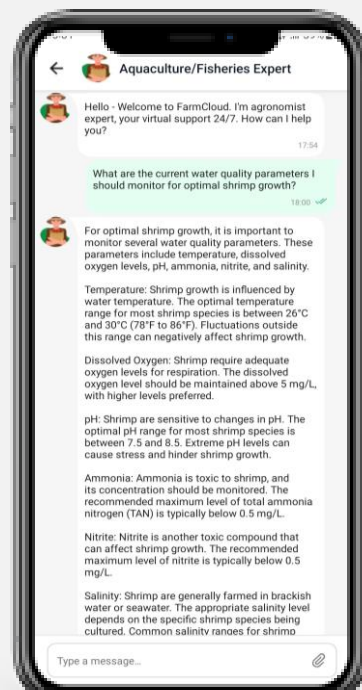
Sustainable farming practices



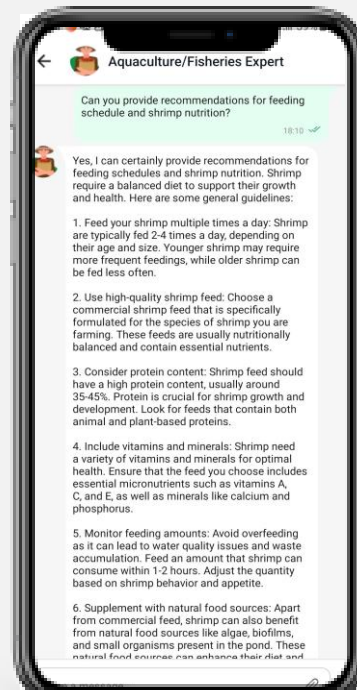
# Streamlining Aquaculture and Fisheries with FarmCloud's AI Chatbot



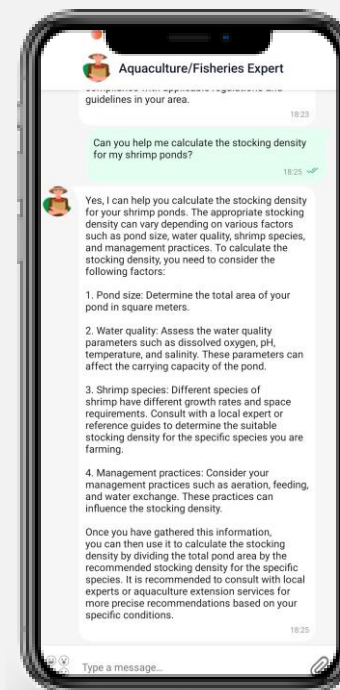
Home Screen  
FarmCloud



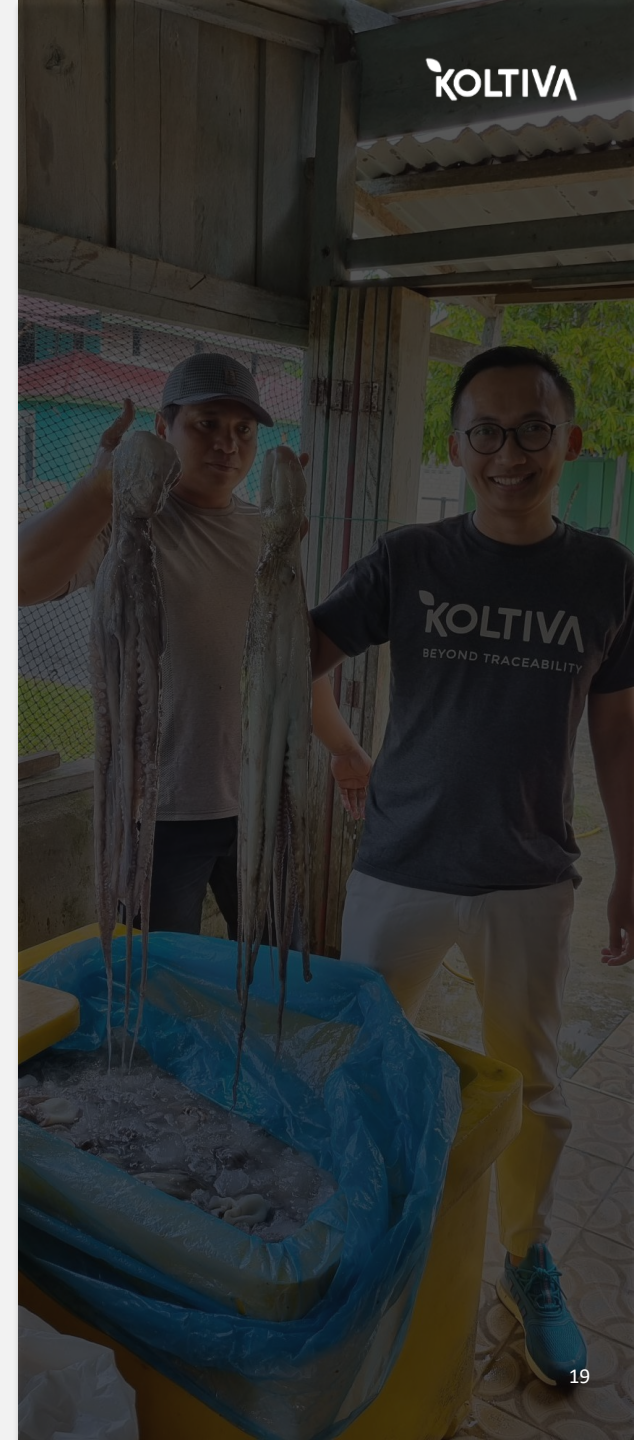
Consult with AI  
Chatbot



Ask for  
Recommendation



Ask for  
Assistance







Tanaman saya terkena VSD. Apa penyebab penyakit ini?

08:15 AM

Agribot

Penyakit Vascular Streak Dieback (VSD) pada tanaman kakao disebabkan oleh patogen *Oncobasidium theobromae*.

Just Now

- Beberapa faktor yang dapat menyebabkan serangan penyakit ini antara lain:
- Curah hujan yang tinggi
  - Kelembaban kebun yang tinggi
  - Tidak dilakukan pemangkasan sanitasi pada batang terserang
  - Paparan sinar matahari yang minim pada kebun
  - Angin kencang
  - Kesalahan dalam penggunaan entres untuk sambung samping/pucuk
  - Drainase kebun yang buruk

Just Now

Answer



**2. Vascular Streak Dieback (VSD)**  
**Patogen: *Oncobasidium theobromae***

**Gejala pada daun**

- Daun menguning dengan bercak-bercak berwarna hijau kemudian bercak berubah menjadi berwarna coklat
- Daun akhirnya mengering dan gugur, dan ranting tampak seperti ranting ompong

**Gejala pada batang**

- Bekas duduk daun bila disayat akan terlihat tiga noktah/titik yang berwarna coklat kehitaman
- Bila ranting dibelah membujur, terlihat garis pembusukan hingga duduk daun
- Bekas potongan ranting muncul benang-benang berwarna putih

**Faktor Serangan**

- Curah hujan yang tinggi
- Kelembapan kebun yang tinggi
- Tidak dilakukan pemangkasan sanitasi pada batang terserang
- Paparan sinar matahari yang minim pada kebun
- Angin kencang
- Kesalahan dalam penggunaan entres untuk sambung samping / pucuk
- Drainase kebun yang buruk

Relevant Context



The Koltiva logo is displayed in white on a green background. It features a stylized leaf icon to the left of the word "KOLTIVA" in a bold, sans-serif font.

BEYOND  
TRACEABILITY

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[Linkedin](#)

[YouTube](#)

