

OPTiM®

Agriculture Solutions

AI, IoT, and Big Data Solutions

1 Field information management service



Agri Field Manager

Get a clear view of your field conditions. Collect field images for mapping and AI analysis to detect pests and predict disease outbreaks.

2 Greenhouse information management service



Agri House Manager

Understand your greenhouses like never before. With AI image analysis and sensor data, find growth trends, as well as predict yields and ripening periods.

3 Robotics



OPTiM Drones

See your crops in a new way. Multi copter Agri Drone, fixed-wing OPTiM Hawk, and land-based robot OPTiM Crawler collect images optimized for AI analysis.

4 Farm work recording for GAP standards service



Agri Assistant

Simplify GAP certification. Input work information using voice or text input through any smart device, and check your progress at any time.

5 Produce cultivated with OPTiM tech



Smart Yasai

Increase sales and customer satisfaction. The "Smart Yasai" brand for produce raised with OPTiM's solutions provides transparent cultivation records and other resources to consumers.

6 Traceability platform using block chain



Agri Block Chain

Securely and efficiently keep a record of your produce. Provide total traceability with records of work history, distribution, and material procurement using block chain technology.



AI/IoT/Big Data Platform

Cloud IoT OS

Record and manage data for production, distribution, and sales



Drones

- Crop information
- Pest information
- Soil information
- Location data



Tools

- Vegetation analysis
- Soil analysis
- Crop yield analysis



Sensors Field Servers

- Weather
- Soil information
- Temperature/humidity



Smart Devices Wearables

- Farming information
- Work log
- Images
- Location data



Containers

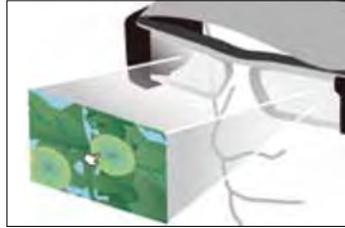
- Container environment data
- Location data

Remote Work Support Service: Optimal Second Sight

Share knowledge, know-how, and information in real-time with Optimal Second Sight. Live video is shared through a smart device, and a remote operator can view and annotate the video footage on a PC to give the field worker comprehensive support and guidance.



Veteran farmers can view real-time video from smart devices on their PC, and annotate the video to send instructions. Annotation tools include a pen, a pointer, and movement directions.



The veteran farmer's instructions are shown on screen of the field worker's smart device, displayed over the worker's view of the crops.



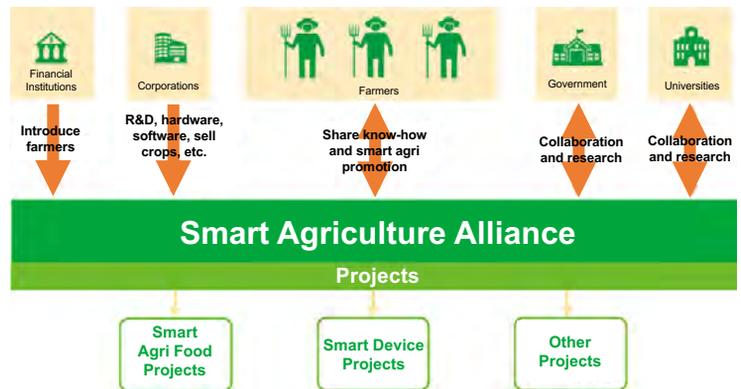
The worker can then know exactly which part of the crop to work with. Any further information can be confirmed by voice call, also built into Second Sight.

For use cases, system requirements, and more, visit the Second Sight page: <https://en.optim.co.jp/remoteseccondsight/>

Partners and Alliances

Smart Agriculture Alliance

Open to any entities that want to join OPTiM in advancing smart agriculture. Current partners include Michinoku Bank, Sun Mamoru Winery, Matsuyama Herb Farm, and AG Green Heart.



Other Alliances



3-Party Collaboration Agreement
Fun, cool, and profitable agriculture by Saga Prefecture, Saga University, and OPTiM



AI・IoT 包括連携協定
第4次産業革命を“佐賀”から

Comprehensive Agreement with Saga Prefecture
Using Saga as a test field for AI and IoT utilization in all industries, including agriculture and fisheries



SoftBank Innovation Program
OPTiM is running joint tests in Obihiro, Hokkaido to find new smart agriculture solutions



For more information and inquiries: <https://www.optim.cloud/industries/agriculture/>

