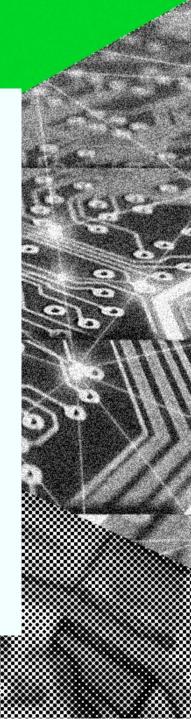


Agri/Climate Tech from Gifu University





Self introduction



Daniel Gunawan

Business Development Manager, Tokyo Office, Sagri

- Specializing in business analytics, operation, and business development
- 8 years in Japan and 3 years in Malaysia
- Worked in Accenture Malaysia until March 2022
- Graduated from Waseda MBA in September 2023
- Passion in learning and exercises









Sagri has been working with central/local government of Japan

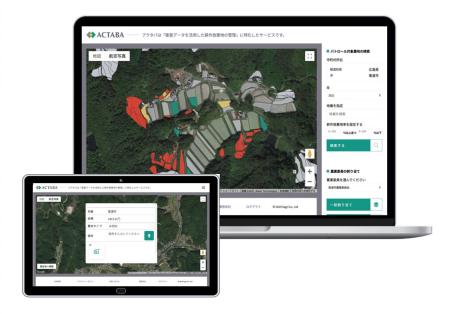
MAFF

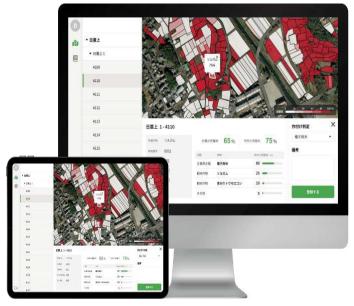
Ministry of Agriculture, Forestry and Fisheries

農林水産省



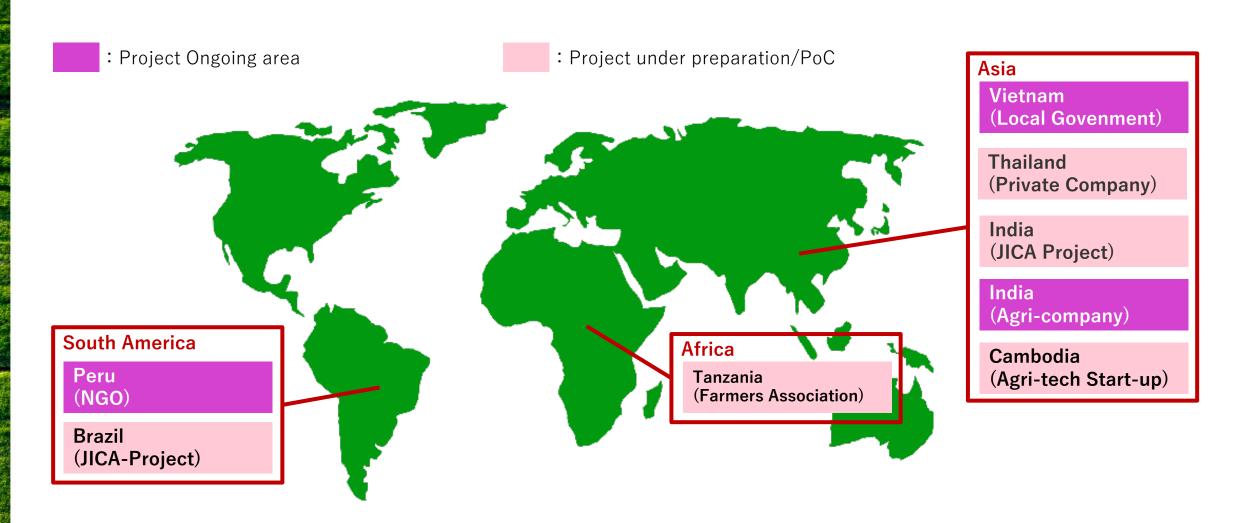






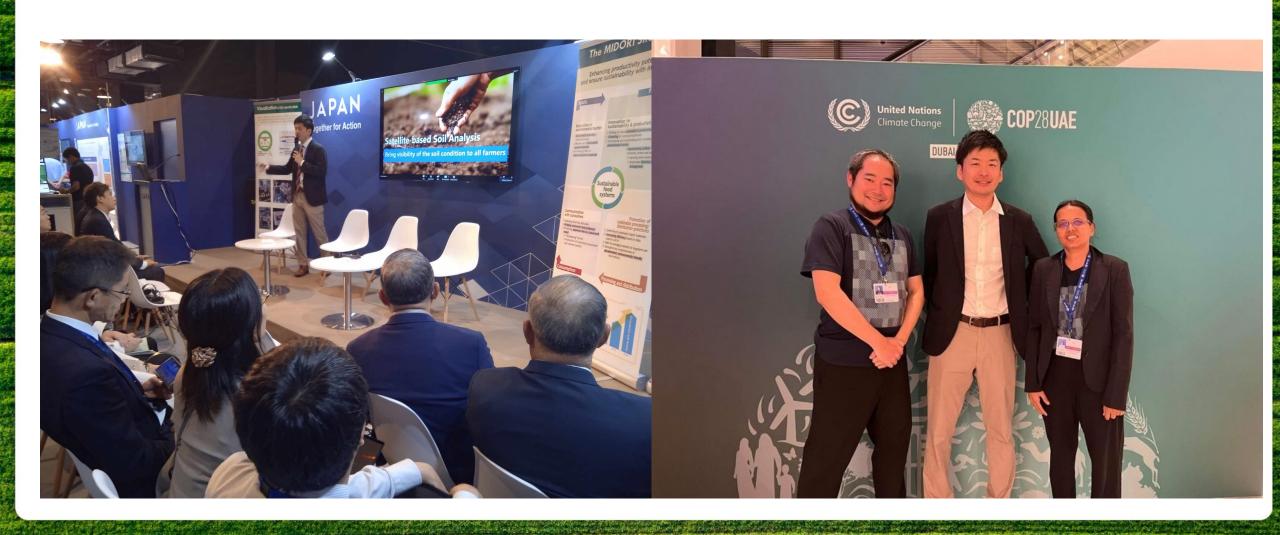


Sagri goes Global beyond ASEAN to save more farmers and planet!



Strong back-up from Government of Japan

In Dec 10th, Sagri presented our track record in ASEAN in COP28 in Dubai





Carbon Credit Generation from farmland upon satellite data analysis + Al



Sagri 1 [3-100] 選択した圃場一覧 植生 ₩ 土壌 圃場が選択されていません。

Al polygon

Automatically detect farmland boundary



Patented



Bring visibility of the soil condition to all farmers

Accuracy: 85%

Sagri can provide cheaper and faster fertilizer optimization recommendation based on soil analysis



- Cost 10x cheaper
- Time 10x faster





CTO Mr. Tanaka/ Professor at Gifu University

Serial No: OOT-22-0451	Farmer Name Sagunthala	Soil Test Card NØOT-22-0451
Village Pykara	Mobile 7904043034	
Credit Ref. #	NBFC Name	
Vegetation Indices	;	
NDVI -0.2949	Status Crop Growing	
Cost of Cultivation		
Crop	Seed in kg/ acre	
Sowing Date	Expected Harvest Date	
Yield / Acre	Total Cost	

	SOIL TEST RESULTS				
Sno	Parameter	Value	Rating		
1	pH	7.09	medium		
2	EC (mS/cm)	0.4463	low		
3	Organic Carbon - OC (%)	0.428	medium		
4	Nitrogen - N (Kg/ha)	382	medium		
5	Phosporous - P (Kg/ha)	9.51	low		
6	Potassium - K (Kg/ha)	127.3	medium		
7	Sulphur - S (Mg/kg)	12.9	medium		
8	Zinc - Zn (Mg/kg)	1.31	medium		
9	Boron - B (Mg/kg)	1.214	high		
10	Iron - Fe (Mg/kg)	3.08	low		
11	Manganese - Mn (Mg/kg)	0.286	low		
12	Copper - Cu (Mg/kg)	0.218	medium		

Water Detection from satellite





Under technical verification with support from JAXA (Japan Aerospace Exploration Agency)

Crop type: Sagri can analyze Grains and open-air vegetables

Rice



Sugarcane



Cassava



Potato

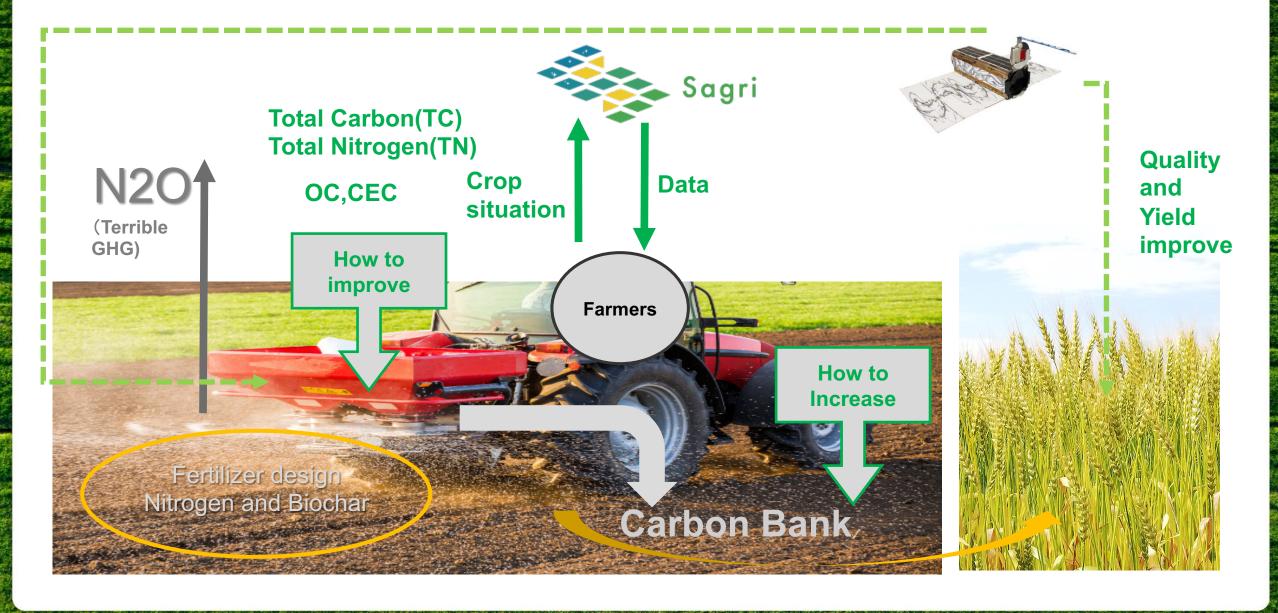


Soy Beans



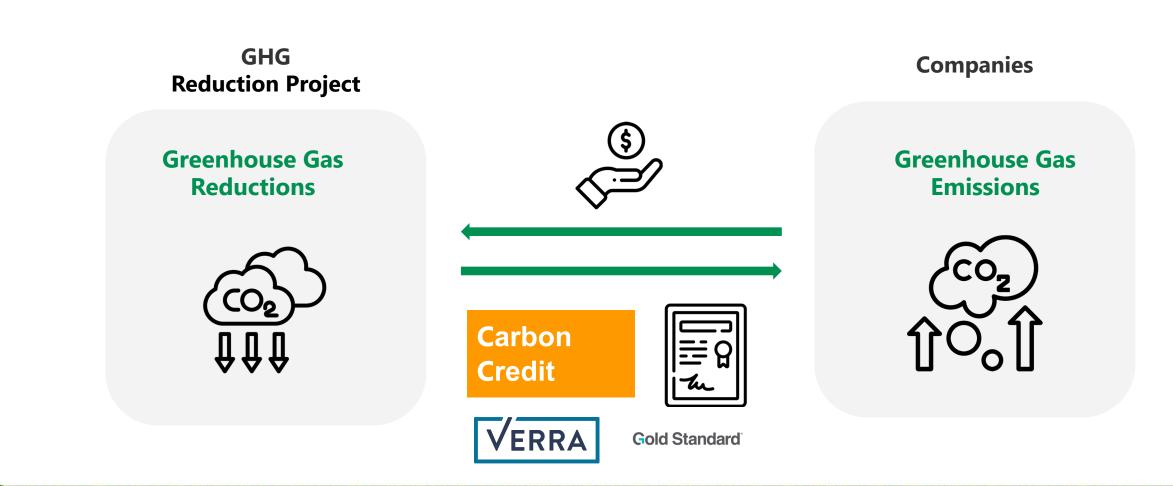


Fertilizer optimization can reduce GHG (greenhouse gas) emission



Leverage Carbon Credit to convert GHG reduction into cash

Carbon credits are certified and tradable amount of GHG emission reductions achieved by a project. Companies can offset their emissions by purchasing carbon credits.





Quicker and cheaper soil Analysis via Satellite



Chemical Fertilizer/Water optimization



Cost reduction/GHG emission reduction



Gold Standard

Carbon Credit Generation

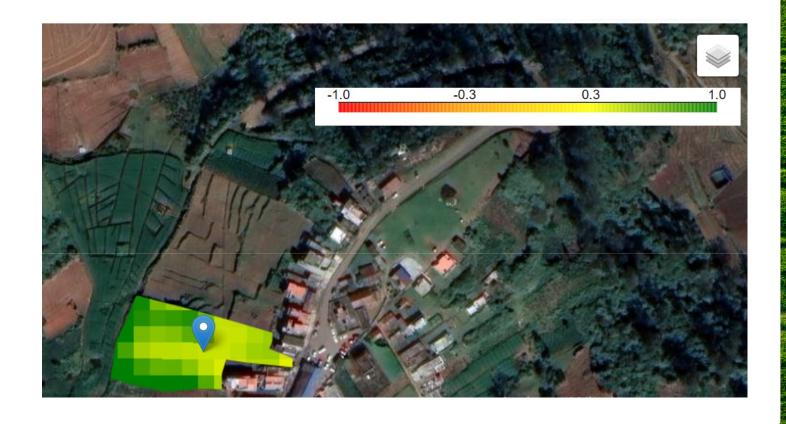


(Additional income for farmers)

Business Model #1 Soil Analysis & Crop Monitoring

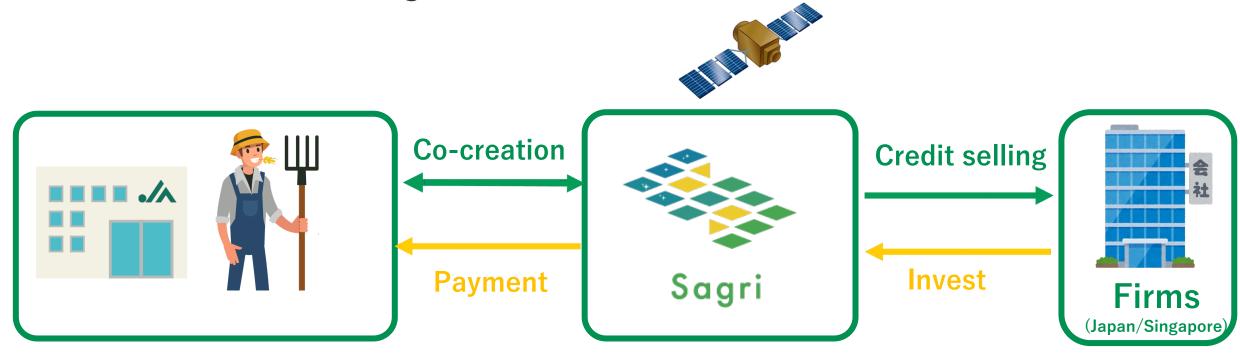
- Fee: 5-7 USD per ha per crop season
 - Can detect soil condition from 12 parameters, useful to decide fertilizer amount
 - Can detect progress of planting, giving indication for uneven growth

	SOIL T	EST RESULTS	
Sno	Parameter	Value	Rating
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Business Model #2 Co-create Carbon Credit

- V
- No initial fee incurredd, revenue share (50%/50%) with local partners
- Agricultural/Food companies
- Agricultural Organization/ Ministry of Agriculture
- Agricultural insurance companies
- NGO, International Organization

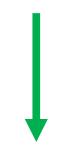


Case Studies in Thailand

- Project site
 - Lam Luk Ka District, Pathum Thani
- Activities
 - Al Polygon & Soil analysis
 - Fertilizer optimization
 - Impact to yield
 - Impact to climate change, carbon credit
- Result

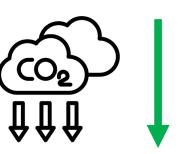






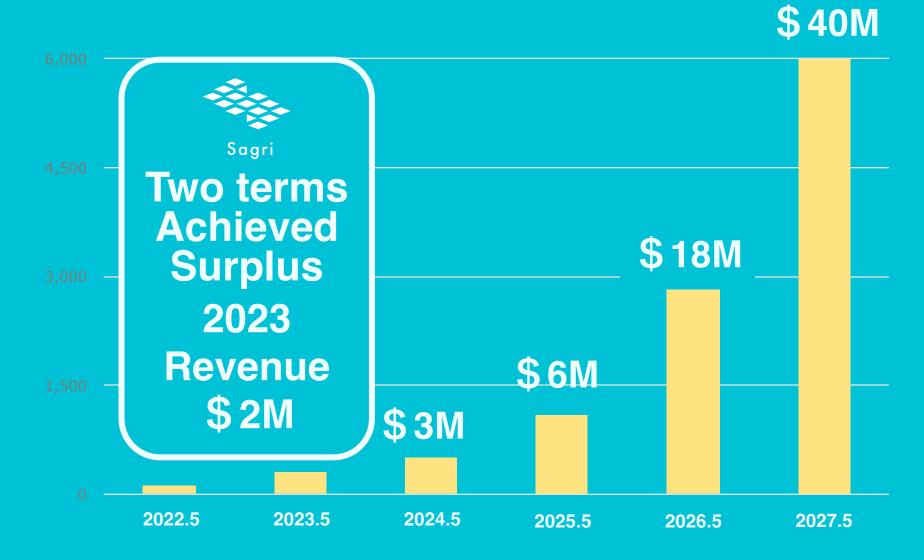








Business will grow even faster with decarbonization!







Track Record in ASEAN (Thailand)

- Partnership with Kasetsart University and conducted trial for carbon credit
- Newly announced coming PoC with CP Group in early November
- Previously worked with MOAC for AI Polygon development (JETRO Project)
- Selected by Japan MAFF for smart agriculture project







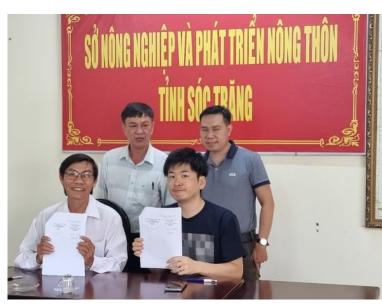


Track Record in ASEAN (Vietnam)

*

- Partnership with Can Tho University for joint research
- Signed MOU with local government (Soc Trang) and started the project
- Plan to expand to other Vietnam local government via MARD to achieve Sustainable development of 1 million hectares of high-quality rice in the Mekong Delta







Track Record in ASEAN (Indonesia)

- Agreed partnership with agri-tech under Telkomsel (Agree)
- Signed MoU with IPB
- In discussion with Ministry of Agriculture for AI Polygon Development







Track Record in ASEAN (Philippine)

- *
- In discussion with DA- BAR (Research Division of Ministry of Agriculture)
- MoU with UPLB (University of Philippine in Los Banos) to be signed
- Singed MoU with local start-up
- Selected by Japan MAFF for smart agriculture project





BUREAU OF AGRICULTURAL RESEARCH



Track Record in ASEAN (Cambodia)

- In discussion with Cambodia MAFF GDA for pilot project
- Signed partnership with local agri-tech company
- Singed MoU with insurance company
- In discussion with USAID for carbon credit project
- Selected by Tokyo Metropolitan government fund

