





日本企業からの技術移転を通じた新事業創造によるウクライナのグリーン産業復興プロジェクト Green industrial recovery project for Ukraine through technology transfer from and the co-creation of new businesses with Japan's private industries (#230356)

国連工業開発機関 事務次長 安永 裕幸 2025年5月27日





Agenda

- 1. Project information
- 2. Approved F/S proposals from 1st CfP (Batch 1)





(1) Background of the project

Japan's former Prime Minister Kishida visited Ukraine and had a summit meeting with President Zelenskyy in March 2023.

"Japan reaffirmed its commitment to the post-war recovery and reconstruction of Ukraine. The leaders shared the view that the private sector should play an important role in the recovery and reconstruction process."

(Joint Statement on Special Global Partnership between Japan and Ukraine, Para 17)





(2) Industrial Diagnostic Study for Ukraine (2023)

- UNIDO has collected and analyzed high quality data through an industrial diagnostic study (2023), which was funded by BMZ, Germany.
- This is a unique knowledge product with primary data collected by UNIDO through analysis, surveys (200+ firms) and consultations with public-/private-sector stakeholders.
- UNIDO has developed four chapters focusing on macro, meso, micro analyses and product diversification.
- The study is used as a base for all the UNIDO's interventions, including this project.





(3) Focus area

Determined based on Ukraine's industrial potential and Japan's technological comparative advantages.

Agribusiness, food value-chain and water infrastructure

Manufacturing from biomass and unused primary products and enhancement of circular economy

Digital transformation, active use of ICT, data analytics and artificial intelligence

Sustainable energy systems, energy conservation, industrial decarbonization, energy infrastructure management and mitigation of and adaptation to climate risks

Green Hydrogen/Ammonia

SME productivity enhancement and advanced logistics

Assistive equipment, telemedicine and medical services





(4) Project outline

a. Objective

Facilitation of technology transfer from Japan to Ukraine for industrial recovery, creation of new employment opportunities and co-creation of new businesses in cooperation with Japan's private industries

b. Total budget

USD 188 million funded by the Ministry of Economy, Trade and Industry of Japan (METI)

c. Project period

Overall period: 7.5 years (1 April 2024 - 30 September 2031)

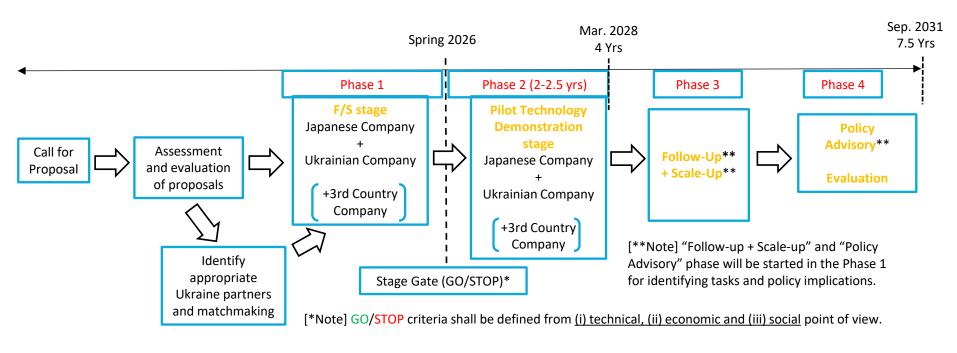
d. Implementation conditions

- Only Japanese private companies with technologies developed in Japan can apply.
- Japanese private companies must cooperate with Ukrainian partner companies.
- Partners from third countries can apply if required.





(5) Implementation timeline





2. Approved F/S proposals from 1st CfP (Batch 1)

	Applicant's name	Proposals of F/S
1	Cognitive Research Labs	Landmine location identification
2	Cold Storage Japan	Solar-powered mobile refrigerator with trailer
3	GVE	Secured real time banking system (inter-bank fund transfer)
4	Japan Dome House	Expanded Polystyrene-based dome structure for agricultural/community usage
5	Plus Lab	Water purification system based on shell-originated CaO
6	Sagri	Identification of farmland-originated GHG emission using satellite data and soil sample
7	Instalimb	Enhancement of 3D printed prosthetics production capacity
8	Allied Carbon Solutions	Production of sophorolipids (surfactant) from sunflower oil and value addition
9	Allm	Deployment of integrated portable medical devices and telemedicine support system
10	Greein	Data-driven agribusiness in sunflower seed production using AI-based IoT solution
11	LocationMind	Visualization and monitoring of human flow by using mobile phone communication data
12	PicoCELA	Deployment of robust wireless communication infrastructure using mesh-Wifi technology
13	Sansei	Deployment of medical container to enable people's access to medical service





2. Approved F/S proposals from 1st CfP (Batch 1)

	Applicant's name	Proposals of F/S
14	Aldagram	Deployment of construction management software for expedited reconstruction
15	ALISys	Deployment of metal detector and ground penetrating radar for detecting landmines and deployment of SAR for detecting small vibration of building
16	Eco Pork	Al-based optimization of pig breeding using camera image (increase pig production, improve feed efficiency and reduction of GHG)
17	Kurei	Use a chemical agent extracted from coffee and apply supercooling technology for avoiding agricultural product's damage from late frost
18	Mebiol	Deployment of hydrogel-based film for value-added farming system
19	Prodrone	Deployment of drone technology of low-and-stable flying capability for detecting landmines in combination with AI predictive modeling
20	Serendix	Deployment of an advanced 3D printing technology to construct concrete houses in a quick manner
21	Tagawa Shikkui Labs	Deployment of a production technology of non-baked ceramic tiles/blocks using war debris as raw materials
22	Thermalytica	Deployment of aerogel paint made from SiO2 for heat insulation of buildings and industrial facilities
23	Smart City Research Institute	Al-driven social infrastructure maintenance platform to assess the conditions of road surface
24	Tromso	Biochar production technology from agricultural residues





2. Approved F/S proposals from 1st CfP (Batch 1)

	Applicant's name	Proposals of F/S
25	Company A	Human resource development in annotation technology (web-based image, text, etc.)
26	Company B	Deployment of 3D model of cities by using digital twin tech for reconstruction of infrastructures
27	Company C	Deployment of advanced vulnerability assessment of key infrastructures (electricity, gas, heat and water)
28	Company D	Deployment of a culture solution from Bacillus Velezensis YBL2 strain for improvement of soil and water qualities
29	Company E	Deployment of superheated steam for plastic waste treatment technology
30	Company F	Deployment of production technology of biodegradable plastics molded products from agricultural residues





Cognitive Research Labs

Mine location detection







Data collection and fusion





Sharing of safety information









Cold Storage Japan







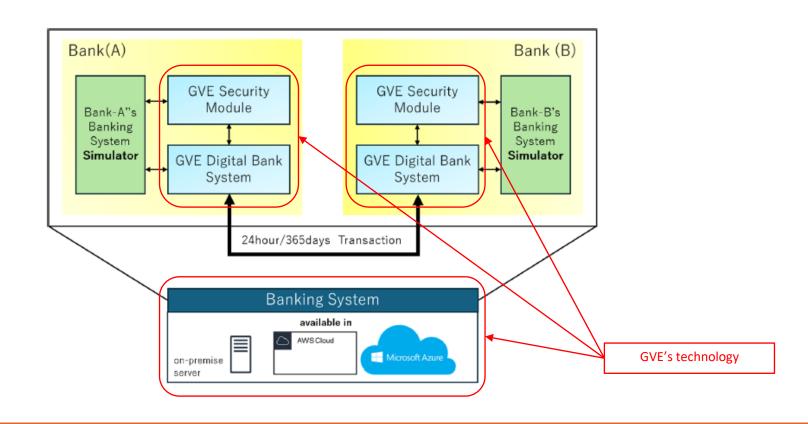


<For reference>

Total size	5,458mm(L) x 2,520mm(W) x 2,693mm(H)
Box size	3,700mm(L) x 2,020mm(W) x 2,220mm(H)
Capacity	1460kg
Temp range	-25 deg C \sim 15 deg C
Power supply (external)	100V~260V
Solar panels output	420W X 3 sets
Battery	400Ah / 5,120Wh
Other	Automatic defrost function IoT remote monitoring Dual temperature bands



GVE







Japan Dome House

Community Use







Height: 4,050mm Diameter: 7,700mm

Agricultural Use





Mushroom



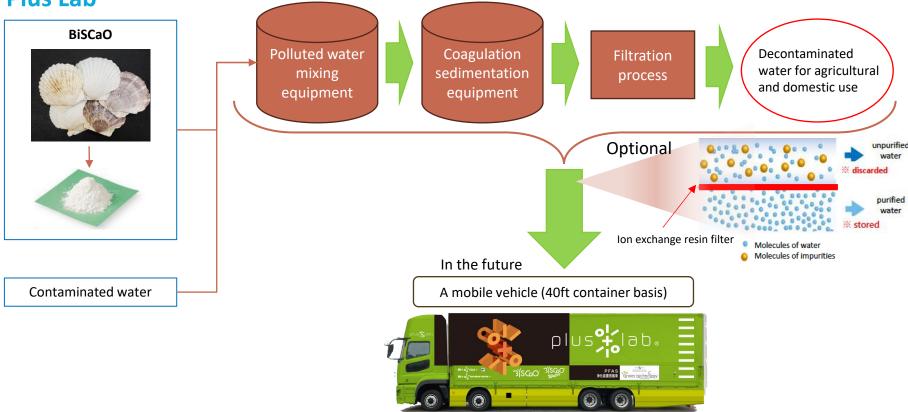
Vegetable

Height: 4,050mm Width: 7,700mm Length: 13,000mm





Plus Lab







Sagri

Automatic polygon generation by AI.

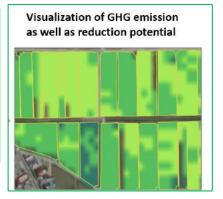
AI-based model that enables highly accurate digital soil mapping using satellite imagery and soil samples.

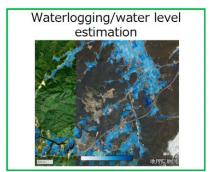
Technology for predicting waterlogging conditions or water levels from satellite images.

Auto-determination of field plots from satellite data



Total carbon, Total nitrogen, pH, CEC, etc. can be analyzed







Instalimb



Intalimb Modeller

Estimating modeling parameters driven by data, standardized by Al



High-speed 3D Printer

Print in 2-3 hours with stable conditions and uninterrupted printing.



Original Filament

Delivered 3000 prosthetics; rigorously tested filaments ensure highest quality and reliability.







Allied Carbon Solutions





Vegetable oil (Lipid source)





Sugar (Glucose source)









Fermentation

Sophorolipids (Biosurfactants)

Possible applications

- Livestock production enhancement
- Agriculture yield enhancement

Detergent

Cosmetics

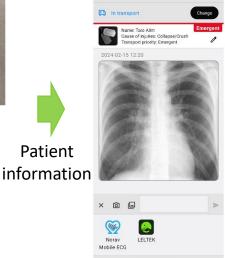
- Oil recovery enhancement
- •Removal of red tide organism and algae



Allm







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Doctor Network



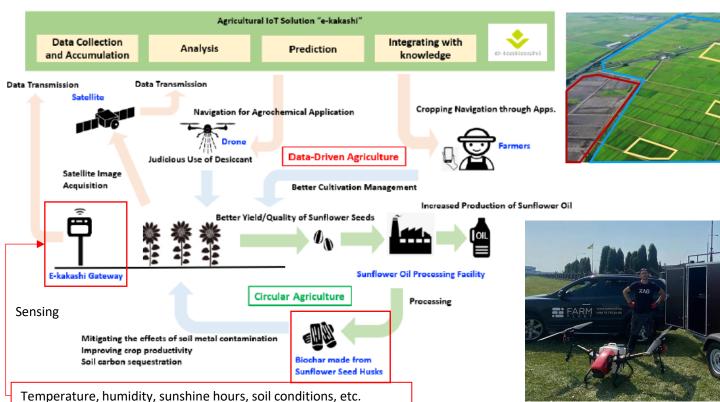
Instructions / guidance / support



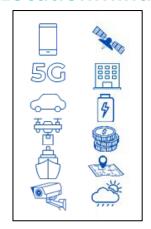
Greein







LocationMind









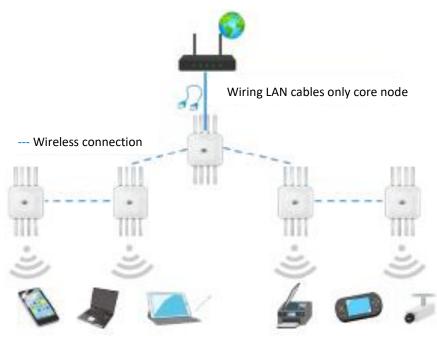




PicoCELA







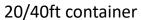






Sansei













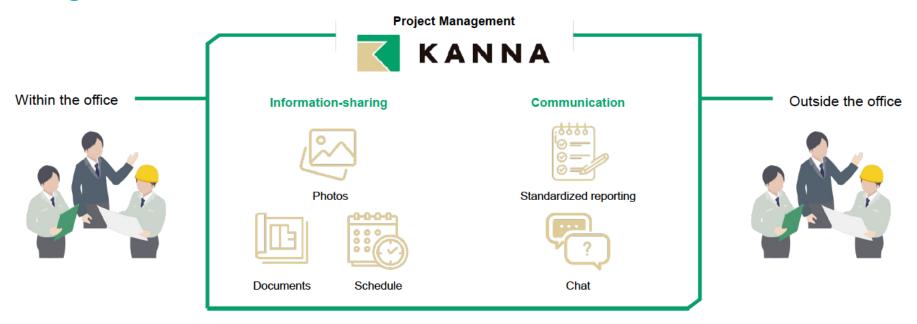








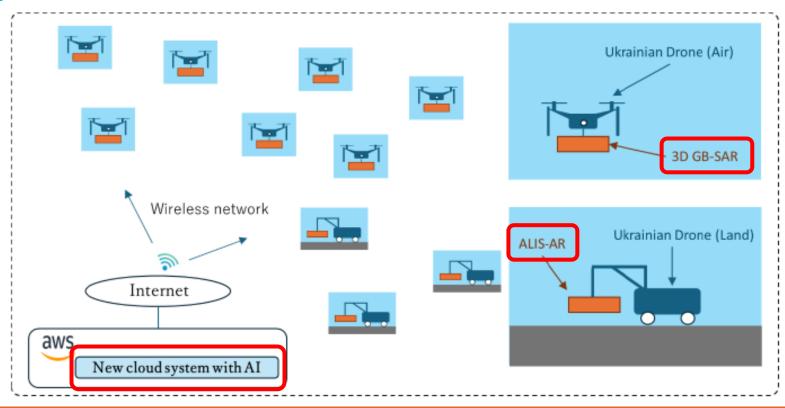
Aldagram



To streamline and facilitate project management and team interaction with simple UI design



Alisys





Eco Pork



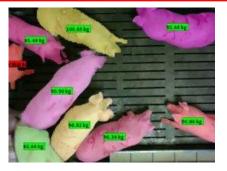
Growth and health data (weight, carcass weight, disease, abnormalities, etc.)

Al Biosensing camera



Operational data

Data management and analysis system (Porker)



Visualization of growth status



Info generation for operational sophistication (Feed conversion rate, antimicrobial administration inputs, proper shipping date, GHG reduction, etc.)

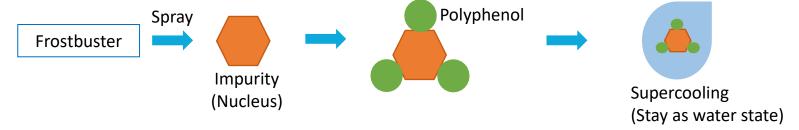




KUREi





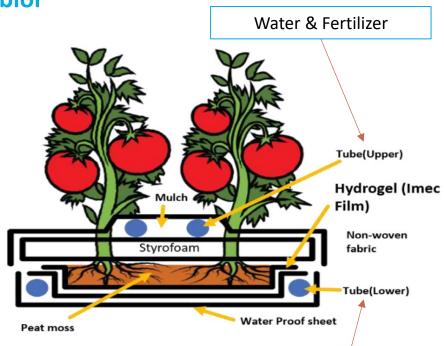


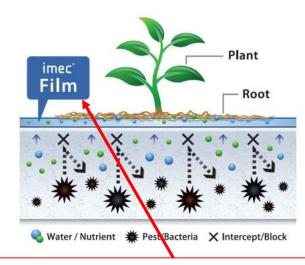
Nucleus covered by polyphenols that cannot be a core for ice creation





Mebiol





Hydro-membrane film made of hydrogel having waterabsorbing property that has nanosized pores

→ Only water and nutrients penetrate, and harmful germs and viruses are prevented.

Water & Fertilizer



Prodrone







Mine detection equipment (Metal detector)
Al-based satellite monitoring
Al-based aerial drone photography

Height: 600 mm
Propeller diameter: 780 mm
Weight (drone only): 12.3 kg
Max payload: 10.0 kg

• Flight duration: 30 min (with 5 kg equipment)

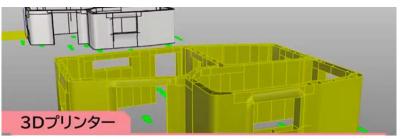
Max speed: 60 km/hWind speed: 12 m/s





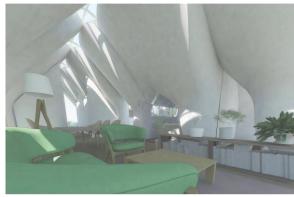


Serendix











Tagawa Shikkui Labs













Adding optional components for custom design



Putting mixed Limix powder into mold



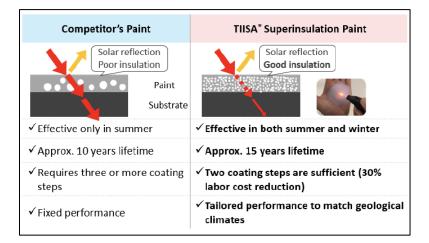
Applying 4,000 tons of pressure



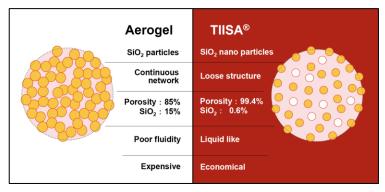
Curing with captured carbon dioxide



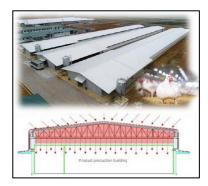
Thermalytica







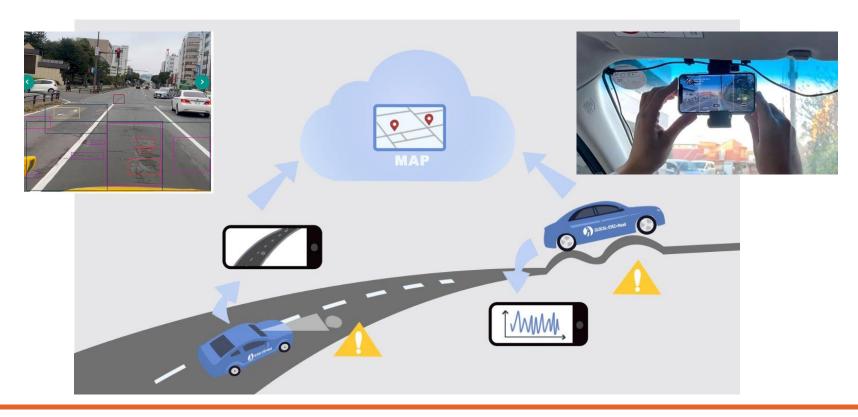








SmartCity Research Institute





Tromso











Agricultural residues





Thank you.