



Ministry of Agriculture,  
Forestry and Fisheries



Japan External Trade Organization



EMBASSY OF HUNGARY  
TOKYO

Council of  
Industry-  
Academia-  
Government  
Collaboration  
Japan

National Chamber  
of Agriculture  
Hungary

JAPAN-HUNGARY JOINT EVENT

# AGRICULTURAL INNOVATIONS & AGRO-TECH START-UP COMPANIES

CONTROLLED FARMING SOLUTIONS, DECENTRALIZED URBAN FARMING, SMART HIVE  
SOLUTION FOR BEEHIVES, IT SOLUTION FOR HORTICULTURE, LAND BASED FISH FARMING,  
ACCELERATED BREEDING PROGRAM, CRICKET FARMING, INCREASING RESISTANCE OF  
PLANTS

DATE: 9TH FEBRUARY 2021, 17:00-18:30 (JPT)  
ONLINE CONFERENCE

FREE REGISTRATION:  
[HTTPS://FORMS.GLE/EAZQEALBVDTTYSHY7](https://forms.gle/EAZQEALBVDTTYSHY7)



# our teams HUNGARY

## THE GROWBERRY

GROWBERRY INTRODUCES CONTROLLED FARMING SOLUTIONS TO INCREASE PRODUCTIVITY AND REDUCE RISK. GROWBERRY'S TECHNOLOGY ALLOWS USERS TO CONSTANTLY MONITOR ALL CONDITIONS THAT CAN AFFECT THE PLANTS' PRODUCTIVITY. THEY HAVE DEVELOPED A PLANT GROWTH CHAMBER WHERE YOU CAN FULLY MONITOR AND CUSTOMIZE ALL OF THE DECIDING PLANT GROWTH FACTORS, SUCH AS LED LIGHTING AND CLIMATE CONTROL. ALONGSIDE PROVIDING THE USER WITH FULL CONTROL OVER THE GROWTH FACTORS, THE USER IS ALSO PROVIDED WITH EXTENSIVE DATA FROM THE SENSORS, AND GROWING ALGORITHMS THEY CAN USE TO REPLICATE RESULTS IN THE FUTURE.



WEBSITE: [WWW.THEGROWBERRY.COM](http://WWW.THEGROWBERRY.COM)

## BEDROCK.FARM

BEDROCK'S DECENTRALIZED URBAN FARMING PRODUCTION CAPACITY SERVES NUTRITIOUS AND SUSTAINABLE LEAFY GREENS, HERBS, FRUITING CROPS AND MICROGREENS FOR LOCAL HOTELS, RESTAURANTS AND CAFÉS YEAR-ROUND. THE COMPANY'S VISION IS TO DEMOCRATIZE FOOD PRODUCTION BY CREATING AN URBAN FARMING NETWORK USING THEIR IN-HOUSE DEVELOPED DESIGNS, AND BECOME THE GO-TO PLATFORM FOR URBAN FARMERS. THE FARMING NETWORK OF BEDROCK PROVIDES ITS CUSTOMERS WITH A STANDARD HIGH QUALITY AND QUANTITY OF PRODUCE YEAR-ROUND, REGARDLESS OF OUTSIDE CONDITIONS SUCH AS WEATHER.



WEBSITE: [HTTPS://BEDROCK.FARM/](https://BEDROCK.FARM/)

## BEEBOX

BEEKEEPERS ARE FACED WITH A UNIVERSAL PROBLEM: THEY HAVE NO INFORMATION ABOUT THE HIVES BETWEEN CHECKUPS. BEEBOX IS A SMART HIVE SOLUTION THAT IS USED TO PROVIDE INFORMATION TO THE BEEKEEPER ON THE ACTUAL STATE OF THEIR HIVES, HEALTH STATE OF THE BEES, AMOUNT OF COLLECTIBLE HONEY, AND PROGRESS OF HONEY COLLECTION. USING BEEBOX, BEEKEEPERS CAN HAVE ALL THE DATA THEY NEED TO KNOW ABOUT THEIR HIVES AT THEIR FINGERTIPS, WITHOUT HAVING TO DISTURB THE HIVES PHYSICALLY BETWEEN CHECKUPS. THE SYSTEM ALSO MONITORS FIELDS AROUND THE HIVES USING SATELLITE DATA



WEBSITE: [HTTP://WWW.SPACE-APPS.NET/](http://WWW.SPACE-APPS.NET/)

## GREMON SYSTEMS

GREMON SYSTEMS IS A PROVIDER OF INNOVATIVE IT SOLUTIONS FOR THE HORTICULTURAL SECTOR WITH A FOCUS ON GREENHOUSE PRODUCTION. THE PRIMARY AIM OF GREMON SYSTEM IS TO PROVIDE BUSINESSES WITH PROFESSIONAL, INNOVATIVE AND USER-FRIENDLY DECISION SUPPORT SYSTEMS. THE USE OF THESE SYSTEMS MAKES IT POSSIBLE TO OPTIMIZE THE OPERATION OF DIFFERENT BUSINESSES, TO REDUCE ENVIRONMENTAL PRESSURE CONSIDERABLY AND TO CUT EXPENSES, EVEN IN THE SHORT TERM. THE PRODUCTS OF THE COMPANY OFFER SOLUTIONS THAT HELP GROWERS TO BETTER EXPLOIT THEIR RESOURCES LEADING TO SIGNIFICANT COST SAVINGS AND THUS ACHIEVING HIGHER PROFITABILITY THAT ENABLES CUSTOMERS TO INCREASE THEIR YIELDS.



WEBSITE: [HTTPS://GREMONSYSTEMS.COM/JA/HOME-2/](https://GREMONSYSTEMS.COM/JA/HOME-2/)

# our teams

## JAPAN

### ARK INC.

ARK DESIGNS AND PRODUCE CRAS (CLOSED RECIRCULATING AQUACULTURE SYSTEM) FOR LAND-BASED FISH FARMING. ARK'S MISSION IS TO ENABLE PEOPLE TO START AQUACULTURE IN ANYWHERE AROUND THE WORLD WITH MUCH SMALLER SCALE AND INVESTMENT THAT WOULD LOWER THE BUSINESS RISK OF FARMERS SUBSTANTIALLY. THE MINIMUM SPACE WE REQUIRE FOR OUR SYSTEM ARK IS ONLY A PARKING SPOT FOR A SEDAN. IT RUNS OFF GRID AND ZERO EMISSION WITH REUSABLE ENERGY AND HEAT GENERATED BY PANEL AND WIND TURBINE ON THE ROOF OF ARK. WE ALSO OFFER A SUBSCRIPTION SERVICE INCLUDING MATERIALS AND ESSENTIALS TO GROW SHRIMP OR FISH IN THE SYSTEM AND AN APPLICATION TO MONITOR THE WHOLE SYSTEM REMOTELY 24-7. THE FIRST DELIVERY OF ARK WILL BE STARTED FROM FALL 2021.

### GRA&GREEN INC.

GRA&GREEN OFFERS ACCELERATED BREEDING PROGRAMS TO CREATE NEXT-GENERATION FOOD AND AGRICULTURE. GRA&GREEN HAS PROPRIETARY TECHNOLOGIES SUCH AS A GENE-EDITING TOOL AND A DELIVERY SYSTEM THAT DO NOT REQUIRE AN AGROBACTERIUM-MEDIATED TRANSFORMATION AND REGENERATION PROCESS. THIS SYSTEM CAN BE UTILIZED FOR VARIOUS COMMERCIAL VARIETIES OF CROPS AND VEGETABLES THAT ARE PREVIOUSLY IMPOSSIBLE. GRA&GREEN IS PROVIDING A SOLUTION FOR THE RAPIDLY-CHANGING WORLD BY CREATING HIGH-YIELD CROPS WITH DESIRABLE TRAITS.

WEBSITE: [HTTPS://WWW.GRAGREEN.COM/EN](https://www.gragreen.com/en)



### GRYLLUS INC.

GRYLLUS AIM TO CREATE MASS SUPPLY SYSTEM OF CIRCULATING EDIBLE PROTEIN BY PRODUCING CRICKETS. CRICKET FARMING IS PROMISING AS A NEW SUSTAINABLE LIVESTOCK FARMING BECAUSE OF ITS LOW ENVIRONMENTAL IMPACT.

GRYLLUS ADVANCE RESEARCH AND DEVELOPMENT OF AUTOMATED CRICKET REARING SYSTEM AND NEW STRAIN BREEDING TECHNOLOGY, INNOVATE CRICKET FARMING INDUSTRY.

[HTTPS://GRYLLUS.JP/](https://gryllus.jp/)



### AC-PLANTA INC.

DUE TO GLOBAL WARMING, DROUGHTS AND HEAT WAVES OCCUR FREQUENTLY. DAMAGE TO CROPS AND FORESTS IS ENORMOUS, ENDANGERING FOOD AND LIVELIHOODS.

AC-PLANTA HAS DEVELOPED A TECHNOLOGY USING ACETIC ACID TO PROTECT PLANTS AGAINST EXTREME DRYNESS AND HIGH TEMPERATURE AT THE SAME TIME BY STIMULATING THE ENVIRONMENTAL STRESS TOLERANCE MECHANISM THAT PLANTS NATURALLY HAVE.

OUR TECHNOLOGY IS FRIENDLY TO BOTH HUMAN AND ENVIRONMENT.

WE CONTRIBUTE TO THE CREATION OF A SUSTAINABLE SOCIETY BY STABLY PRODUCING FOOD AND GREEN RESOURCES WITH WATER-SAVING EVEN UNDER ABNORMAL WEATHER CONDITIONS.

[HTTPS://AC-PLANTA.COM/EN/FARM/](https://ac-planta.com/en/farm/)

