



MICS2024

Mini plant factory establishment in schools for sustainable agriculture and nutrition enrichment

Final Report

Social Issue and Solution

Social Issue

Short life expectancy

Ranking	Country	Ave. Life
1	Japan	84.3
2	Switzerland	83.4
3	South Korea	83.3

131	Mauritania	68.4
132	Mongolia	68.1
133	Republic og Fiji	68



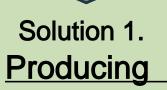
Lack of Vegetables

- One -third of the required intake
- Dairy and meat-based diet

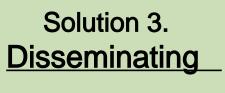
Solution

Challenges of Vegetable intake

- 1. Se ve re Climate
- 2. Me at
 Dominant
 Me als
- 3. Traditional Food Habits





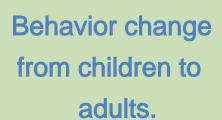








Balanced diets for health.



GOAL

- EstablishingVege -eatingculture
- Improving the health and life quality
- ✓ Increased life expectancy
- ✓ Industrial development

Solutions For Creating Habits of Eating Veg

#1 Producing

Sustainable

Production



#2 Eating



Plant Factory at School



School Meals &"Shokuiku*"



Veg Move from kids to others!!



Change from Children





Make Kids Enjoy Eating





Pilot school: Focus on "Production" & "Eating" parts.

*Nutrition Education

Pilot Project in Khanbogd

- Placing Mini Plant Factory (Vegetable-racks) in Khanbogd 2nd school
- Khanbogd 2nd School, near the Oyu Tolgoi mine, has 882 students
- Khanbogd is a key mining hub in Mongolia, with a growing population The school plays a vital role in educating local children in this rapidly de ve loping region
- Introduced to the school through "MICS 2024 in Khanbogd"



Pilot Project in Khanbogd

Project Team











Technology



"NSP-system"



Pilot school



Khanbogd 2nd School



Number of students 883

Funded by

Regional Development Fund in Mongolia

Crowdfunding
Through Japanese
cloud funding company

CAPEX+OPEX (1st year)

Approx. 6 million yen

Medium -term Timeline

2026

2027

Starting greenhouse

Global expansion Ex. China, Central Asia, Midde East

2030

Nationwide

schoolcoverage

50%+

Es tablis hing Vege-eating culture

Enhancing health and life quality



2025

POC & Shokuiku* at Khanbogd

2nd school



Project Members



Waseda Business School



Prof. **KATSUHIRO** Sato

Finance

YUTAKA

Abe



Marketing MASATAKA Shimada



Marketing **ERIKA** Sato







Law **AKINORI**



Mima



Biz - Develop RYO Yamada



Logistics SUMI Kimura



Agri - Biz SHIGERU Nakashima



Medical SHIGEYOSHI Kijima



Creator **ATSUSHI** Wada



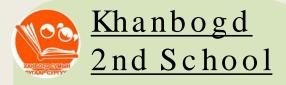
Mongolian University of Science and Technology



Prof. **CHOIJIL** Baasandash



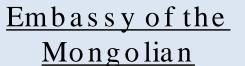
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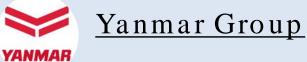


Teacher O.Baljinnyam

Supporters









Crowd funding

Through Japanese cloudfunding company