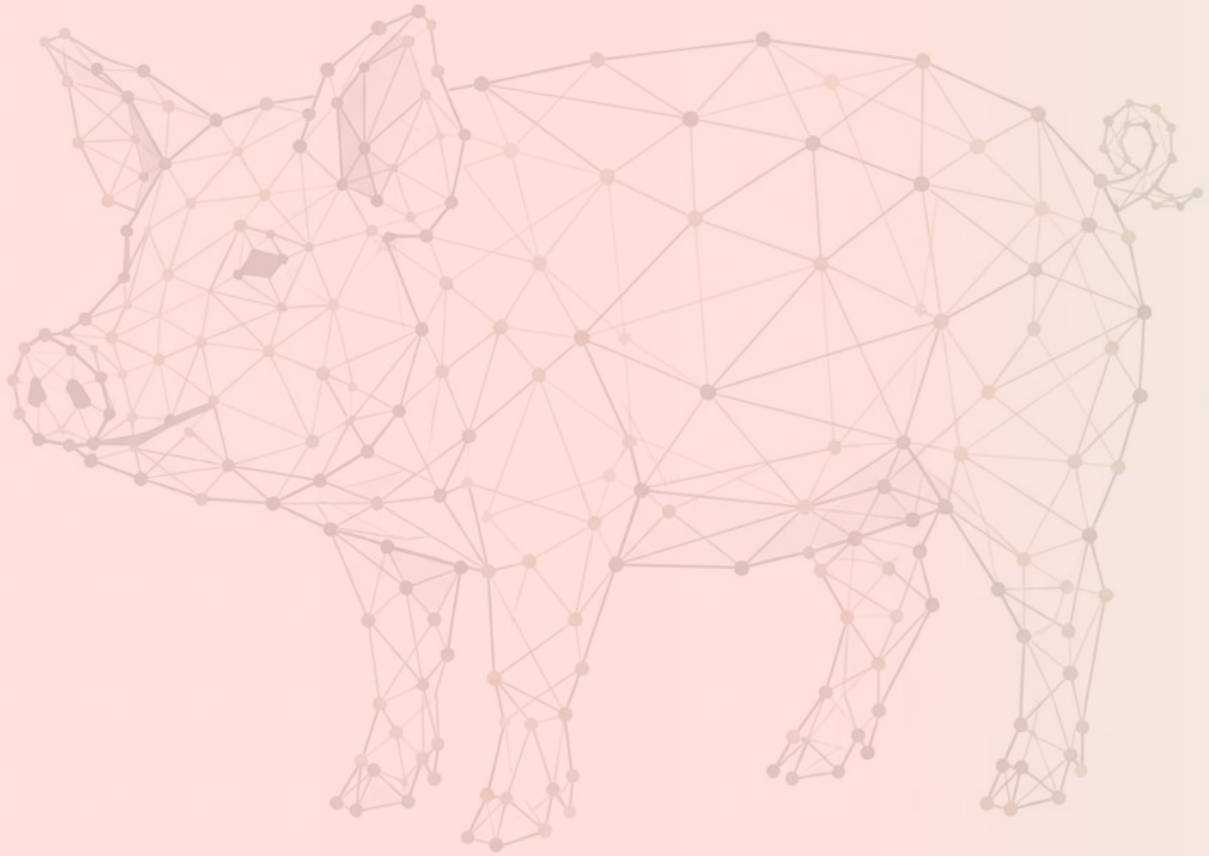
Impact Report 2026

Data company for sustainable
Pork Ecosystem

Eco-Pork



Eco-Pork co., ltd.

Feb 2026

Introduction

The company name "Eco-Pork" embodies our desire to bring a safe and prosperous life to people around the world by balancing the resolution of environmental issues related to meat, starting from pig farming, with economic development.

As a data-driven company, we visualize and optimize complex pork production processes, boosting productivity and resource efficiency. In 2025, international partnerships expanded and global deployment—including the U.S. and Ukraine—shifted from concept to implementation.

Throughout history, local circular systems centered on pig farming flourished worldwide. In Japan, pigs were raised on kitchen scraps, their waste enriched soil, and mature pigs became food. Our circular pork economy aims to reconstruct this age-old cycle using data for today's world.

The global protein crisis is said to become apparent as early as 2027, making it an increasingly realistic threat. That is why we are accelerating our progress by refining our technology and expanding our partnerships.

Please look forward to our future endeavors.

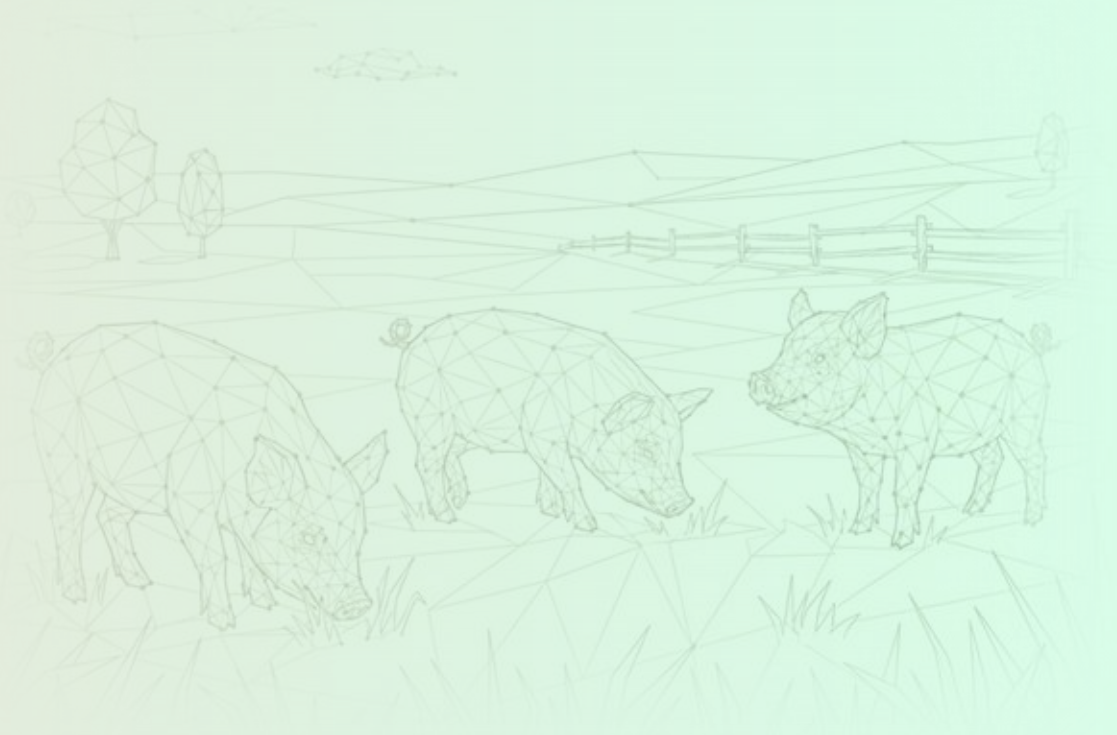
Founder & CEO
Takashi Kambayashi

Eco-Pork

CONTENTS

1

Summary



Eco-Pork

Eco-Pork； Data Company for Sustainable Pork Ecosystem

The World's Only Data-Driven Company Tackling Global Food Issues Through the Digital Transformation of Pig Farming

—Striving for a Future in 2040 Where We Can Still Choose to Eat Meat—

Eco-Pork provides data-driven solutions that enhance productivity in pig farming while reducing environmental impact.
We are an impact-driven startup company committed to addressing the global protein crisis and mitigating environmental challenges in livestock industries.

Data Company for
Sustainable Pork Ecosystem

J-Startup Impact

"J-Startup Impact" selected by METI

Eco-Pork

Vision

Food is Life: Passing on the Genuine Meat Culture to the Next Generation

Humans have lived by taking the lives of various organisms, including animals, plants, and fungi.

Among these, the consumption of land animals has given rise to diverse cultural practices shaped by nations, religions, beliefs, and climates, including taboos and restrictions.

Today, this diversity of meat cultures is facing new challenges such as supply-demand imbalances and environmental issues.

As we strive to solve the sustainability challenges facing both humanity and the planet, can we pass on the rich and meaningful culture of consuming meat — a tradition as old as humanity itself — to future generations?

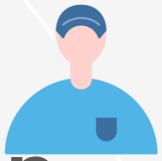
At Eco-Pork, we believe in creating a world where both the choice to consume meat and the choice not to are equally respected. By leveraging technology, starting with pig farming, we aim to realize a society that offers abundant options and the freedom to choose.

Eco-Pork

Mission

Building a Data-Driven Circular Economy for Pork Production

Our mission is to build an ecosystem based on environmental sustainability and respect for food diversity. By leveraging data, we aim to improve every stage of the pork production and distribution process, ensuring the efficient use of limited resources. To achieve this, we will work hand in hand with everyone involved in the pork industry.



EcoSystem V1.0 Food Chain
= Individual Optimization

EcoSystem V2.0 Economic Chain
= Partial Optimization

EcoSystem V3.0 Global Resource Chain
= Holistic Optimization

For People and Planets
well-being and Profitability.

Highlight of Impact

Achievements to Date

Achievement

Share of Porker

14.7%

*Based on # of sows in Japan. Includes OEM

Productivity Improvement

7%

*First-year average results for farms adopting Porker. Compared to the previous period.

PoC progress for the future*

Progress for Future

FCR Improvement

11%

*FCR: Feed Conversion Ratio. Performance of digitalized pig firm under development and verification through SBIR program. Compared to the national average.

GHG Reduction

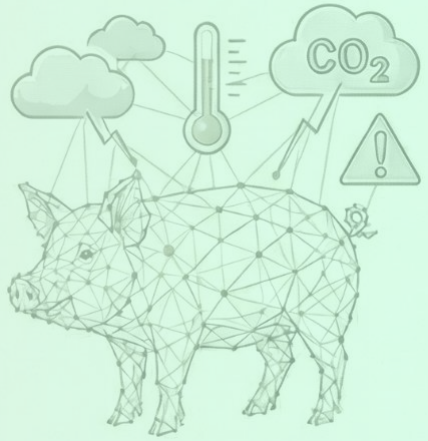
13%

*J-Credit average for participating farmers in project. Compared to pre-participation levels.

*Refer P26 for improvement targets

2

Social Issues in Pig Farming



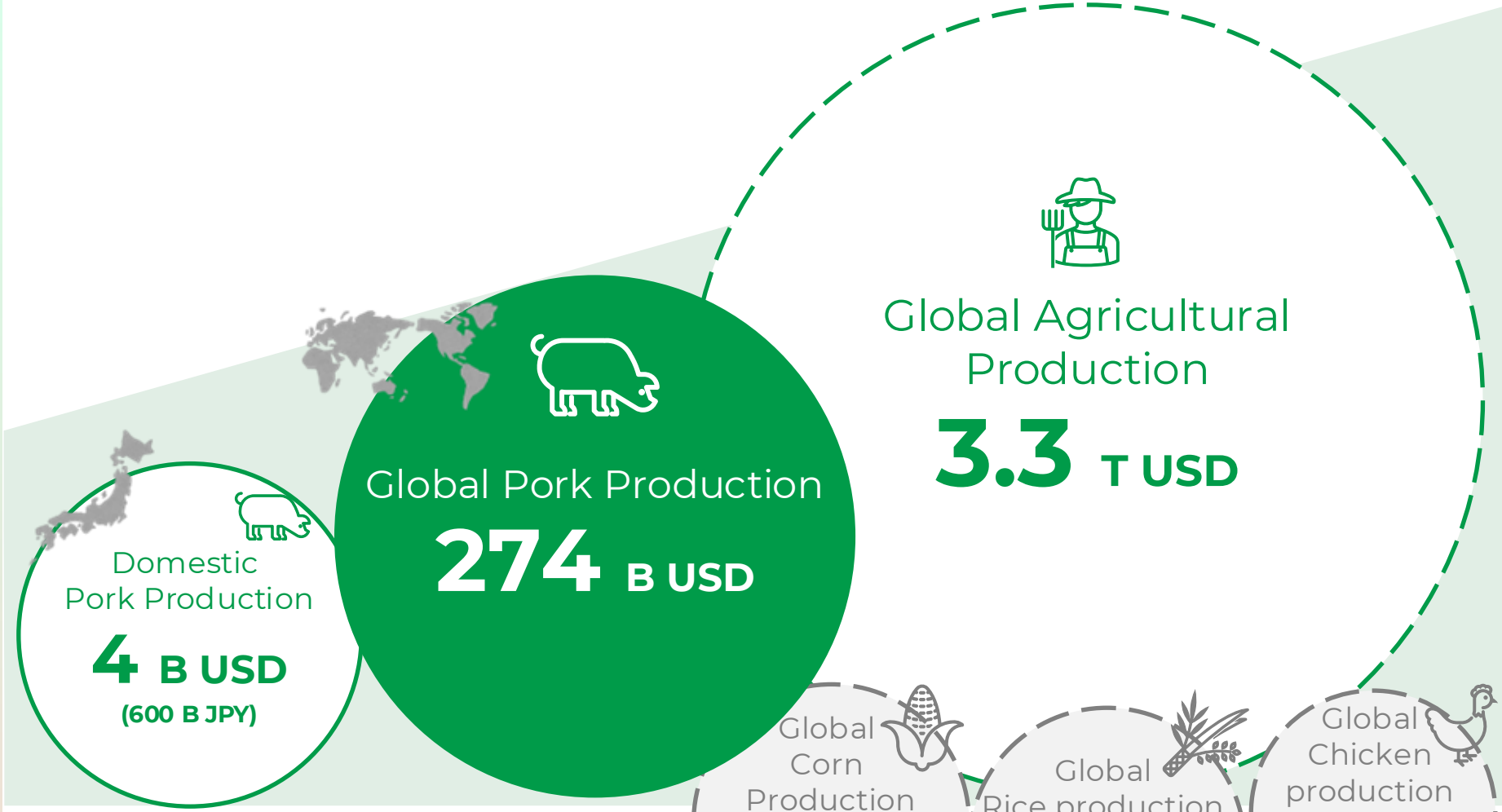
Eco-Pork

Pig Farming: World's Largest Primary Industry - 274B USD

In Japan, the pig farming industry generates approximately 4B USD, while globally, it is a massive 274B USD.

The total value of global agricultural production was about 3.3T USD in 2021, and pig farming surpasses other crops such as corn and rice, as well as other livestock products like beef and poultry, making it the world's largest primary industry.

Pig farming supports the world's protein supply.



Source: Ministry of Agriculture, Forestry and Fisheries, FAOSTAT
1 USD = 150 JPY

Eco-Pork

Pig Farming: Center of Sustainable Food Culture

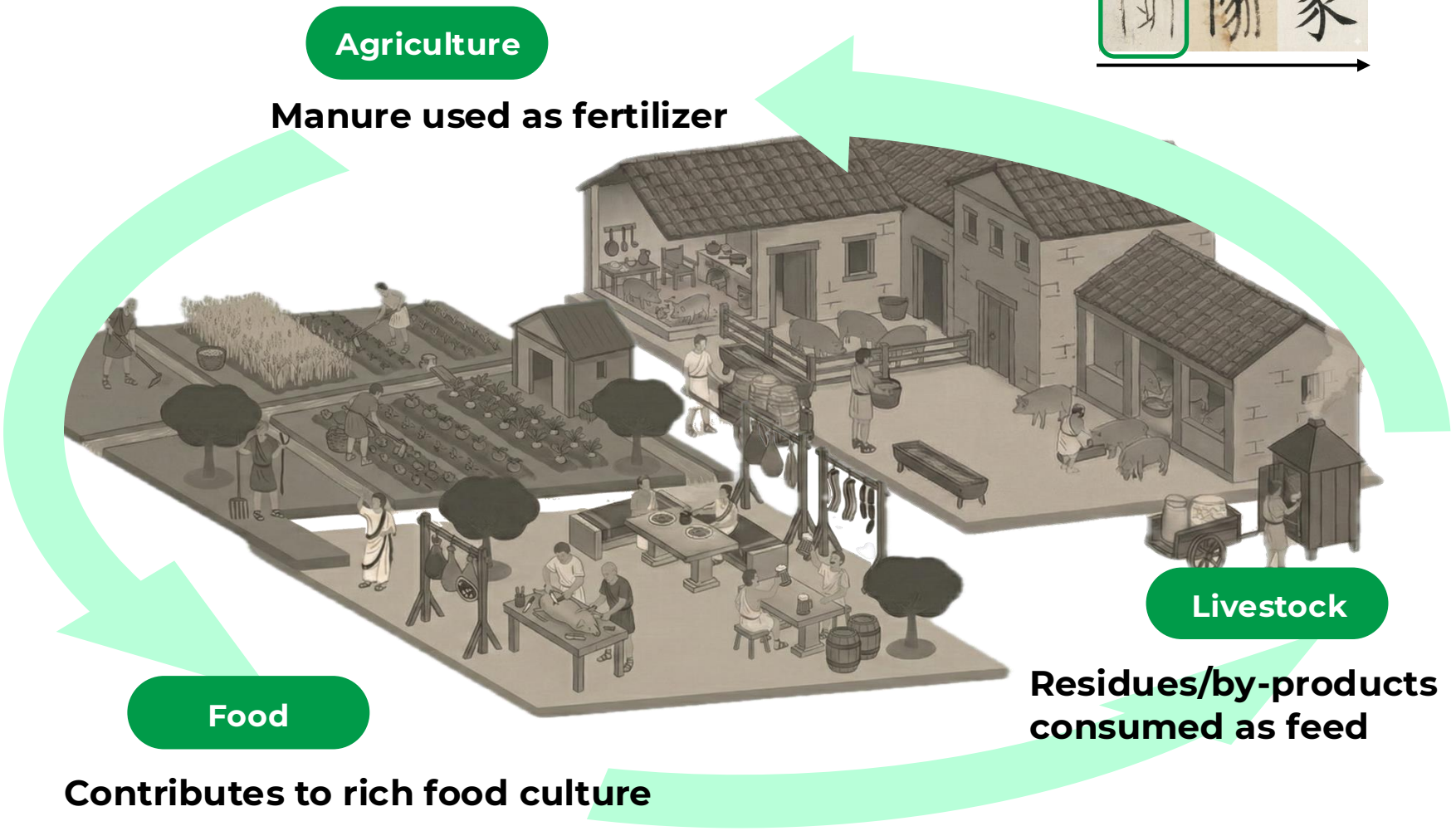
Pigs are said to be one of the oldest domesticated animals in human history, and pig bones have been found in 10,000-year-old ruins in ancient Mesopotamia.

People fed pigs food scraps, used their excrement as compost, and supplied protein to humans as preserved foods such as fresh meat, sausages, and bacon. It was truly Livestock (storing life).

Just as the kanji for "home" (家) includes the character for "pig," local circular societies centered on pig farming were seen in various parts of the world and have built local meat cultures.

Local circular society centered on pig farming (image)

Kanji "家" (home) depicts a pig within living quarters



Eco-Pork

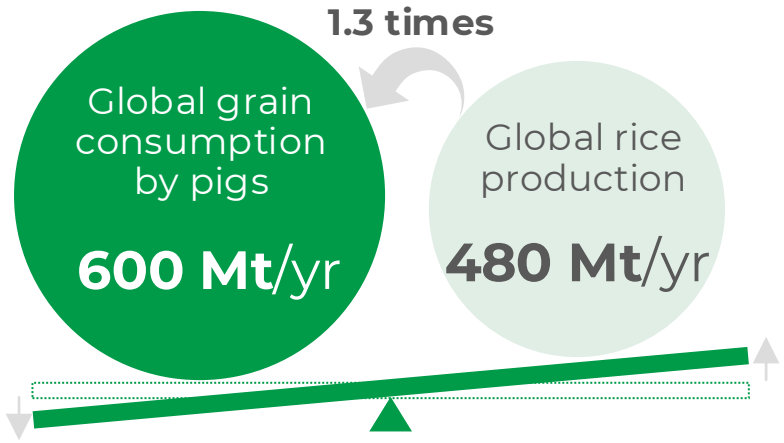
Sustainability Underpinning Rich Food Culture at Risk

As the world's largest primary industry, pig farming consumes a large amount of the earth's resources.

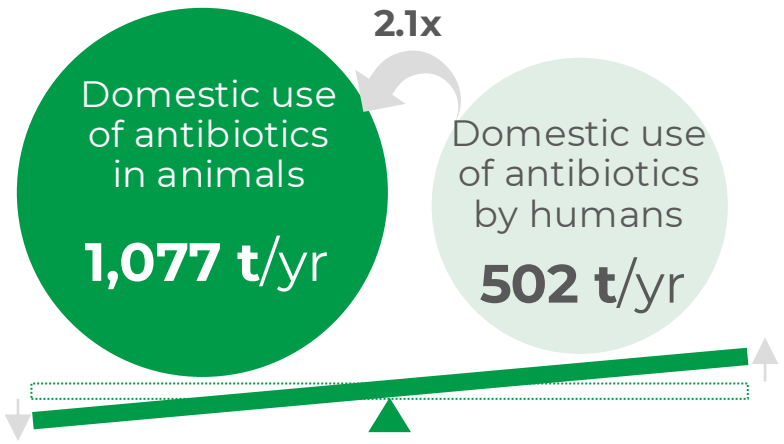
Demand for grains and animal protein will continue to increase due to population growth and changes in dietary habits of emerging countries.

For the future of humanity, it is necessary to realize more efficient resource utilization and decarbonized pig farming.

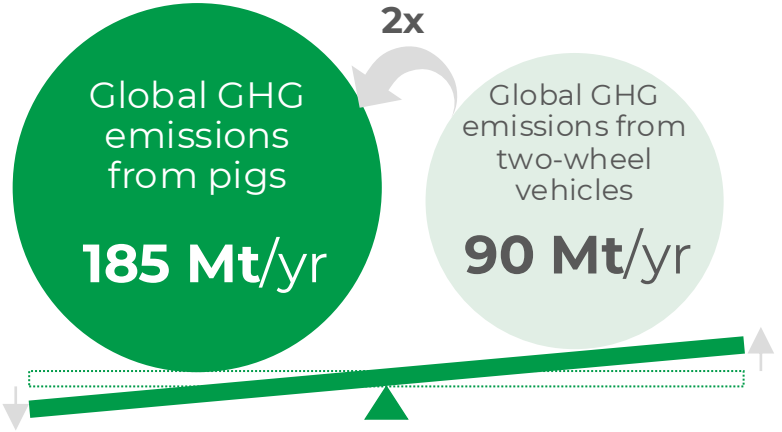
Grain / Feed



Antibiotics



GHG Emissions



Source: FAOSTAT , AMR One Health Trends Survey

Eco-Pork

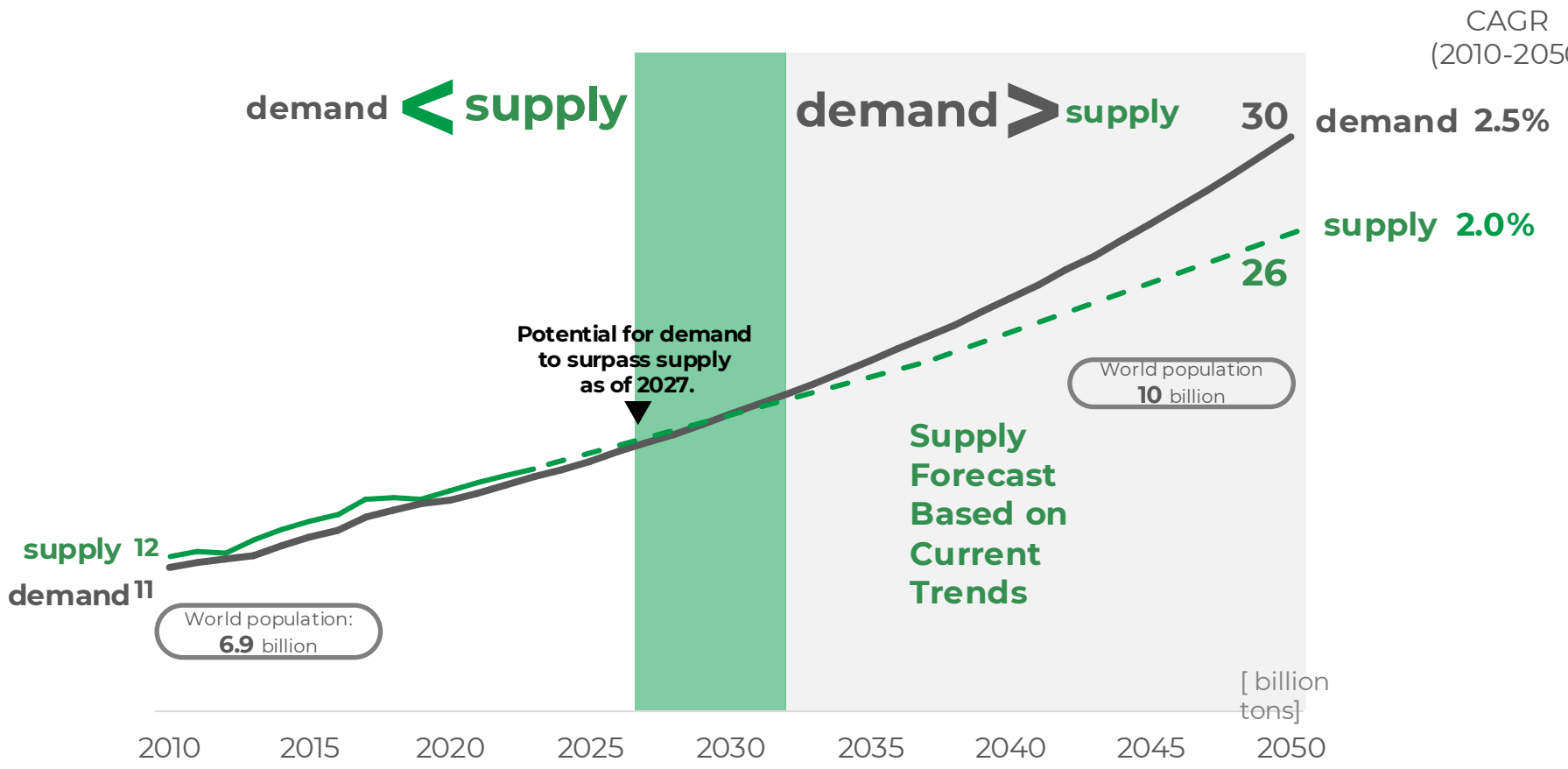
Issue 1: Protein Crisis (2027–2032)

The current global population is around 8 billion, and it is expected to reach approximately 10 billion by 2050.

As economies grow wealthier, dietary habits tend to shift from carbohydrate-centric to animal products like meat and fish, leading to a rapid increase in protein demand.

The "protein crisis" refers to the imbalance between protein supply and demand due to this growing population. This crisis is expected to become apparent around 2027–2032 and responding to it is an urgent task.

Global Demand and Supply of Protein-Rich Agricultural Products



The global population grew from 6.9 billion in 2010 and is projected to reach **10 billion** by 2050.

By 2027, demand could exceed supply.

By 2050, demand for protein-rich agricultural products will be **2.7 times higher** than in 2010.

Source: Based on the 2022 FAO/OECD report, FAOSTAT (Production, Food Balances), and UN "World Population Prospects 2019," with estimates by our company.
Agricultural products included in the estimate: Plant-based proteins (soybeans) and animal-based proteins (meat, fish, eggs, dairy).
For the supply side, projections are calculated based on current growth rates, without factoring in potential technological innovations in production systems.

Eco-Pork

Issue 2: Antimicrobials & Resistant Bacteria

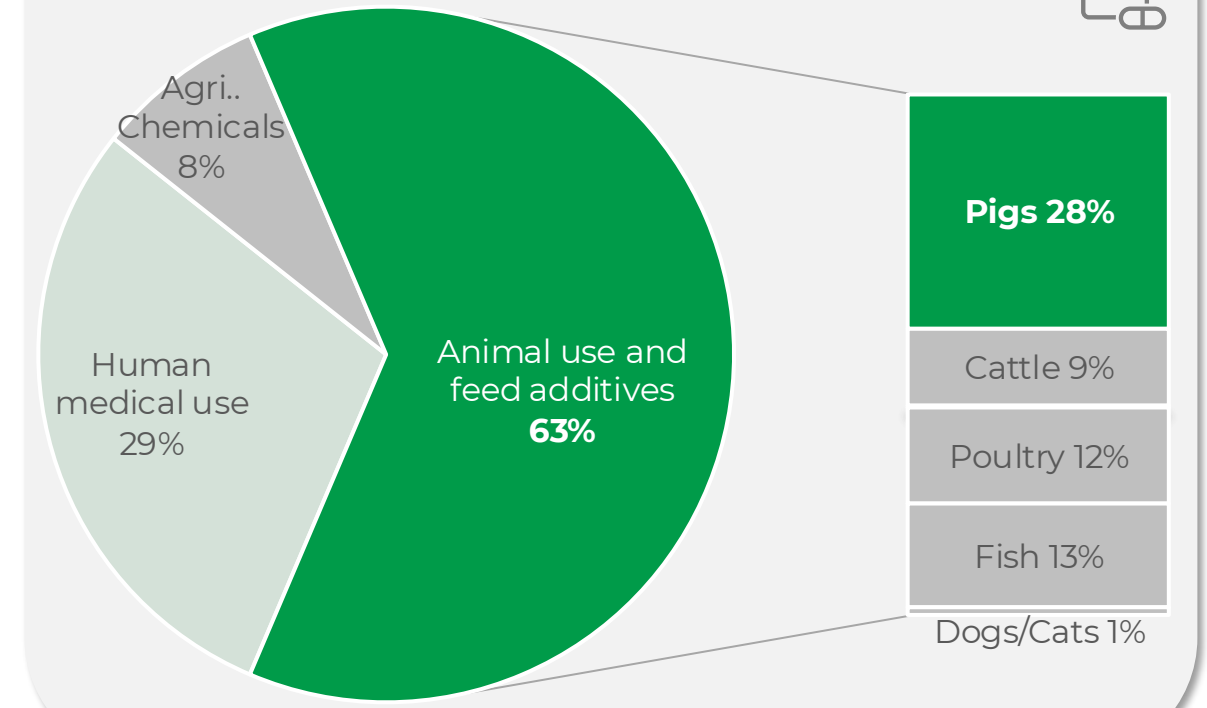
As antimicrobial-resistant bacteria increase, infections that could previously be treated effectively may become severe, potentially leading to higher mortality rates.

If measures such as reducing the use of antimicrobials are not implemented, approximately 10 million people could die by 2050, surpassing the current annual death toll of 8.2 million from cancer.

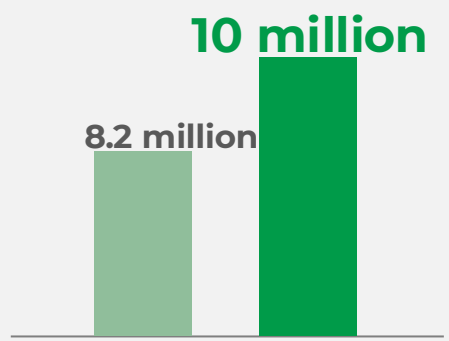
Japan has one of the highest detection rates of antimicrobial-resistant bacteria globally, with approximately 63% of antimicrobials used for animals, about 2.1 times the amount used for humans.

Among animals, pig farming uses the most antimicrobials, making reduction efforts a critical and urgent issue.

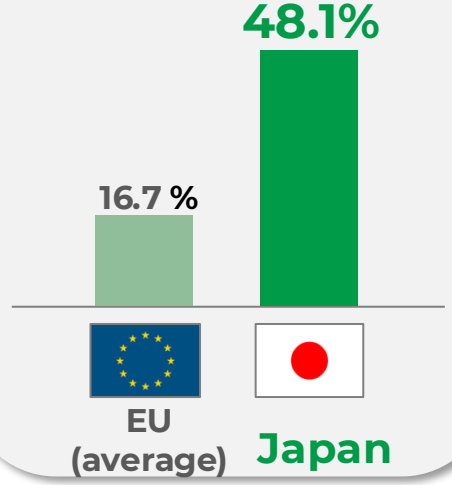
Antibiotic usage in Japan (2020)



Estimated number of deaths caused by AMR* (2050)



"International Comparison of Antibiotic Resistance Rates (2020)(Methicillin-resistant Staphylococcus aureus)"



Source: AMR One Health Trend Survey, Ministry of Health, Labor and Welfare, WHO
* AMR: Antimicrobial Resistance .

Eco-Pork

Issue 3: GHG from Pig Farming (Livestock Emissions)

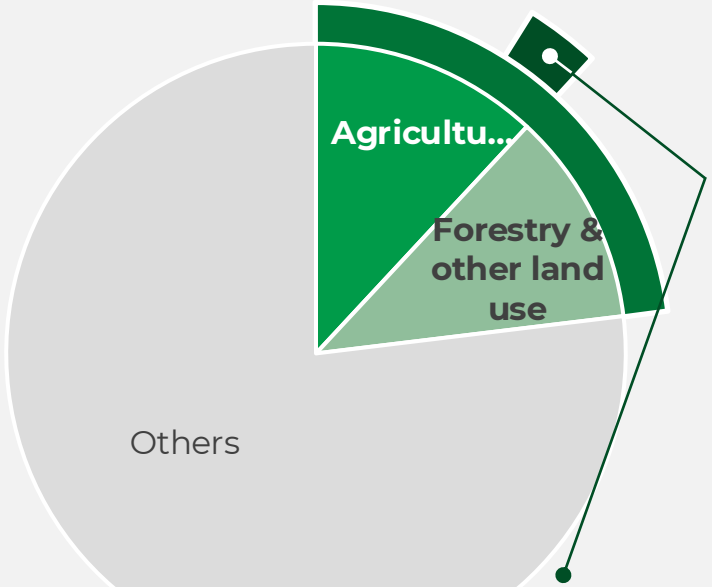
Global GHG emissions are approximately 52 billion tons CO2-equivalent (2007-2016 average), with the agriculture and forestry sector accounting for about 12 billion tons, roughly one-quarter of the total. CO2 emissions from live pigs alone are estimated at about 185 million tons.

In Japan, GHG emissions from the agriculture, forestry, and fisheries sector were about 47.47 million tons in 2019, with 13.58 million tons from livestock, representing about 29% of the total.

Furthermore, CO2 emissions from live pigs accounted for 1.74 million tons, representing 13% of total livestock emissions.

Global GHG emissions (2007-16 average, billion t-CO2/year)

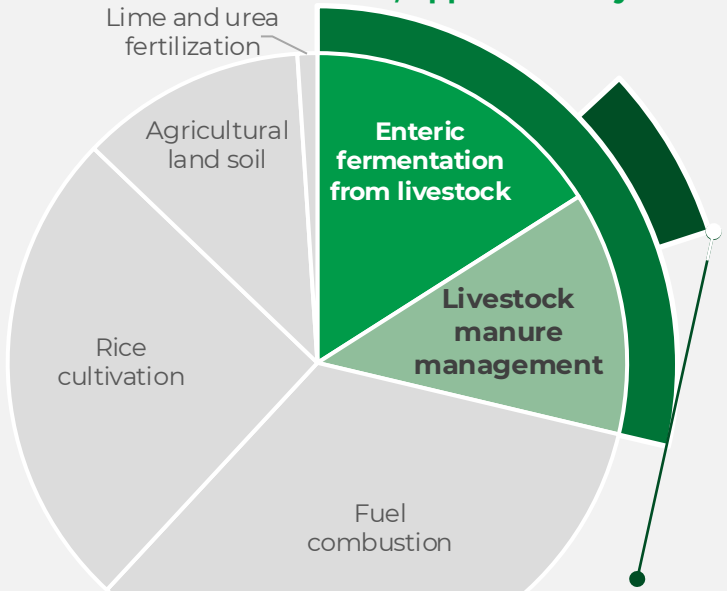
Agriculture and forestry total 12 billion t-CO2, Approximately... 23%



GHG emissions from live pigs: approximately 185 million t-CO2

Domestic GHG emissions from the agricultural, forestry, and fisheries sector (2019, ten thousand t-CO2/year)

GHG emissions from livestock: 13.58 million t-CO2, approximately...



GHG emissions from live pigs: approximately 185 million t-CO2

Approximately 13% of livestock production (3.8% of total production)

Source: IPCC , FAOSTAT , Office of the Greenhouse Gas Inventory

Eco-Pork

Issue 3: GHG Impact (Full Pig Farming Lifecycle)

The GHG emissions from pig farming shown on the previous page—185 million tons (global) and 1.74 million tons (domestic)—were derived from live pigs.

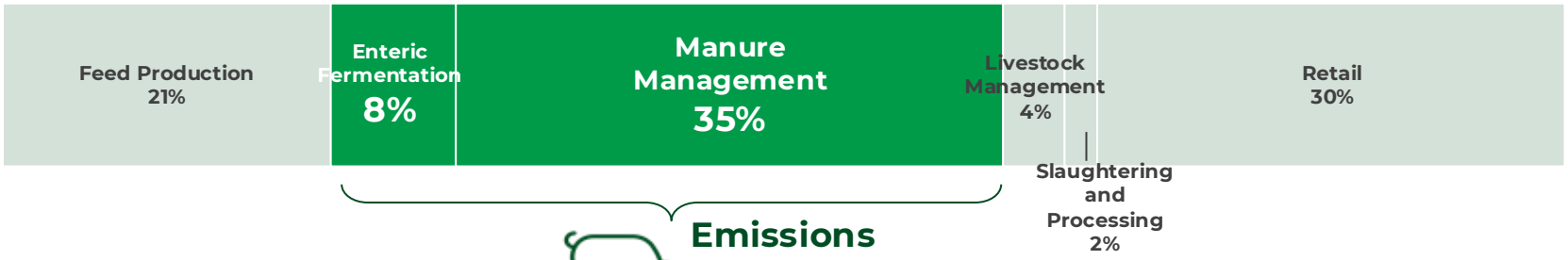
Considering the entire lifecycle—feed production, energy use in production (electricity, LPG, etc.), slaughter/processing, and retail—total emissions are estimated at approximately 430 million tons globally and 4.05 million tons domestically.

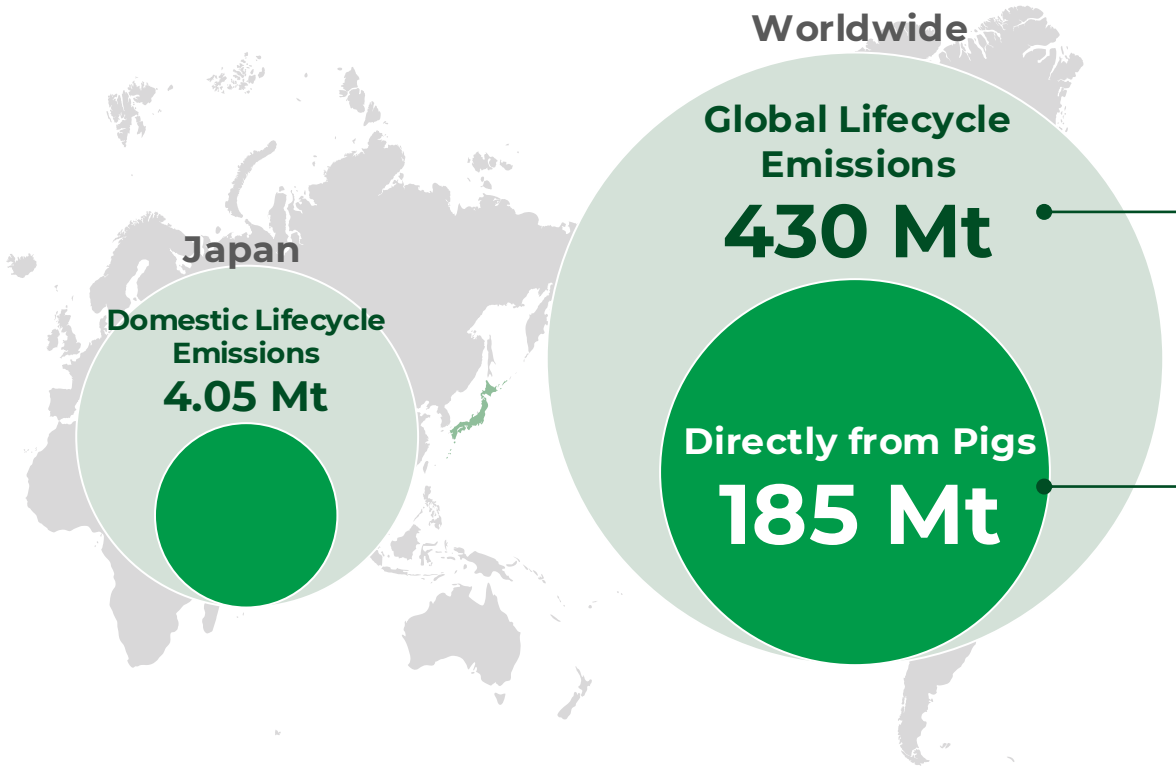
These figures are several times higher than the global GHG emissions from motorcycles, suggesting that global regulations for the livestock and pig farming industries may be necessary.

*GHG emission figures are CO2 equivalent.

CO2 Composition Across the Entire Pig Farming Lifecycle (Estimates)

(Based on the Scope Defined by the Ministry of Agriculture, Forestry, and Fisheries)





Global GHG emissions from motorcycles

90 million tCO2/ year

4.8 more emissions than motorcycles

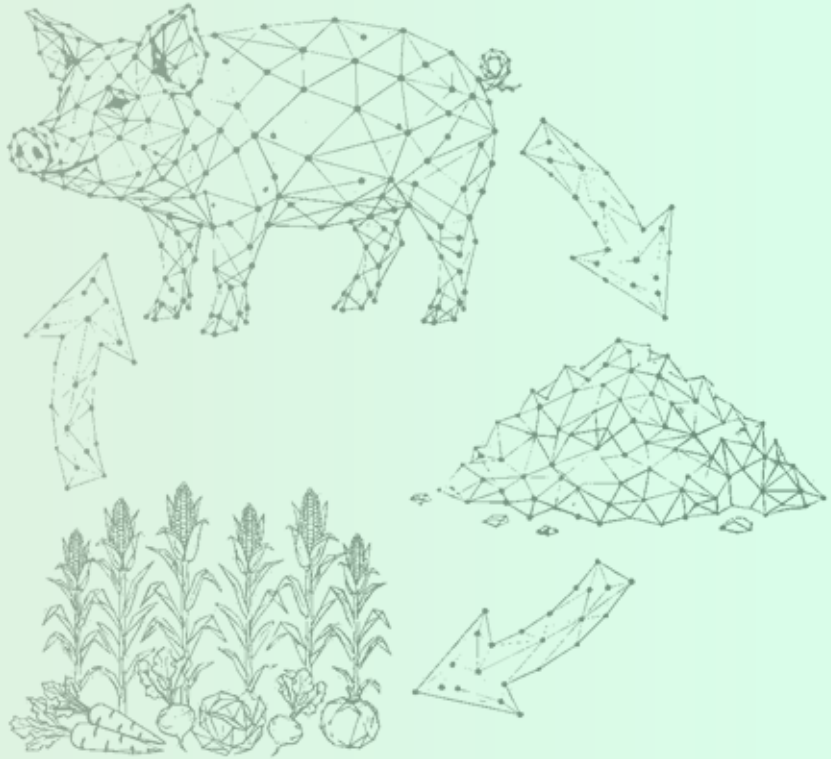
2.0 more emissions than motorcycles

Source: Hishinuma (2015) " Estimation of greenhouse gas emissions associated with pork production systems using LCA methodology" Composition ratio Based on the above, estimates were made from GHG emissions

Eco-Pork

3

Our Vision for the Future



Eco-Pork

Will “pork” and “pigs” be necessary in the future?

Alternative meat and cultured meat are fine. But we also want real meat from livestock.

What Eco-Pork wants to leave for the future is a rich food culture with choices.

It is important to redefine pig farming not just as a source of protein, but as a sustainable infrastructure that circulates local unused resources, and to connect that value to the next generation.

Our choices will determine the landscape of our children's and grandchildren's dinner tables.

Let‘s cherish the act of “*Itadakimasu*” (giving thanks for the food in Japanese).

The Future Eco-Pork Connects
= “Rich Choices” in Food Culture

Eco-Pork

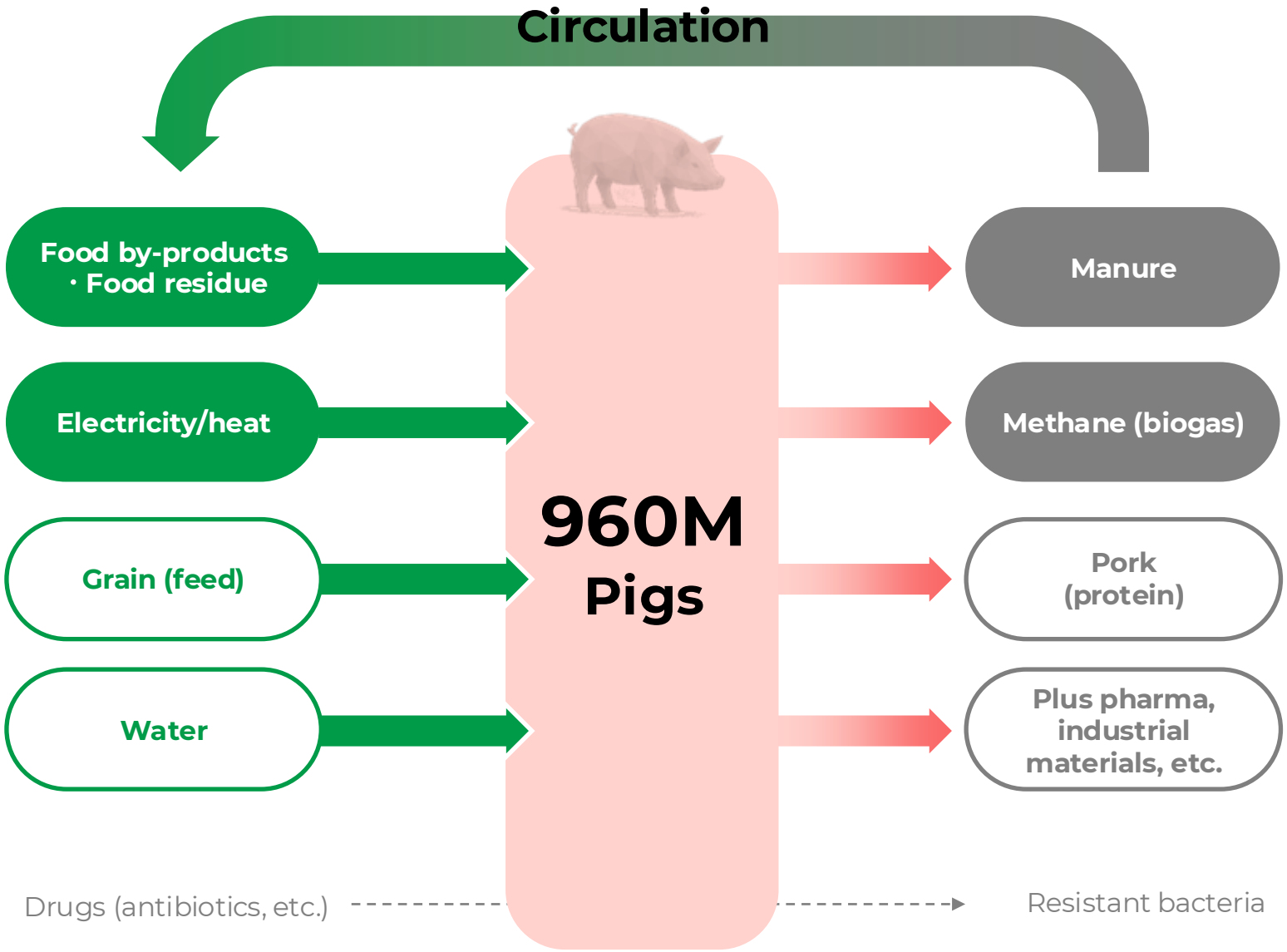
Pig Farming from a Resource Circulation Perspective

Pig farming consumes significant resources such as grain and electricity.

Conversely, it also generates substantial outputs. Beyond the pork consumed, its waste products hold potential for utilization as resources like energy.

Precisely because it is the world's largest primary industry, how to circulate these enormous inputs and outputs has become a critical societal challenge.

Redesigning pig farming as a resource circulation infrastructure will also lead to a sustainable meat culture.



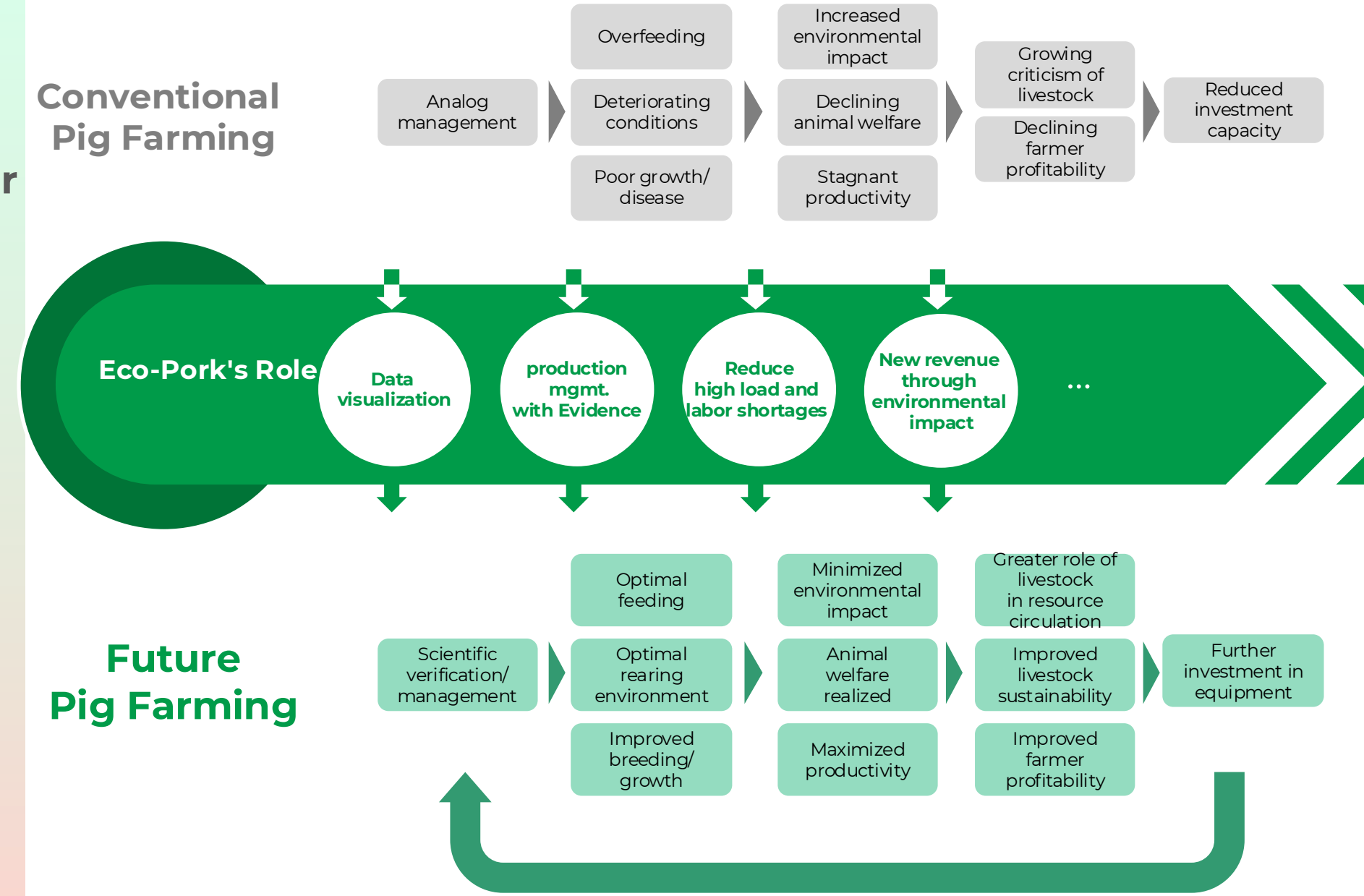
Eco-Pork

"Visualize" to make pig farming a circular industry

Pig farming has been very analog until now, with almost no data necessary for verification or optimization.

Eco-Pork believes that by combining PigDataStation, Porker, and automatic control, it will be possible to "visualize with data" pig growth, feed intake, manure volume, and its composition.

By quantitatively understanding which feed and environmental conditions are optimal for productivity and GHG reduction, and designing how to convert manure into compost and energy, we will realize the pig farming required in the 21st century.



*Carbon credits

Eco-Pork

COLUMN: Livestock Digitalization

Cattle are raised in small numbers, and each has a high value, so traceability and digitalization based on individual IDs have progressed. Chickens are managed in large groups in a "manufacturing-style" process, with digital focused on equipment and line optimization. Pigs are in the middle. Sows require individual management, while fattening pigs require group management, making a management method that handles both individual and group management a difficult problem.

Our company is tackling this gap by applying the "human resources x organization" management know-how (HR tech) that our founding members cultivated from past experience.

4

Eco-Pork's Initiatives

Impact Story

※Target for 2027

Maximizing available capital, expanding product and solution development, promoting research and development, and implementing social initiatives contribute to solving social issues such as protein crises and the environmental burden of livestock farming. Through innovative efforts, we aim to inherit a sustainable meat culture and challenge ourselves to create a better future.

VISION — Passing on the Genuine Meat Culture to the Next Generation

Impact

Eco-Pork has set the following goals:

- Avoiding the protein crisis
  - Increasing pork production by 50%
- Achieving environment friendly livestock farming
  - Reducing feed use by 30%
  - Reducing antimicrobial use by 80%
  - Reducing GHG emissions by 25%

Engaging relevant stakeholders to achieve these goals

Outcome

- Improving productivity for pig farmers (increasing revenue, reducing costs)
- Suppressing GHG emissions from pig farming
- Suppressing resource usage (feed, antimicrobial)

Output

- Improved growth performance of pigs
- Additional income opportunities for farmers (J-Credit Program)
- Optimization of feeding and medication

Activity

- Development and provision of livestock digitalization solutions, expansion to overseas markets
- Building a Data-Driven Circular Economy for Pork Production through Research and Social Implementation

Input

Intellectual Capital

Patents / Know-how： 20+ patents related to pig breeding management and core techs/algorithms for livestock Digitalization
R&D： Engineers and researchers integrate cutting-edge technologies such as AI cameras and IoT sensors into practical solutions and products

Human Capital

Highly specialized team： Experts from consulting firms, banking backgrounds, and deep tech ventures / Specialists in livestock industry and global business expansion
Culture aiming to balance business & impact： Considering impact perspectives in behavioral guidelines and evaluation

Social Capital

Collaboration with VC / CVC and government： Broad collaboration including impact investors and government projects
Partnerships： Capital and business alliances with companies addressing challenges in livestock Digitalization and sustainability

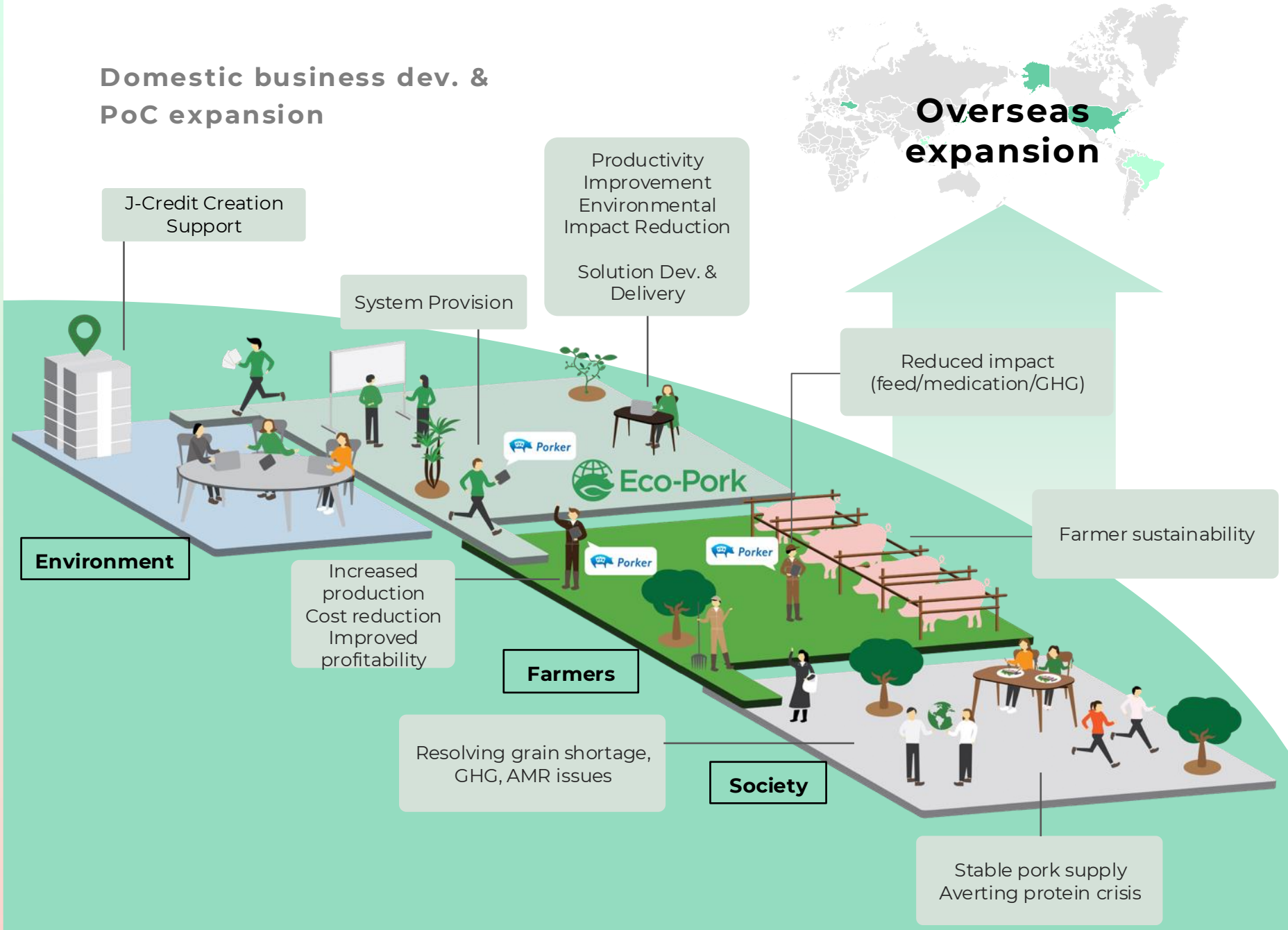
Financial Capital

Diversified funding sources： Investments from impact investors and funding through SBIR projects, accelerating funding and verification

Business Structure

Eco-Pork contributes to addressing key issues such as mitigating the global protein crisis and reducing environmental impact, by providing solutions that enhance productivity and lower environmental burdens for pig farmers. At the same time, by positioning pig farmers as J-Credit creators, we aim to enhance the social value and sustainability of the pig farming industry.

From 2025 onwards, we are promoting further business expansion by deploying these models cultivated in Japan to overseas markets, primarily the United States and Ukraine.



Eco-Pork

Intellectual Capital

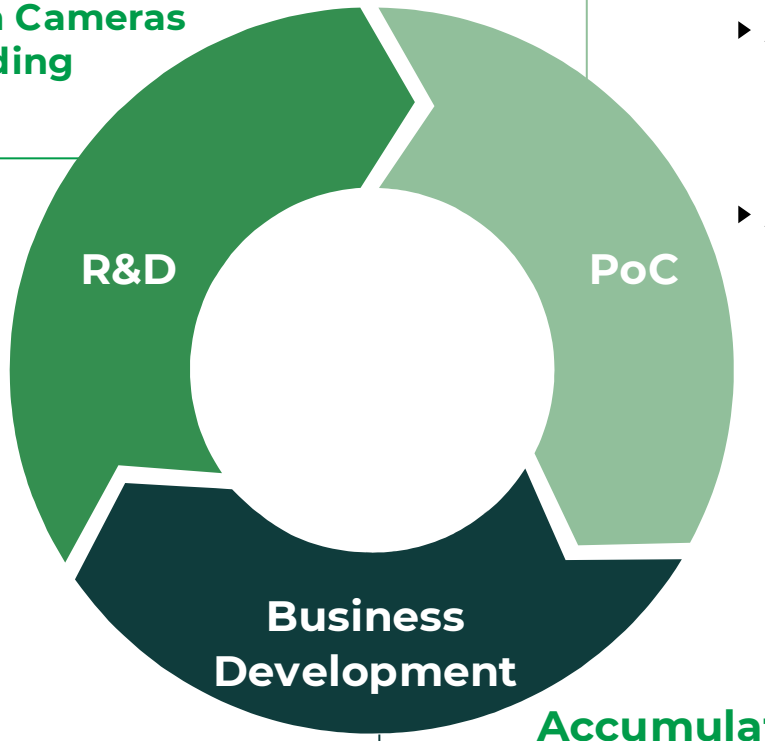
Engineers and researchers develop livestock solutions using cutting-edge technologies like AI Buta Cameras to automate breeding management, weight estimation, and disease management.

Through continuous implementation and refinement with Porker-adopting farmers, we have accumulated business know-how and obtained 20+ livestock digitalization patents. Efforts are accelerating to integrate R&D, PoC, and business development.

With global expansion in mind, starting with the U.S., we are strengthening development frameworks for overseas to meet the requirements of each country.

Development of AI Buta Cameras and AI-Integrated Breeding Management Systems

- Developing proprietary products, including AI pig cameras and AI-integrated breeding management systems, for business growth.
- Conducting joint research and proof-of-concept experiments with data scientists, machine learning engineers, and experts in pig farming operations.



Technical PoC through Porker-Adopting Farmers

- As of October 2025, approximately 14.7% of domestic pork is produced using Porker.
- A large customer base supports the development and PoC testing of Porker and related products.

Accumulation of Knowledge and Patent Acquisition

- Patenting useful tech to strengthen business resilience; promoting international patents for overseas expansion
- 3 domestic patents in 2025 (20+ total); 2 are carbon credit-related—strategic stepping stones

Human Capital

To achieve our Vision and Mission and contribute to a sustainable society, we have established Values as our guiding principles.

Those who embody Eco-Pork's Values are individuals who build connections through ambition and action, shaping the future together—they are Eco-Porkers. A diverse group of professionals come together, each taking initiative to tackle global protein crises and environmental challenges.

To foster this diversity and collaboration, we integrate an impact perspective into our code of conduct and HR evaluations, ensuring a system that keeps the social value we create at the forefront.

Accelerating Co-Creation with Talent

Opportunities for Challenge & Growth	Driving large-scale projects such as the SBIR program by the MAFF, and global expansion including the U.S. market. Advancing our mission of passing on the meat culture to the next generation on a global scale.
Eco-Pork's Unique Diversity & Expertise	Integrating livestock knowledge, AI/IoT technology, business strategy, and global expansion expertise. Accelerating the development of proprietary products like "Porker" and "PDS"
Corporate Culture Rooted in Business & Social Impact	A balanced approach that integrates business success with solving social challenges. Establishing an Eco-Porker evaluation system that assesses both business performance and social impact, guided by our core Values.

Our Assets since Founding

Eco-Pork

Pig Farming Automation

Until now, pig farming has relied on the intuition and experience of veterans.

By combining and providing farmers with the pig farming management support system "Porker," PigDataStation (PDS, AI Buta Camera), various IoT sensors, and pig house environment controllers, Eco-Pork supports the automation of pig farming.

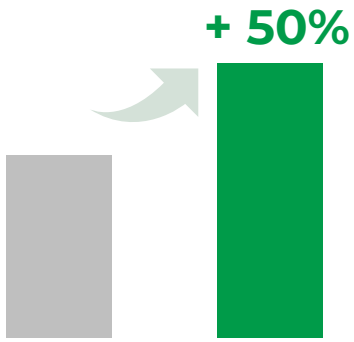
Data-based rearing management achieves not only increased pork production but also labor savings, feed reduction, GHG emission reduction, optimization of medication, and other environmental impact reductions.

Automation of Pig Farming
Using Data from ICT/IoT/AI and Pig Farming Equipment

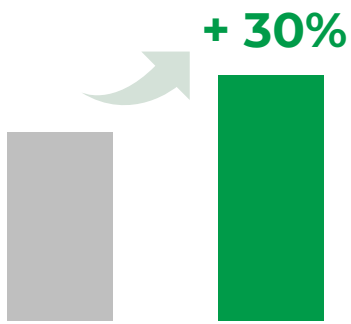
Monitoring and Control of:

- ✓ **Pig Status**
- ✓ **Feed**
- ✓ **Water**
- ✓ **Breeding Environment**

Expected Benefits of Pig Farming
Automation & environmental impact

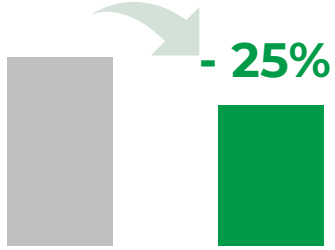


1. Pork Production Vol.



2. Feed efficiency

3. Medication Use



4. GHG emissions

Eco-Pork

Core Products

We currently offer two solutions, "PDS" and "Porker," to support productivity improvement in pig farming.

PDS achieves optimal shipping through non-contact head count and weight measurement using AI cameras. Porker enables high-precision production management through accumulation, visualization, and analysis of pig farming data.

The "Digitalized Pig Farm," undergoing trials for a 2028 launch, is the future of pig farming where AI and robots raise pigs.

	PDS	Porker	Digitalized Pig Farm
Product	PigDataStation		
Technology	**Biometric Data Acquisition**	**Data Analysis & Production Management**	**Breeding & Control Automation**
Issues	The key goal (KGI) of accurately measuring pig weight is not achieved, making it difficult to ship pigs at the appropriate weight.	Management relies on intuition and experience, leading to a lack of data accumulation and visualization regarding productivity and the environment.	Due to the decline in the number of pig farmers and an increase in the number of pigs per farm, workloads within the pig farm have increased.
Solution	AI cameras measure weight and body size, enabling optimal shipping timing and supporting farmers' productivity.	By visualizing data, identifying issues, and optimizing management, it enhances productivity and profitability for farmers.	By automatically collecting and controlling various farm data, including PDS/Porker (e.g., air conditioning), labor-saving and productivity improvements are achieved.
Achievements	Adopted by major food processing manufacturers and national agricultural organizations (as of 2025).	Domestic adoption rate: 14.7% (as of October 2025).	Undergoing verification under a MAFF project (2023-) To begin service in 2028

Eco-Pork

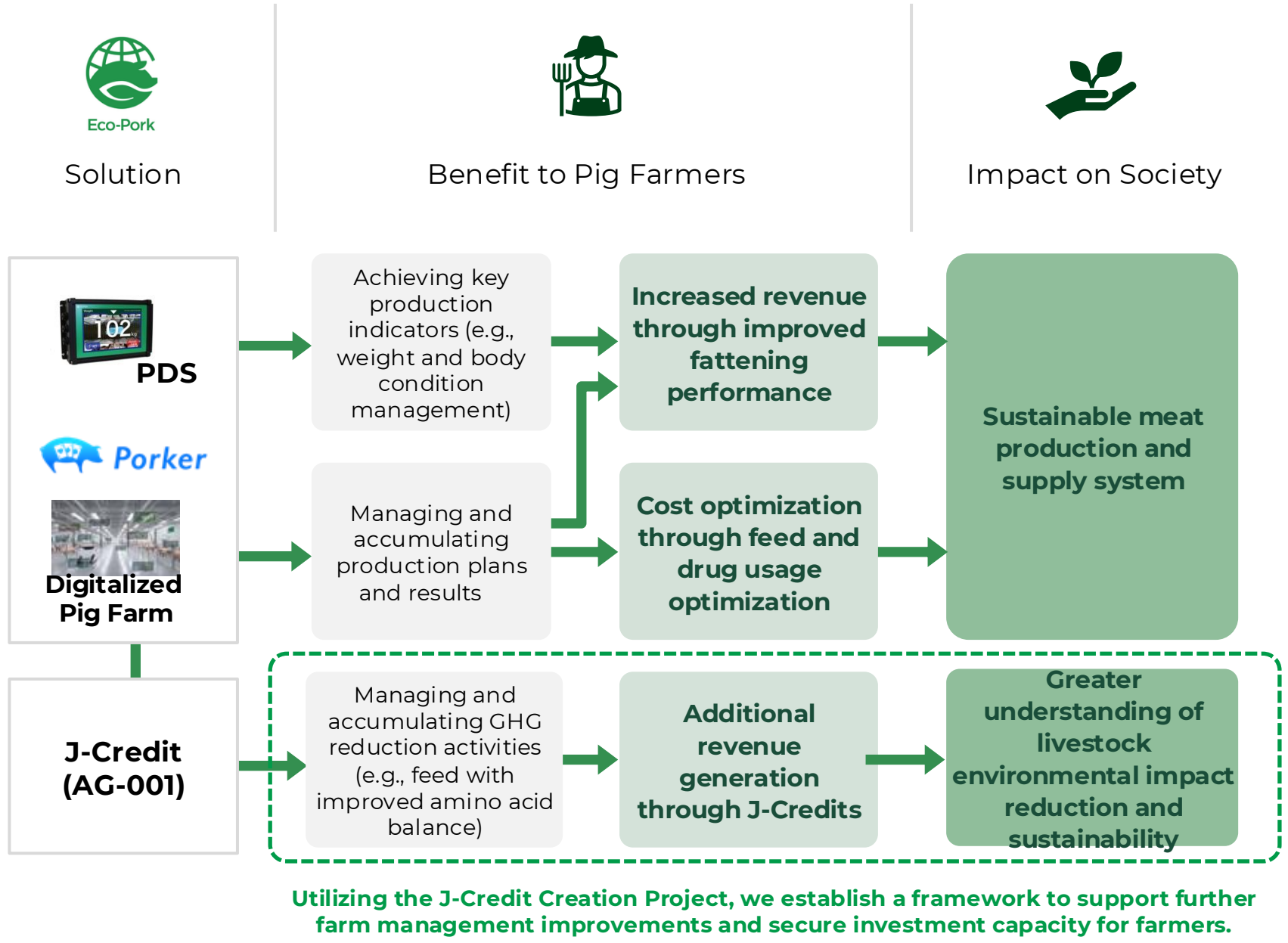
Economic Value & Social Impact Through Our Solutions

We want to visualize the environmental impact reduction efforts of pig farmers—

In 2024, Eco-Pork launched Japan's first and only J-Credit program-type project for pig farming.

Through Porker, we calculate GHG emission reductions based on data on feed content, change timing, and number of pigs raised. We handle applications and credit sales on behalf of farmers, providing them with secondary income and an eco-friendly label.

Reinvestment in continuous feed improvement and enhancement of management systems is progressing, sowing the seeds of a circular pig farming system.



Utilizing the J-Credit Creation Project, we establish a framework to support further farm management improvements and secure investment capacity for farmers.

Eco-Pork

Ref.
J-Credit Methodology AG-001

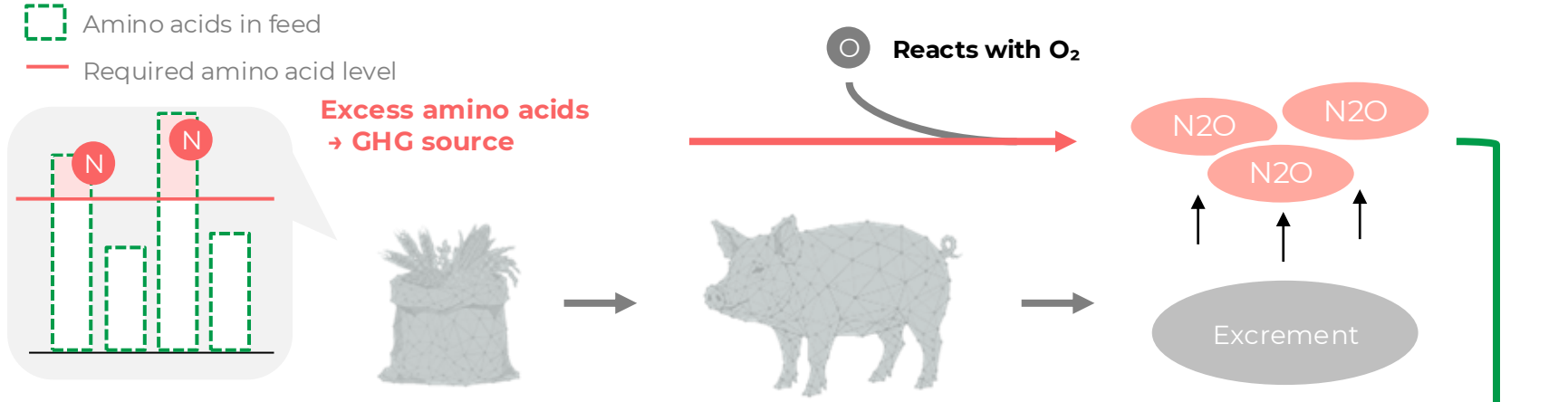
J-Credit is a system recognized by the government that certifies the reduction or absorption of CO2 and other emissions as credits.

There are about 80 methodologies defining logic and calculation formulas, of which 6 target agriculture. Among them, AG-001 is applicable to pig farming.

By replacing conventional feed with amino acid balanced feed that has a lower CP (crude protein) content, nitrogen remaining in excrement is reduced, leading to suppression of N2O emissions (about 265 times the greenhouse effect of CO_2).

Moreover, research shows it also contributes to improved growth and reduces the impact of urine on the soil.

Conventional feed



Amino acid balanced feed

10–30% GHG reduction

Difference vs. conventional feed = J-Credit reduction

*Reducing corn/soybean meal; supplementing specific amino acids.
As a result, the amino acids required by the pig are well-balanced, allowing efficient digestion and absorption. Excess amino acids (≈nitrogen) are less likely to remain in the excrement.

Eco-Pork

COLUMN: Animal Welfare Compliance

FAIRR, a global livestock initiative, emphasizes the need to address animal welfare, citing risks such as the spread of infectious diseases and a decline in growth and reproductive abilities due to improper livestock management.

Our products comply with basic policies on animal welfare. Through the provision of Porker, we support animal welfare by recording and tracking the specific efforts of adopting farms.

FAIRR's Evaluation Criteria for Animal Welfare and Eco-Pork's Product Alignment

- FAIRR considers animal welfare to be a significant risk factor and evaluates policies and performance related to it.
- Eco-Pork provides product solutions that align with each of the evaluation criteria.

FAIRR Evaluation Criteria		Specific details	Corresponding Eco-Pork products and initiatives
Policy (Recognition and Reflection of the Five Freedoms)	Hunger, Malnutrition, and Thirst	• Provide animals with continuous access to fresh water and a diet that maintains health and vigor.	• **Pig Data Station (PDS)** Utilizes weight verification and appropriate feeding
	Heat Stress or Physical Discomfort	• Ensure proper shelter and a comfortable resting area. • Maintain appropriate ventilation, temperature, and humidity.	• Temperature and Humidity Sensors (Porker IoT): **Controls the pigsty environment.**
	Pain, Injury, and Disease	• Disease prevention/health management • Appropriate diagnosis and treatment	• **Porker IoT:** Monitors health conditions and reduces the accident rate.
	Express Normal and Natural Behavior	• Provide sufficient space, proper facilities, and the company of the animal's own kind to allow for natural behavior.	• **Development of individual identification and disease detection technologies to enable free-stall breeding.**
	Fear and Distress	• Identifying signs of stress, etc. • Appropriate response	• **Porker IoT** : Monitors health conditions and reduces the accident rate
Performance		• Specific actions and activities related to welfare improvement.	• **Data accumulated on Porker** makes it possible to quantify
Certification		• Animal welfare certification based on performance.	• Providing "**Eco-Pork Certification**" considering animal welfare.

Eco-Pork's unique certification is given

Eco-Pork

5

Progress

Eco-Pork

Progress Summary

As of October 2025, Porker's market share is 14.7%. The estimated sales improvement effect for pig farmers is approximately 7.93B JPY.

Regarding feed efficiency and optimization of medication dosage, we are continuing PoC under the MAFF' "SME Innovation Creation Promotion Project (SBIR Phase 3 Fund Project)" to verify their effects.

The initiative to reduce GHG emissions using J-Credits, which started in 2024, is also progressing steadily, realizing productivity improvements and environmental load reduction in the domestic pig farming industry.

Social Issues	Impact Goals	Current Progress	Future Initiatives
Avoiding the protein crisis	1 Increasing pork production by 50%	✓ 21–25% production increase demonstrated* ✓ ~7.93B JPY(53M USD) sales boost for Porker-adopting farms	✓ Expand farmer adoption to meet 50% production increase target by 2027 ✓ Expand Porker/PDS international markets
	2 Reducing feed use by 30%	✓ 5–11% efficiency improvement demonstrated*	✓ Further trials in SBIR project (2023-2028)
Achieving environment friendly livestock farming	3 Reducing antimicro-bial use by 80%	✓ Digitalized Pig Farm dev./testing in SBIR project (2023–2028)	✓ Further trials in SBIR project (2023-2028)
	4 Reducing GHG emissions by 25%	✓ Avg. ~13% reduction for J-Credit participating farms ✓ Further reductions via PDS feed optimization	✓ Expand participating farmers and explore global expansion toward the 25% reduction target by 2027

*USD=150JPY

Eco-Pork

1

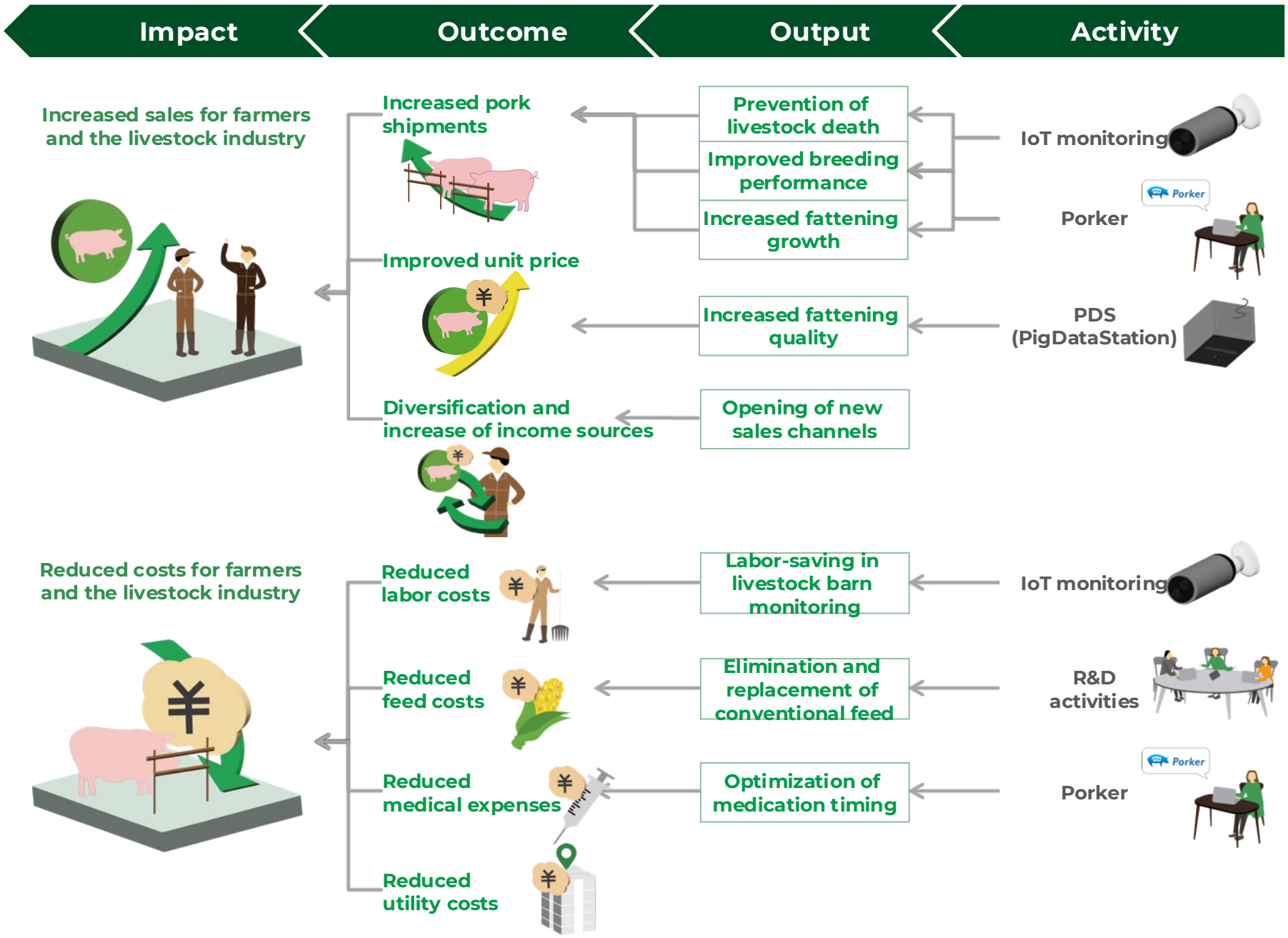
Pig Farmer Productivity: Logic Model

We have built a logic model that breaks down productivity into "sales" and "costs" and have organized the related activities.

By introducing Porker, a production support solution for pig farmers, the breeding performance of pigs improves, promoting an increase in shipment volume and ultimately contributing to the expansion of farmers' sales.

In addition, it is expected that by accurately measuring the weight of pigs with PDS and realizing appropriate feeding, the rate of high-grade animals will improve, leading to an increase in unit price.

IoT monitoring of livestock/barns promotes optimal mgmt. and labor savings.



Eco-Pork

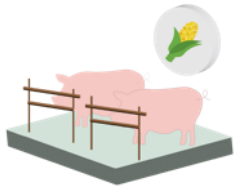
1

Quantitative Productivity Impact on Pig Farmers

We estimated the sales increase effect for pig farmers from introducing Porker.

As a result of estimating the sales increase effect in the first year for Porker-adopting farmers, it was revealed that there is an impact of approximately 7.93B JPY (53M USD) based on the domestic market share as of October 2025.

In addition, a continuous improvement effect has been confirmed even after the first year of introduction, and it is expected that the impact will further expand as the number of adopting farmers increases and the continued use of Porker progresses.

Impact	Outcome	Output	Activity
Increased sales for farmers and the livestock industry	**Increased pork shipments**	**Improved breeding performance**	**Introduction of Porker**
			
Increased sales for farmers **7.93B JPY (53M USD)** = Meat production volume increase 13,219t/year	**Shipment volume increase** **176,961**	**Total piglets increase** **236,896**	**Number of sows** **111,470**
• The estimated carcass weight per pig is 74.7 kg. • **A total of 13,219 tons of carcass meat, equivalent to 8,813 tons of trimmed meat, reached more consumers.** • This calculation is based on the shipment weight, carcass yield, and transaction price per carcass. The price per kilogram of carcass meat is approximately 600JPY (MAFF, 2024). • **Farmers' sales increased by 7.93B JPY.**	• **75% of the total number of piglets produced have been shipped.** • Based on an average litter size of 13.2 and 10.6 weaned piglets, with a 7.0% post-weaning mortality rate, the shipment number is 9.86 pigs per litter, or 74.4% of births (Japan Pig Farmers Association, 2024).	• For farms that have introduced Porker, the total number of piglets produced **improved by approximately 7% in the first year.** • On average, the number of piglets produced has continued to improve by around 2% annually in subsequent years. • The average sow turnover rate is 2.3, and the average number of piglets per litter is 13.2 (JPPA, 2024). • An improvement of 0.924 piglets, representing 7% of 13.2 piglets, was calculated as the first-year effect of introducing Porker.	• As of October 2024, **the number of sows on farms that have adopted Porker is 111,470**. • The total number of sows in the country is 758,300 (MAFF, 2024), representing **approximately 14.7% of the domestic share.**

Source: Ministry of Agriculture, Forestry and Fisheries, Japan Pork Producers Association, Our Porker data, USD=150JPY

Eco-Pork

2 3 4

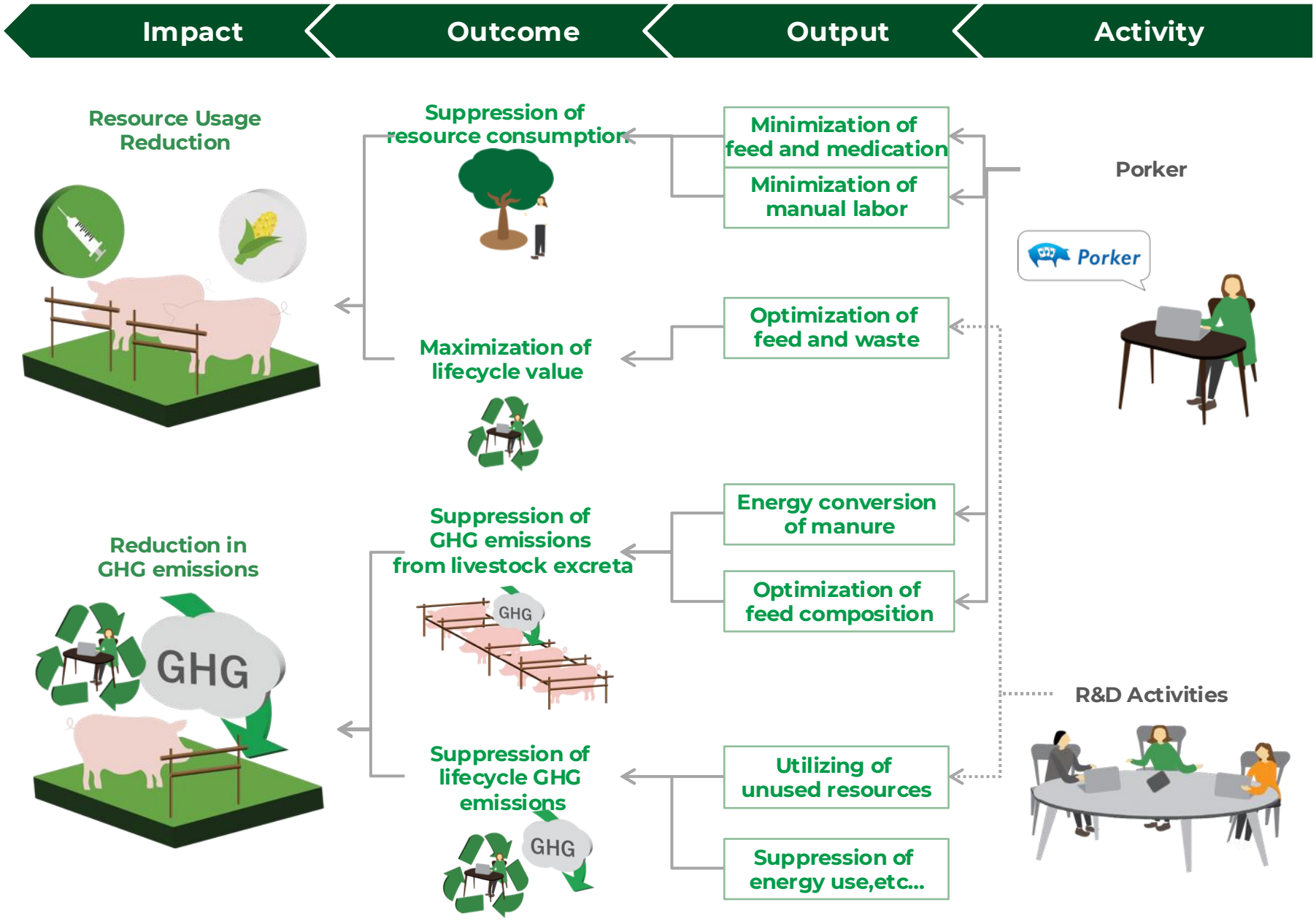
Environmental Impact Reduction: Logic Model (Resources & GHG)

To suppress resource usage, comprehensive efforts such as not using resources in the first place, resource saving, and maximizing resource value are necessary.

Similarly, for GHG emission reduction, measures across the entire pig farming life cycle, not just from living organisms, are essential.

Eco-Pork will promote various measures with the aim of reducing feed usage by 30% and medication by 80% by 2027.

Furthermore, in GHG emission reduction, we will promote various initiatives with the goal of a 25% reduction by 2027.



Eco-Pork

2

Feed Efficiency — 2027 Target

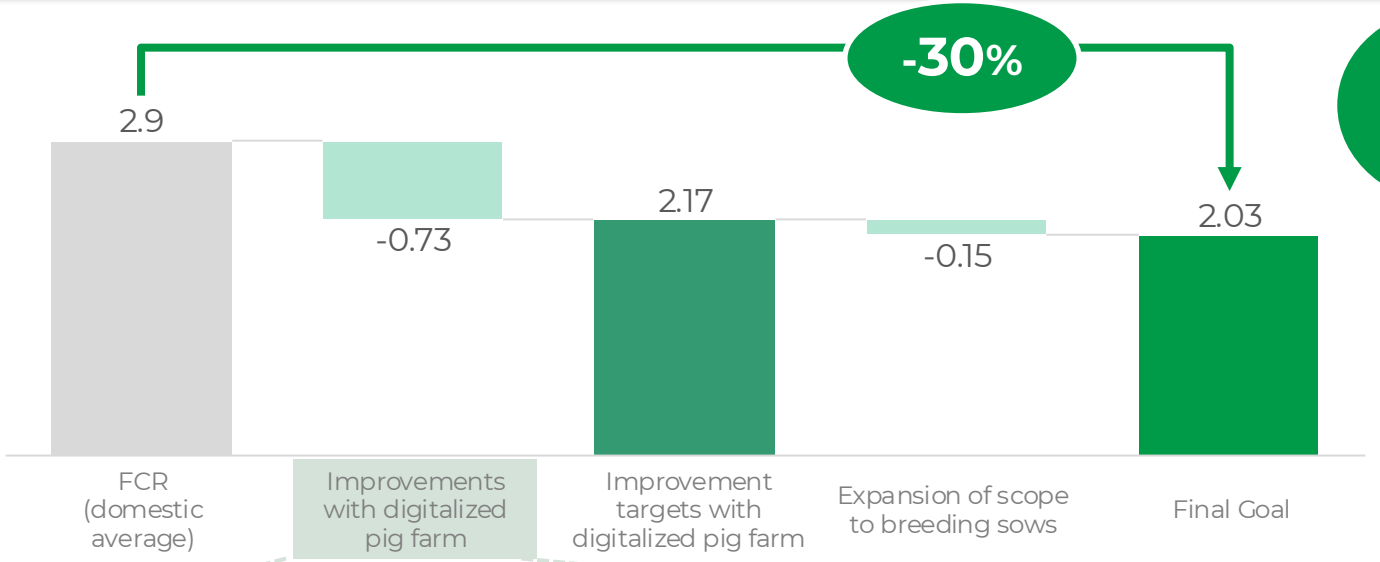
In Japan's pig farming business, feed costs account for about 60% of total costs, and improving feed efficiency leads to significant cost reductions.

We believe that by upgrading the management system through the introduction of digitalized pig firm, we can improve the feed efficiency of finishing pigs by 25%. By extending the scope of feed efficiency improvement to sows, we will improve it by another 5%, ultimately aiming for a 30% reduction in feed usage.

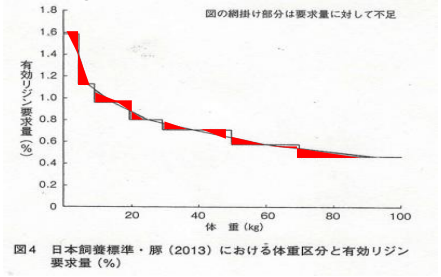
Optimizing the nutritional surplus and deficit that occurs with conventional feed (red part in the figure)

Initiatives:
Sophisticated and automated management system with digitalized pig farm including PDS/Porker

Porker



Optimizing nutrient excess and deficiencies under traditional feeding improves FCR by 0.3.



Achieving a similar management system to top farms improves FCR by 0.33.

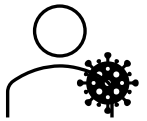
The average farm period is shortened by 21.4 days, from 187.0 days to 165.6 days, by implementing detailed management akin to top farms.

Average farm 187.0 days

Top farm 165.6 days

Shortened by 21.4 days

Reducing accidents through the minimization of human intervention in daily management improves FCR by 0.1.



Preventing disease entry by reducing human contact lowers accident rates from 6.46% to 3.02%.

*FCR (Feed Conversion Ratio): The amount of feed required to gain 1 kg of body weight. The domestic average is 2.9 kg.

Eco-Pork

3

Antimicrobial Reduction — 2027 Target

The annual usage of antimicrobials in the domestic livestock industry is 1,021 tons, which is 1.8 times that of human pharmaceuticals.

Reducing diseases and medication dosages in pig farming not only improves resource efficiency but also leads to cost reductions and a lighter workload.

The introduction of digitalized pig firm promotes the automation of pig housework and unmanned daily management, leading to a lower accident rate and ultimately contributing to a reduction in the use of antimicrobials.

Initiatives:
Automation of barn operations with digitalized pig firm
Unmanned daily management

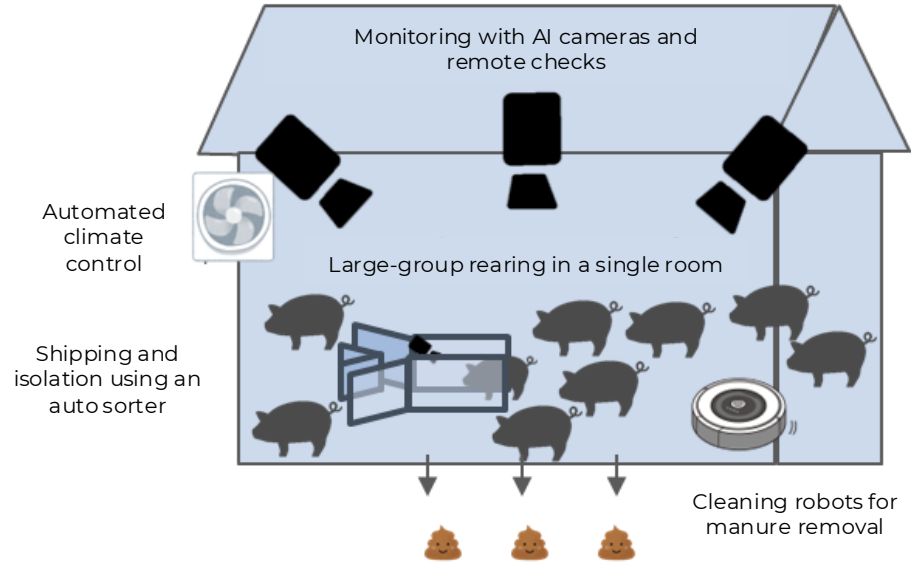
Porker

80% reduction in antimicrobial use

Reduced by 80%

With our digitalized pig firm, operations can be automated. By eliminating human involvement in daily management, we prevent the introduction of pathogens by people and reduce the post-weaning accident rate (accident rate from 6.46% to 3.02%).
→ This leads to a reduction in the use of antimicrobials.

Management Image of digitalized pig firm



Eco-Pork

4

GHG Reduction — 2027 Target

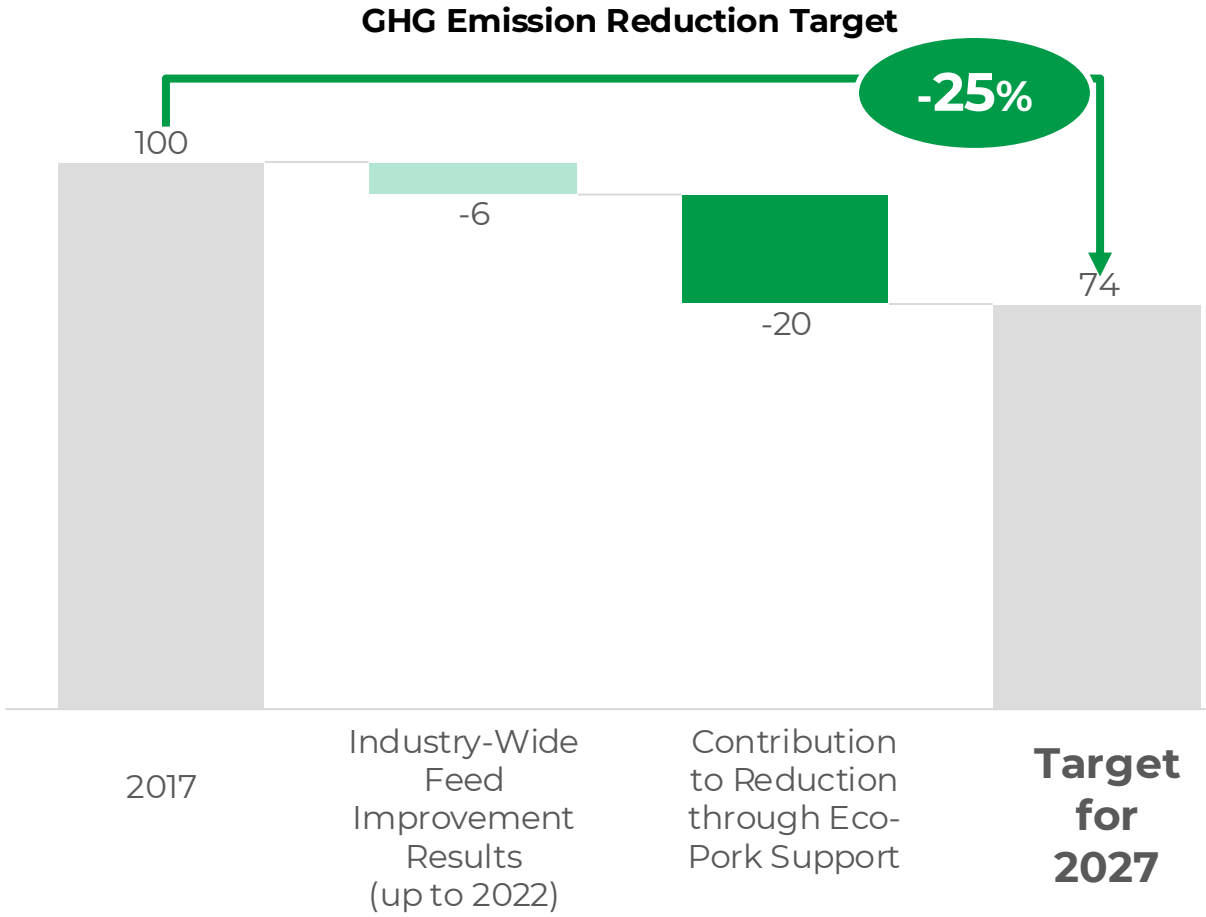
As mentioned in Chapter 3, the treatment of pig manure is one of the major sources of GHG emissions. However, it has been demonstrated that GHG emissions from manure can be reduced by using low CP (crude protein) feed, and this methodology is registered as J-Credit "AG-001".

Eco-Pork will contribute to reducing GHG emissions by 25% by 2027 compared to 2017 levels.

Although the reduction of CP content in conventional feed is gradually progressing throughout the industry, Eco-Pork aims for further reductions by strengthening its support for farmers in utilizing J-Credits and introducing low-CP feed.

Contributing to a 25% Reduction in GHG Emissions

Reduced by 25%



J-クレジット
当該事業は、J－クレジット制度に登録されたプロジェクトとして、地球温暖化対策に貢献しています。

Eco-Pork Supports

- Promoting the introduction of low crude protein (CP) feed to pig farmers
- Various support for registering as J-Credit
  - ✓ Collecting evidence using Porker
  - ✓ Application agency services
  - ✓ Sale of credits

Source: Company analysis and estimates based on Eco-Pork customer case studies.

IMM Process Disclosure

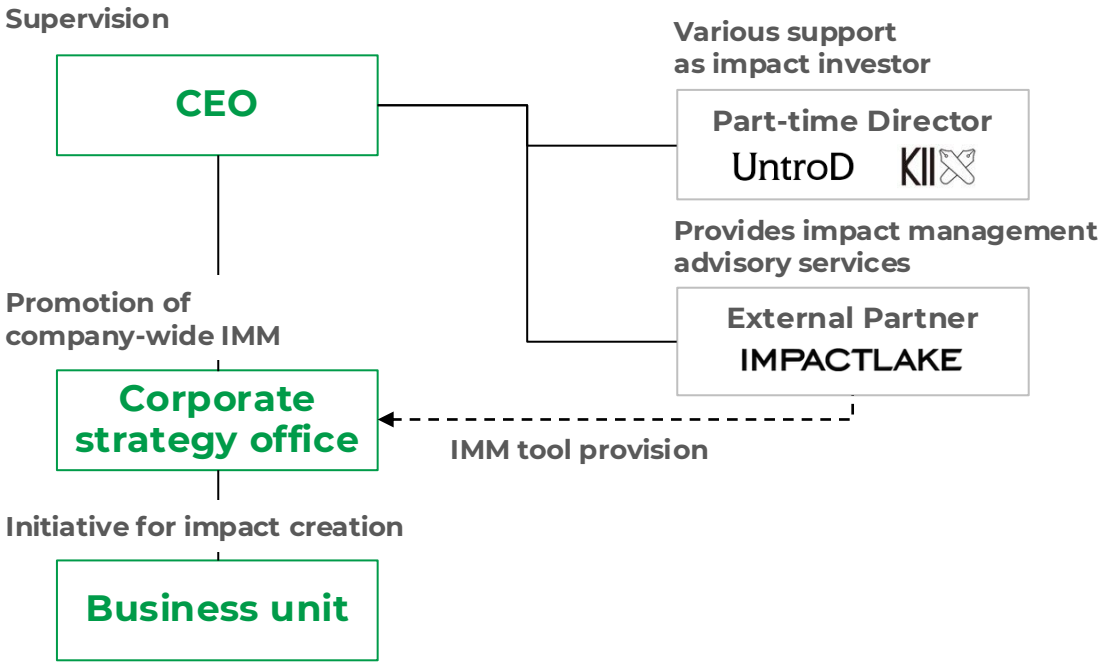
To realize our vision of a data-driven circular pork economy and pass down meat culture to the next generation, we prioritize incorporating impact into business and management decisions.

As part of this effort, we defined the objectives and processes of Social Impact Measurement & Management (IMM) and published an Impact Report in February 2024, followed by a GHG data update in September. This time, we updated information on Porker's market expansion and our U.S. office launch. We will continue sharing key updates to drive our impact goals forward.

Purpose of Eco-Pork's IMM

Define key impact indicators based on the concept of "passing down meat culture to the next generation."
Evaluate the status of business promotion from both financial and impact perspectives and utilize this information for management decisions.

IMM Implementation Structure



Eco-Pork

6

Global Expansion

Eco-Pork

U.S. Pork Production Value 28B USD

Eco-Pork's Vision is to pass on the meat culture to the next generation.

We will expand the pig farming digitalization solutions cultivated in Japan overseas to make the pig farming industries of each country sustainable.

In 2025, we started operations in the United States and Ukraine.

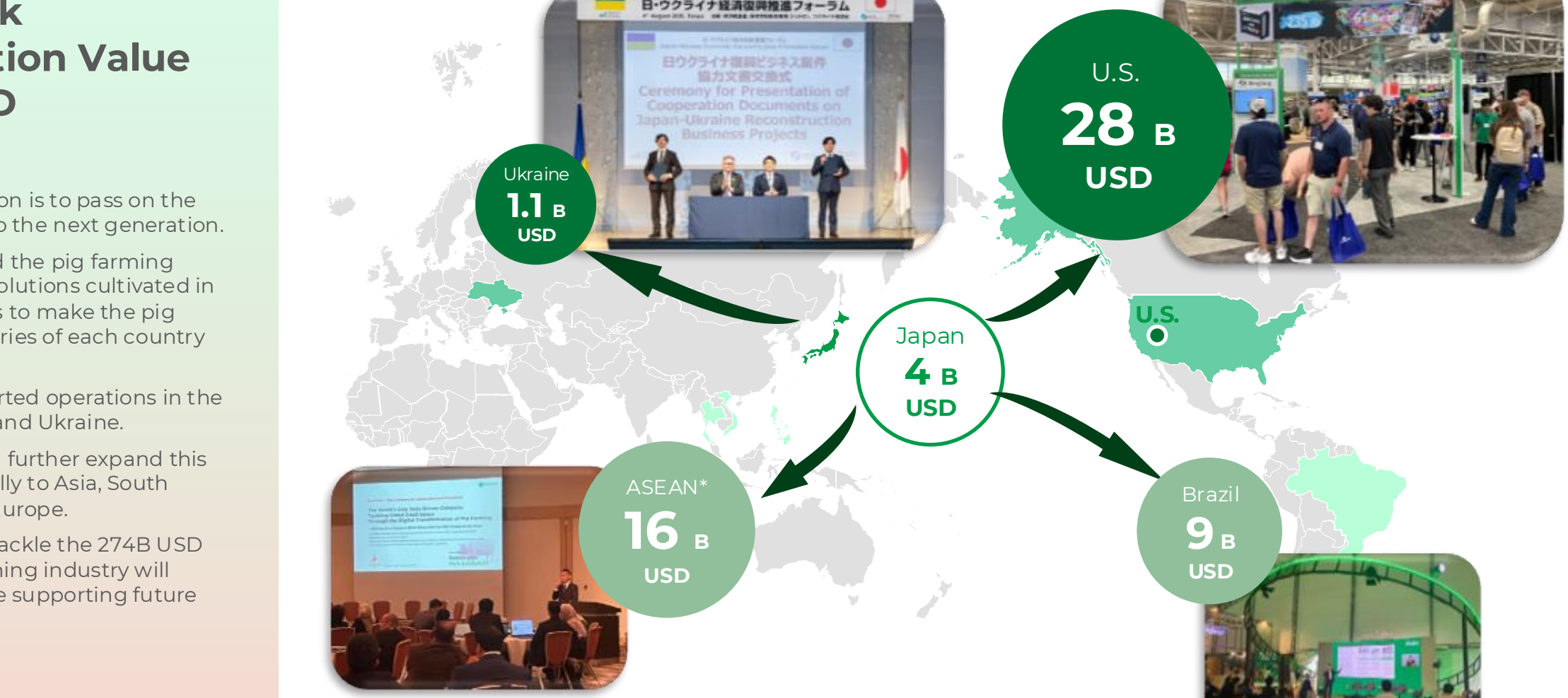
In 2026, we will further expand this initiative globally to Asia, South America, and Europe.

Our efforts to tackle the 274B USD global pig farming industry will become a force supporting future protein supply.

Global Pork Production Value 274 B USD

Japan-Ukraine Signing Ceremony

Exhibiting at World Pork Expo 2025



Speaking at Japan-ASEAN Symposium (Nov 2025)

Speaking at COP30 in Brazil (Nov 2025)

*ASEAN: Vietnam (7.5B USD), Thailand (3.3B USD), Philippines (5.2B USD) , USD=150JPY

Eco-Pork

Global Solution Expansion

The United States is the world's second-largest pig farming country, and we continue to update our products through demonstrations with local partner pig farming companies.

Ukraine is in the process of digitalization, and our demonstrations are also in the standardization phase.

While accumulating know-how, we are promoting further globalization of the refined Eco-Pork solutions.

~2024
U.S. expansion based on Japan tech

Verified grading rate improvement via AI Buta Camera in MAFF Smart Agriculture Demo.

Established North American base in 2024; started overseas expansion.

Launched U.S. field trials for pig image recognition tech under NEDO DTSU.

2025
Ukraine expansion, following U.S.

Selected for UNIDO Ukraine Green Recovery and METI Global South (Ukraine). MOU with Ukrainian Pig Breeders Assoc.; full Ukraine launch.

Positive partner feedback in U.S.; continuing local PoC and marketing.

Future
Further global expansion

Beyond U.S./Ukraine PoC, expanding into ASEAN, South America, and Europe.

Speaking at Japan-ASEAN Symposium and COP30 (MAFF collaboration); Spain entry via JETRO J-StarX; advancing global presence/networking.

Eco-Pork

COLUMN:
Pig Farming Trends

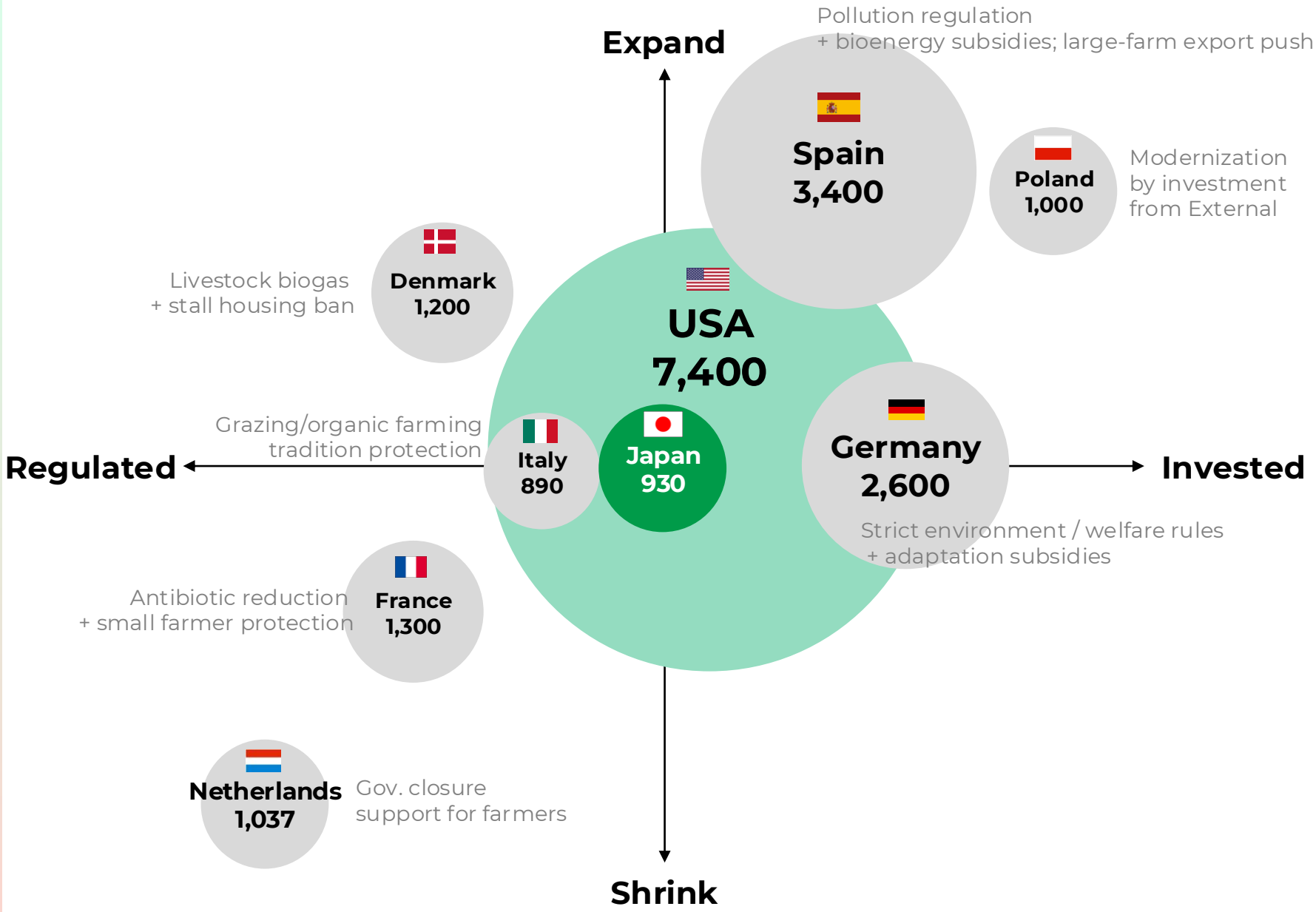
In Europe, some countries like the Netherlands are moving toward shrinking their industry through government policies that effectively promote business closures to reduce nitrogen emissions.

On the other hand, many countries and regions are seeking ways to maintain pork supply and socio-economy while also complying with strengthened environmental regulations and animal welfare standards.

It will be important how the future of the pig farming industry is defined as a piece of the circular economy.

Country Trends (end of 2025)

(Unit: 10,000 of Pigs)



7

Appendix

Eco-Pork

Company Profile

Founded 2017.

Offices in Tokyo and Kagoshima; 35 employees (Jan 2026).

Founder Takashi Kambayashi worked on food/environmental issues via NPOs since his student days.

After consulting work on AI solutions, he founded Eco-Pork to "create something meaningful for future generations."

Company:	**Eco-Pork co., ltd.**
Established:	**November 29, 2017 (The day for "good, good meat" in Heisei)**
Locations:	**Tokyo: 2F, 3-21-7 Kanda Nishikicho, Chiyoda-ku** **Kagoshima: 1343 Minamimata, Takarabe-cho, Soo-city** **SHIFT0 Farm: Tahara, Aichi** **Eco-Pork America, Inc.: Japan Innovation Campus, CA**
Representative:	**CEO Takashi Kambayashi**
Capital:	**380M JPY (2.5M USD)**
Business:	**Digitalization solutions for pig farmers, carbon credits, pig farming research**
Banks:	**MUFG, SMBC, Mizuho, Shizuoka Bank, Shiba Shinkin, Resona, Tokyo Star, JFC**
Patents held:	**20+ patents for Automatic Livestock Mgmt. System (intl. patents pending)**
Products:	Porker **"Porker" pig farming mgmt. system (14.7% share in JP)**

*USD=150JPY

Eco-Pork

Certifications & Awards / Major Investors

<Certified Projects>

Verifying digitalization solution effectiveness via MAFF/METI projects while developing new technologies.

<Major Investors>

Investments from impact investors and diverse institutions; CVCs for business collaboration.

Key Certifications & Awards

2025: METI Global South (Ukraine Support)
2025: UNIDO Ukraine Green Recovery
2024: NEDO DTSU (Deep-Tech Startups Support)
2023: MAFF SME Innovation (SBIR Phase 3 Fund)
2023: METI J-Startup Impact
2022: METI Growth SME R&D Support
2022: MAFF Startup Support Program
2021: METI Global Startup Ecosystem
2020–2024: MAFF Smart Agriculture Demo

ICC KYOTO 2022 Catapult Grand Prix Finalist
Real Tech Venture of the Year 2020
ICC KYOTO 2019 Startup Catapult Finalist
TechCrunch Tokyo 2018 Runner-up, etc.

J-Startup Impact

Major Investors*

UntroD
QB Capital
KII
みらい創造機構 MIRAI SOUZOU
食の未来ファンド kemuri ventures
森久保薬品株式会社
Bell System24
future food fund
OKB グループ 株式会社OKBキャピタル
ENEOS
綿半
OKASAN CAPITAL PARTNERS
KAKUICHI
SNET 株式会社SNETインベストメント
Leave a Nest CAPITAL

*In no particular order

Board Members

3 internal directors, 3 part-time directors, and 1 standing auditor.

Internal directors bring consulting/banking expertise in management, business, and finance.

Part-time directors from 3 lead VC firms supporting deep-tech startups and social impact.

Founder & CEO

Takashi Kambayashi

Graduated with honors from the Master of Business Administration program at the University of Michigan . Began his career as a consultant at a global consulting firm, specializing in finance and business model development. After that he led the development of new solutions using statistical analysis and AI. Founded Eco-Pork on November 29, 2017 (Good Meat Day), with a vision to utilize technology to tackle environmental and sustainability challenges related to the livestock and meat industries.

Director

Shinsuke Arafuka

Graduated from Keio University with a Master's in Biochemistry. After graduate school, he joined a foreign consulting firm, supporting major manufacturing equipment companies in business improvement and management strategy through data analysis using statistics and machine learning. Co-founded Eco-Pork in response to the protein crisis threatening global food security. To keep pork as a viable food option, he developed "Porker," a technology-driven solution for sustainable pig farming. He became a director of Eco-Pork in April 2021.

Director

Kento Suzuki

Graduated from the Department of Mathematics, Faculty of Science, Tokyo Institute of Technology. He grew up in a family pig farming business in a region of Aichi Prefecture known for pig farming, up until high school. After university, he joined a megabank group, working in large corporate sales and M&A advisory at the group's securities firm. Driven by a desire to address the challenges in pig farming that he had observed since childhood, he joined Eco-Pork and was appointed as a director.

Part-time Director

Sou Yanbe

Graduated from the Faculty of Economics at Tohoku University. After working in corporate planning at a semiconductor R&D venture, he joined Realtech Holdings in 2015. He focuses on solving global issues and revitalizing the local economy by investing in and supporting promising realtech ventures. He has served as an auditor for Eco-Pork since April 2021 and as a part-time director.

Part-time Director

Hiroaki Ido

Graduated from the Faculty of Commerce at Chuo University. After working in corporate lending and sales at Nishi-Nippon City Bank, he joined QB Capital in 2021, focusing on investments in real tech ventures, including university-affiliated ones. In April 2024, he joined NCB Venture Capital as a Co-GP of QB Fund No. 2. Following QB Capital's lead investment in Eco-Pork in June 2023, he was appointed as a part-time director.

Part-time Director

Naoto Tomono

Graduated from Keio University's Faculty of Economics. Worked in corporate RM and FX/bond sales & trading at MUFG Bank, then gained VC experience at SBI Investment. Later engaged in direct startup investments at SMTB, focusing on SaaS and deep-tech. Joined KII in 2023 and became a Part-time Director of Eco-Pork in January 2025.

Timeline

2017

Nov Founded on Good Meat Day
Trained at pig farms

2018

Apr MAFF Advanced Tech Implementation Promotion certified

Oct Launched Porker

Nov TechCrunch Tokyo 2018 Runner-up

2019

Apr MAFF Agribusiness Development Support Project certified

Aug First fundraising round

Sep Leave a Nest Tech Grand Prix

2020

Mar Real Tech Venture of the Year 2020 Startup Award

Apr MAFF Smart Agriculture Demo PJT selected

Jun Pre-Series A fundraising

Aug Launched Porker Sense

Sep MAFF University-origin Venture Entrepreneurship Promotion Demo Project selected

2021

Jan Google for Startups Accelerator Class 3 selected

Jul METI Global Start-up Ecosystem Enhancement selected

Jul Launched PDS (formerly ABC)

2022

Mar Thailand Smart Agriculture Demo selected

Apr Series A fundraising

Sep ICC KYOTO 4th place

2023

Mar Nisshin Marubeni Feed OEM

Jun Series B fundraising 1st close

Oct METI J-Startup Impact certified

2024

Feb First Impact Report published

Sep J-Credit Generation Project launched

Nov Eco-Pork America established

Dec NEDO Deep Tech Support Fund/ Support Project (DTSU) selected

2025

Jan NEDO Deep Tech Support selected (Tech improvement & biz validation for intl. pig image recognition expansion)

Jun First Japanese exhibitor at World Pork Expo 2025 (US), PDS showcased

Aug UNIDO 'Ukraine Green Industry Recovery' selected MOU with Ukraine Pig Assoc.

Oct PDS at Osaka-Kansai Expo 'Future Route' (selected from 84 companies)

Nov METI Global South (Ukraine Support) selected
COP30 Japan Pavilion / AgriZone: Digitalized Pig farm × carbon credits
Cumulative fundraising surpassed 5.3B JPY, for development of digitalized pig firm/PDS & global expansion

Dec Japan-ASEAN Symposium presentation digitalized porn firm featured in Nikkei

Data company for sustainable
Pork Ecosystem

Eco-Pork