

REPORT

202



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(JBS)

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## INTRODUCTION

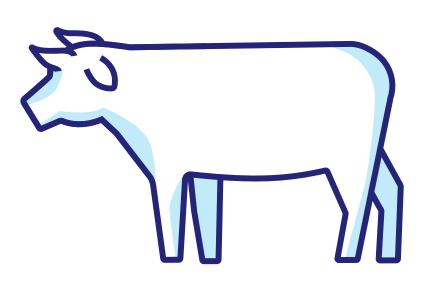
## Introduction

The Animal Welfare Report of JBS Brazil outlines the initiatives undertaken by its subsidiaries, Friboi and Seara, demonstrating the company's dedication to animal welfare, a key aspect of its sustainability efforts. This report covers the activities conducted from January 1 to December 31, 2023.

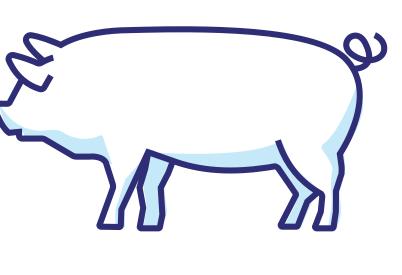
In this report, we present relevant information for JBS Brazil's stakeholders, which include investors, customers, team members, suppliers, and business partners. We discuss the practices adopted to improve the welfare and health of animals, encompassing aspects of management, production, transport, and slaughter. The data in this report reflects our operations in the production chain of cattle, poultry (broiler chickens and turkeys) and pigs, which are represented by the Friboi and Seara sites. These operation sites account for 28% of the cattle, 27% of poultry, and 14% of pigs of JBS total global production, based on the tons of proteins produced in Brazil compared to the company's global production.



The operational units of JBS Brazil represent (in relation to the tonnage of JBS global production):



28% beef



10% pigs



27% poultry



JBS

One of the largest global protein-based food producing companies, JBS is driven by the desire to feed the world with the best there is. The company is headquartered in São Paulo and operates internationally. JBS's activities range from breeding to the distribution of a wide range of animal protein products, such as beef, pork, lamb, poultry, fish, and processed food. Additionally, JBS invests in the production of plant-based food alternatives, and in innovations such as cultivated protein. With a presence in over 25 countries across five continents, the company operates more than

We have a global and diversified food platform, along with a wide portfolio of high-value products and strong brands. Our goal is to be the benchmark in profitable and sustainable production for a growing global population, while also working as agents of change in our local communities. We are dedicated to ensuring that our operations are innovative and promote sustainable practices throughout our value chain.

6,000 production sites and commercial offices. It spans

from Argentina to Vietnam, including key markets such as

Australia, Brazil, Canada, Europe, Mexico, New Zealand, the

United Kingdom, the United States, Uruguay, and Vietnam.

Our more than 270,000 team members around the world follow the same sustainability guidelines, encompassing economic, social, and environmental aspects in terms of innovation, food quality and safety, always guided by the same **Mission and Values**.

In Brazil, our operations include the production of beef, chicken, turkey, pork, plant-based products, prepared and frozen food products, as well as the sale of lamb and fish through partner companies. Additionally, we are involved in related businesses such as leather, biodiesel, collagen, natural wrapping, personal hygiene and cleanliness products, metal packaging, transport, waste management solutions, and recycling. These innovative operations promotes ustain ability throughout our entire business value chain.

With a presence in over 25 countries across five continents, the company operates more than 6,000 production sites and commercial offices.



Mission and Values

**FRIBOI** 





### About Friboi

#### Cattle

Friboi is the leading beef producer in Brazil, with 33 cattle processing sites and eight prepared food sites nationwide, offering a comprehensive range of products in the sector. With over 70 years of tradition, we provide food to meet diverse consumer profiles and needs, and we export to more than 180 countries. Our priority is to ensure the origin, quality, and safety of our food, from production to delivery, following the best sustainability practices throughout the value chain.

At Friboi, we have implemented a thorough and rigorous animal welfare program at our production sites, complying with both domestic and international legislation as well as client protocols and globally recognized certifications. This program covers all stages from working with farms to processing at our facilities, incorporating strategic preventive and corrective measures to safeguard animal health and welfare throughout the production process.





### About Seara

### Broilers, turkeys, and hogs

Seara is the largest producer of chicken and the second-largest producer of pork worldwide. The company serves 130 countries, primarily in Europe, the Middle East, and Asia. With a history spanning over 60 years, it operates 30 poultry processing sites, 8 pig processing sites, and 25 prepared food sites. Seara aims to offer products of quality, convenience, trust, and innovation. The brand has solidified its leadership in the frozen and plant-based categories and is committed to producing foods that align with the nutritional needs and diversified tastes of consumers.

Animal welfare is a constant priority at Seara, and the company is dedicated to caring for all animals with respect, valuing their quality of life, and being aware of the specific needs of each species at every breeding stage.

**FRIBOI** 

INNOVATION,

# Our approach to Animal Welfare

In 2023, we developed a Global Sustainability Strategy that is integrated into our supply chain and addresses our key sustainability topics. This strategy will direct the company's efforts in environmental, social, and governance matters and will be the global standard for developing all our sustainability programs and initiatives. Animal Welfare is one of the four key material themes for the company's global sustainability approach, along with Environmental Management, Product Integrity and Team Members Health and Safety. It is also one of the components of our 2030 Global Sustainability Goals. Therefore, a commitment to animal welfare is a top priority on JBS's global agenda.

As a leader and reference in animal protein production, the company takes the responsibility of ensuring quality of life and humane slaughter to the animals in our care very seriously. We are committed to following animal welfare best practices, both in our own operations and in our wider supply chains. This reflects our compliance with customer and consumer expectations, our active role in society and, above all, the respect we have for animals. They are fundamental to the sustainability and success of our business.

**Animal Welfare is** one of the four key material themes for the company's global sustainability approach, and it is also one of the components of our 2030 Global Sustainability Goals. Therefore, a commitment to animal welfare is a top priority on JBS's global agenda.





2030 Global Sustainability Goals

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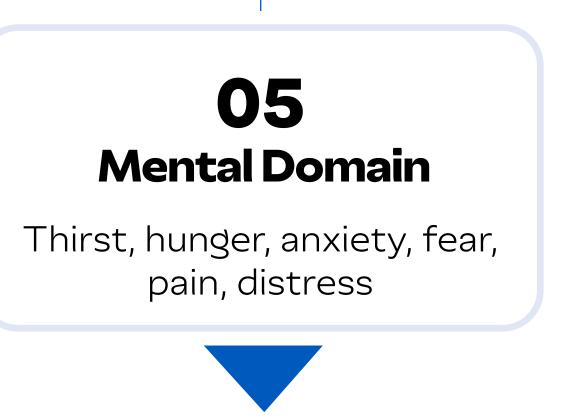
The Company invests in training and programs to promote "One Welfare" (a concept that recognizes the relations between animal welfare, human well-being, and the integrity of the environment) in all its operations. Our approach follows the concept of the "Five Domains" of animal welfare, a scientific model used to understand and evaluate animal welfare. The model acknowledges that animals can experience both positive and negative emotions, and describes the main components necessary for good welfare, considering Nutrition, Environment, Physical Health, Behavior, and Mental State.

In line with this, we provide for the animals to be properly fed, watered, and kept in good environments in our supply chain. We also encourage proper health and conditions so that the animals can express their natural behavior, ultimately leading to a positive mental state.

We are committed to following animal welfare best practices, both in our own operations and in our wider supply chains. This reflects our compliance with customer and consumer expectations, our active role in society and, above all, the respect we have for animals. They are fundamental to the sustainability and success of our business.

#### PHYSICAL/FUNCTIONAL DOMAINS





WELFARE STATE

**SEARA** 



Considered sentient beings, in other words, with the ability to experience pain, fear, stress, pleasure and happiness, in addition to having memory, the animals are handled by the company according to best welfare practices to enhance their quality of life.

JBS has a global Animal Welfare Policy, and each business unit is free to develop its own guidelines. Our guiding documents are:

#### **Animal Welfare Policies**



Global
Global Animal
Welfare Policy



**Brasil**Política de Bem-estar
Animal Brasil

The company provides technical materials on animal health and welfare authored by its technical staff and partners. These materials include references for good management practices on farms, transportation and production, such as the Animal Handling Guide of the Meat Institute (formerly known as NAMI), the World Animal Protection manuals on the humane slaughter of poultry, cattle and pigs, the Legal Transportation of Cattle, Poultry and Pigs Book/DVD of the MAPA (the Brazilian Ministry of Agriculture, Livestock and Food Supply), and the good stockmanship practices manuals of the Etco Group – Animal Ecology and Etiology Studies and Research Group (Universidade Estadual Paulista – Unesp, Jaboticabal-SP campus), sponsored and relaunched by JBS and available for consultation on our **digital platforms**.





**SEARA** 

# Governance e Management

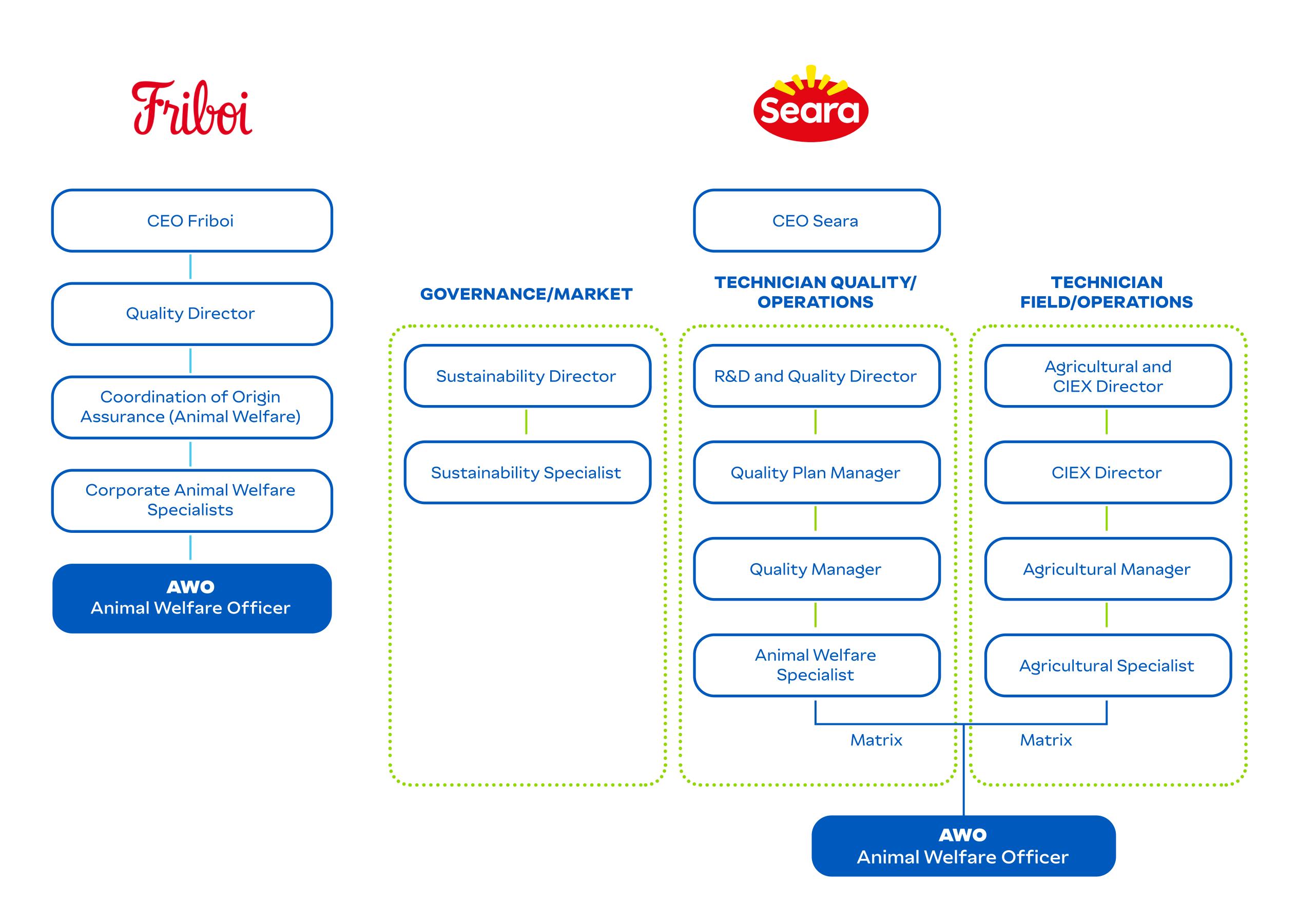
JBS's animal welfare good practices are an integral part of its sustainability strategy. In 2017, we established the Animal Welfare Committee to develop guidelines for improving animal welfare policies for all species of animals at JBS.

The committee's responsibilities include evaluating and discussing relevant animal welfare issues, outlining procedures, and implementing necessary controls throughout the production chain to continually enhance animal welfare at the company's sites. This is also the space where we analyze the strategies for informing and engaging team members on the topic. The group includes representatives from the Sustainability, Quality, Livestock Rearing and Processing corporate areas, as well as other team members.

Additionally, there are monthly working groups and quarterly committees composed of technical teams and boards responsible for exploring the primary opportunities for each species and animal category.

### Animal Welfare Management Structure

Currently, within the scope of animal welfare, JBS in Brazil is structured around the businesses of Friboi and Seara, as follows:







At the Friboi and Seara slaughterhouses, specialized team members called Animal Welfare Officers (AWOs) are trained and dedicated to monitoring the animals from the loading on the farm, during transportation, reception and lairage at the plant until slaughter. These officers are also responsible for the facilities, equipment, training of team members and proper management, as well as for conducting monitoring and internal audits to ensure compliance with animal welfare standards.

In addition, Seara has multidisciplinary teams of specialists in nutrition, production, and animal health. These professionals are responsible for implementing the best technologies and assuring the best practices for animal welfare. The company also has a technical team responsible for providing guidance and monitoring the breeding of animals in the field. Together with the farmer partners, this team ensures the best conditions in terms of environment, food, health, and expression of the animals' natural behavior.

#### **JBS Ethics Line**

JBS provides the JBS Ethics Line for all stakeholders (such as team members, suppliers, investors, and clients), free of charge. This service is available 24/7 in 17 languages and is handled by independent and specialized companies. It can be used to report any irregularities or behavior that violates the Code of Conduct and Ethics, JBS Code of Conduct for Business Partners, policies and procedures, and prevailing legislation, including those related to animal welfare.



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JBS has a Global Animal Welfare Policy, and each business unit has the freedom to develop its own guidelines.



Code of Conduct and Ethics



JBS Code of Conduct for Business Partners





**ANIMAL WELFARE SPECIFIC ABOUT ABOUT OUR APPROACH TO GOVERNANCE AND** INNOVATION, **EXTERNAL ANNEX OF ONGOING ENGAGEMENTS CERTIFICATIONS** INTRODUCTION AND AUDITS **FRIBOI SEARA** IN PRACTICE **POLICIES** AND PROJECTS TECHNOLOGY, AND R&D **INDICATORS** ANIMAL WELFARE **MANAGEMENT** COMMUNICATION







# Animal Welfare in practice

The rearing of broiler chickens, turkeys, pigs, and cattle involves our own operations as well as partner farms and third-party operations. Our teams specialize in each species of animal and undergo technical training on issues such as safety, health, and animal welfare. Additionally, our production sites receive technical visits, customer and certifications audits, and operate in accordance with the company's laws, manuals, protocols, procedures, and policies.

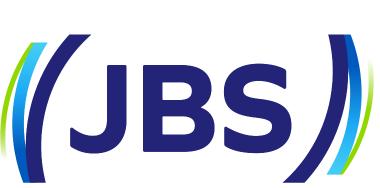
We adopt technical guidelines and internal manuals that promote animal welfare, tailored to each species and stage of the production process. These procedures are crucial in the training of our team members and partners. We also maintain corporate standards for humane slaughter, with internal and external audits that confirm adherence to these standards. The cattle, poultry and pork slaughterhouses undergo internal audits, are evaluated for diagnosis, and also receive animal welfare training conducted by consulting companies specialized in this subject.



The sites are regularly audited by customers in both domestic and foreign markets, who verify health, quality, animal welfare, traceability, and nutrition criteria. We operate under the supervision of the Federal Inspection Service (SIF) of the Ministry of Agriculture, Livestock and Food Supply (MAPA), which conducts frequent audits to ensure compliance with the specific humane slaughter standard (Portaria SDA/MAPA No 365, de 16 de Julho de 2021) as well as other standards related to the subject, including international standards such as Council Regulation (EC) No. 1099/2009 of September 24, 2009. We also adhere to self-control programs to ensure best practices in pre-slaughter practices and humane slaughter.

JBS has shown its ongoing commitment to animal welfare by introducing the JBS Seal of Animal Welfare in 2019 and organizing the annual Animal Welfare Campaign since 2017. This campaign occurs every October and focuses the entire month on promoting practices that enhance animal welfare across the company. Each year, a specific theme is selected to highlight and encourage improvements, with collaboration from partners, non-governmental organizations, and academics. Through the production of communication materials and the organization of events, JBS seeks to engage all company employees and its value chain, emphasizing the importance of animal welfare and fostering a corporate culture focused on this topic.





JBS has shown its ongoing commitment to animal welfare by introducing the JBS Seal of Animal Welfare in 2019 and organizing the annual Animal Welfare Campaign since 2017.

# Suppliers, farmers, and partners

**ABOUT** 

**FRIBOI** 

We believe that our relationship with our suppliers is crucial for the success of our value chain and to achieving our animal welfaregoals. That's why we have taken a series of actions guided by the principles of trust, respect, ethics, and transparency. Our **Code of Conduct for Business Partners** includes guidelines to ensure that suppliers align with the business standards adopted by JBS. In addition, we provide technical and management support, as well as training programs focused on best practices and development to promote animal welfare and sustainability throughout the Friboi and Seara supply chains.

We believe that our relationship with our suppliers is crucial for the success of our value chain and to achieving our animal welfare goals.

#### Friboi

The company promotes the adoption of best practices on its suppliers' farms through campaigns, lectures, seminars, and through sponsoring supplier engagement programs. It also emphasizes training with specialized teams at production sites to monitor the animals' welfare from reception to processing. Performance in all these stages is monitored, recorded and evaluateddaily.

Team members' training includes videos on good stockmanship practices, specifically designed for online training. Friboi's digital platform offers technical materials on animal health and welfare prepared by its own technical team and partners, as well as manuals by the Etco Group on Good Practices in Stockmanship sponsored and relaunched by JBS.

In addition to providing technical materials, the company also organizes events such as webinars, online training, and campaigns where animal health and welfare kits are delivered. Additionally, there are projects aimed at promoting good practices, such as the "Reducing Hot Iron Branding" initiative and others (further details on **page 31**).

#### Seara

Familiarize
yourself with
our Business
Partner Code
of Conduct



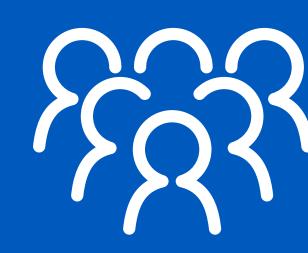
Seara collaborates with approximately 9,000 suppliers who have exclusive partner farm agreements. The partner farms undergo training in proper stockmanship practices, animal welfare, compliance, and environmental licensing. All suppliers of animal protein to Seara must adhere to and uphold our animal welfare standards.

All individuals involved in breeding, transporting, and slaughtering of the animals, whether they are contractors or team members, receive annual training in good practices and animal welfare. In total, 15,921 people received training at Seara in 2023, including team members, partners, and contractors (see table in the **Annex of Indicators**).

# Highlights of our achievements in animal welfare (2023)



Investment of approximately R\$ 60.4 million in initiatives related to animal welfare, including infrastructure, training, management tools, transportation improvements, innovation, certifications, and communication. e comunicação.



team members who have contact with live animals at Seara and Friboi, have received training in animal welfare.

All 33 units Friboi sites were certified and approved by the Guarantee of Origin Program and approved in third-party transportation audits.

The objective is to transition from individual gestation to group gestation in swine production, currently reaching 86.2%.

96.37% of cattle of cattle were stunned before slaughter at the Friboi sites.

Progress in the use of environmental enrichment for **86.5%** of pig farms

The average transportation time of cattle was 6.3 hours, with 73% of trips being up to 8 hours.

99.1% of broiler chicken transports took less than 4 hours.

100% of turkeys were stunned before slaughter at the Seara sites.

100% of pigs were stunned before slaughter at the Seara sites.

100% of Seara's broiler chicken, pig, and turkey units are audited and certified by PAACO auditors.

The animal welfare practices and initiatives adopted by JBS are concentrated in three stages: Rearing, Transportation and Processing.

\*Sites that perform slaughter under religious requirements (Kosher and Halal)



# Rearing



# Friboi

The majority of the cattle slaughtered by JBS Friboi are raised solely on pasture for their entire lives, which accounts for 58% of the total. The remaining 42% of our cattle are pasture-raised during the breeding and rearing stages, which make up about 90-92% of their lifespan. After this stage, they are transferred to feedlots for the final fattening stage, which lasts on average between 90 and 120 days. This means that 42% of the animals slaughtered in Brazil in 2023 went through a short period in feedlots. It's important to note, however, that the rearing systems in Brazil are more extensive compared to other regions of the world, as the animals have more outdoor space and spend a shorter period in feedlots.

In Brazil, there is no specific legislation indicating a minimum stocking density for livestock, so we rely on scientific studies for guidance. At JBS's feedlots, the average minimum density is 14 m<sup>2</sup> per animal during the dry season and 18 m<sup>2</sup> during the rainy season. Cattle in Brazil only spend time on slatted (cement) floors in the slaughterhouse, for an average of up to 24 hours. Most of the time, our cattle are raised on pasture, and when they are in feedlots, the floor is made of dirt. On farms, the housing system allows for pasture and group grazing.

Calves in Brazil are raised in groups on pasture and are usually weaned around 8 months of age. The primary focus is on the pregnant cow and the proper handling and care of the newborn calves to ensure their health. One important project that aims to improve calf care is the "Every Calf Matters"-initiative, which is detailed on page 34.

**FRIBOI** 

Of the total number of cattle slaughtered, 2.27% come from JBS's own feedlots where we work to promote animal welfare by providing periodic training for our stockmanship team, continuously improving facilities, and implementing corrective actions as needed. To improve animal welfare in non-JBS feedlots, but are Friboi suppliers, we conduct technical visits, provide educational materials on our website, and distribute these to our suppliers. Additionally, we offer animal welfare courses, such as Confinar Bem ("Confining Well"), developed by the consultancy BE.Animal. We have also released a reference guide for good feedlot handling practices.

Our main objective is to help the animals that are confined to adjust more quickly to their new home and to ensure that the five domains of animal welfare are respected. This work results in animals that are more docile and less stressed. In JBS feedlots, the facilities are structured and maintained to prevent harm to the animals, and the quality of water and cleanliness of drinking fountains are regularly monitored. The diet is determined by specialists and reviewed daily. Cattle are assisted by veterinary consultants, and the teams are periodically trained in pen management and climatization by specialist partner companies.

With regard to the supply chain of dairy ingredients used in the production of processed foods, Friboi has a single supplier for dairy raw materials, specifically cheese, which is used in a very small volume in one of its prepared products. This supplier operates with 60% of the cows in a compost barn system, 30% on pasture and 10% in free stall system, ensuring that all calves are kept free from feedlots, in groups, with free access to pasture. Friboi emphasizes that neither the beef herd nor the dairy cows are tied/tethered on farms. Dehorning is not practiced in cows except in specific cases due to animal health conditions. However, dairy calves may undergo dehorning using a hot iron or paste, when necessary.

To improve animal welfare in non-JBS feedlots, but are Friboi suppliers, we conduct technical visits, provide educational materials on our website, and distribute these to our suppliers

**GOVERNANCE AND ANIMAL WELFARE SPECIFIC ABOUT ABOUT OUR APPROACH TO CERTIFICATIONS** INNOVATION, **EXTERNAL ANNEX OF** ONGOING ENGAGEMENTS AND AUDITS **FRIBOI SEARA** MANAGEMENT IN PRACTICE **POLICIES** AND PROJECTS ANIMAL WELFARE TECHNOLOGY, AND R&D COMMUNICATION **INDICATORS** 

# Rearing





Seara poultry and pigs are reared by about 9,000 farmers on farms where the environment is carefully controlled, including lighting, ventilation, humidity, temperature, bedding quality (for poultry), and biosafety conditions. The farms undergo strict compliance assessments to ensure best practices during the rearing process. Several procedures and controls are in place to ensure our animal welfare requirements across the entire production cycle. Structures and equipment are constantly updated, and there are defined emergency procedures in case of anomalies.

#### Poultry

The litter is made up of dry, soft material to provide comfort to the animals. The quality of the water is regularly monitored, and the diet is balanced and formulated to meet the animals' nutritional needs in different production stages. The food comes from our own and third-party feed factories, where the quality is supervised by trained technicians.

In 2023, the average housing density of broilers in Seara was 32.16 kg/m². For the Nhô Bento, Da Granja, and Orgânico lines we maintained a maximum density of 30kg/m². We control light exposure to ensure a minimum dark period of 6 hours per day and 20 lux of illuminance. Additionally, all laying hens, which provides the fertile eggs for broiler production, are raised in cage-free systems.





We have nurseries with a climate-controlled environment that is adapted to ensure optimal air quality, temperature, and comfort for the animals. We are also focusing on implementing environmental enrichment "toys" on the farms, as well as ensuring proper stocking density, in order to enhance the environment, making it more complex and stimulating the pigs' natural behavior.

In 2023, we focused on constructing and/or adapting positions for sows in collective gestation, representing an increase of approximately 14% compared to the previous year. We are also implementing financial incentives for farmers to adapt their production systems to meet the best animal welfare practices.





# Differentiated products

Seara offers three different product lines that are internationally certified (**Certified Humane Brasil**) in animal welfare.



**Seara Da Granja**: Chickens are raised on exclusive poultry farms with environmental enrichment in line with international standards and a maximum density of 30 kg/m². Their diet consists of 100% plant-based feed, and they are not given antibiotics or anticoccidials.



Nhô Bento: This range of chickens is a slow-growing breed approved by the Better Chicken Commitment (BCC). They are raised in a free-range environment with environmental enrichment and have access to external paddocks for grazing. They are slaughtered at a later age than other chickens..



**Seara Orgânico**: Organic chickens are fed a balanced diet of 100% GM-free and organic plant-based feed. They enjoy environmental enrichment with access to external areas and are free to express their natural behavior. These products are certified by the Biodynamic Institute for Rural Development (IBD).

# Monitoring of indicators

Continuous monitoring of animal welfare data is a crucial tool for JBS, as it aids in the company's decision-making and in the implementation and monitoring of established commitments and goals. Additionally, this process helps evaluate how animal welfare actions positively impact animals, leading to continuous improvement in our processes.





FRIBOI SEARA

The key management and environmental indicators as well as animal-based indicators, also known as Animal Welfare Outcome Measures (WOMs), monitored by Friboi and Seara during internal and external audits, conducted by clients, certifications, and the Ministry of Agriculture, Livestock and Food Supply are:

# Filoi

Bruising on carcasses, diseases identified at processing, indicators of our scorecard (including intentional acts of abuse, vocalization, access to water, use of electric prods, slips, falls, effectiveness of stunning on the first attempt, insensitivity in the bleeding area), transport time between source properties and processing units, waiting time to unload at the processing units, structural conditions of transport vehicles, stocking density during transport, maintenance of equipment and facilities related to animal handling in corrals and processing rooms, and team member training.

In addition, supplier indicators are recorded in the loading and unloading report for 100% of the processed animals by Friboi. This information is crucial for monitoring handling from the farm to the processing facility. During processing, we assess the meat's pH based on the requirements of each market and assess the need for emergency slaughter, as well as the presence of other factors. This evaluation provides valuable feedback to our suppliers in case there are any animal health and welfare issues.



**Poultry (broilers and turkeys):** mortality rate (on the farm and during transportation), stocking densities (breeding and transportation), incidence of pododermatitis, use of medications, weight gain, carcass condemnation in the slaughterhouse, transport time, total fasting time before slaughter, lairage time in the slaughterhouse, stunning, and bleeding of the animals.

**Pigs:** mortality rate (on the farms and during transportation), stocking density in the lairage, use of medications, weight gain, carcass condemnation at the slaughterhouse, transport time, total fasting time before slaughter, stunning, and bleeding of the animals.

In case of any deviations in these parameters, corrective actions are taken to prevent recurrence. At Seara, we conduct post-slaughter monitoring that allows us to identify opportunities during the sourcing process. All tracked indicators are verified and entered daily into the spreadsheets and internal IT systems of the company. The monitored indicators can be viewed in the attachment of this report.



**SEARA** 

# Transport



JBS is dedicated to continuously investing in improving and modernizing the vehicles used to transport animals, as well as renewing its own fleet, in order to enhance the safety and comfort of the animals during transportation. All drivers undergo training at least once every 12 months to learn about good stockmanship practices. This training helps reduce stress on the animals during transportation from loading to unloading points, as well as preventing accidents.

In order to ensure the best logistics for transporting live animals, factors such as travel time and speed during the journey are evaluated and used to determine the movement of the vehicles.

#### Cattle

In 2023, Friboi operated 33 production sites, with 28 utilizing both its own cattle fleet and partner carriers, while the remaining sites worked only with partner carriers. The company prioritizes processing the animals acquired at units that are closer to the source properties, to minimize transportation time. In 2023 this policy led to an average transport time of 6.3 hours, with 73% of cattle being transported in less than 8 hours.

Friboi's own fleet of cattle vehicles comprises over 500 vehicles that are renewed every three years and tracked via satellite. Along with a team of more than 700 trained drivers, who follow good handling practices during transportation (including vehicle preparation,



**SEARA** 

loading, in-transit care, and unloading), the company ensures the safety and welfare of the animals throughout the entire process.

Our fleet is equipped to promote animal welfare during transport, with travel monitoring via telemetry. We monitor animal welfare indicators via camera during unloading at the processing unit for both our own and outsourced transporters. In 2023, a total of 4,608 monitoring sessions were conducted at all Friboi sites, including third-party and own vehicles. Our vehicles and drivers undergo regular audits by the Quality Assurance teams of the production sites to improve the quality of service provided. In third-party transportation audits, we received a 100% approval rate for compliance with the Meat Institute (formerly known as NAMI) and the Guarantee of Origin Program.

A total of 4,608 monitoring sessions were conducted at all Friboi sites, including third-party and own vehicles



UUDOI from IBS

In 2020, JBS Transportadora created Uboi, a service for transporting cattle between farms, feedlots, auctions, and processing units. Uboi is an application that organizes small, mid-size and large livestock farmers into a qualified live cargo transportation system. The service uses drivers trained in good stockmanship practices from loading to unloading, with a focus on animal welfare. In addition, it has a 24-hour monitoring center that is able to address any issues that may arise.



**SEARA** 

### Highlights



The AWOs (Animal Welfare Officers) have conducted 4,608 checks/monitoring annually on the cattle fleet to ensure the trailers are in good condition.

Over R\$44 million has been invested in replacing the cattle fleet with modern vehicles, prioritizing animal welfare. Since 2018, the investment has exceeded 280 million reais

The fleet has been validated in partnership with the Etco Group, conducting research projects focused on enhancing cattle fleet's impact on animal welfare

In 2023, R\$ 483,966 was invested in training cattle drivers in good transportation practices by specialized companies.

### Poultry and pigs

In Seara's animal transport logistics, vehicles preferably circulate through the best routes, always considering the distance, travel time, and speed during the journey. Effective actions were implemented in 2023 to minimize the transport time of pigs and poultry. As a result, the average travel time for pigs was 1 hour and 30 minutes, with 96.3% of the animals transported in less than 8 hours. For poultry, the average transport time was 1 hour and 20 minutes for chickens, and 1 hour and 53 minutes for turkeys, with 99.1% and 100% of chickens and turkeys, respectively, transported within 4 hours. These measures represent a significant improvement in reducing stress and improving animal welfare during transportation.

The Quality Assurance teams of the production sites conduct periodic audits of the vehicles and drivers to ensure the quality of the service provided. The drivers receive training in safety, animal welfare, and emergency procedures.



# Slaughter



#### Cattle

Our operations comply with the legislation and procedures established based on the principles of humane slaughter. Friboi pioneered the use of a camera system to monitor animal welfare indicators in the beef industry in Brazil, and 100% of its sites are monitored with CCVT cameras, from the time the animals are received until until the actual processing.

All processing plants have Animal Welfare Officers (AWOs), who monitor handling and all preslaughter and slaughter welfare indicators on a daily basis as well as carrying out internal audits. The loading and unloading report, including information from the farm to arrival at the slaughterhouse, is filled out by cattle drivers and receivers at the pens, under the supervision of the Quality Assurance team. We also utilize Animal Health and Welfare Indicator Management Panels, which include analysis of criteria related to transport, pre-slaughter stunning, and slaughter.

We replicate projects such as **Move Boi**, which aims to promote the installation of equipment designed to facilitate the transport of animals to the stunning box while respecting animal and human welfare standards.

The **Move Boi system** assists management by offering multiple benefits, including significantly reducing the use of the electric prod and improving animal welfare, directly reflecting on product quality. With successful implementation in 8 sites, we observed an average 50% reduction in the use of the prod. This result reinforces the expectation of implementing the system in more sites in the coming years.



# Testimonial from a project collaborator



"We have observed an improvement in working conditions, such as the decreased difficulty in getting the animal into the stunning box. Additionally, we have seen a reduction in the risk of intentional abuse with an electric prod and a decrease in the risk of occupational accidents during emergency slaughter".

Nilton Evangelista Bueno, Corral Monitor at the Lins/SP facility

The stunning method used in the slaughter of cattle involves a captive bolt pistol driven by compressed air, without air injection. In 2023, 96.37% of the animals were stunned in all Friboi's active slaughterhouses, with 99.35% of the cattle being stunned successfully on the first attempt. Brazilian legislation prohibits the slaughter of animals without prior stunning, except in cases of religious slaughter. Therefore, to meet commercial requirements and to respect religious and cultural beliefs as well as the diversity of the markets where Friboi operates, a small portion of the slaughtered cattle, 3.63%, were not stunned before slaughter in 2023.



### Poultry and pigs

At Seara, we prioritize continuous training to educate our team members on the importance of collecting key indicators and the consequences of not adhering to animal welfare standards during this phase. We make substantial investments in equipment to enhance the handling, thermal comfort, and stunning of animals at the pre-slaughter stages. This commitment is evident in our company's good performance in the animal welfare audits.

In 2023, a total of 1,510 team members in the poultry and pigslaughter houses, as well as in corporate areas, including those responsible for animal welfare, quality assurance analysts and coordinators, and operation leaders, received training in animal welfare. The training was conducted by a specialized consultancy accredited by the government for pre-slaughter and slaughter handling, covering Brazilian and European standards, including Council Regulation (EC) No. 1099/2009 of September 24, 2009.

Poultry are stunned using an electronarcosis system, which involves immersing the birds' heads in electrified water. In pig slaughterhouses, two primary methods are employed: 34.6% of the animals undergo electrical stunning (electrocution), while 65.4% are slaughtered using the controlled atmosphere stunning system (carbon dioxide). Any potential deviations are addressed through corrective actions, and in 2023, our monitored stunning process achieved 100% efficiency in pigs. For broilers, 83% of the poultry underwent the stunning process, and all of them complied with the electrical parameters required by WOAH and Council Regulation (EC) No. 1099/2009 of September 24, 2009. This number is not higher because of the need to meet the religious requirements demanded by specific consumer markets.



On July 16, 2021, Brazil introduced the Portaria MAPA/SDA No 365, de 16 de Julho de 2021', which was fully enforced in 2023. This move demonstrates Brazil's commitment to improving animal welfare in alignment with the World Organization for Animal Health (WOAH) guidelines and scientific research. The Ordinance approves the Technical Regulation for Pre-slaughter and Humane Slaughter Handling, as well as the stunning methods authorized by the Ministry of Agriculture, Livestock and Food Supply.

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# Specific policies

#### Environmental enrichment

Friboi promotes environmental enrichment among its cattle suppliers through engagement initiatives. The company prioritizes the provision of free access to pasture for our cattle, as it is the most important environmental enrichment for them and crucial for enabling natural behavior. Furthermore, Friboi encourages the provision of shaded areas for animals to enhance their comfort. In cases where animals are in feedlots, the company recommends the use of additional enrichment tools, such as scratchers.

In the case of our birds, the animals have the freedom of movement, the ability to spread their wings, and scratch, while also allowing for social interaction between the animals. In the production of special lines (Nhô Bento and Orgânico), the birds have access to the external area and are able to freely scratch.

Currently, a portion of the chickens are raised in enriched environments, featuring perches, shavings bale, or other approved substrates such as rice husk or peanut shells. In turkey breeding, 100% of aviaries already have environmental enrichment.





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Seara incorporates environmental enrichment objects in the breeding, growing, and finishing stages for pigs value chain.

In pigs, Seara has made progress in environmental enrichment, achieving the milestone of 86.5% of farms having at least one form of enrichment.

By 2023, the total enrichment rate for pigs in slaughterhouses had risen to 89%. In 2022, we had enrichment (branched chains or balls) in approximately 40% of the lairage pens in our slaughterhouses.

### Painful procedures

Friboi's overall commitment is to reduce the use of painful procedures by promoting good management practices among our suppliers. In Brazilian livestock farming, particularly in JBS feedlots, the most used breeds are polled. For those that are not polled, farmers typically do not perform dehorning or tail docking of the animals, except in cases of diseases or injuries, as recommended by a veterinarian. Less than 4% of the animals slaughtered by Friboi are castrated. We also implement projects such as "Reducing hot iron branding" to enhance animal welfare.

Seara has a tail docking protocol in the first week of the piglet's life. However, we are committed to environmental enrichment as an important step towards reducing this practice. We do not subject **the pigs to surgical castration because we use immunocastration technology, and the animals do not have their teeth cut or reduced.** We are also working to reduce the use of ear notching for identification, and currently, 46% of pigs are not marked with a notch. In our poultry production, we do not perform beak treatment (or debeaking) on broilers.



JBS Brazil does
not produce
foie gras in its
production chain.





# Use of antibiotics, other medications, and vaccines

We understand that continuously improving animal welfare is one of the most effective strategies for minimizing the need for antimicrobial use. We are conducting comprehensive research with the aim of enhancing management practices to reduce stress in animals and consequently decrease the incidence of diseases.

Seara is dedicated to promoting animal health through the implementation of biosafety measures, vaccination, and disinfection programs. The company is also actively seeking alternative products and measures to enhance animal health and prevent diseases, thereby reducing the need for antibiotics. These measures include the use of probiotics, prebiotics, eubiotics, and organic acids.

To enhance the biosafety of herds and protect them from potential diseases, farms are equipped with a sanitary safety structure, including protective barriers, anti-bird screens, water monitoring and treatment, and proper disposal of production waste.

Friboi's suppliers are provided with guidance on the responsible use of antibiotics through the provision of technical materials, as well as information on the importance of involving veterinarians to ensure an imal health and food

safety. Additionally, suppliers are required to sign an agreement regarding the responsible use of veterinary products and the non-use of prohibited substances. The prophylactic use of antibiotics is not encouraged at Friboi.

At Seara, the use of medications, vaccines, and other substances requires a veterinary prescription and is provided by the technical assistance team. It is strictly prohibited to use these types of products if they have not been explicitly authorized by Seara. In pig farming, antimicrobials are not used for prophylactic purposes.

Friboi and Seara are in the final stages of preparing a joint Policy for the Responsible Use of Antibiotics, which will be published in 2024.

At JBS, practices like cloning and genetic engineering are not employed in the supply chain.

We understand that continuously improving animal welfare is one of the most effective strategies for minimizing the need for antimicrobial use.





# Ongoing engagements and projects

# Friboi

#### Reducing hot iron branding project

Hot iron branding is a traditional practice used in Brazil for identifying cattle, demonstrating ownership, and maintaining sanitary control of herds, such as the requirement in Brazilian legislation to identify calves that have been vaccinated against brucellosis.

To improve animal welfare, the "Reducing hot iron branding" project aims to develop alternative identification techniques that are less painful for the animals. With the support of Friboi and JBS Leather, farms are replacing hot iron branding with earrings, buttons, and tattoos, which are less painful.



ANIMAL WELFARE

IN PRACTICE

The project involves diagnosing the situation, management practices at the farms, training in good identification handling practices, and monitoring the implementation of these actions. The first stage of the project resulted in 68,450 fewer brandings being done in a year across the first 4 participating farms. In 2023, we launched the Good Practices Guide and tutorial videos for reducing hot iron branding on our website. Additionally, the project collaborated with the Agricultural Defense team of the state of São Paulo which, after evaluating the results of the project, has removed the obligation to brand females vaccinated against brucellosis throughout the state, allowing it to be replaced by personalized buttons. We are now preparing for the second stage of the project, which includes communication activities, training, implementation on at least 30 farms, and further efforts to influence changes in standards and rules.



#### Project achievements

- Changes in the attitude of the farm staff towards animal treatment and handling procedures
- Improved animal health and zootechnical indicators
- Enhanced staff well-being due to greater concern for safety and comfort during work.
- Greater attention to quality at the farms' facilities
- Reduced time required to identify the animals
- Lower risk of accidents
  - A source of inspiration for other farms to adopt similar changes







**FRIBOI** 

# Filoi

Established in 2020, the Farm Grade 10 ("Fazenda Nota 10") initiative aims to bring Brazilian beef cattle ranchers together to improve their farms through better staff management and skills development. Friboi runs an animal health and welfare module in the program (https://www.fazendanota10.com.br/), which is divided into 5 sections: general aspects, nutrition, the environment, health, and stockmanship.

The module includes a questionnaire with multiple-choice questions about animal welfare, completed by ranchers on a data management platform created by

Inttegra Institute. After its completion, each farm receives a report assessing its animal health and welfare status, prepared by experts from the consultancy BE.Animal. The animal health and welfare module was launched in 2020 and has already had a positive impact on over 800 participating farms.

Livestock farmers in the program have access to exclusive classes (masterclasses) within the animal health and welfare module, as well as mini courses on specific topics. They also receive technical support to answer questions and some of them can have face-to-face visits from specialists to learn the facts about their farms and strengthen the relationships.

One of the program's significant results is the promotion of good handling practices. This is evident through increased adoption of side-by-side weaning, reduced use of hot iron branding on animals, increased supply of water in artificial drinking fountains, and preservation of natural sources, among others.





FAZENDA
NOTA 10

**FRIBOI** 





### Every Calf Matters project

Friboi also supports the "Every Calf Matters" project in partnership with the consultancy BE. Animal. This project, launched in 2023 with over **800 people** connected live via the internet, aims:

- i) reduce economic losses caused by high rates of mortality and morbidity of calves,
- ii) foster the adoption of strategies for raising and handling beef calves on Brazilian breeding farms that promote human and animal welfare, taking into account the ethical principles that guide the concepts of One Health and One Welfare.







The expected results are, for example, improvements in the calves' colostrum and navel healing processes, reduction of antibiotic use and improvements in the interaction between humans and animals, reducing the risk of accidents and facilitating future handling. In 2024, the main project actions will include:

- Implementing the project on 32 reference farms
- Training the technical teams of our partners
- Developing tutorials and creating content
- Creating an electronic booklet for breeding farms
- · Preparing the "Materneiro do Bem" kit and technical materials



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#### Brazilian Roundtable on Sustainable Livestock

The "Mesa Brasileira da Pecuária Sustentável" (Brazilian Roundtable on Sustainable Livestock) is a non-profit association with almost 70 associated organizations from different sectors of the livestock industry. Its main goal is to promote sustainability in Brazilian livestock.

Friboi, along with other companies in the industry, is supporting this roundtable through the Working Group on Animal Welfare, which was created in August 2023 to enhance animal health and welfare in Brazil's cattle herds.

This working group is focused on establishing a common understanding of health and animal welfare, defining general terms and concepts, drafting agreements for farms and the industry, and on building recommendations that will serve as a guideline in promoting ethical and sustainable livestock rearing and stockmanship practices.







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### Poultry

### Cage-free chicken eggs

In 2020, the company achieved its goal of exclusively acquiring cagefree eggs as raw materials. However, in 2021, this changed with the acquisition of Bunge's margarine and mayonnaise assets.

Consequently, Seara has made a new commitment to only purchase eggs from cage-free hens as ingredients for its products by 2025, ensuring the poultry' freedom of movement and the ability to express their natural behaviors, such as spreading their wings, stretching, perching, sand bed, and scratching. Additionally, it will allow for greater social interaction among the animals. In 2023, the volume of cage-free eggs purchased accounted for 46% of the total bought by the company during that period.





Seara's Commitment: By 2025, purchase 100% cage-free commercial eggs used as ingredients in its products.





### Pigs

#### Group sow housing

In 2015, Seara committed to transitioning from individual to group gestation for 100% of pig production by 2025. As of 2023, we have already achieved 86.5% of this goal.

Pigs are social animals that live in groups, have a hierarchical structure, exhibit exploratory behavior, and require areas for movement and rest. By transitioning to collective housing, Seara aims to provide improved conditions for the animals to express these natural behaviors.

New projects are designed to meet the standard for collective gestation, using a loose housing system where pregnant sows are grouped within 7 days after insemination.

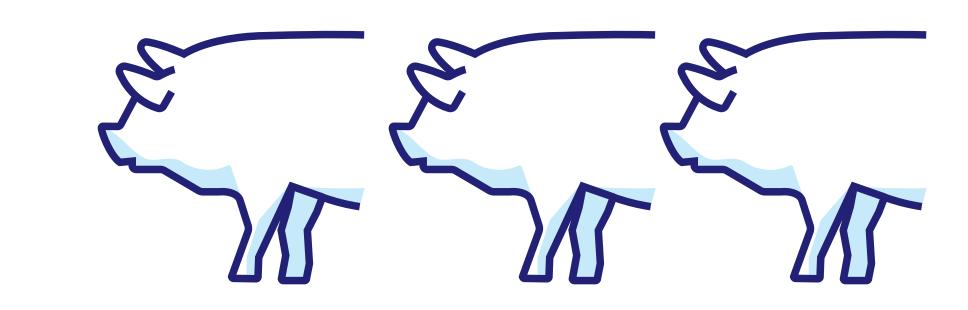
#### Our goal is for:

• 100% of pig farms to have environmental enrichment objects by 2025.

## For new piglet production facility projects, the following are planned:

- Farrowing pens climate-controlled.
- Gestation crate-free in a climate controlled environment, with sows released after insemination (early mixing management).
- Farms with minibox layout, reducing disputes during feeding and increasing social interaction.

# Progress towards achieving the collective gestation target



2022 75,6%

2023 86,5%

3/



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## Global Animal Welfare Goal 2030

## To develop a global Scorecard and set targets by 2030



#### Progress



Currently at Friboi, we are working on validating indicators to be included in JBS's global Scorecard. This will provide a defined baseline set of comparable indicators, enabling us to monitor progress and invest in improvements.



Seara has a management tool to monitor the welfare of all animals raised by the company. This tool, called the Animal Welfare Scorecard, offers an annual production overview. We are currently aligning indicators internally at JBS with plans for expansion in the upcoming years.

**SEARA** 

# Certifications and audits

We conduct regular internal audits at our production facilities, utilizing both in-person inspections and a monitoring camera system. Furthermore, our compliance with animal welfare standards is regularly assessed by national and international clients, as well as by independent certification bodies.











We adhere to the "Guarantee of Origin Program," which is a certification audited by third parties under Friboi's own protocol. This program is developed based on national and international animal welfare legislations, as well as client protocols. The "Guarantee of Origin" protocol is based on globally recognized standards such as the BRCGS (Global Brand Compliance and Reputation Standard), Council Regulation (EC) No. 1099/2009 of September 24, 2009, the Meat Institute Animal Welfare Protocol, and European Union regulations dealing with traceability. In 2023, 100% of the production sites in operation were recertified, and the protocol was expanded to also include the prepared food sites, demonstrating our continuous commitment to quality and excellence across every process and product. Audits for certificate renewal are carried out annually.

At **Friboi**, in addition to the "Origin Guarantee Program" certification, 19 production sites (57% of the total in operation in the period) were certified in animal welfare according to the protocol of the Meat Institute (formerly known as NAMI) in partnership with Dr. Temple Grandin and audited by an auditor certified by PAACO (Professional Animal Auditor Certification Organization)



At Friboi, internal audits are conducted by both our internal teams and a third party. In 2023, we achieved a compliance rate of 86.99% against a target of 80%.







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At Seara, we demonstrate our commitment to animal welfare through audits, with monitoring and management overseen by the company's technical teams. Our protocols align with the standards set by the National Chicken Council (NCC), as well as the guidelines of the Meat Industry Animal Welfare Guidelines (NAMI), and the standards of Turkey Slaughter Animal Care. These are all evaluated by auditors certified by the Professional Animal Auditor Certification Organization (PAACO). In 2023, at Seara, we maintained 100% of our broiler, pig, and turkey units evaluated and certified by PAACO auditors. We ensure the annual renewal of certifications in our units, maintaining compliance with established standards. These audits are vital to ensure that our practices meet market and customer expectations regarding animal health, welfare, and quality. The certifications and recognitions we've received from independent entities testify to our continuous progress and the improvements in animal welfare.







CERTIFIED

Seara submits its special chicken lines to annual audits conducted by external entities, such as Certified Humane, to certify animal welfare. Products like Nhô Bento, Seara DaGranja, and Frango Orgânico undergo these audits. The DaGranja line is produced by an exclusive group of approximately 100 partner farms in the Amparo region of São Paulo.









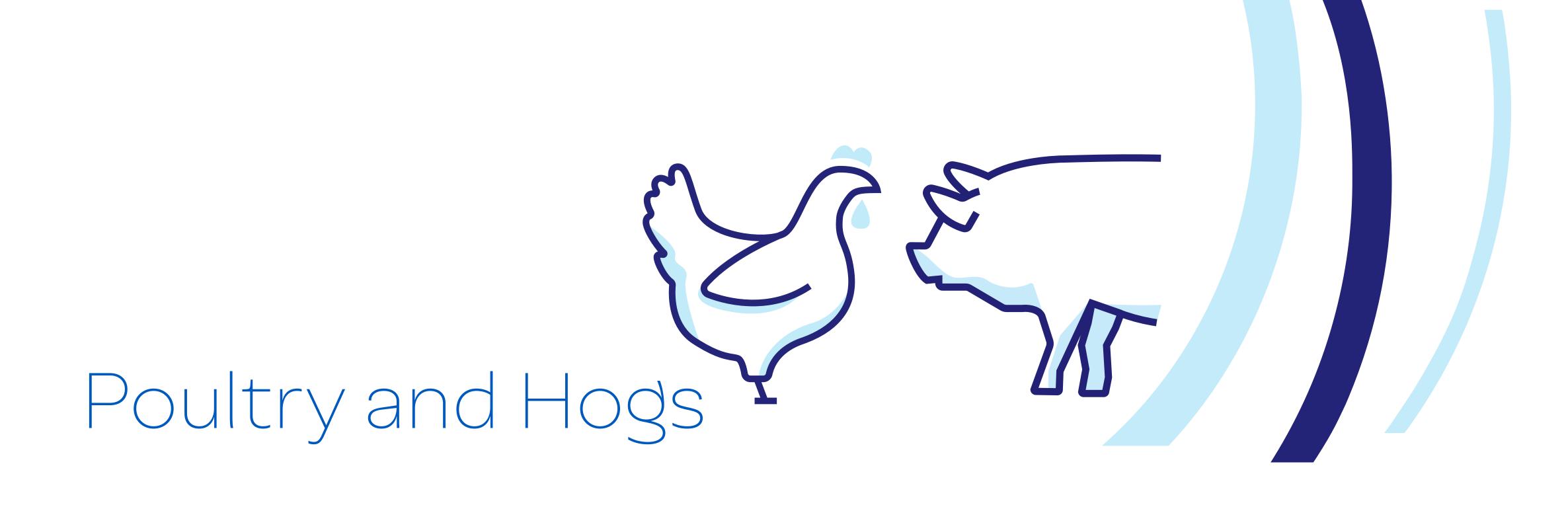
## Innovation, technology and R&D

JBS is committed to innovation, technology, and research and development (R&D) aimed at improving animal welfare, and carries out research, partnerships, and projects in this area. The company invests in enhancing facilities and acquiring state-of-the-art equipment and structures. We partner with renowned research institutions and universities to conduct research and develop projects to continually improve our processes and practices.



At Friboi, we have collaborated with universities and companies to work on projects focused on improving animal welfare from the farm to processing unit. Our partnerships include working with manufacturers of transportation and processing equipment to make advancements such as improving trucks with lifts for cattle transportation, installing monitoring cameras, non-slip floors to reduce slippage and falls during handling, creating an extender for stunning with a portable captive bolt gun, designing equipment to avoid the use of electric prods in pre-slaughter handling, and modernizing the stunning box.

In summary, Friboi is focused on enhancing animal welfare through investments in certifications, transportation, internal campaigns, training and consultancies, support for research and development of projects, and on improving equipment and infrastructure in our plants and feedlots.



At Seara, efforts are being made to eliminate gestation crates (sow stalls) and build group sow pens by 2025. Additionally, objects for environmental enrichment are being included on the farms and at pig slaughterhouses. There is ongoing research into improving production techniques to reduce painful procedures.



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## Cultivated protein

In its cell-based operation, JBS has acquired majority control of the Spanish company BioTech Foods, which owns commercially viable technology in this field. The company plans to invest around US\$60 million in building Brazil's first research and development center for food biotechnology and cultivated protein, called the JBS Biotech Innovation Center located in Florianópolis, SC. The company is focusing on constructing specialized facilities for developing 100% Brazilian technology to produce cultivated protein and building a pilot plant, as well as acquiring the necessary inputs for research. The center will be used to develop new techniques that accelerate gains in scale and reduce the costs of producing cultivated protein, expediting its market launch. Furthermore, JBS has established an ethics commission to oversee the use of animals for experiments related to cultivated meat, comprising animal welfare specialists and representatives from reputable non-governmental organizations (NGOs).





For further information, read more in the JBS 2022 Sustainability Report

1

#### Plant-based products

In 2020, JBS started investing in the plant-based market in Brazil with **Incrível!**. in response to the growing demand for vegetable protein options. The goal is to expand the range of plant-based food options for consumers who prefer this type of food. JBS is also committed to responsibly addressing the global challenge of feeding a growing population. The **Incrível!** line, established as an independent business unit in 2021, offers GMO-free, 100% plant-based products. These products are trans-fat free, high in fiber, and free from lactose, eggs, or milk derivatives. The Incrível! line is currently the market leader in Brazil.





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## External communication

#### Giro do Boi program

"Giro do Boi" is a program broadcast on Canal Rural TV (the Rural Channel). The show focuses on issues related to beef cattle farming across various regions of the country and was established with the support of Friboi. The program's production team and experts collaboratively discuss topics related to animal health and welfare, providing information and assistance to livestock farmers regarding best practices. In 2023, over 78 segments of Giro do Boi were dedicated to animal health and welfare, making up more than 20% of the year's content. In addition to reaching an audience of 50 million people daily through comprehensive TV coverage, Giro do Boi has a significant online presence with nearly 50,000 YouTube subscribers, 77,000 Instagram followers, and 27,000 Facebook followers. In 2023, animal welfare stories on Giro do Boi garnered over 50,000 views on YouTube and more than 40,000 views on the website.













**FRIBOI** 



#### Ligados & Integrados program

"Ligados & Integrados" is a program broadcast on Canal Rural TV (the Rural Channel), focusing on topics related to the poultry and pig industries. The show provides valuable information for farmers in these sectors and regularly features contributions and participation from Seara. Additionally, the Rural Channel is used to promote Friboi and Seara's annual Animal Welfare Campaign to a wider audience.



### Pig welfare farming booklet

Seara was one of the companies that sponsored the development of the booklet "IN 113: a new vision of animal welfare in pig farming". The material aims to disseminate information widely and educationally on the application of MAPA/SDA Normative Instruction No. 113 of December 2020, which establishes good animal handling and welfare practices on commercial pig farms.

SEARA



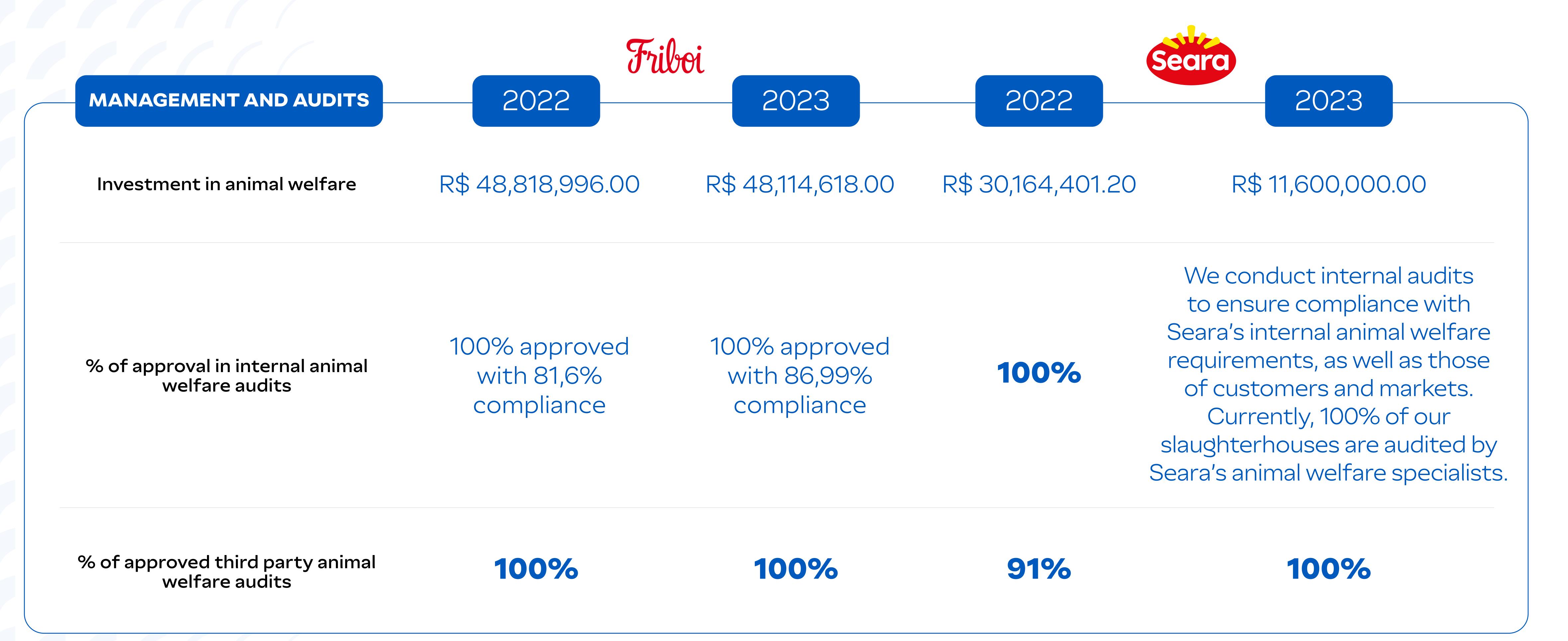


## Annex of Indicators



Key global animal welfare indicators 2023

TOTAL	16,446	18,999
Filboi	2,814	3,078
Secirci	13,632	15,921
TRAINED PERSONNEL	2022	2023





REARING (POULTRY)	2022	2023
REARING (POULIRY)		<u> </u>

Average stocking density

Chickens: 32.84kg/m²

Chickens: 32.16kg/m²

Minimum light time period (hours)

16 hours

6 hours

Use of environmental enrichment

Chickens: 32.84kg/m²

Chickens: 32.16kg/m²

16 hours

17 hours

18 hours

REARING (PIGS)	2022	2023
% of group housing (sows)	75.64%	86.2%
% of animals released after insemination(sows)	53.37%	57.2%
Animals released after insemination (sows) 28-days	*	3.1%
Animals released after insemination (sows) 35-days	*	39.7%
Use of environmental enrichment	*	86.5%
Pigs free from surgical castration	100%	100%
Pigs free from teeth clipping/grinding and/or reduction	100%	100%
Pigs free from ear notching	*	46%

	Friboi		
REARING (CATTLE)	2022	2023	
% of beef cattle in the supply chain raised on pasture and free from CAFOs (Concentrated Animal Feeding Operation) or feedlots	59%	58%	
% of beef cattle in the supply chain housed in groups	100%	100%	
% of beef cattle in the supply chain free from dehorning	100%	100%	
% of beef cattle with access to pasture and free from slatted floor	100%	100%	
% of beef cattle free from castration	94%	96%	
% of dairy cows with access to pasture (Friboi raw material supplier)	*	60% of the cows in the compost barn system, 30% raised on pasture and 10% in the Free Stall system	

--\*: No data



% of third-party transportation audits approved on first attempt	100%	98%	100%	100%
% of approved third-party transportation audits	100%	100%	100%	100%
Average transport distance (km)	238.03 km	222 km	Chicken: 54km Hogs: 63km	Chicken: 56kn Turkey: 53km Hogs: 61km
% of animals transported on trips of up to 4 hours	N/A	N/A	_ *	Chicken: 99.19 Turkey: 100%
% of animals transported on trips of up to 8 hours	70.72%	73%	_ *	Hogs: 96.3%
Average transport time for each species	6h40	6h30	Chicken: 1h10 Hogs: 1h40	Chicken: 1h10 Turkey: 1h53 Hogs: 1h40
TRANSPORTATION AND HANDLING	2022	2023	2022	2023
	Friboi		Seara	

N/A: Not Applicable. --\*: No data



SLAUGHTER

2022

2023

2022

2023

Stunning method used 100% captive bolt pistol with and without penetration, without air injection, driven by compressed air.

Poultry (chickens and turkeys): 100% electrical system (waterbath stunning) Hogs: electrical system (electrocution) and controlled atmosphere system (carbon dioxide)

Poultry (chickens and turkeys): 100% electrical system (waterbath stunning) Hogs: 34.6% electrical system (electrocution) 65.4% controlled atmosphere system (carbon dioxide)

% of animals stunned before slaughter<sup>1,2</sup>

94.38%

96.37%

**Turkeys: 100%** Hogs: 100%

Turkeys: 100% Hogs: 100%

% stunning efficiency on the first shot

99.6%

99.35%

100%

100%

<sup>&</sup>lt;sup>1</sup> Sites that perform slaughter under religious requirements (Kosher and Halal)

<sup>&</sup>lt;sup>2</sup> Regarding broiler chickens, the animals are stunned before slaughter, ensuring Animal Welfare in accordance with Brazilian internal legislation (Ordinance 365/2021), as well as meeting the demands of the countries and clients we serve.



## ANIMAL WELFARE REPORT 2023



