



ANNUAL REPORT 2024

- Research and Development
- Technology Transfer
- Administration

Embrapa
Suínos e Aves

Embrapa Suínos e Aves
Rodovia BR 153 - KM 110
89.715-899, Concórdia, SC, Brazil
www.embrapa.br/fale-conosco/sac

Local Publications Committee

President

Franco Müller Martins

Secretary

Tânia Maria Biavatti Celant

Members

*Clarissa Silveira Luiz Vaz
Catia Silene Klein
Gerson Neudí Scheuermann
Jane de Oliveira Peixoto
Joel Antonio Boff*

Membros suplentes

*Estela de Oliveira Nunes
Fernando de Castro Tavernari*

Produção

Núcleo de Comunicação Organizacional (NCO)

Editors

*Monalisa Leal Pereira
Lucas Scherer Cardoso*

Photos and Illustrations

*Biopark
Canva
Jairo Backes
Lucas Scherer Cardoso
Monalisa Leal Pereira*

Technical Review

*Everton Krabbe
Catia Silene Klein
Franco Muller Martins
Darci Dambrós Junior*

Translation

Jean Carlos Porto Vilas Boas Souza

1st edition

All rights reserved.

This work may not be reproduced, in whole or in part, without permission.

Cataloging in Publication (CIP)

Embrapa Suínos e Aves

Embrapa Suínos e Aves.

Annual Report 2024 / Editors Monalisa Leal Pereira, Lucas Scherer Cardoso. -
Concórdia: Embrapa Suínos e Aves, 2025.

24 p.; 29,7 cm. (Documentos / Embrapa Suínos e Aves, ISSN 0101-6245; 260).

1. Agricultural Research. 2. Embrapa Suínos e Aves. 3. Report. I. Pereira, Monalisa
Leal. II. Cardoso, Lucas Scherer. III. Título. IV. Série.

CDD.630.72

Claudia Antunes Arrieche (CRB-14/880)

© Embrapa, 2025

CONTENTS

- 4 Management
- 6 Publications
- 8 Sustainability
- 12 Research
- 16 Communication
- 18 Technology transfer
- 20 Costing, indirect revenue, and investment
- 22 Production performance

The year 2024 presented significant challenges that actively engaged both management and research teams at Embrapa Suínos e Aves. A key achievement was the physical restructuring of laboratories and research facilities, made possible through PAC funding. These strategic upgrades will bolster critical national studies, particularly in vaccine development and disease control—including pressing challenges like avian influenza.

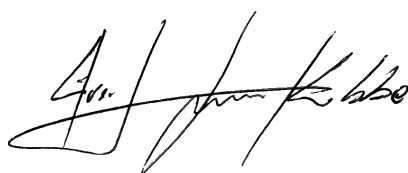
Another milestone was the reorganization of our research framework, transitioning from five thematic nuclei to two integrated platforms. This streamlined structure fosters multidisciplinary collaboration while better addressing the needs of core production chains.

Throughout the year, we delivered impactful results while initiating a major sustainability initiative for swine farming through cross-sector partnerships. These accomplishments reflect the dedication and collaborative spirit of the entire Embrapa Suínos e Aves team.

In the following pages, we invite you to explore our 2024 milestones—not merely as outputs, but as stepping stones toward the future. This reflection holds special significance as we approach our 50th anniversary: a legacy built on innovation, perseverance, and tangible contributions to Brazilian agriculture.

While celebrating these achievements, we recognize there is still much to accomplish. Our vision for advancing Brazilian swine and poultry production remains as ambitious as ever—fueled by the same commitment that has driven us for five decades.

Happy reading!



Everton Luís Krabbe
Head of Embrapa Suínos e Aves

*US\$ 1 = R\$ 5.67 (May 26, 2025)

MANAGEMENT FOCUSED ON IMPROVING STRUCTURE AND STAFF



PRIORITY ON RESTRUCTURING

After a 15-year period, Embrapa Suínos e Aves once again received funds from the Federal Government through the Growth Acceleration Program (PAC). Even before the end of the 2024 calendar year, the Unit executed US\$2,759,508.63 of the New PAC Embrapa funds. The investment for the Unit focused on modernizing and expanding existing facilities, automating laboratories and experimental fields, and acquiring support equipment.

Some equipment was imported, such as the isolator cabinets, used to house animals inoculated with diseases for research tests. These pieces of equipment bring the Unit to the same level of excellence as the best international laboratories. Valued at US\$299,471.43, the cabinets were imported from France.

Also on the list of acquisitions is the next-generation nucleic acid (DNA/RNA) sequencing platform, which will be used in research projects aimed at the genetic characterization of microorganisms with a focus on evolutionary analyses, especially for pathogens with a high mutation rate, such as influenza A viruses. The use of this equipment will also enable surveillance actions and the development of inputs (such as rapid molecular diagnostic kits and vaccines) for avian influenza and African swine fever. Other equipment will also be acquired for areas related to the environment and the mitigation of greenhouse gas emissions through anaerobic digestion for biogas and biomethane production for renewable energy.

As the Unit is located in a rural area, more susceptible to electrical grid fluctuations, it was necessary to invest in structural works to ensure greater energy security. Therefore, the renovation of the electrical system in experimental fields and laboratories was a priority.

With 100% of the funds allocated in 2024 for Embrapa Suínos e Aves executed, the team has already begun to organize how and where the next transfers from the New PAC Embrapa, scheduled for 2025 and 2026, should be applied. The expectation is to complete important works, such as the construction of a new biosafety level 2 and 3 infectious disease facility

(a place where animals are infected and tested) for vaccine testing and production.

Expectation for Workforce Reinforcement - In 2024, Embrapa Suínos e Aves began operations with a reduced workforce following transfers and dismissals (desligamentos) implemented at the end of 2023. This adjustment aligned with Embrapa's broader strategy to streamline operations and identify staffing needs in preparation for a public tender (concurso público). Through collaborative efforts, the Unit prioritized hiring for field support teams, laboratories, and research positions. With the public tender expected in 2025, the Unit anticipates operating with 186 employees upon completion.

Logistical Enhancements - September marked the inauguration of an on-site fuel station, designed to enhance employee safety by minimizing frequent trips to urban refueling stations and reduce operational costs through optimized vehicle usage. The facility features comprehensive surveillance and monitoring systems to track fuel consumption and ensure compliance with regulatory standards. Staff operating the station received specialized training to maintain safety and efficiency.

Strategic Research Planning - The Unit's annual Planning Week adopted an improved format in 2024, incorporating the participation of external stakeholders, focusing debates on research priorities and emerging demands, and providing targeted training sessions.

A dedicated workshop was also held to reorganize the research team structure. This initiative prioritized alignment with the 2024-2030 Strategic Plan (PDE) and Embrapa's Strategic Map, paving the way for the 2025 research agenda.

From discussions occurred at the Planning Week, Embrapa Suínos e Aves adopted a new organizational framework, under two primary platforms: Production and Environment Platform (PPMA) Health and Omics Sciences Platform (PSCO). This integrated approach will foster interdisciplinary collaboration, enabling projects with significant societal impact through synergies among complementary expertise areas.

PUBLICATIONS

Embrapa Suínos e Aves demonstrated strong technical output in 2024, meeting the information needs of diverse audiences while supporting high-impact public policies in Brazil. One example of this contribution is the publication of the Scientific Opinion Document on the application of risk-based inspection procedures in Brazil's poultry production chain. The document is a response to a request from the Ministry of Agriculture and Livestock (Mapa), represented by the Department of Inspection of Animal Products (Dipoa), presented to Embrapa in 2014.

This publication represents one stage of the project "Revision and modernization of ante-mortem and post-mortem inspection procedures applied in federal inspection chicken slaughterhouses," which evaluates all collected data and serves as a basis for executing the research's subsequent phases. In total, the document contains 27 chapters written by all project collaborators, including not only the Embrapa team but also specialists from the Federal University of Rio Grande do Sul (UFRGS), the University of São Paulo (USP), the Catarinense Federal Institute (IFC), and the Federal University of Fronteira Sul (UFFS). Technical teams from Mapa's Dipoa, Sipoas (Animal Product Inspection Services), and SIFs (Federal Inspection Services) also contributed.

Another highlight of 2024 was the launch of the Animal Production Waste Management book collection. This collection consists of three volumes totaling 744 pages and features contributions from 79 authors. The covered topics include "Recycling as fertilizer and soil quality," "Recycling as fertilizer and environmental impact," and "Management and treatment of waste in swine farming." These works are available for free download on the Embrapa Suínos e Aves website.

Embrapateca was another publication that served a wide audience. The first edition provided information about Sistrates and addressed topics such as avian influenza, good practices for Salmonella control, technical criteria for environmental licensing of pig farms, and the distance-learning course on broiler chicken and swine production costs. The Ciência Agora section presented recent Embrapa publications in technical-scientific journals. The second edition focused on the Swine and Poultry Intelligence Center (CIAS), offering information about accessing the production cost estimation spreadsheet, the Custo Fácil application, and studies on composting swine carcasses and modernizing sanitary inspection for broiler chicken slaughter.

18

technical-scientific
book chapters published

10

articles published in
specialized magazines

13

technical reports
edited



ACCESS ALL
EDITIONS OF
EMBRAPATECA

11

Embrapa's Documents
Series published

27

articles in conference
proceedings

14

abstracts in
conference
proceedings

3

brochures, leaflets, or
booklets published

7

books edited
or organized

40

articles published in
scientific journals

3

research &
development bulletins

CHECK OUT ALL
PUBLICATIONS
FROM EMBRAPA
SUÍNOS E AVES



SUSTAINABILITY IS A CENTRAL
RESEARCH THEME.



DEVELOPING A SUSTAINABILITY PROTOCOL FOR PIG PRODUCTION

T Sustainability in poultry and pig production has become a top priority for Embrapa Suínos e Aves. Through its Inova Program, the institution launched a 2024 initiative to develop Brazil's first collaborative sustainability protocol for pig production, from grain to industry. The Inova Programa initiative resulted in the Sustainable Pig Production in Brazil (SUSBra) Project.

The project gained momentum in June during a technical seminar at Embrapa's headquarters, where experts debated key challenges across three panels: Supplies, Animal Protein Production & Sustainability, and Decarbonization & National Policy. The event reinforced the idea of building the first sustainability protocol suited to the Brazilian pig production context.

Following the seminar, the Sustainable Pig Production in Brazil (SUSBra) Project was restructured and presented to

industry stakeholders, including the Brazilian Animal Protein Association (ABPA), the Brazilian Pig Producers Association (ABCS), agribusinesses, producers, and supply chain associations. Several meetings occurred to explain the importance of reaching indicators and metrics to assess sustainability in Brazilian pig production.

A pivotal discussion occurred at SIAVS 2024 in São Paulo, attended by Embrapa President Silvia Massruhá and Wageningen University researcher Robert Hoste (a project partner). The updated SUSBra proposal was presented and unanimously approved during a parallel session at SIAVS. Representatives of Embrapa and private sector also discussed and approved action plan set for completion by December 2025, including the formation of management, technical, and advisory committees linked to the sustainability protocol building.

Floating manure pit covers can reduce gas emissions in pig production farms

A new floating cover for manure pits, developed through a partnership between Embrapa Suínos e Aves and SER Brasil (a Nova Prata/RS-based plastic recycler), is set to enter the Brazilian market. The innovation aims to reduce greenhouse gas emissions, minimize odors, and enhance organic fertilizer quality. This collaboration marks the first technical agreement formalized under Embrapa's 2023/2024 Inova Program. Embrapa and SER Brasil intend to release the novelty in Brazil in the coming year.

Embrapa Suínos and Aves practices socio-environmental responsibility in its facilities

Embrapa Suínos e Aves extends beyond research projects its commitment to sustainability. It also permeates its processes and actions, embedding sustainability across its operations. Such a practice is exemplified by its closed-loop nutrient recycling system. For years, the unit has cultivated corn for livestock feed using pig waste as fertilizer—turning residues into resources.

Beyond the environmental benefits, this practice also provides significant economic results. In the 2023/2024 harvest, despite challenging climatic conditions in the Brazilian South — with excessive rainfall throughout the growing

cycle — an estimated US\$11,645.32 was saved on the acquisition of corn for herd feeding. Thus, the Unit reinforces its commitment to sustainability by transforming waste into agricultural inputs, meeting environmental demands, and optimizing resources in the production chain.

Another example is the Unit's recognition in receiving the A3P Monitoring Seal, granted by the Ministry of Environment and Climate Change (MMA). The award acknowledged effort made by partners who meet the criteria of the A3P Socio-environmental Responsibility Monitoring System, on the Ressoá Platform.

A **new**
chapter
is being
written
in our
story.



years



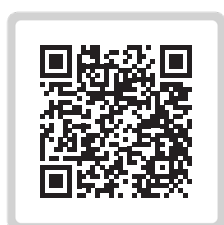
Suínos e Aves

STRATEGIC RESEARCH AGENDA

Embrapa Suínos e Aves's research agenda in 2024 comprised 42 projects under its leadership. In addition, Embrapa Suínos e Aves participated in 28 projects and initiatives led by other Embrapa's units and research institutions. Of these, 12 projects began in 2024, and 11 were finished during the last year.

The Unit's delivered 62 results to pig, poultry, and egg productions in total. These included 29 "pre-technological assets", such as databases, biological collections, technical-scientific methodologies, computerized procedures, and biotechnology-based assets.

Another contributions were 24 "technological assets", which covered agricultural/industrial processes, products, inputs, and software. There were also nine "innovation support" deliverables. These included information for public policy formulation and execution support, prospective studies, and socioeconomic impact assessments.



LEARN ABOUT
THE PROJECTS
OF EMBRAPA
SUÍNOS E AVES

Research agenda matches production chains demands

The prioritization of Embrapa Suínos e Aves' operational agenda for 2025 stems from an alignment effort conducted during Planning Week in September 2024. This process considered strategic documents—including the Embrapa Master Plan (2024–2030), Business Plan (2024), and Strategy (2024–2030)—as well as the Unit's proposed new research team structure, set to take effect in 2025.

The revised structure, pending approval by Embrapa's Executive Board, consolidates research into two platforms: Animal Production and Environment Platform (PPMA) and Health and Omics Sciences Platform (PSCO). These will replace the previous five Thematic Nuclei, fostering cross-disciplinary collaboration to deliver greater societal impact.

The PPMA takes a cross-cutting approach, addressing the Strategic Development Plan (PDE) 2024–2030 objectives. It targets 38 challenges and opportunities across three key themes: water reduction and reuse, AI for predictive systems, and chain traceability.

The PSCO, on the other hand, focuses more specifically on themes such as food safety and One Health, sustainable production and competitiveness, and emerging and disruptive technologies. A total of 14 challenges and opportunities were identified, spanning disease prediction, biosecurity tools, and rapid (accredited) diagnostic methods.



EMBRAPA PARTICIPATES IN DIFFERENT TECHNICAL WORKING GROUPS

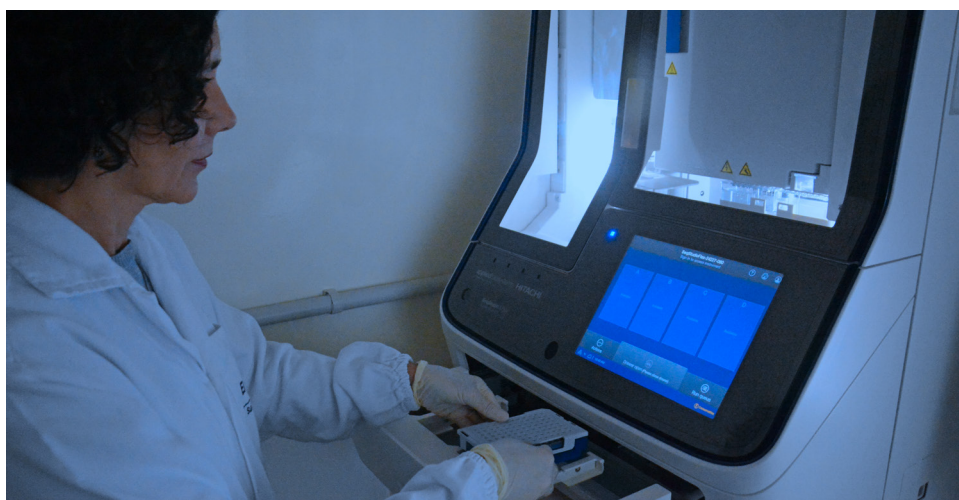
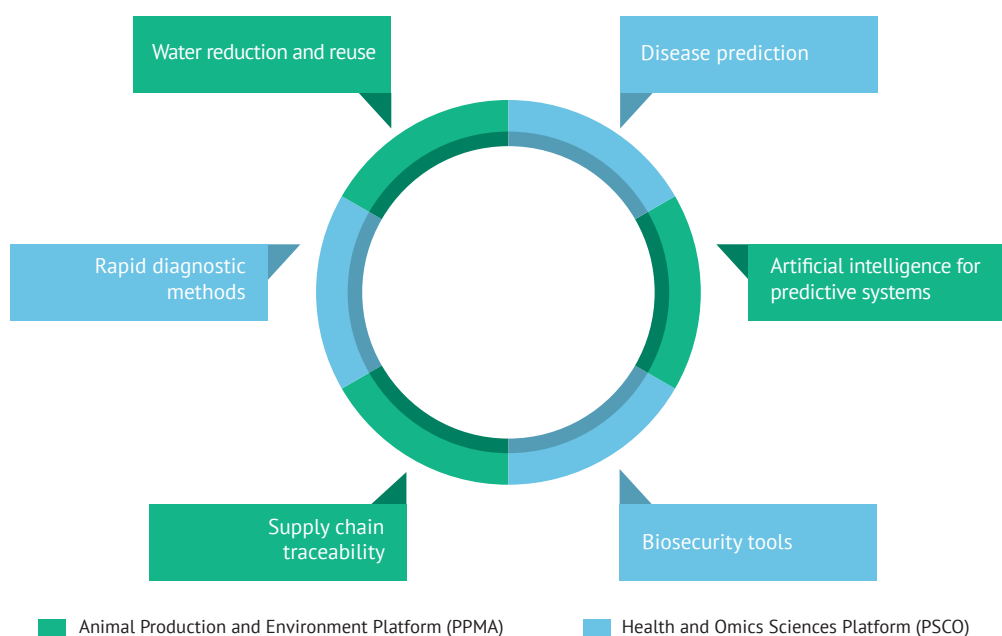
Embrapa Suínos e Aves actively contributed to several strategic initiatives through its technical team's participation in key working groups in 2024. One crucial contribution related to the Health and Welfare of Poultry in Production Systems Working Group (led by DSA/Ministry of Agriculture and Livestock). Another participation was in the Interministerial Working Group on Resilience in Value Chains, coordinated by the Ministry of Finance. Furthermore, the Unit joined the Working Group for the discussion, elaboration, and operationalization of the State Program for the Disposal of Carcasses and Waste from Non-Slaughtered Animals in the State of Santa Catarina.

R&D CHALLENGES

RESEARCH DIRECTION

Each platform established its operational priorities based on three guiding pillars:

- **Axis:** Grouping by thematic areas aligned with institutional vision.
- **Themes:** Internal identification of operational opportunities.
- **Challenges:** Consolidated demands from production value chains



The Unit also delivered nine outputs, which included support for public policy formulation and implementation, prospective studies, and socioeconomic and impact assessment analyses.



INTENSIVE ENGAGEMENT WITH PRODUCTION CHAINS

EMBRAPA SUÍNOS E AVES AND BIOPARK PARTNER TO ESTABLISH **WATER ANALYSIS LABORATORY**

During February's Show Rural Coopavel in Cascavel/PR, Embrapa Suínos e Aves and Biopark formalized a partnership to create, structure, and implement a reference laboratory for water and effluent analysis under the Mixed Unit for Research and Innovation - Umipi Oeste Paranaense. For installing the laboratory, located at Biopark in Toledo/PR, Embrapa Suínos e Aves assumed technical responsibility and, throughout the year, executed the three stages planned in the agreement: project conception, structural development, and laboratory implementation.

The main impact of the agreement is providing complete reference infrastructure for developing research projects focused on water reuse for agroindustrial production. This infrastructure will drive creating new solutions and public policies aimed at improving water resource utilization.

“Coffee with Vaccines” at Embrapa

Embrapa Suínos e Aves hosted the “Coffee with Vaccines” seminar in October, focusing on cutting-edge innovations in veterinary vaccine development and their applied implementation in animal health management. The technical program addressed emerging vaccine technologies, prophylactic intervention strategies, and therapeutic approaches for parasitic disease control.

Antimicrobial use and genetic resistance

Embrapa Suínos e Aves and the Federal University of Rio Grande do Sul (UFRGS) jointly conducted the workshop “Antimicrobial Use in Swine Farming: Agricultural Practices and Persistence of Resistance Genes in the Farm Environment.” The event presented research findings examining current swine production practices, antimicrobial usage patterns, and the environmental persistence of resistance genes and their ecological impacts.



PUBLIC POLICIES DEVELOPEMENT AS A KEY DELIVERABLE

SANITARY ASSESSMENT PROCEDURE FOR CHICKEN SLAUGHTER IS REGULATED IN BRAZIL

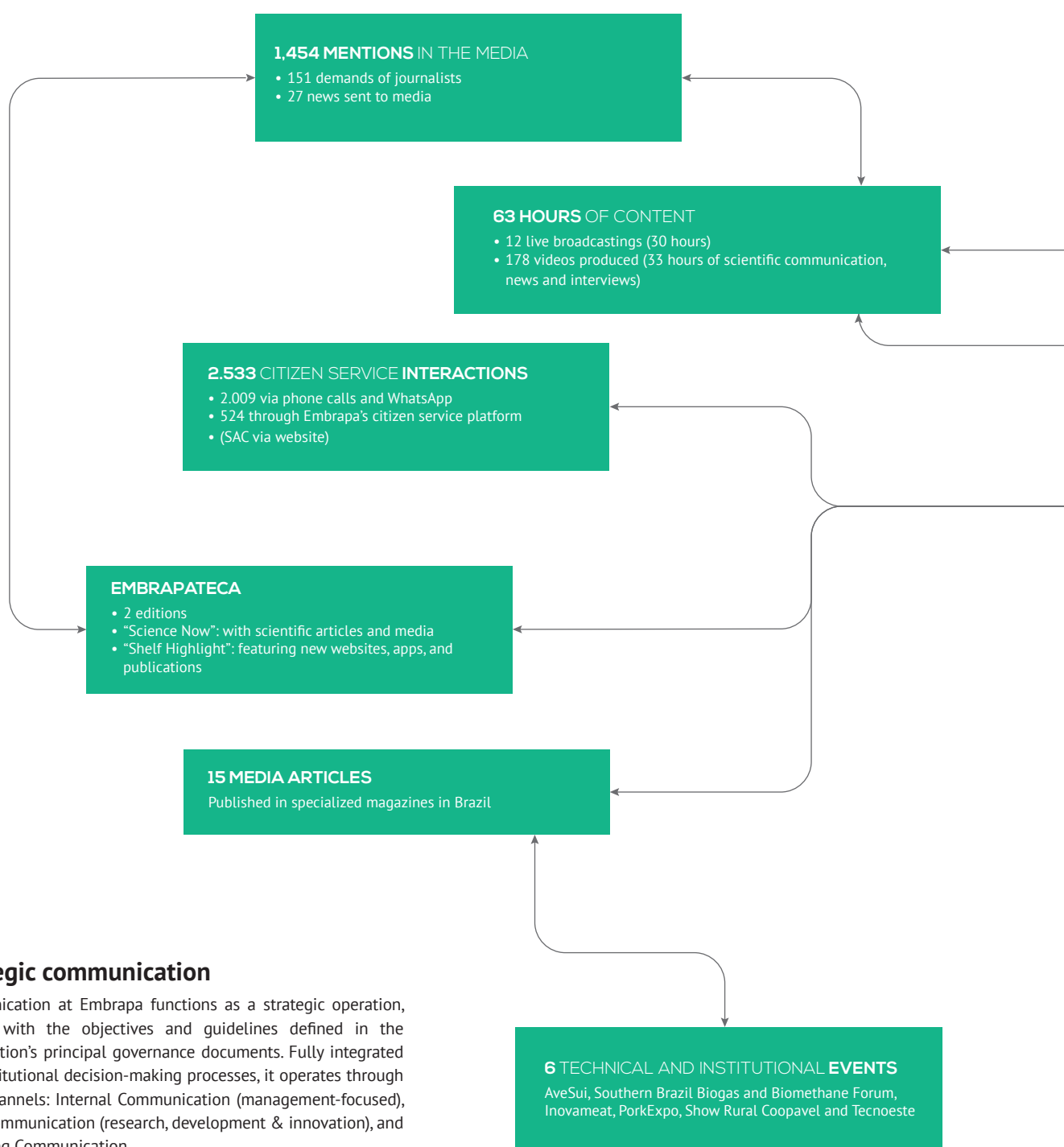
Based on research conducted by Embrapa Suínos e Aves, Brazil's Federal Inspection System (SIF) under the Ministry of Agriculture and Livestock (Mapa) implemented a new contamination risk assessment protocol for chicken meat in March 2024. This updated procedure enhances slaughterhouse self-monitoring controls by specifically tracking hygiene indicators in the slaughter process, with particular emphasis on Enterobacteriaceae thresholds. These bacteria serve as critical hygiene markers and potential Salmonella indicators - a leading cause of carcass condemnation.

The regulatory change was officially established through SDA/Mapa Ordinance No. 1,023 (published February 29, 2024) and applies to all SIF-registered slaughterhouses under the jurisdiction of Mapa's Department of Animal Product Inspection (Dípoa), operating within the Secretariat of Agricultural Defense framework.

Risk-based inspection project presents results in workshop conducted by Embrapa and ABPA

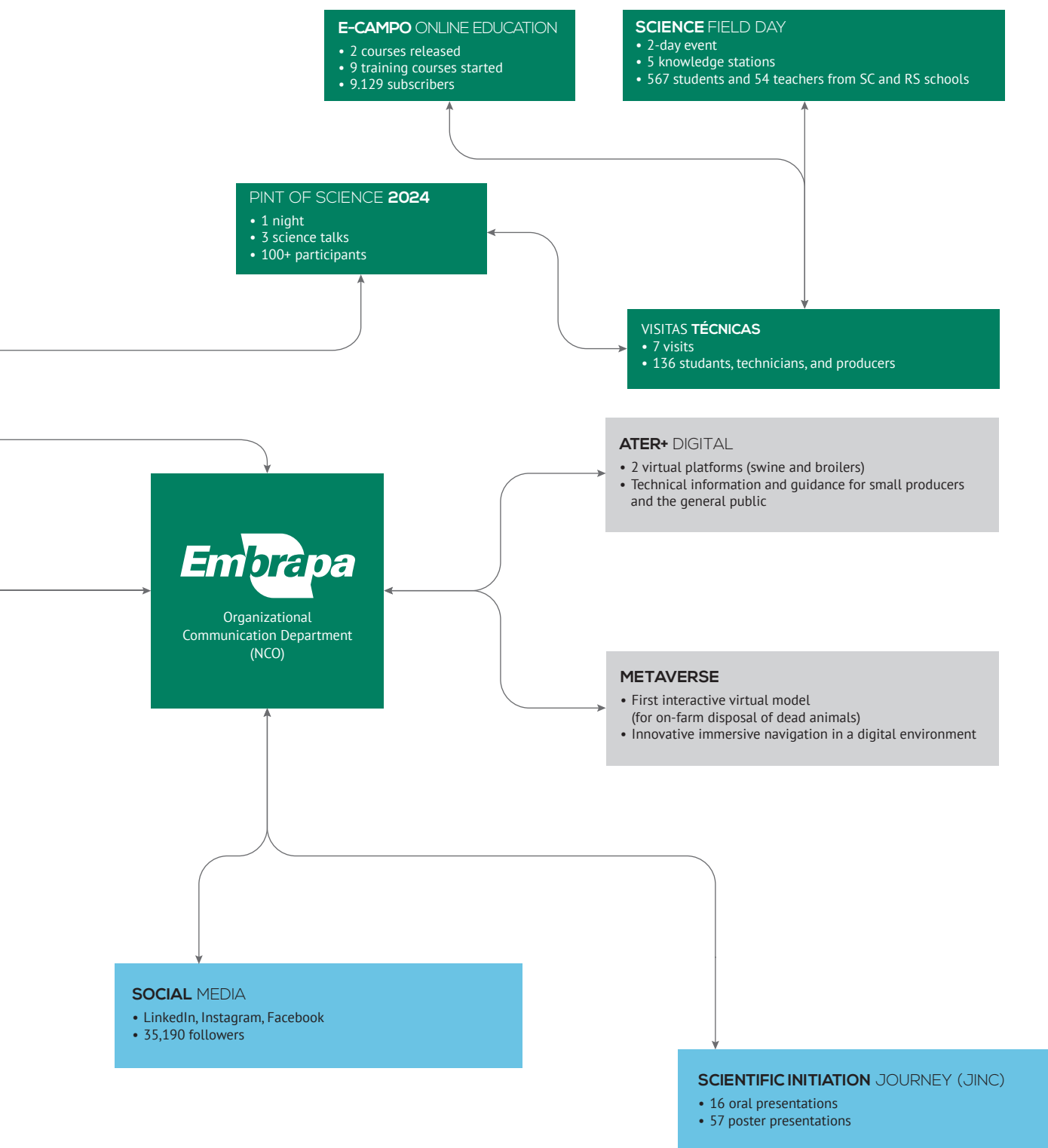
In February 2024, Embrapa Suínos e Aves, in collaboration with the Brazilian Animal Protein Association (ABPA), conducted the workshop "Risk-Based Inspection Applied to Swine Slaughter in Brazil." The event sought to advance scientific understanding of modernized sanitary inspection protocols for swine slaughterhouses, with particular focus on risk-based inspection methodologies. Participants included federal agricultural auditors, agribusiness representatives, researchers, and technical analysts. The workshop comprised three distinct sessions: 1) a closed session for SIF (Federal Inspection System) personnel and Embrapa staff, focusing on updates to IN79 regulations governing ante-mortem and post-mortem swine inspection procedures; 2) an open session on implementing risk-based inspection systems; and 3) a technical session addressing standardization of risk assessment criteria.

ACCESSIBLE COMMUNICATION ADAPTED TO AUDIENCES



Strategic communication

Communication at Embrapa functions as a strategic operation, aligned with the objectives and guidelines defined in the organization's principal governance documents. Fully integrated into institutional decision-making processes, it operates through three channels: Internal Communication (management-focused), RD&I Communication (research, development & innovation), and Marketing Communication.



TECHNOLOGY AND SERVICES ACCESSIBLE TO ALL

Brazil exports first shipment of Embrapa's genetics products to Angola's producers

A historic milestone for Brazilian poultry production was achieved in January 2024 with the first export of poultry genetics to Angola. This accomplishment was realized by West Aves, which shipped African-bound poultry stock derived from Embrapa Suínos e Aves' developed lineages: the Embrapa 021 industrial broiler chickens and Embrapa 031 industrial laying hens. This breakthrough represents the culmination of years of research, delivering market-ready genetics with high productive potential, superior end-product quality, and critically, robust biosecurity standards.

The Embrapa-West Aves partnership originated in 2022 through a licensing agreement authorizing the multiplication and commercialization of the research center's poultry lineages. Concurrently, both entities established a technical cooperation agreement for collaborative development of new poultry genetic lines.

This strategic alliance aims to produce and commercialize Brazilian poultry genetics across major production hubs, simultaneously enhancing domestic food security while expanding production capabilities in Brazil's North and Northeast regions.

Hubs integrate the Ater+ Digital Platform focused on Brazilian smallholders

In 2024, Embrapa Suínos e Aves implemented two specialized portals within the Ater+Digital platform. The Swine Production Hub was launched in May as the initiative's first offering, followed by the Broiler Production Hub in October. Developed through a collaborative agreement with Brazil's Ministry of Agrarian Development and Family Farming (MDA) and Ministry of Agriculture and Livestock (Mapa), these digital hubs provide streamlined access to technical knowledge on small-scale swine and poultry production through both mobile and desktop interfaces.

Embrapa Suínos e Aves integrates activities related to the Recupera RS Program

Embrapa Suínos e Aves is actively participating in the Recupera RS initiative, a comprehensive recovery program addressing the 2024 floods and climate crisis impacts in Rio Grande do Sul. The Unit's contributions focus on water-related challenges, encompassing hydrological mapping, sample collection, diagnostic assessments, and recovery recommendations. It also relates One Health-aligned interventions, including risk evaluation of human/animal exposure to contaminated water, zoonotic disease analysis, sanitary recovery diagnostics, and biosecurity protocols.



PROTOCOL VALIDATION FOR BIOSECURITY ON SWINE PRODUCTION FARMS

Embrapa Suínos e Aves established technical cooperation agreements with Frimesa Cooperativa Central and the Paraná Agricultural Defense Agency (Adapar) to validate an application, based on a multi-criteria model, for evaluating biosecurity on swine farms. In 2024, technical meetings were held to present a prototype, discuss criteria, and apply pilot evaluations on selected farms. The application is being developed as a tool to improve production management by coordinated production systems, such as agribusinesses and cooperatives, and by entities involved in sanitary defense.

PRODUCTION WASTE

SEMINARS PRESENT SOLUTIONS FOR THE **DISPOSAL OF ANIMAL CARCASSES**

As part of a strategy to discuss topics of interest and impact on swine production in Santa Catarina, Embrapa Suínos e Aves, in partnership with Epagri and with the support of the Santa Catarina Pig Producers Association (ACCS), held eight seminars across distinct regions of the state, reaching 470 participants. The main theme focused on technologies for the disposal and treatment of animal production waste, particularly the disposal of non-slaughtered animal carcasses.

The first event took place in April in Chapecó. The seminar, titled “Technologies for the Disposal of Non-Slaughtered Animal Carcasses,” aimed to discuss efficient strategies for the proper treatment of animal carcasses, addressing both environmental concerns and animal welfare. The event targeted Technical Assistance and Rural Extension (Ater) agents, technicians, producers, agribusiness representatives, and entities linked to the swine production chain.

In July and August, seminars were held in Braço do Norte and Agronômica, presenting technical solutions for animal carcass disposal to Ater agents, technicians, producers, agribusinesses, and stakeholders in the swine and poultry production chains. Another event on the same topic took place in August in São Lourenço do Oeste.

In September, a seminar was held in Xanxerê, followed by another in October in Videira at the Epagri Experimental Station auditorium. Finally, in December, two seminars concluded the year's agenda: one at the Embrapa Suínos e Aves headquarters in Concórdia and the other in São Miguel do Oeste at the Conder auditorium.

Biogas solutions and pig farming integrate field day themes in Rio Grande do Sul

One of Embrapa Suínos e Aves' technology transfer strategies is organizing field days. In 2024, Rio Grande do Sul hosted two such events. In February, around 40 technicians from Emater, local government, and agribusiness attended the field day “Biogas: From Substrate Management to Biodigester Operation” in Palmitinho.

The event aimed to improve participants knowledge in biodigester operation, substrate management, biogas treatment, and the proper agricultural use of digestate. In addition to theoretical sessions, a technical visit was conducted at Acadroli Farm in Pinhal. The event was a partnership between Embrapa and Emater/RS.

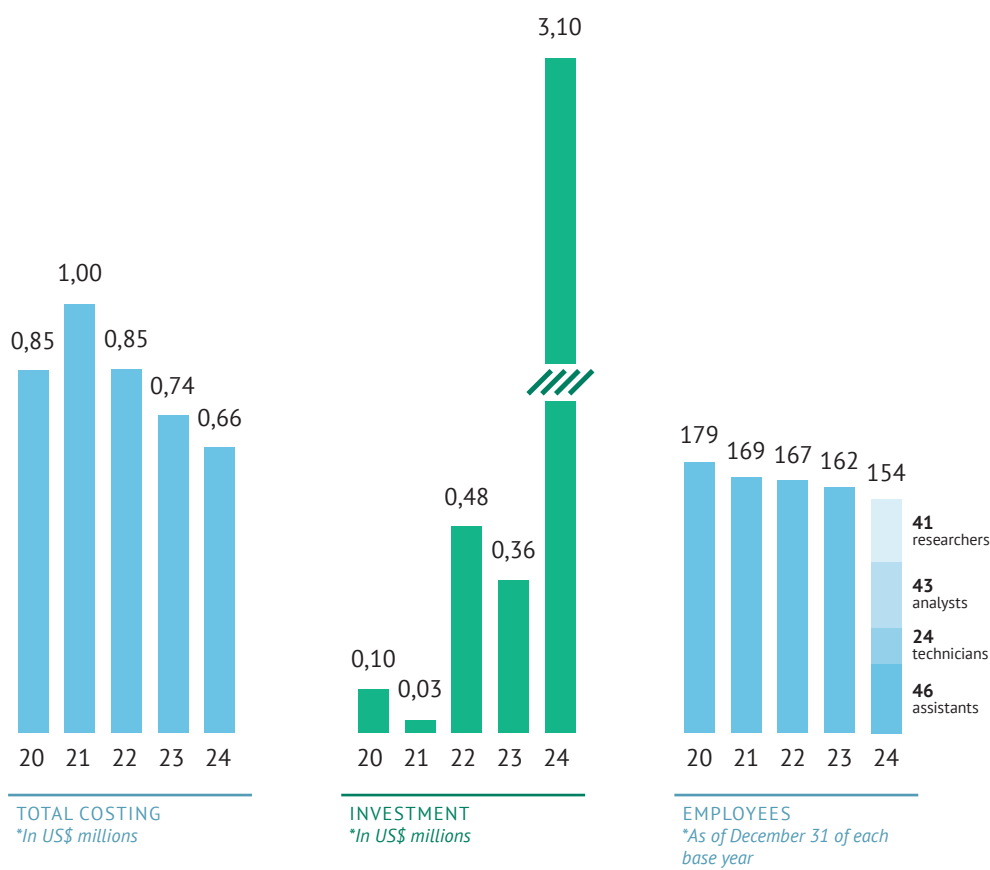
On April 25, Embrapa technicians participated in the Pig Farming Field Day in Rodeio Bonito, also organized by Emater/RS. The event featured five knowledge stations, two of which covered Embrapa-related topics: 1) Water management in swine farming; and 2) Biodigesters for energy generation.

Field day on co-digestion and biogas production occurred in Toledo

As part of the parallel program for Inovameat, Embrapa held the field day “Co-Digestion of Energy Crops and Animal Production Waste for Biogas Production” in April. The event was coordinated by Embrapa under a collaborative project involving Embrapa Suínos e Aves (Concórdia/SC), Embrapa Milho e Sorgo (Sete Lagoas/MG), and Embrapa Gado de Leite (Juiz de Fora/MG).

Held at the Biokholer property in Toledo/PR, the event included three technical stations, which were best practices for ensiling and mixing energy crops with animal waste in biodigesters, cultivation of elephant grass for biogas production, and cultivation of sorghum for biogas production. The event aimed to demonstrate strategies for utilizing energy crops and animal waste in biogas production.

EVOLUTION OF COSTING, INVESTMENT AND STAFF EVOLUTION BETWEEN 2020-2024



EMBRAPA SUÍNOS E AVES' INDIRECT REVENUE FROM 2020-2024

*From 2020, expenses executed are taken into account instead of the revenue reached throughout the year. Values in US Dollars (US\$).

Revenue	2020	2021	2022	2023	2024
Events revenue/Technology Transfer	28,427.34	15,308.82	39,052.17	25,667.21	36,492.41
Research Support Foundations	274,741.63	783,656.61	421,038.27	388,468.97	621,885.89
Coperdia Pig and Poultry Contract Farming	405,862.61	582,458.38	455,540.74	318,979.63	348,274.00
Other partnerships	136,338.10	-	121,848.76	221,443.92	168,971.76
Deputy Chamber extra budget	87,973.72	-	88,166.04	-	70,489.03
Scholarships	25,609.52	54,811.29	71,985.36	137,238.27	179,180.96
Total	958,952.91	1,436,235.10	1,197,631.35	1,091,797.99	1,425,294.05

Investments

US\$ 3,1 MILLION IN IMPROVEMENTS IN 2024

Description	US\$
Laboratory equipment	2,123,977.90
Works and projects	796,158.50
Vehicles	152,192.92
IT, audio and video equipment	21,092.22
Other Experimental Field equipment	7,378.55
Total	3,101,829.10

Breakdown of investment execution

Description	US\$
PAC Embrapa	2,760,875.64
Recupera-RS	163,170.33
Embrapa	124,179.72
Deputy Chamber extra budget	52,603.41
Total	3,101,829.10

Embrapa Genetics

MARKET SHARE IN 2024



Laying Hen 051

3,44 million
sold hens

13% of the brown eggs sold
in the Brazilian market



Swine MS115

152 boars
sold

1,8% of the boars sold in
the Brazilian market



LEARN MORE ABOUT
THE 051 LAYING
HEN AND THE
MS115 BOAR



PRODUCTION PERFORMANCE – 2024



15.31 million
tons of meat

2nd in production | ▲2,5% (2024/2023)
1st in exports | ▲2,9% (2024/2023)



5.33 million
tons of meat

4th in production | ▲0,6% (2024/2023)
3rd in exports | ▲8,9% (2024/2023)



55.85 billion
units

6th in production | ▲12,7% (2024/2023)
8th in exports | ▼27,4% (2024/2023)



0.13 million
tons of meat

5th in production | ▲4,7% (2024/2023)
3rd in exports | ▼8,0% (2024/2023)

Poultry and Swine Intelligence Center updates statistics, maps, and infographics

The Poultry and Swine Intelligence Center (CIAS) has undergone a major revamp, including a reorganized statistics section. Data on pig production, broiler-chicken production, and table-egg production now each have a dedicated page for clearer navigation within their respective supply chains.

An introductory infographic highlights the previous year's key indicators, such as slaughter volumes, production figures, export data, domestic market availability, and per-capita consumption. The update also introduces 10-year historical-series charts for these metrics, along with insights on herd evolution, Brazil's global market share, gross production value, and number of formal jobs. Additional comparative charts display the market shares of the world's top producing, exporting, and importing countries for eggs, chicken meat, and pork.

A key highlight is the release of pig production-cost data from the principal producing countries, presented during the annual InterPIG group meeting. Furthermore, monthly updates are now available for broiler production costs and pig production costs across Brazil's leading producing and exporting states.

Sources: ABPA, Agrostat, Conab, IBGE, FAOSTAT, and USDA.

*Brazil's ranking considers the European Union as a single country. For turkeys, data refers to 2023. **Egg production estimated from PPM/IBGE 2023 and POG/IBGE 2024.



VISIT THE
POULTRY AND
PIG INTELLIGENCE
CENTER WEB
PAGE
FOR MORE
STATISTICS

Rodovia BR 153 - km 110 +55 49 3441 0400
Caixa Postal 321 embrapa.br/suinos-e-aves
Concórdia | SC | Brazil embrapa.br/fale-conosco/sac



MINISTÉRIO DA
AGRICULTURA E
PECUÁRIA

