

Buenos Aires 23-25 March, 2009

# Production Sector Perspectives and Experiences: PIGS BRASIL

**ABIPECS**

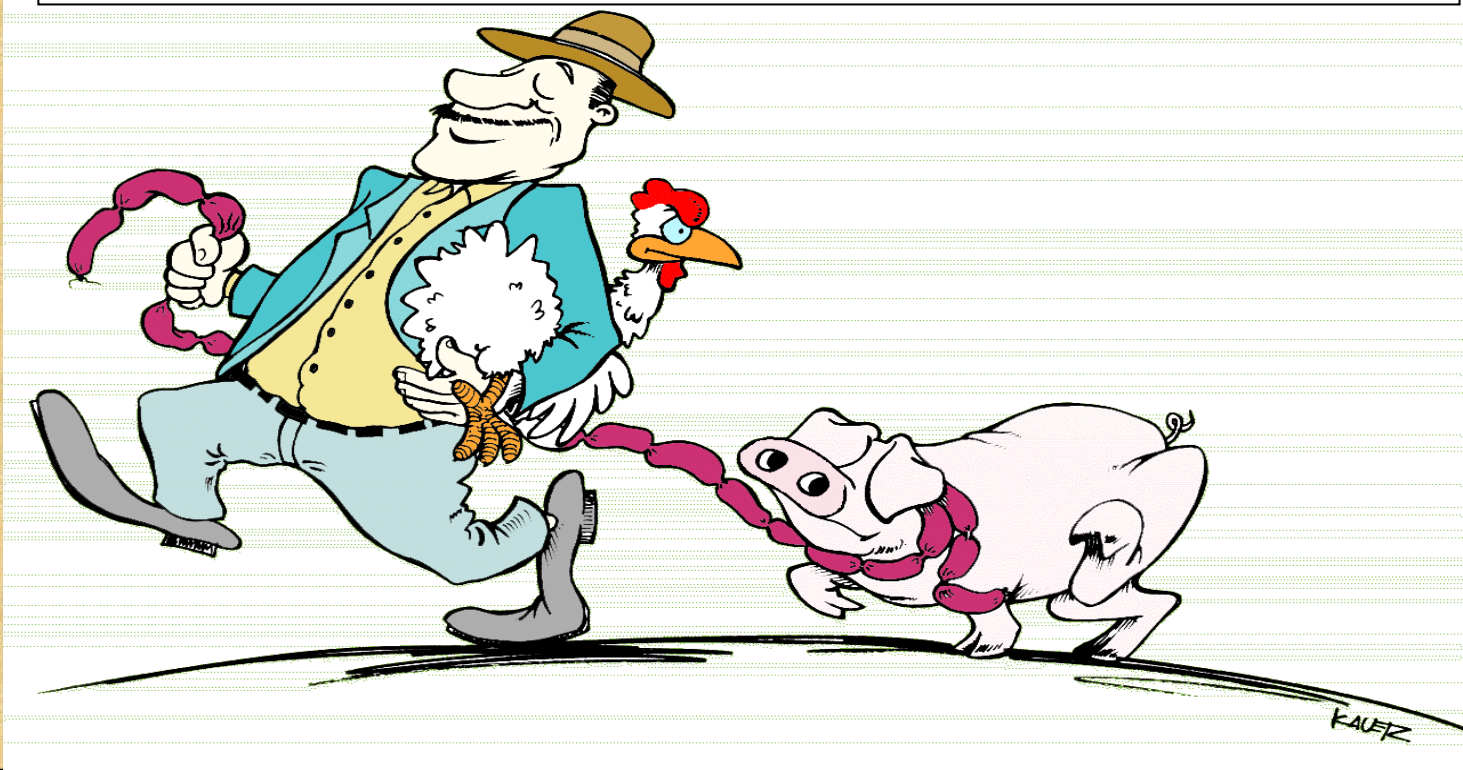
Brazilian Pork Industry and Exporter Association

**Rui Eduardo Saldanha Vargas**

Director

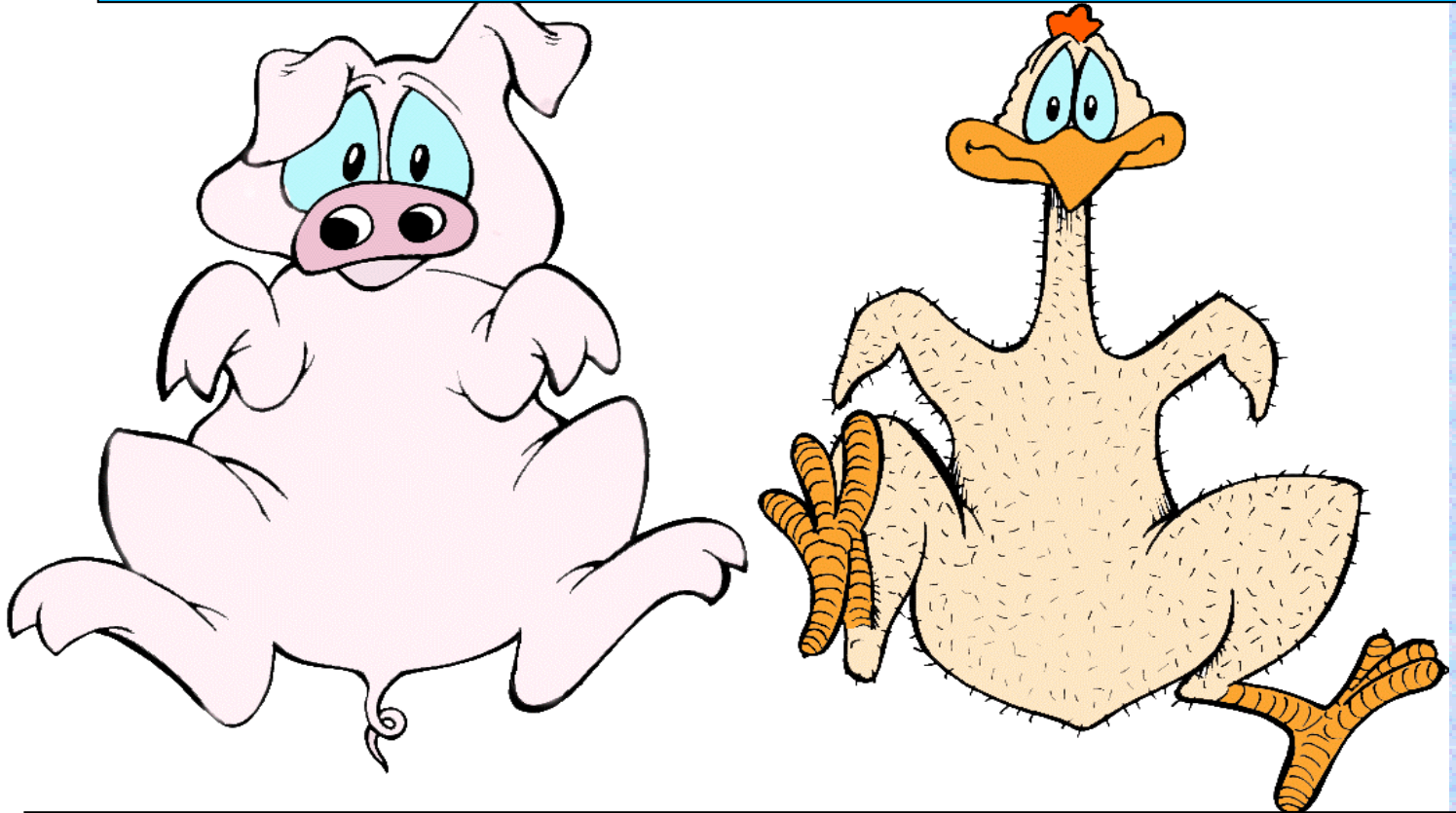
The Thirties – 30s

Slaughter in the farm and pre industrial times



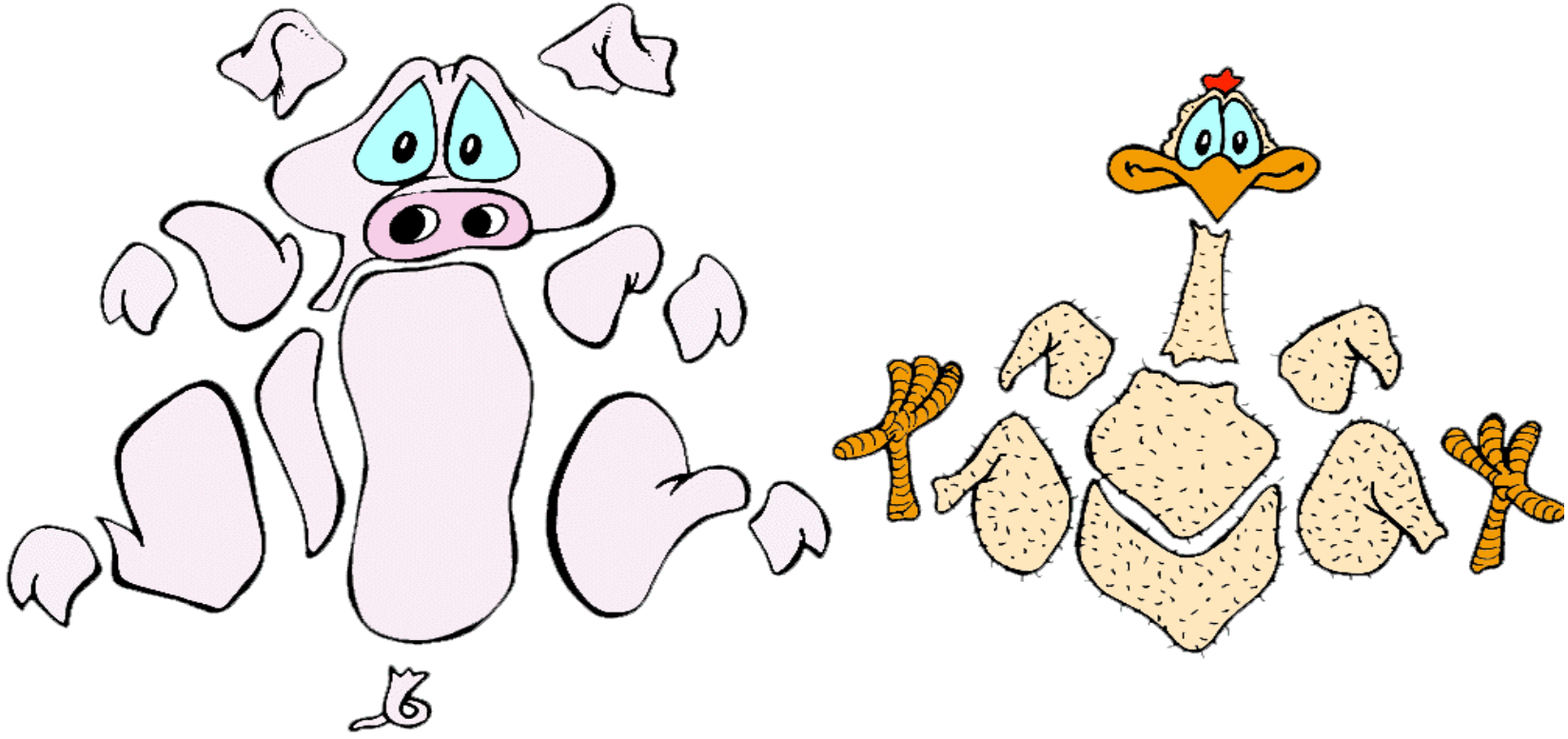
The forties (40s) up to seventies(70s)

Industries show up slowly and consumption growing up



The eighties – 80s

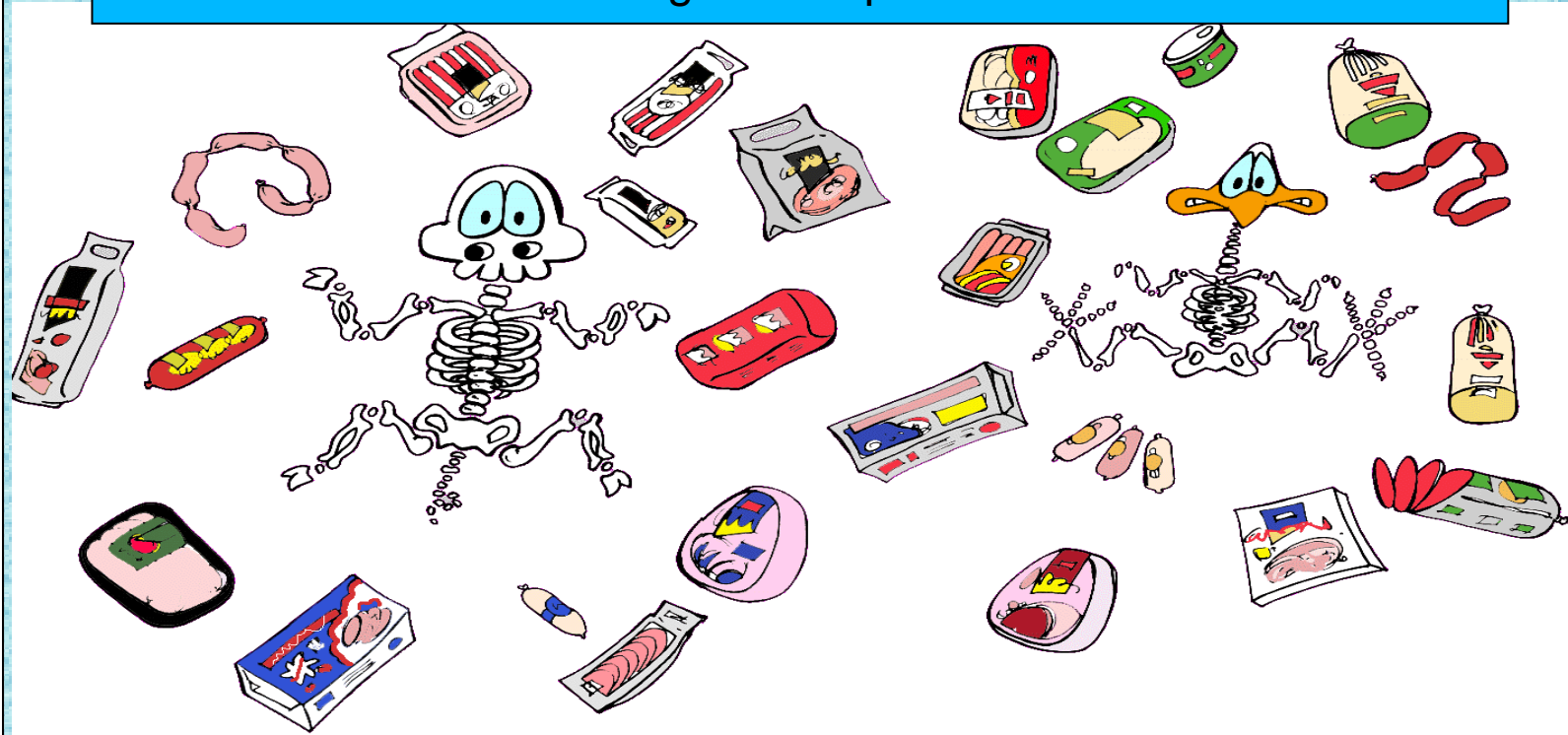
Coming up frozen meat and commercial cuts



# The nineties - 90s

Processed meats

Consumer is the “king” and supermarket is his “castle”



# TRACEABILITY

- The possibility of tracing products back along the production process chain has attracted much interest in the different sectors of economy world-wide, since 1990s.
- Several technologies are applied to improving the pork supply chain
- Ensuring quality in a demanding world



# Pig Production Integrated System

## Production

### BREEDERS FARM SEMEN



### PIGLET PRODUCTION UNIT



### NURSERY



### GROWING FARM



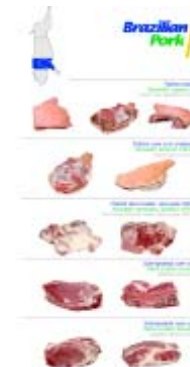
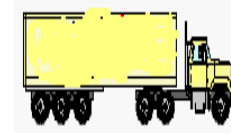
### CC



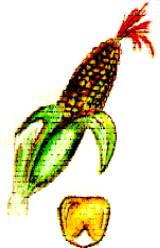
## Slaughter house



## Distribution



## Market



FEED

# TRACEABILITY

- Why I need traceability?
- What means this tool in the production chain?
- How we can reach the quality level demanded by the consumer using this tool?



# TRACEABILITY

- One more pompous name and whose real meaning is not fully understood.
- What I gain with it?
- Traceability demands could be seen by the players of pig production chain as a restriction because its costs.

# TRACEABILITY

- In the current production of animals for slaughter, the word fashion is **Traceability**
- Everybody seeks, wants and says it, but few know exactly what traceability means and **WHAT** is involved in operating a system.
- May be some have a little more understanding about the direct benefits traceability can bring but most people see this term with **INDIFFERENCE** and as a **FASHIONABLE** word

# TRACEABILITY

- Then, with clear concepts of traceability, focusing on pork we can now elucidate the benefits that this process provides to meat production chains.
- We can not deny the great challenge of tracing meat within the standards demanded by international markets, mainly for the pork chain wich is very technical and complex

# TRACEABILITY

- For effective implementation and maintenance of traceability, huge articulation and coordination between links in the chain is necessary.
- The active involvement of everybody is of the essence, from the producer to the consumer, as each one is responsible for part of the information within that process.

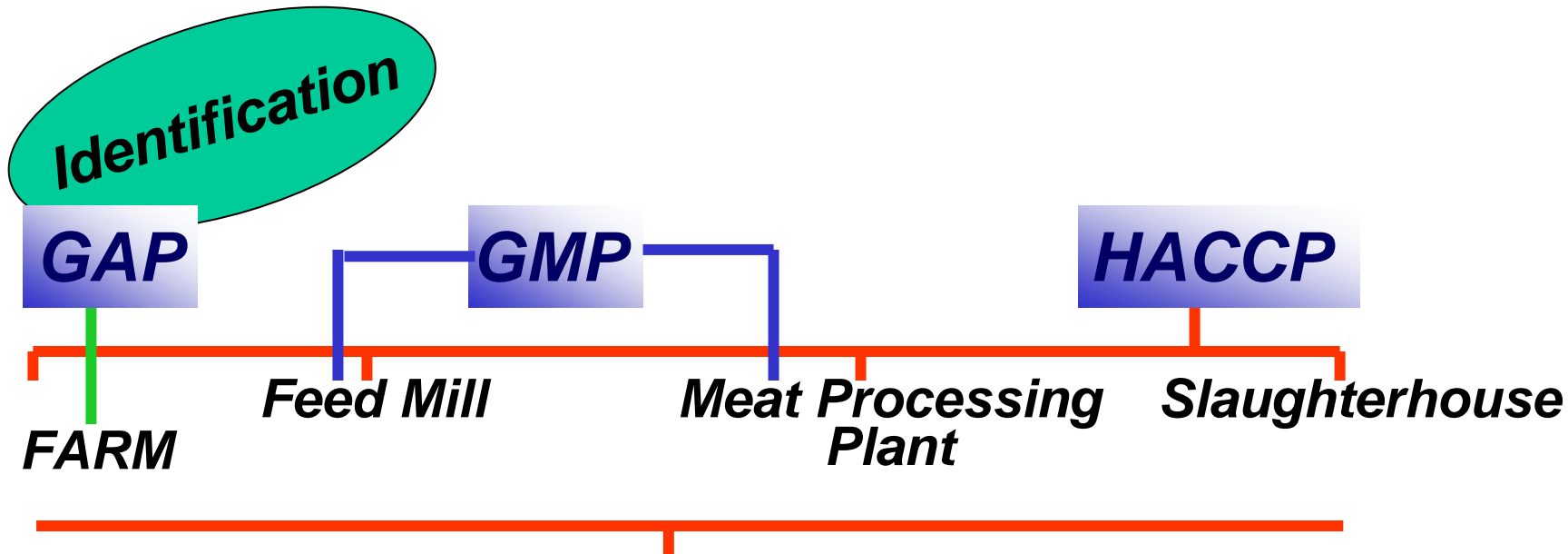
# TRACEABILITY

- So, instead to trying to answer the question “What do I gain with this traceability” try answering “ What do I have within my reach to ensure its effective implementation”
- Players > feed and pig producer, industry, government authorities and consumers



# FOOD CHAIN REQUIREMENTS

## GLOBAL SCENARIO



**Animal Welfare  
Environment**

**Residues e  
Animal Health**

**Veterinary  
Drugs and  
Pesticides  
at farm level**

**TRACEABILITY**

**FINAL  
PRODUCT**

**GMP**

**SSOP**

**PIG/HERD**

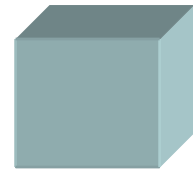
**Farm**

**Slaughterhouse**

**HACCP**

**2**

**1**

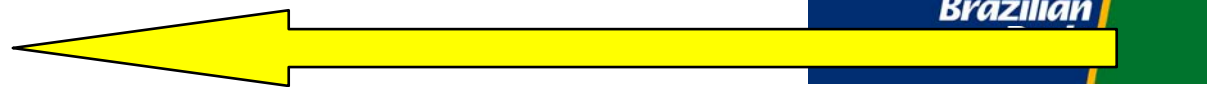


**Quality Standards**

**TRACEABILITY**

**Genetic  
Feed  
Management  
Health**

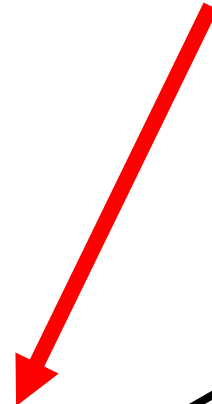
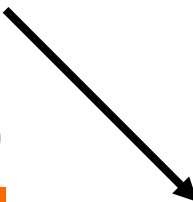
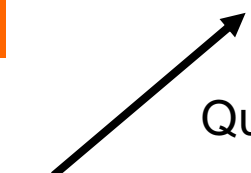
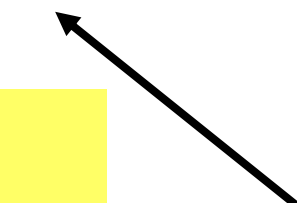
**Brazilian**



**3**

**2**

**1**

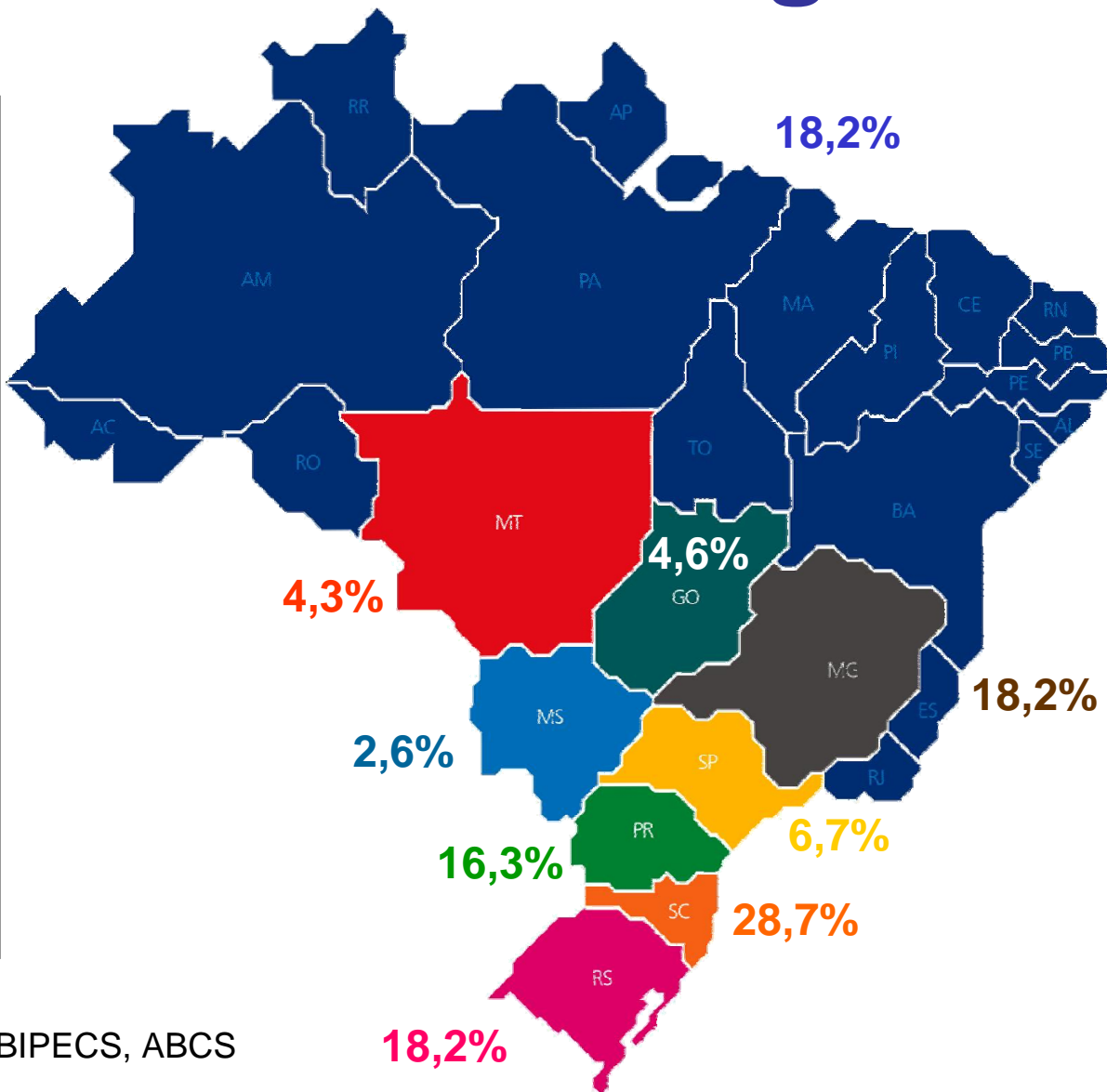


# Overview Brazilian Pork Production

Brazilian pork is the fourth place in  
the exporting countries ranking

# Swine Production – Per region

State	Part. % <b>2007</b>	Part. % 2009 *	Var. %
RS	18,2	19,7	+8,2
SC	28,7	26,6	-7,3
PR	16,3	15,3	-6,1
SP	6,7	6,5	-3,0
MG	12,9	13,7	+6,2
MT	4,3	4,2	-2,3
GO	4,6	4,8	+4,3
MS	2,6	2,6	0,0
Others	5,7	6,4	+15,8

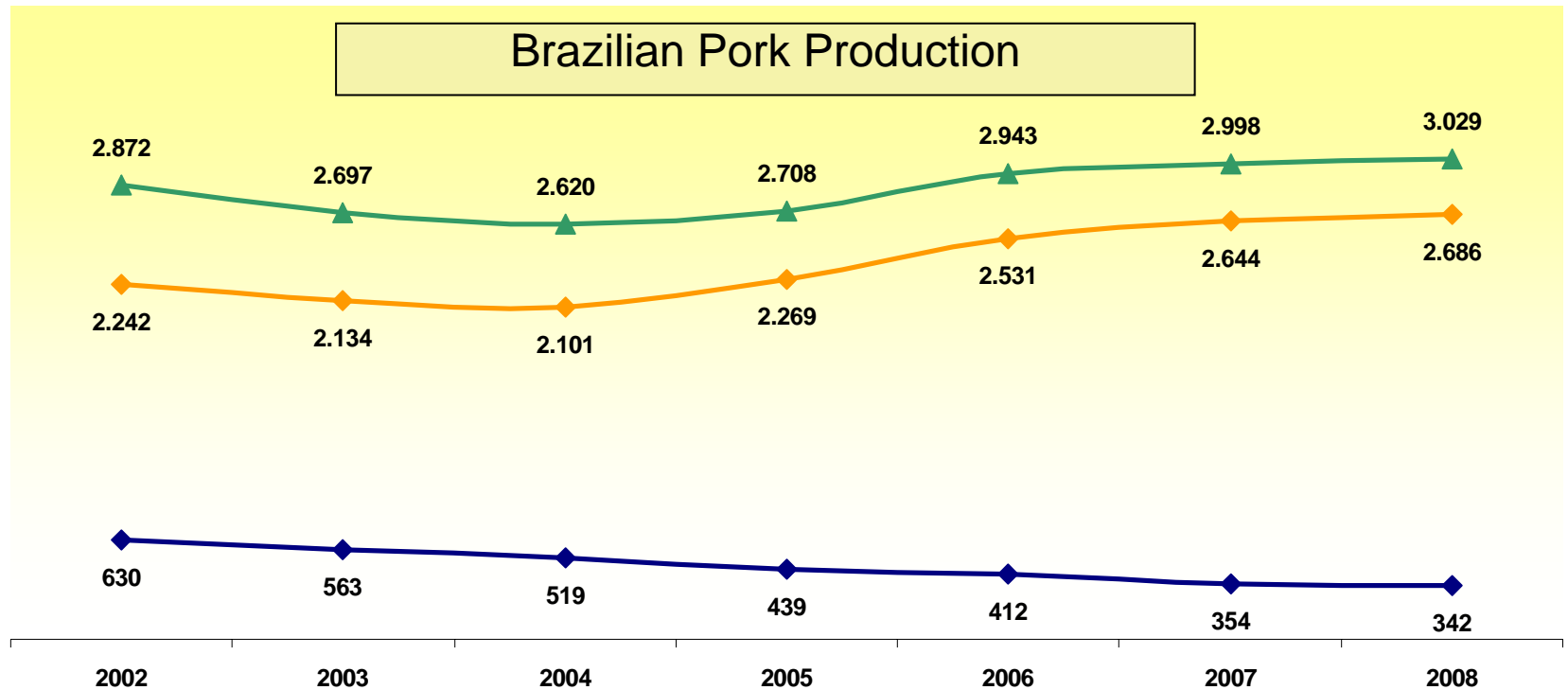


\* Forecast

Source: ABIPECS, ABCS

# BRAZILIAN PORK PRODUCTION

(thousands of tonnes)



Fonte: LSPS - Abipecs, Embrapa e Sindicatos da Indústria da Carne Suína.

—◆— suinocultura industrial —◆— suinocultura de subsistência —▲— suinocultura total

↓  
Industrial  
Production

↓  
Subsistence

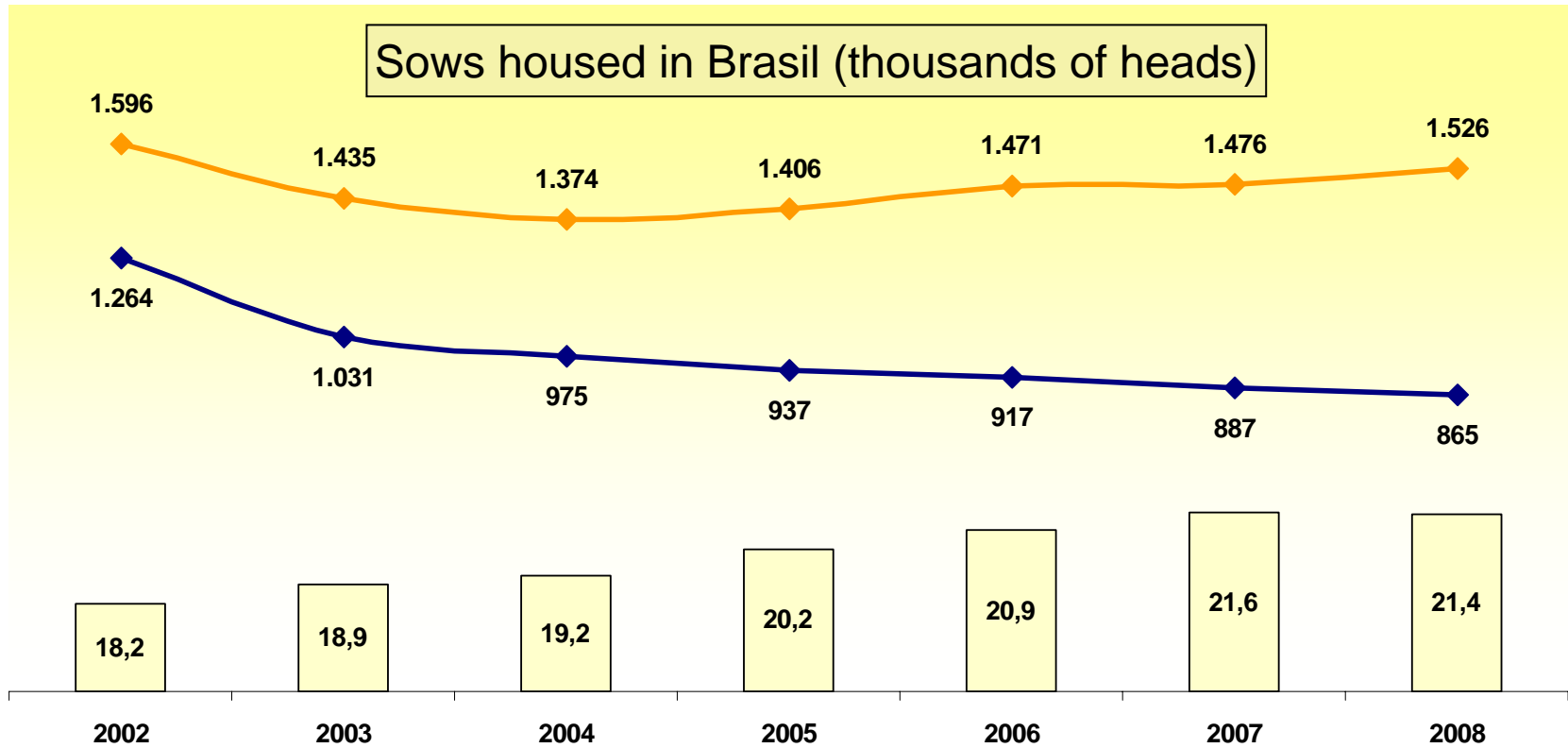
↓  
Total  
Production

**abipecs**

**Brazilian  
Pork**



# HERD



Fonte: Abipecs e Embrapa - Levantamento Sistemático da Produção e Abate de Suínos (LSPS)

\* estimativa \*\* previsão

□ produtividade industrial (terminados/matriz/ano) —●— rebanho industrial —◆— rebanho de subsistência



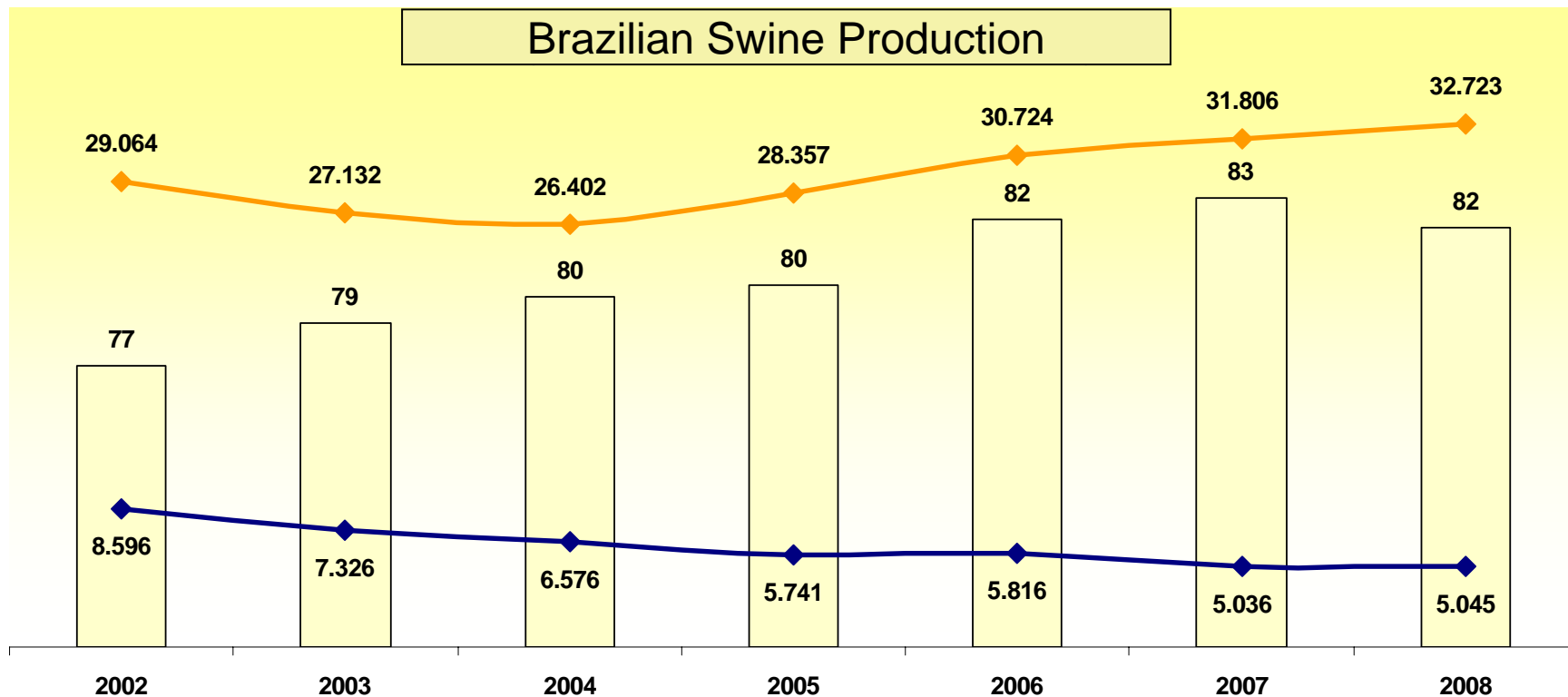
Industrial Productivity  
(finished/sows/year)

Industrial herd

Subsistence herd



# Brazilian Swine Production (thousands of head)



Fonte: LSPS - Abipecs, Embrapa e Sindicatos da Indústria da Carne Suína.

peso de carcaça (kg)
  suinocultura industrial
  suinocultura de subsistência

↓  
Carcass weight

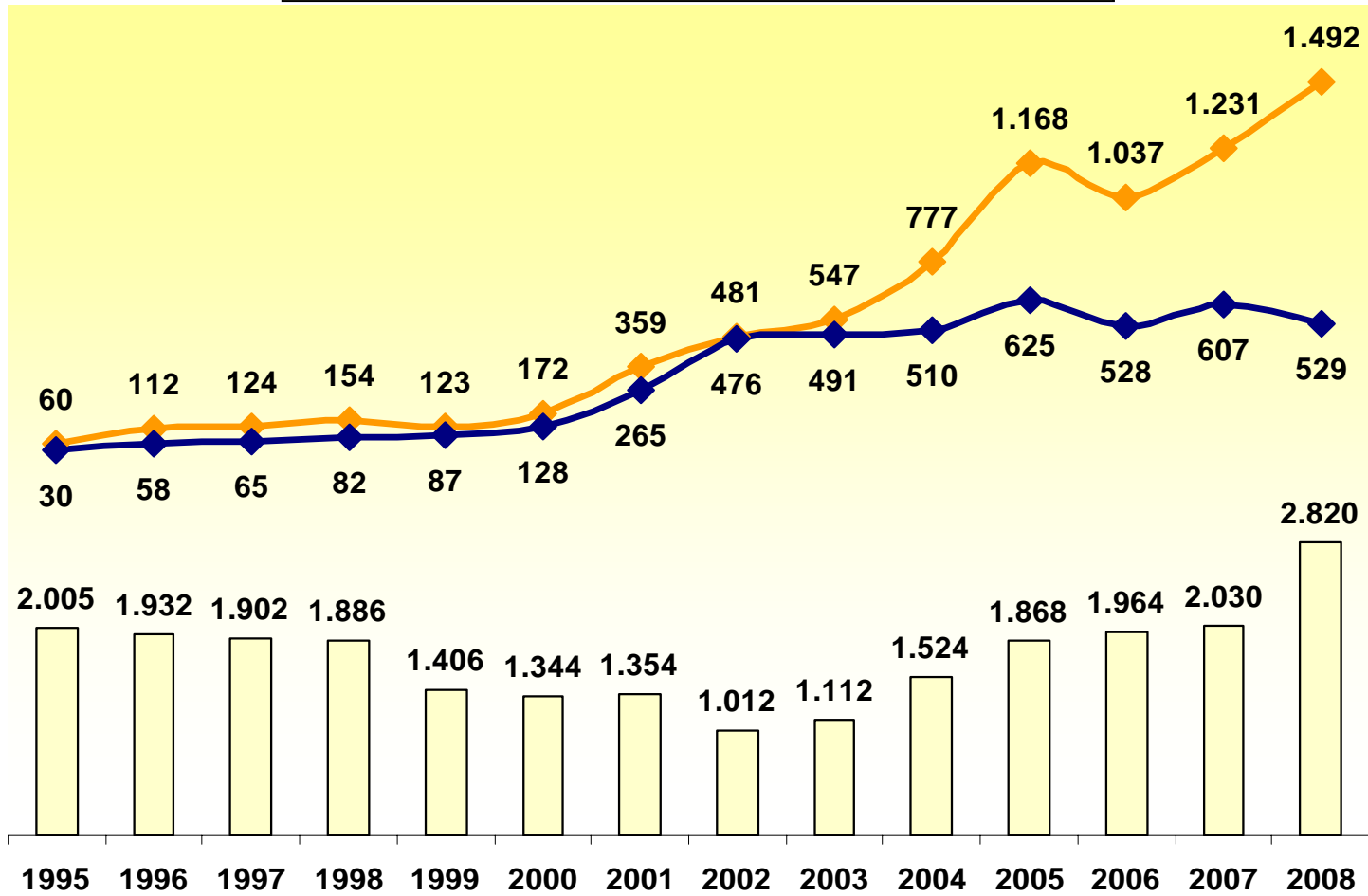
↓  
Industrial Production

↓  
Substance Production



# EXPORTS

Brazilian Pork Exports



Fonte: Abipecs

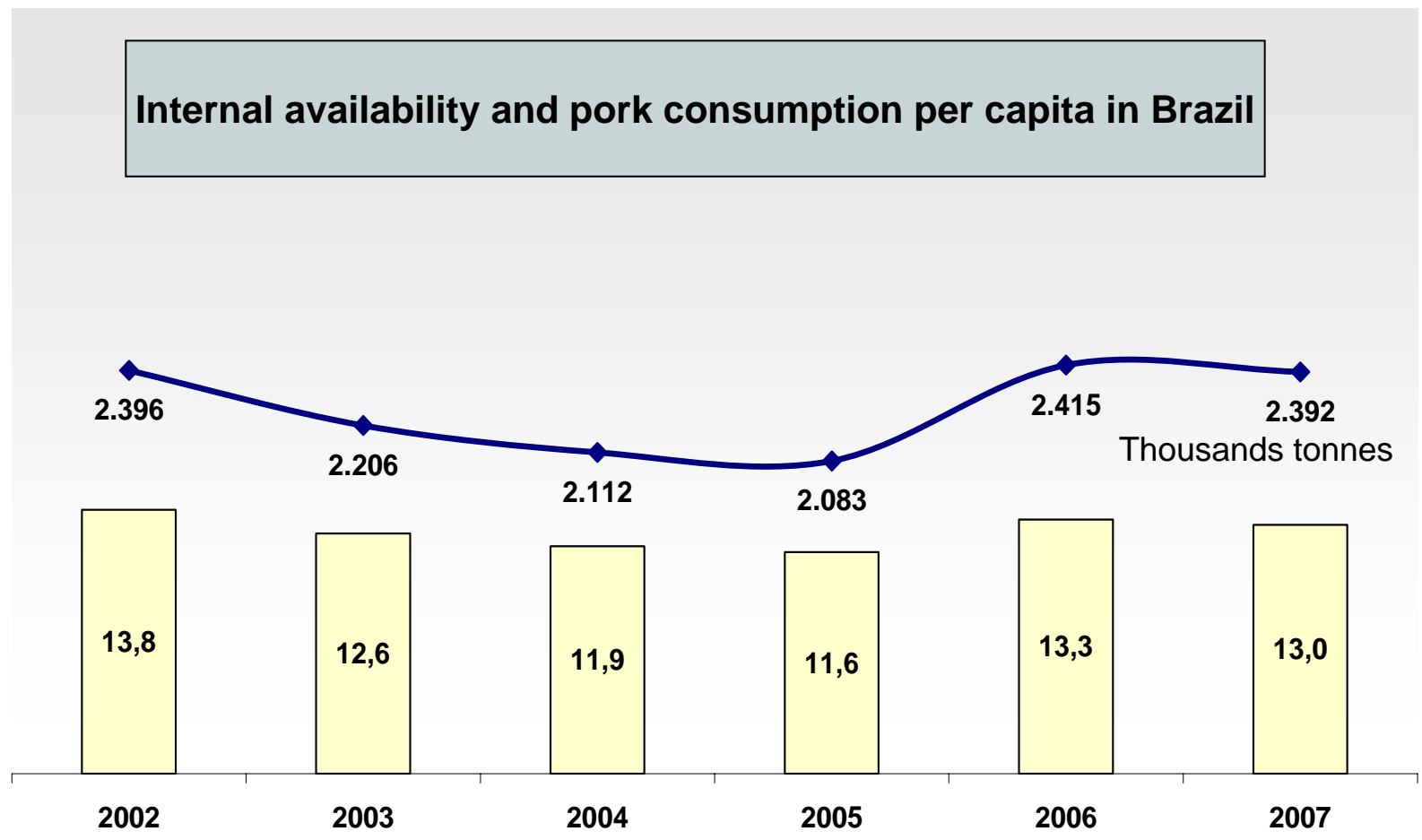
Preço médio (US\$/t)    Receita (US\$ milhões)    Volume (mil t)



Revenue



**Internal availability and pork consumption per capita in Brazil**



Fonte: Abipecs e Embrapa - Levantamento Sistemático da Produção e Abate de Suínos (LSPS)

consumo per capita (kg/hab./ano)
  Disponibilidade interna (mil t)

↓
   
 Percapita consumption

Internal availability



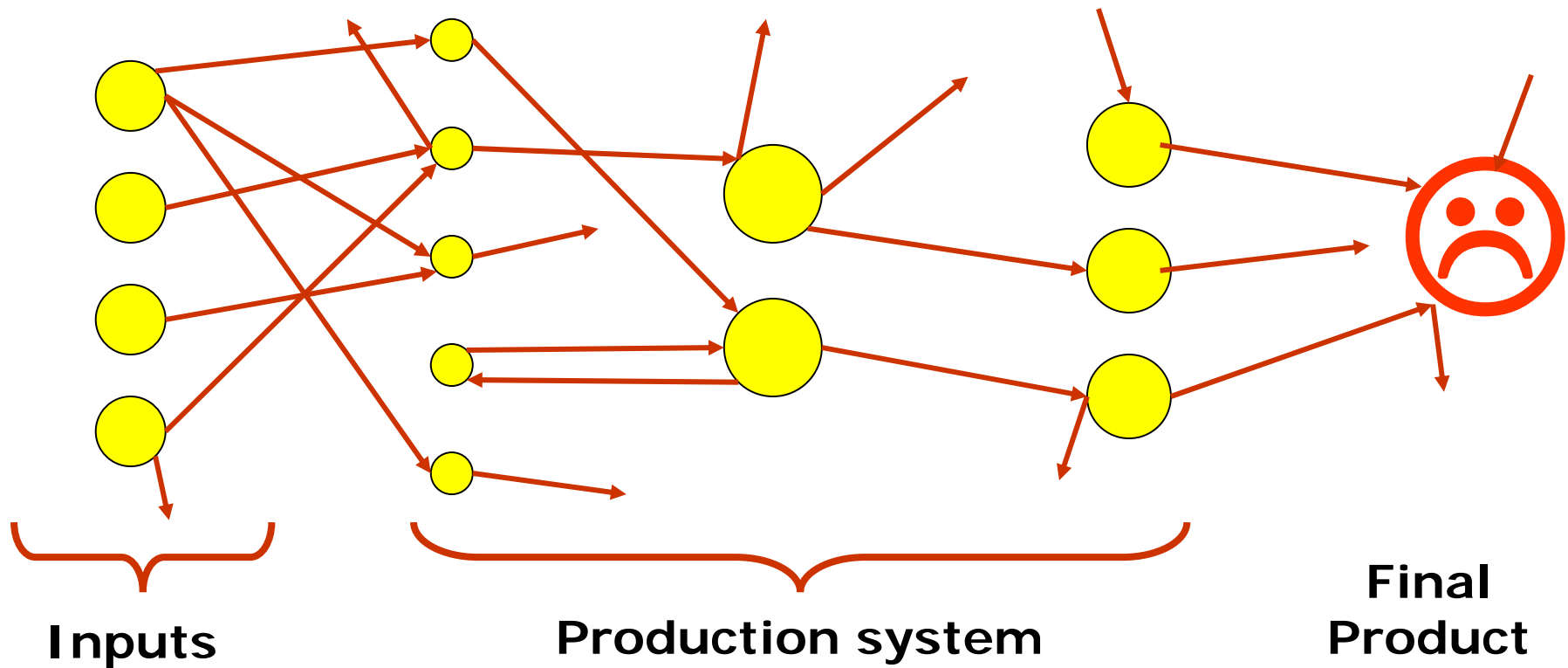
# PIGMEAT REQUIREMENTS FOR OFFICIAL CERTIFICATION

## Certificate that:

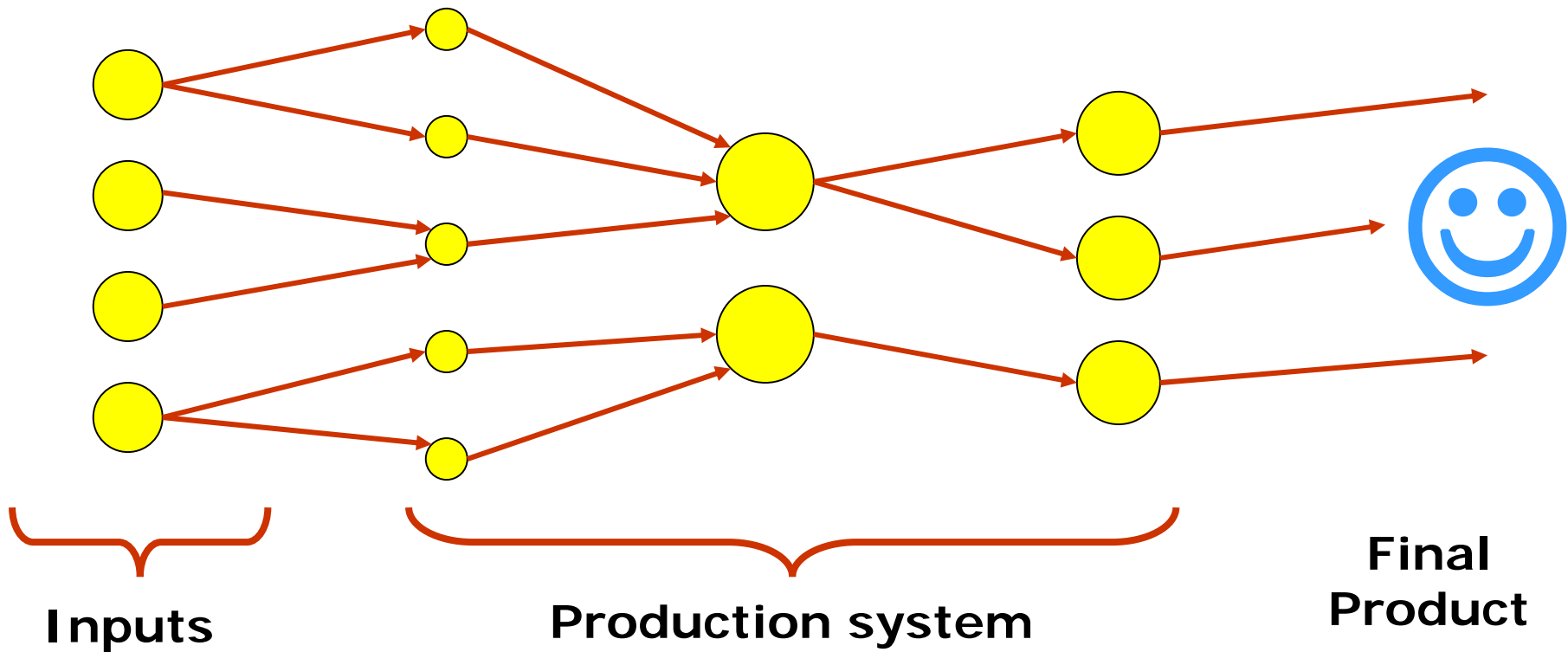
- Animal comes from : origin
- Animal Health
- Public Health
- Chemical Residues ( additives , pesticides and veterinary drugs)
- **Traceability system**
- Animal Welfare
- Feed ( nutrition)
- Enviroment



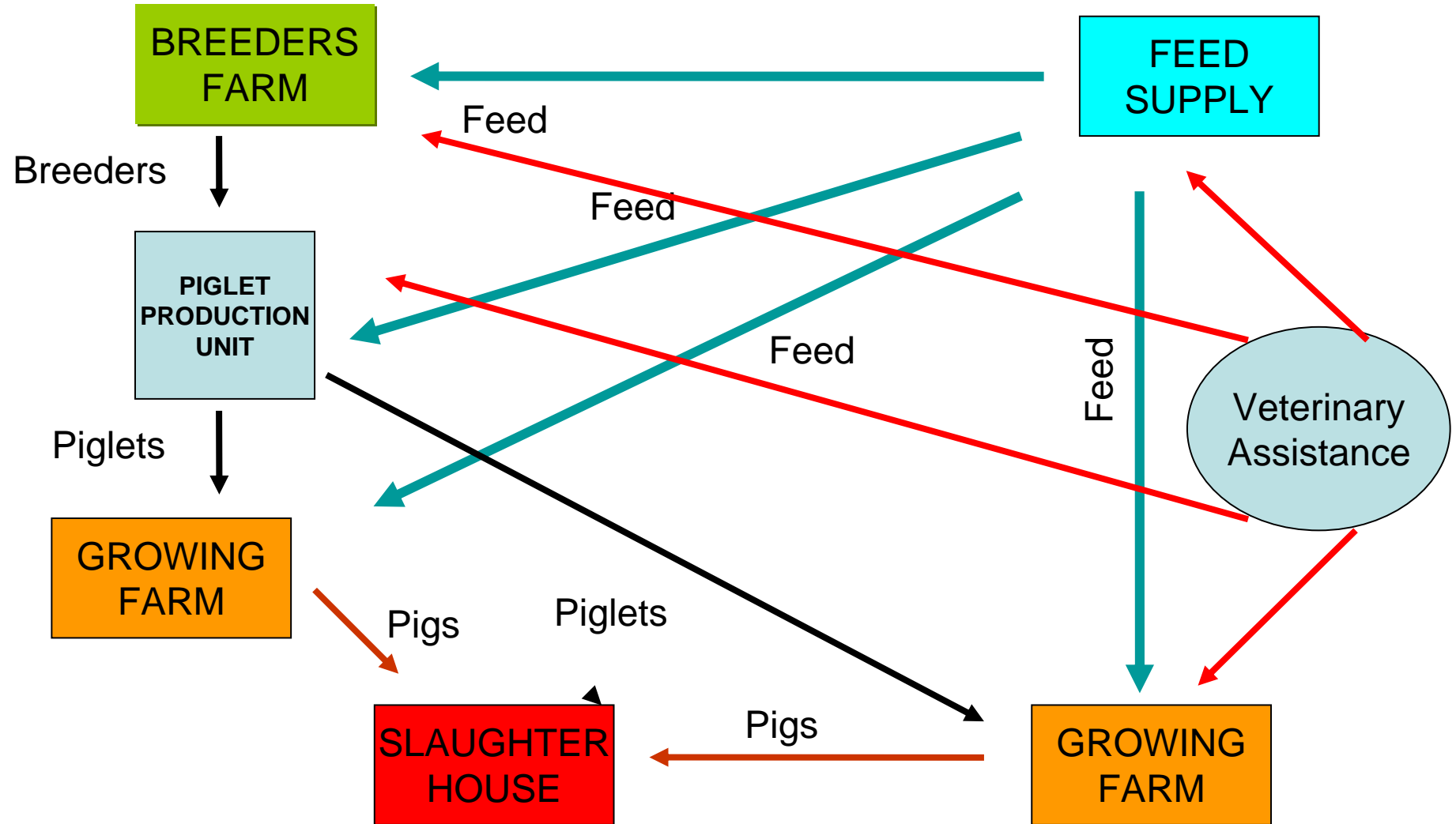
# Production Chain (should be organize)

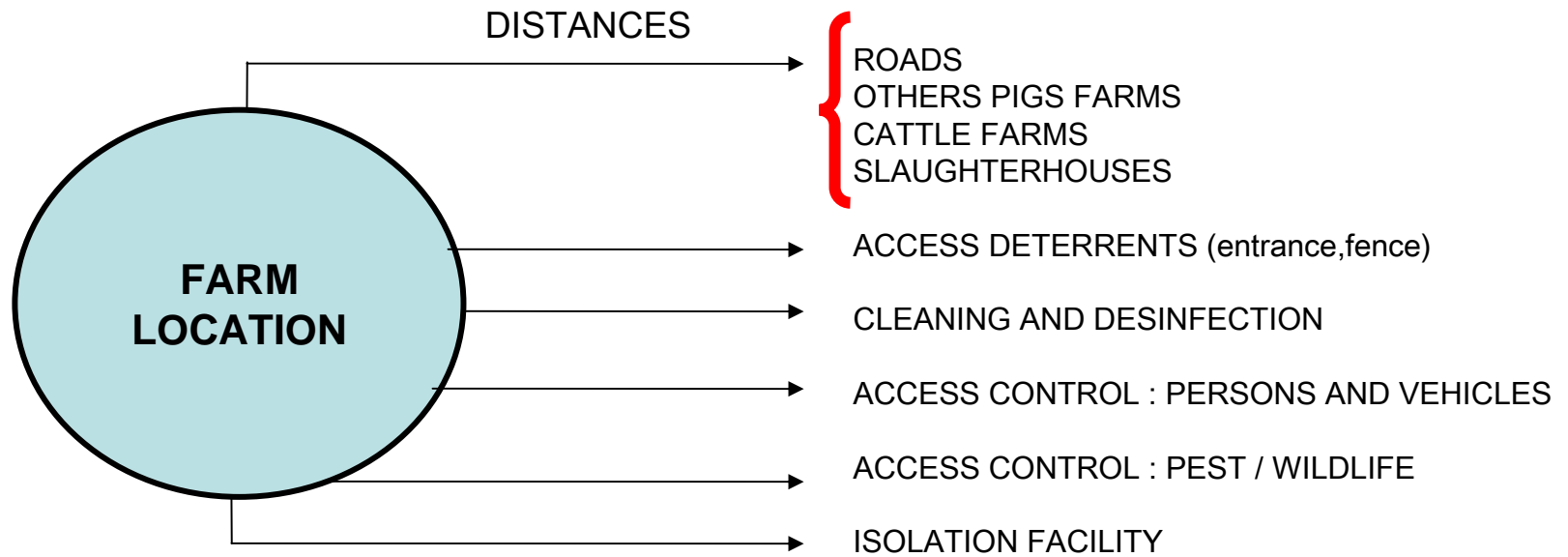


# Swine Production chain (integrated system)

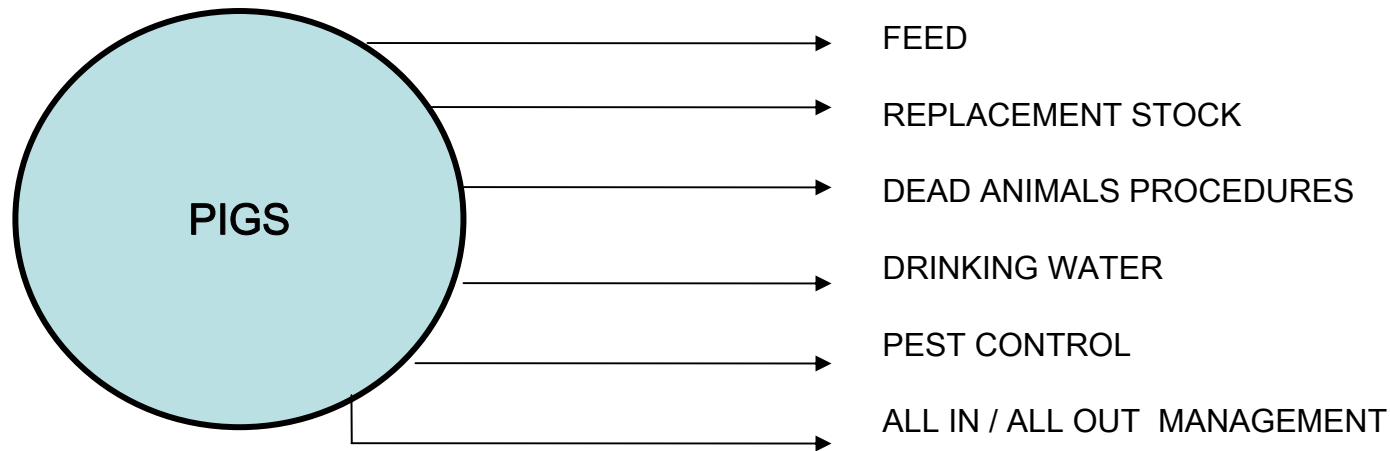


# Pig Production Integrated System





# BIOSECURITY



# OFFICIAL VETERINARY SERVICES

# SLAUGHTERHOUSE

## PIGLET FARM



## FINISHING FARM



## BREEDERS FARM



## NURSERY



ANIMAL  
TRANSIT  
PERMIT

GTA

GTA

GTA

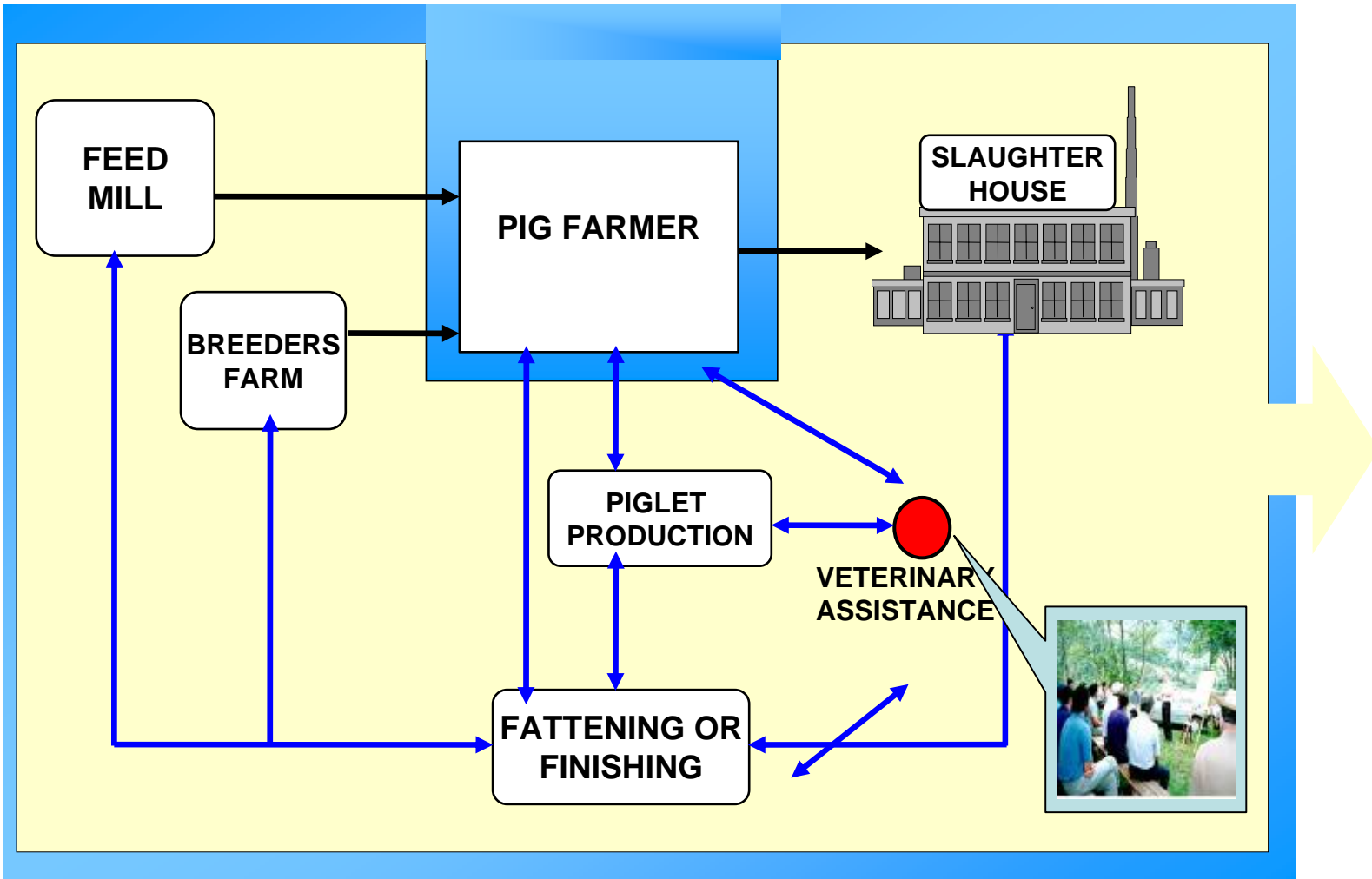
CSI

INTERNATIONAL  
VETERINARY  
CERTIFICATE

# OFFICIAL VETERINARY SERVICES



# ➤ Pork Production (Integrated)



# Traceability System

- Identification of the swines herd/farm by traceability code on the packing of the products

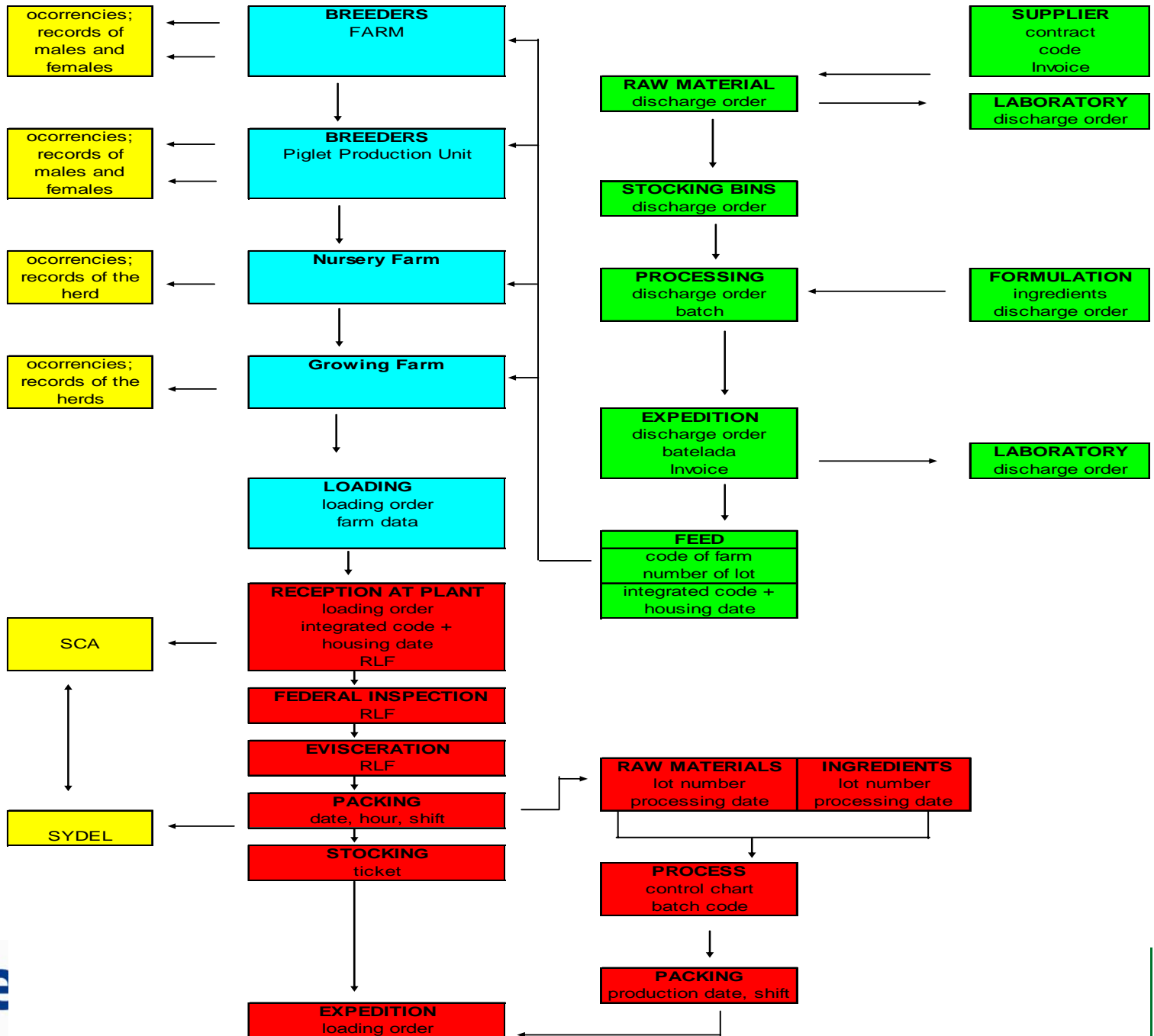
# REMARKS

- 100% of swines are owned by integrated company
- All feed is produced by integrated company
- Farmers only grow swines for this company
- The swines are received without mixture of animals from different farms;
- This separation continues during the production process.

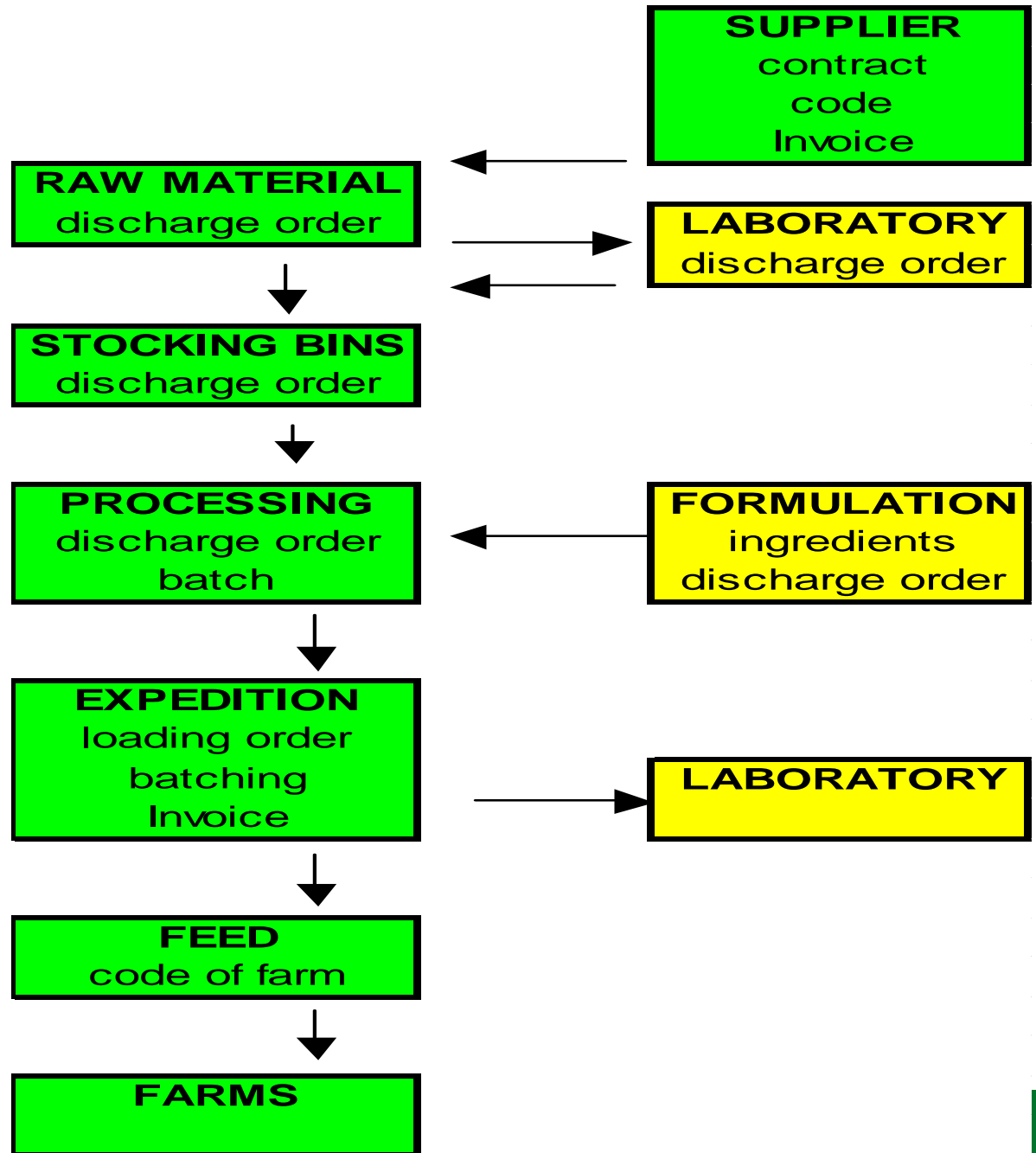


# Definitions

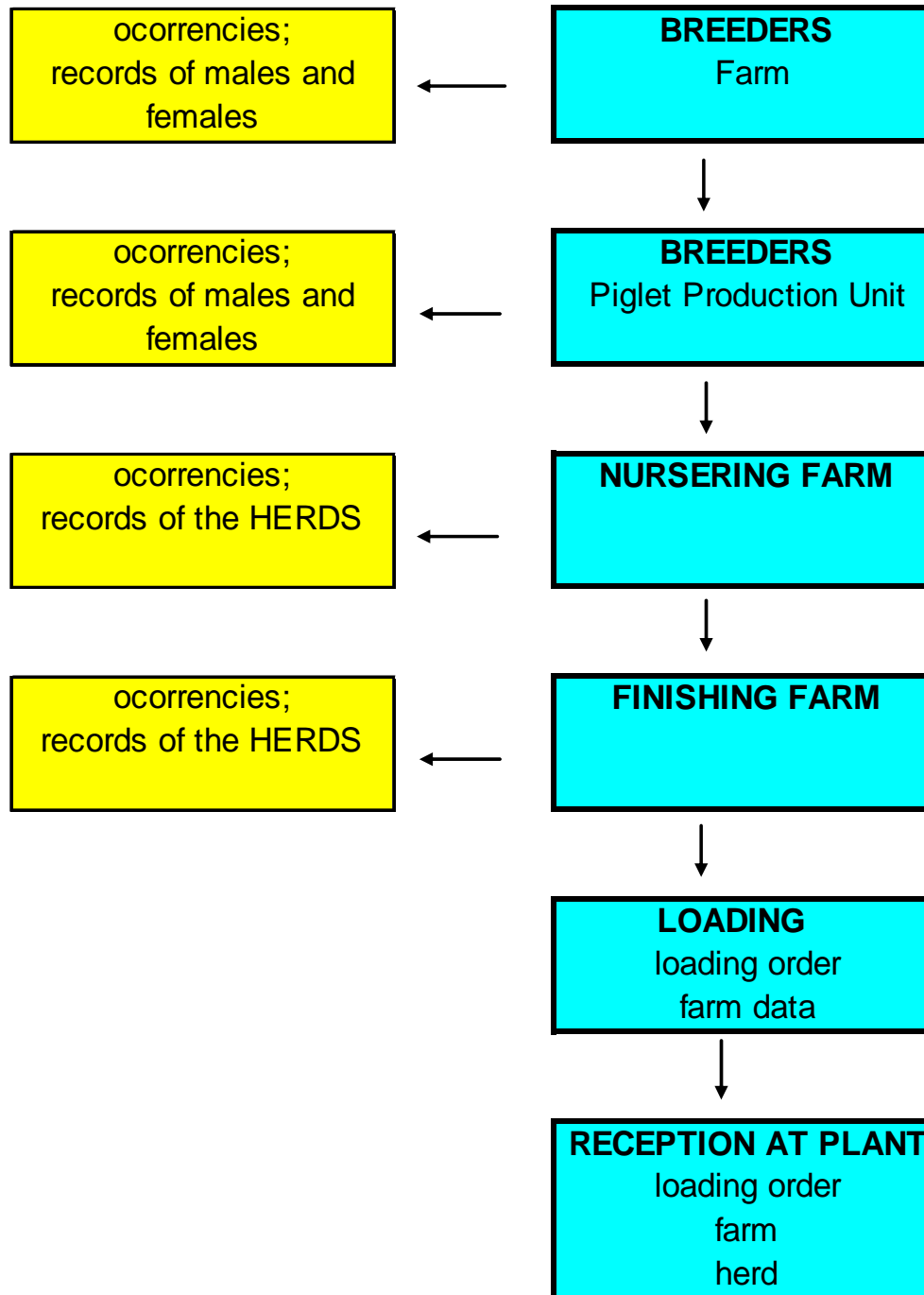
- HERD: Group of animals coming from the same farm at the same day.
- Julian Calendar : sequence of 365 numbers representing the 365 days of the year ( January 1<sup>st</sup>. is the number 1).



# FEED



# LIVE ANIMALS



# Traceability Code

- **A0402509**
  - ‘A’: indicates the Production Unit;
  - ‘04’: indicates the swines herd ;
  - ‘025’: twenty-fifth day of the year – referes to the slaughtering day of the herd;
  - ‘09’: indicates the year .

# CONTROL POINTS

# Reception of the animals



# Carcasses Tipification

- Identification of the herd





# Entrance and exit of cooling rooms



# Cutting – changing of herds

TAGS identifying the number of the herd. These tags go along the cutting tables.



# Labelling of boxes

- Label - Fix on the boxes labels with the number of the herd (by bills)
- Stamp – Killing date (day of the year + year).



# Computer System

- Input at computer system (*Sydel*) the informations:
  - **Number of herd**
  - **Julian Calendar (day of the year)**
  - **Code of the product**
  - **Destination**



# CONCLUSIONS

- The Brazilian pork chain is organized in a production model centered on producer/industry integration and based on biosecurity plan.
- Minimum on farm biosecurity standards for pig producers has to be a commitment to all sectors of the pig industry
- Producers, industry and government has to share responsibilities to keep all quality demands on to the end of the production system

# CONCLUSIONS

- Share responsibilities is a key point to implement a traceability system
- The Brazilian Pork Production Chain is focused in the biosecurity and herd/farm information system to implement traceability
- The brazilian pig industry is concerned about global world demands, specially traceability issues.







## Brazilian Pork Industry and Exporter Association

Rui Eduardo Saldanha Vargas  
Director