

Management and Strategic planning of agribusiness systems: the case of livestock in Goiás – Brazil

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AGENDA:

- Introduction
- Research Questions and Objectives
- Method Used
- Literature Review
- Results
 - PEST
 - Porter's Five Forces
 - SWOT
 - Objectives
 - □ Strategy Vector Plans
- Conclusions and Managerial Implications
- Major References





Introduction



The state of Goiás:

- 9,5% of all production of Brazilian **bovine meat**
- 5.5% of Brazilian chicken meat
- 5% of Brazilian **pork**
- Large availability of grains and high technology





Objectives

Main objective:

Adapt a method of strategic planning and management of supply chains for a state level with the involvement of class organizations.

The specific objectives are:

- to apply the new method in chains of bovine meat and leather, pork and poultry in the state of Goiás – Brazil;
- proposing strategic projects focused on improving the competitiveness of these agribusiness systems in Brazil and abroad





Literature Review

- There are different approaches that can be used for the chain study, but two traditional approaches are found in the literature, the one developed by Goldberg (1968) and the one proposed by Morvan (1985).
- Many authors have proposed ways to organize information in order to obtain a tool for strategic planning of organizations (Campomar (1982), Westwood (1995), Las Casas (1999), Jain (2000), Kotler (2000), Lambin (2000), Wright, Kroll and Parnell (2000), Gilligan and Wilson (2002) and Wood (2004)).
- Proposed by Neves (2005), GESis method consists of five steps that are detailed in the methodology of this work. It is worth mentioning that the proposed method has been applied to several agribusiness systems such as in AGS of orange (2004), wheat (2005) and Milk (2007), and more recently in AGSs of sugarcane (2009) cotton (2011) and bovine meat (2011), being improved with each application.





Method Used

Application of the adapted GESis (Neves, 2005):

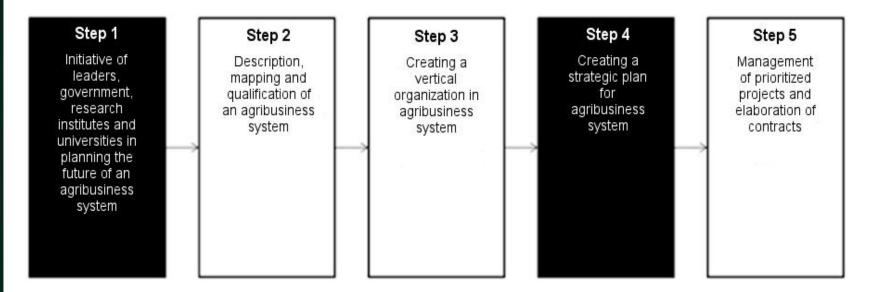


Figure 1. The GESis method for strategic planning and management of food and bioenergy chains.

Source: Neves (2005).





Method Used

Application of the adapted GESis – Step 4 (Neves, 2005):

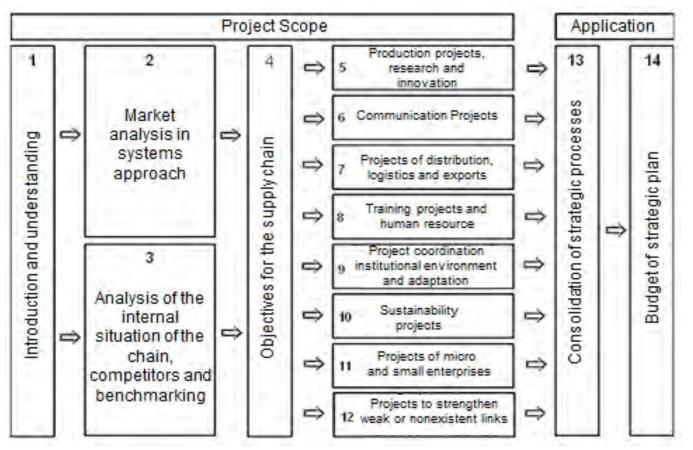


Figure 2. Project scope: fourteen steps for strategic planning of agribusiness systems of grains and sugarcane in the state of Goiás Source: Adapted from Neves (2005).





Results: PEST

Political-legal	Economic-natural	Socio-cultural	Technological
 Economic openness through international negotiations; Traceability system in implementation ; Presence of certification standards 	 Improved distribution of world income providing increased consumption of meat, leather, pork and chicken; Global economic integration; Growth of markets that value high volumes and low prices; Large supply of grain in Midwest region which may impact the cost of production; 	 Growth in world population and urbanization, leading to increased consumption; Growth in the education level; Inclusion of women in the labor market. 	 New technologies for waste reduction; Growth of investment in R & D, both public and private; Technologies that reduce environmental impacts.
 Juridical uncertainties due to environmental legislation; Tariff barriers and non- tariff barriers in international markets; Public policies to support the livestock are not sufficient for the size of the sector. 	 Negative impact of emissions of greenhouse gases by livestock; Cycle appreciation of the national currency, damaging the competitiveness of Brazilian products; 	 -Increase in the number of vegetarians - Concentration of large scale industries in the South. - Increased consumer demand for food safety; 	 -Incompatibility between human factor and technological advances leading to inefficiency in the management process; Need for high technical and managerial control during the production process.





Results: Porter's Five Forces

Swine and Poultry

Input suppliers mostly deal whit large industries.

Bovine meat and Leather

-High competitiveness trand and bargaining power of suppliers of inputs.

- Livestock producers whit little bargaining power due to spraiyng and pack of a centralizer organ.

Power of suppliers

Swine and Poultry

Countries or states that do not compete whit the meat but have been showing some competitive advantage

Bovine meat and Leather -Meat caprine and ovine - New proteins as soy protein

Threat of new entrants

Competitors

Swine and Poultry Mato Grosso, Goiás, Austrália Bovine meat and Leather Market differentiation and higher production of US and UE

Threat of substituts

Swine and Poultry, Bovine meat and Leather

Other animal protein and vegetal proteins.

Power of buyers

Swine and Poultry

-Retail: concentration: - International market: high bargaining power; - Industry: many integrated producers Bovine meat and Leather -Retail concentration of the commercialization channels by the increasing its bargaining power. - International market high bargaining power on the part of international buyers who are relatively undiversified.





Results:

Bovine meat and Bovine Leather				
Strengths	Weaknesses			
- Production in pasture, characterized as highly sustainable;	- Lack of vertical integration between chain links;			
- Greater availability of grains for food supplementation;	- Problems of logistics due to the condition of roads and few			
- Brazilian territorial extension;	alternatives;			
- Good health status;	- Lack of efforts and initiatives in marketing, especially in			
 Traceability system already structured; 	communication;			
	 Concentration of slaughtering industry; 			
	- Extensive areas of degraded pastures.			
Opportunities	Threats			
- Recovery of degraded pastures for horizontal growth of	- High prices and low standardization;			
production;	- Pressure from environmental issues (greenhouse gas			
- Expansion of feedlots to improve productivity;	emissions);			
- Creating or strengthening of associations / cooperatives;	 Increased production costs and activities with greater 			
- Technological development in the areas of genetics and	profitability may decrease the number of farmers;			
nutrition;	 Not overcoming the logistical problems. 			
- Projects pioneered by agribusiness for mapping "water				
footprint."				
Poultry and Swine				
Strengths	Weaknesses			
- Stable climate, vast territory, with good water availability,	- Stiffness of integration contract;			
high grain production and low production costs;	- Logistics problems mainly due to the condition of roads;			
- High level of technological production;	- Little bargaining power of producers;			
- Need for relatively small areas for production;	- Lack of a consolidated image of chains of poultry and pork;			
- Strategic location of Goiás.	- High cost of manpower.			
Opportunities	Threats			
- Increase in class C contributing to the strengthening of the	- Technological Obsolescence in some points of the chain;			
internal market;	- Non-tariff barriers preventing the opening of new markets;			
- Increase pluriactivity of rural property;	- Unfavorable exchange for export;			
- Possibility of activity growth through developing regions;	- Increase in price of inputs.			
- Demand for new products, differentiated and higher added				
value.				
value.				



Objective and goals

CHAINS OF BOVINE MEAT AND LEATHER

- Increase by 27% the production of bovine meat in the state;
- Increase by 5% the average slaughter weight of the state (productivity);
- Increase by 85% the number of animal feedlot;
- Achieve a 50% growth of the total of bovine meat exported by the state;
- Increase by 50% the total of leather benefited in the state;
- Performing internally tanning of finishing of 50% of the leather produced in the state.

CHAINS OF SWINE AND POULTRY

- Increase production of chicken meat by 3.5% per year;
- Increase production of pork by 2.5% per year;
- Increase exports of poultry at 4% per year;
- Increase pork exports at 3.5% per year;
- Diversify the international markets for pork;
- Access the most demanding markets of pork;
- Maintain the status "free" from diseases of compulsory notification of International Office of Epizootics.





Strategic Vectors	Strategic Actions
1. Production, products,	 Increase the practice of feedlots;
research and innovation	 Attract new industries to the state;
	 Promote the approximation of the field with universities and
	research institutions.
2. Communication	 Strengthen the image of meat in Goiás in consumer markets;
	 Create actions to maximize the quality of the leather of Goiás;
	 Promote meeting events between producers.
3. Distribution, logistics and exports	 Improve conditions and do constant maintenance of roads;
	 Create centers of storage and collective distribution of food;
	 Develop a center of freights;
	 Develop new markets.
4. Training/Human	 Provide training courses;
Resources	 Regulate all the work of the chains;
	 Encourage digital inclusion of producers.
5. Coordination and	• Define a management group responsible for coordinating a system
adaptation to the	of governance of the chains;
institutional environment	• Assist in the preparation of investment projects aiming greater
institutional environment	technical adequacy standards.
6. Sustainability	 Map the natural resources of the state;
2	 Recover degraded pastures;
	 Invest in treating swine waste and poultry.
7. Micro and small	 Create cooperatives for small producers;
enterprises	 Encourage joint purchases;
	 Encourage credit cooperatives.





Modification in the method (GESis)

Conclusions:

- Were made the insertion of Porter's Five Forces and Porter's Diamond model analysis

- The fourth step of the method was focused on defining the **strategic objectives to be achieved in 2020**

- New vectors of projects were proposed sustainability, micro and small enterprises, and strengthening the weak or nonexistent links.

Article's goal

-The article presented the results from the application of the method to the beef, leather, pork and poultry production chain, reaching its goal.

- This material serves as a **stimulus to decision making** in the public and private sectors.

- The work brought **tools and subsidies for strategic decision** made by organizations belonging to chains and their agents





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Thank You

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