

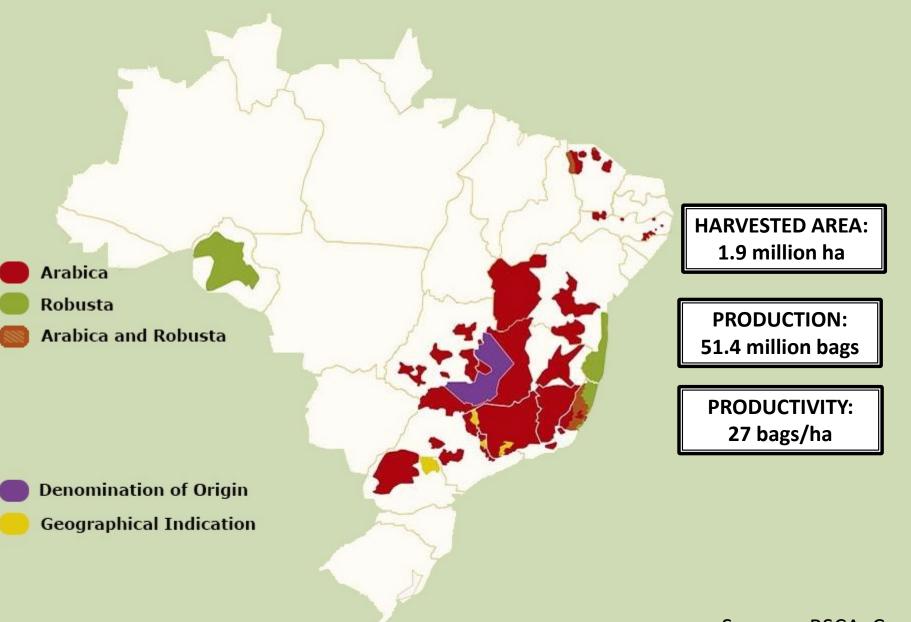
BRAZILIAN COFFEE PRODUCTION: OVERCOMING THE CHALLENGES OF SUSTAINABILITY

7th Consultative Forum on Coffee Sector Finance

27 September 2017

Silas Brasileiro
Executive President

Brazilian Coffee Season 2016/17



Sources: BSCA; Conab.

Quality: Positive Evolution



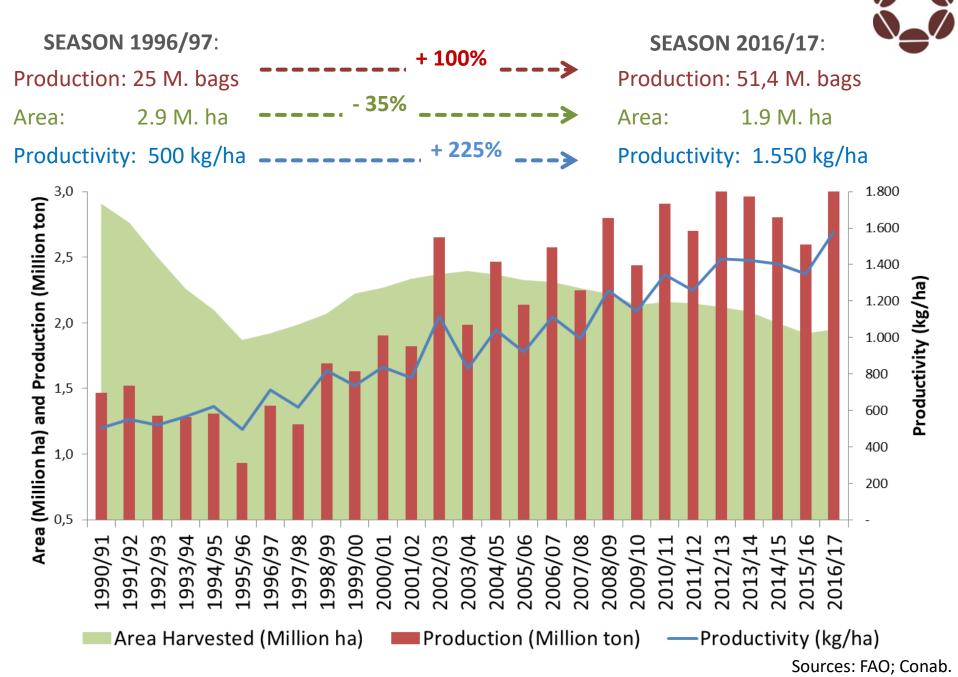
•Brazil's range of climate and landscapes lends itself to the production of unique specialty coffees.



1959 - Frost - State incentives - Technological Investment (Cerrado Mineiro)

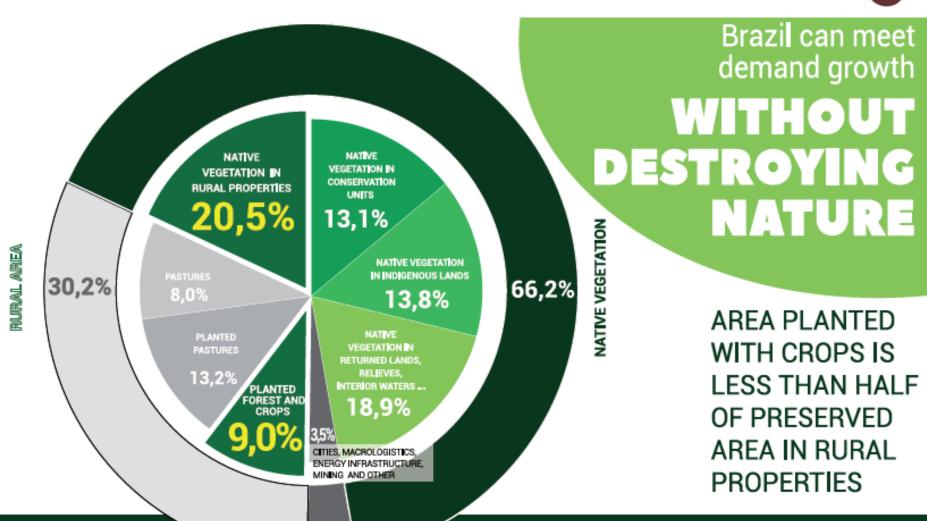
Source: BSCA.

Substantial Productivity Increase



Consequence: Environmental Sustainability



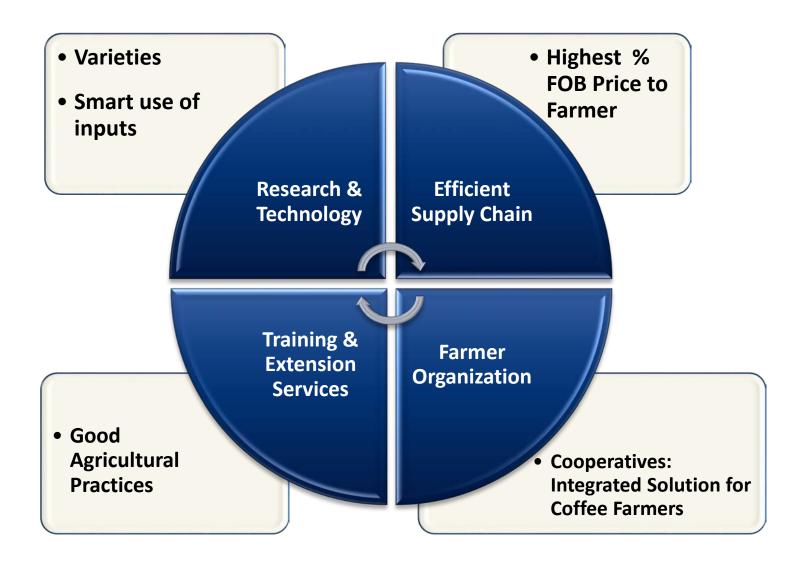


Source: EMBRAPA Strategic Territorial Intelligence Group (GITE)

OVER 66% OF BRAZILIAN LAND AREA IS COVERED WITH NATIVE VEGETATION

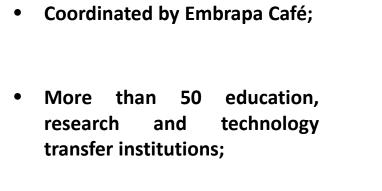
Main Reasons Behind Productivity Increase





1. Research & Technology: Brazilian Research **Consortium**





12 Brazilian States;

Plans of Action in progress;

92 Research Projects; 496

More than 1,000 researchers and technitians involved.

Embrapa

Source: Embrapa Café

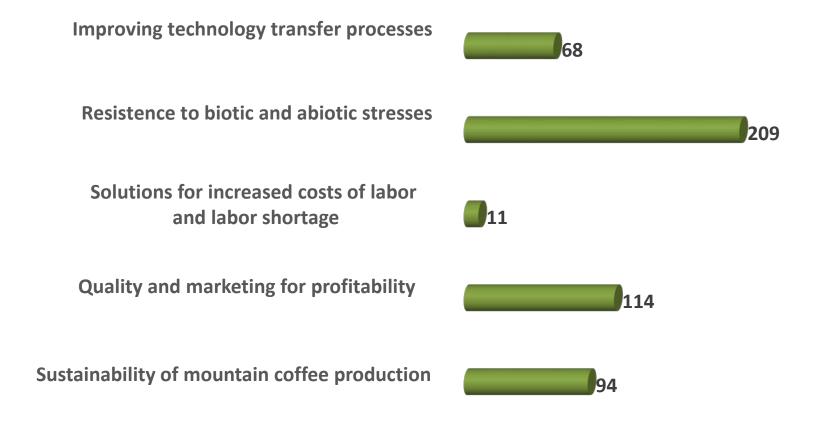
Incaper

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Applied Research on Coffee Supply Chain Problems



Plans of Action by Subject



Source: Embrapa Café

Research & Technology: Some Examples



Coffee Breeding



COFFEE GENOME: More than 33,000 expression genes identified: Applied biotechnology in progress to improve:



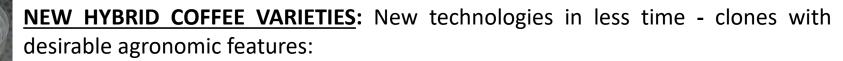
Coffee Quality



Resilience to Climate Change



Resistence to Pests and Diseases





- ✓ High productivity;
- ✓ High quality;
- ✓ High vigor;

- ✓ Resistance to leaf rust;
- ✓ Shorter orthotropic internode length.

Coffee Quality



<u>CONTROLLED DROUGHT STRESS</u>: higher sucrose and lipids concentrations in cherries—positive precursors of quality.

Environment Sustainability



BRACHIARIA BETWEEN COFFEE: improved water and nutrients absorption; improved soil quality; enhanced carbono sequestring capacity.

Economic Sustainability



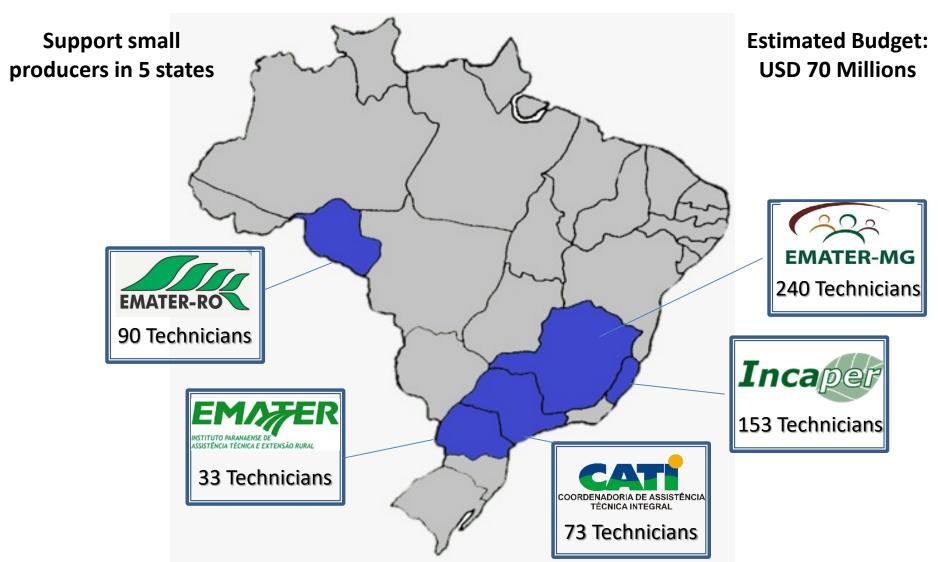
<u>CYCLIC PRUNING PROGRAM</u>: increased average productivity and reduced labor costs.

Source: Embrapa Café

2. State Governments Training & Extension Services



Number of Technicians Working With Coffee Producers



Source: P&A Marketing



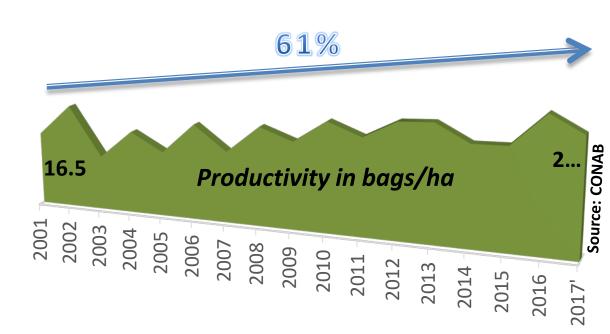


Sustainability

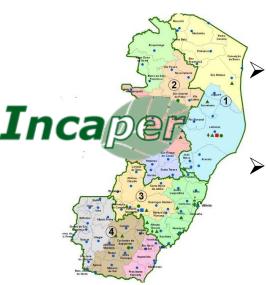
- Initiative of the Minas Gerais Government (SEAPA IMA EMATER) focus on good production practices and socio-environmental responsibility in coffee production;
- > 1.230 coffee farms certified in 2016;
- Lower cost to farmers and international recognition UTZ is as partner.

Incentive to Quality: Annual Contest in Minas Gerais







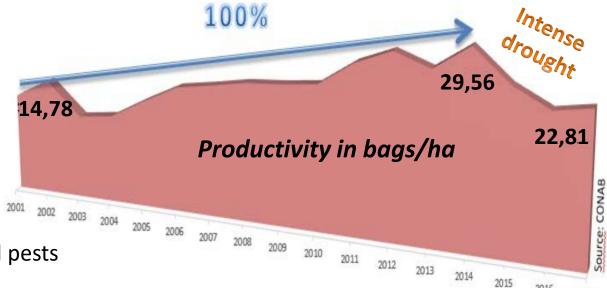


In the last 2 decades Espirito Santo State went through a revolution: expressive growth of Arabica production and became the main Brazilian producer of conilon (robusta).

Prominent role of Incaper: developing, transferring and assisting farms (specially small ones) to adopt new technologies.

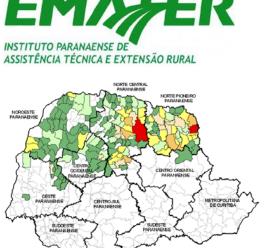
ESPÍRITO SANTO

Climate Change: knowledge and technology to increase drought resilience



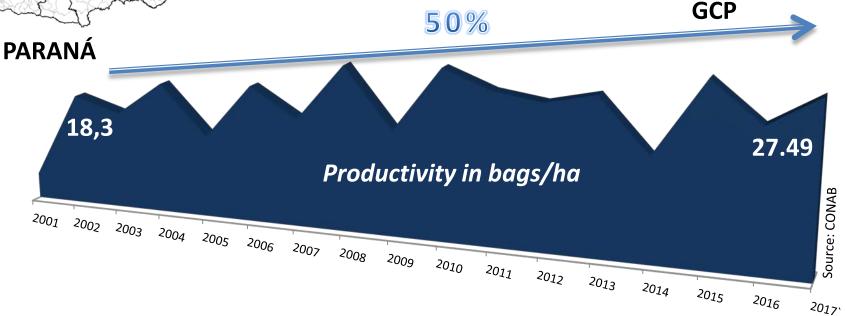
*mulching, irrigation, fertilizer and pests management; pruning; etc.





Paraná Coffee Project: 3,900 small coffee farmers assisted : productivity, quality, marketing and organization.

Quality: 90% of the cupping centers are managed by EMATER

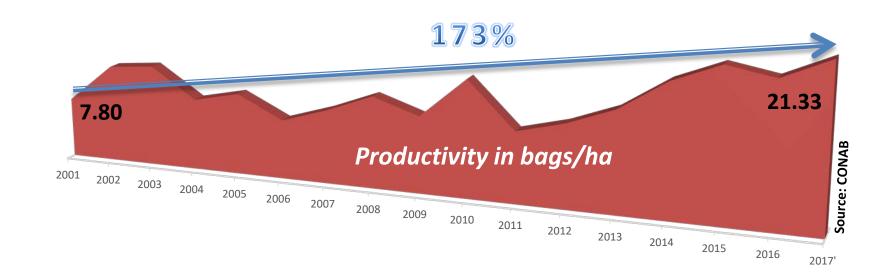




RONDÔNIA



- Revitalization of Coffee Areas in Rondônia: Emater transfers and assists farms to adopt new technologies (certified clonal seedlings and good practices).
- Technician visits each grower 10 times per year.
- New conilon clonal varieties developed by Embrapa have high performance – potencial 100 bags/ha.





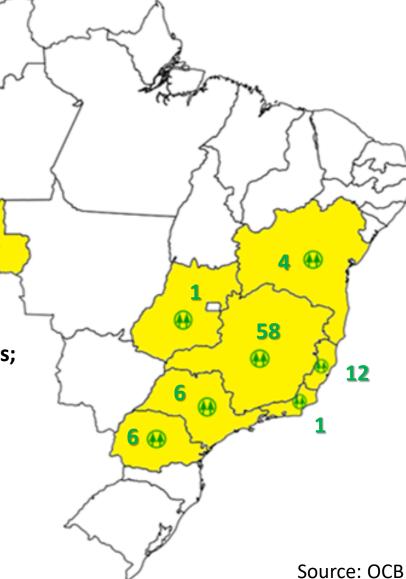
3. Farmers Organization – Coffee Cooperatives



- > 90 Coffee Cooperatives in Brazil;
- Small farmers have the same market and technology access than the bigger ones.

> Integrated Solution: inputs, equipment and services;

Gross Income: + US\$ 3 billion.



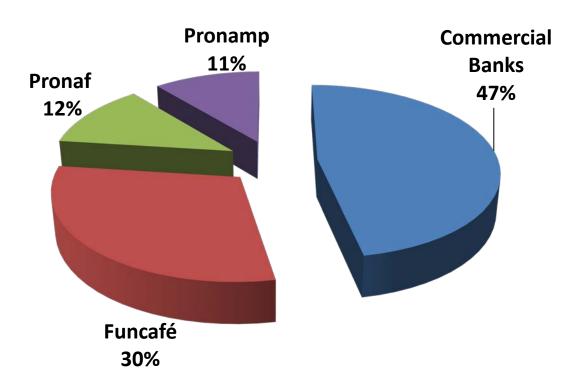
Coffee Cooperatives: Assisting Farmers Day By Day





Credit Access: Cooperative Banks facilitate access to financing for farmers.

Main Credit Sources for Coffee Production (2013-16: + US\$ 11 billion)



- Other Credit Lines Available (BNDES):
- <u>Inovagro</u>: technological innovations and management improvement;
- Moderagro: Quality and Sustainability (e.g.: technology for coffee drying).
- Moderinfra: sustainable irrigation.

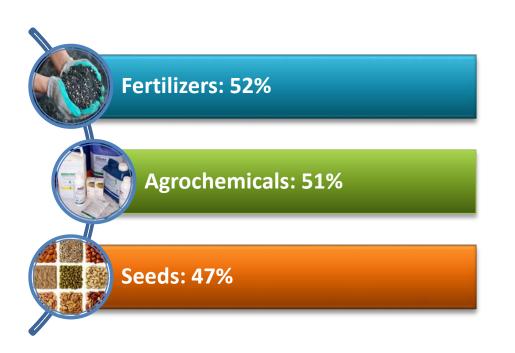
Source: Banco Central do Brasil

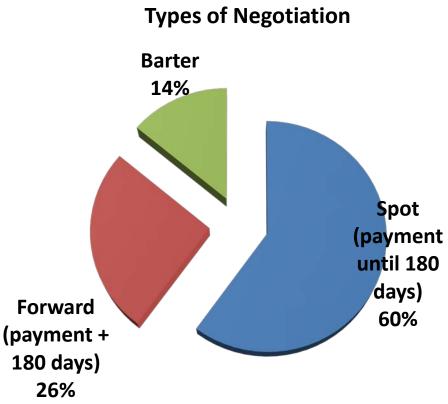
Coffee Cooperatives: Assisting Farmers Day By Day





Access to Agricultural Inputs: In Brazil, cooperatives are the main distribution channel for lime, fertilizers, agrochemicals and seeds.





Source: Fiesp/Icagro (2nd and 4th Quarters 2016)

Coffee Cooperatives: Assisting Farmers Day By Day





Technical Advice: Team of agronomists and technicitians: guidance for a more sustainable coffee production; access to technology.



Economies of scale: More advantageous conditions due to greater purchase and sales volumes.



Post-harvest Processing: Drying, Cleaning, Grading and Storage.



Market: Facilitate access to: (i) domestic and international markets and (ii) risk management instruments (hedge).

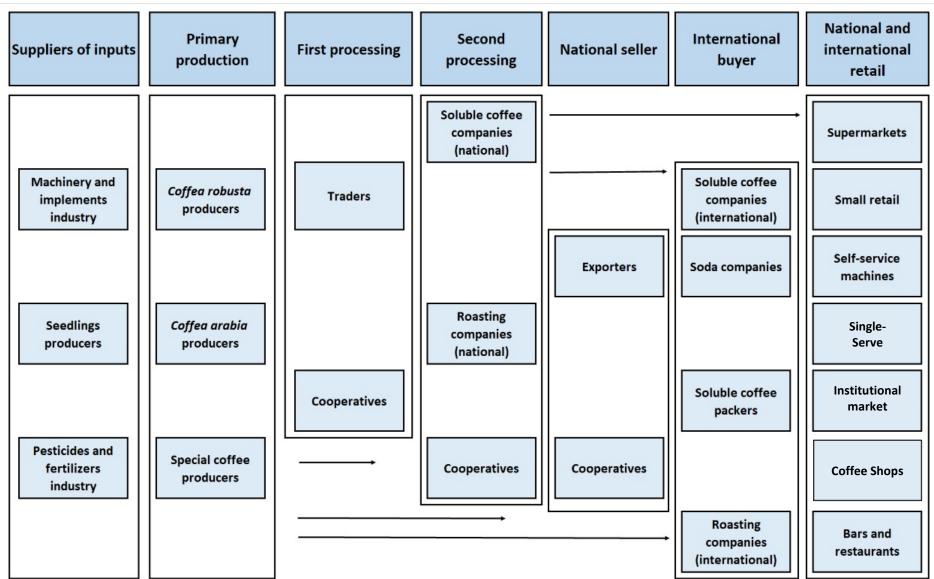


Adding Value: Investment in coffee industrialization and Incentive for the production of specialty coffees.

4. Efficient Coffee Supply Chain







Source: Centro de Excelência do Café; Prof. José Luís Rufino

4. Efficient Coffee Supply Chain





Open Market + Efficient Organization from Research to Export Harbor

> Farmers receive, on average, 85% of FOB Price





Final Remarks



- Although efficient management of the coffee sector and increase in productivity are essential to achieve economic sustainability, the price paid for the bag of coffee is of utmost importance for income security.
- It is essential that production growth be linked to increased consumption to avoid excess supply that may bring down global coffee prices.
- Prices have not increased in spite of three years of consecutive deficits in global coffee supply.
- ICO data shows that global coffee consumption decreased by 0,3% in 2016.

Is it advisable to encourage expansion of production in this scenario?







Thank You!

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