

“Regional Effects of Brazilian Trade Policy”

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Outline

- Introduction
 - Strategies of economic integration
- Methodology
 - National CGE model: EFES-ARG
 - Model of interstate flows
- Main results
 - Macro and sectoral impacts
 - Regional impacts
- Final remarks

Background

- The B-MARIA Project (Haddad, 1999)
 - Baer, Haddad e Hewings (1998); Haddad e Hewings (1999, 2001ab); Haddad e Azzoni (2001)
- UNDP/IPEA Project (Haddad *et al.*, 2001)
- IDB Project
- FIPE Project
 - Regional accounts
- CONFAZ

Strategies of Integration

- Mercosur: next step?
 - FTAA, European Union, WTO
 - Argentina
- Likely structural impacts
 - Trade flows
 - Sectors
 - Regions

Strategies of Integration

- The static impact-effect question:
 - Short-term considerations
 - Trade creation *vs.* Trade diversion
 - Structure is given
 - Changes in policy variables
- The dynamic time-path question:
 - Long-term considerations
 - Technology, learning, externalities, political economy, political agreements

Short run

- The results are related to the “first-round” impacts of the trade liberalization process, and can be perceived in a time span long enough:
 - ✓ for local prices of imports to fully adjust to tariff changes;
 - ✓ for major import users to decide whether or not to switch to domestic suppliers;
 - ✓ for domestic suppliers to hire labor and to expand output with their existing plant;
 - ✓ for new investment plans to be made but not completed;
 - ✓ for price increases to be passed onto wages and wage increases passed back to prices.

Direction of Trade:

Exports by Destination (1999-2001)

	Mercosur	Nafta	Rest of FTAA	EU	ROW
North	9%	19%	6%	31%	35%
Northeast	12%	33%	4%	27%	24%
Southeast	14%	30%	9%	24%	23%
South	14%	25%	6%	28%	27%
Midwest	4%	5%	4%	61%	26%

Regional Share in National Exports by Destination (1999-2001)

	Mercosur	Nafta	Rest of FTAA	EU	ROW
North	1%	4%	5%	7%	8%
Northeast	13%	9%	4%	7%	7%
Southeast	51%	63%	69%	52%	54%
South	33%	23%	20%	26%	27%
Midwest	2%	1%	2%	8%	4%

The EFES-ARG Model

Type of model	National CGE
Sectors	42
Products	80
Primary factors	Labor and capital
Source of products	7
Users	9
Benchmark year	1997
Model use	Comparative static
Number of equations	454.008
Number of variables	465.441

Impacts of Economic Integration

- Haddad *et al.* (2001)
- Three FTA scenarios (member countries eliminate tariffs among themselves but maintain individual tariff schedules on imports for non-member countries)
 - FTAA
 - Mercosur/European Union
 - Generalized bilateral agreements
- Shocks were given in both the appropriate tariff and export tax variables

Summary of Results

- FTAA:
 - lower GDP impact
 - favors manufacturing: traditional (textiles, clothing and shoes) and technology-intensive sectors (transport equipment)
- European Union:
 - higher GDP impact
 - favors agriculture
- Generalized bilateral agreements:
 - higher growth impact
 - more diversified export list
 - “balanced growth”

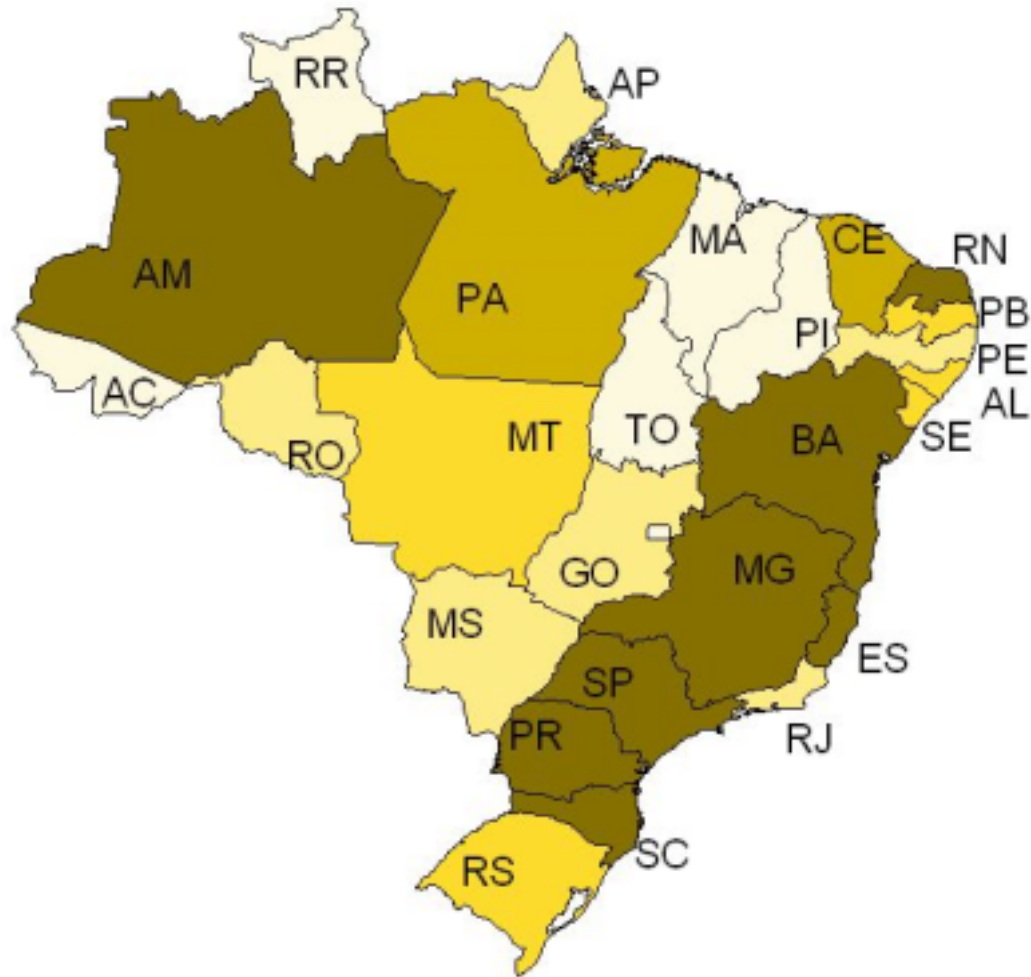
Regional (State) Impacts

- Brazilian economy is not homogeneous internally => differential impacts across space
- Is integration likely to increase/decrease regional inequality?
- Implications for resource allocation

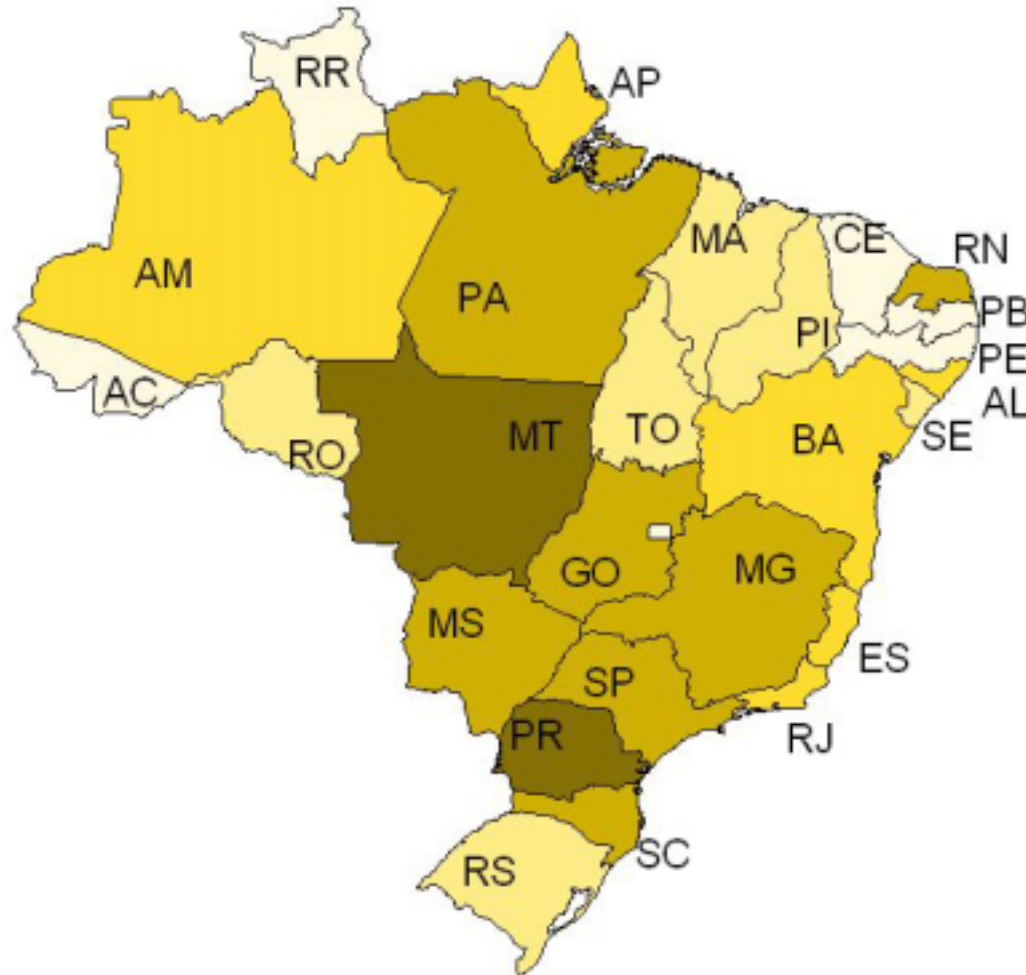
Summary of Results

- Export effects of the less developed states are relatively higher
- From the spatial point of view, the three strategies generate concentration of the economic activity

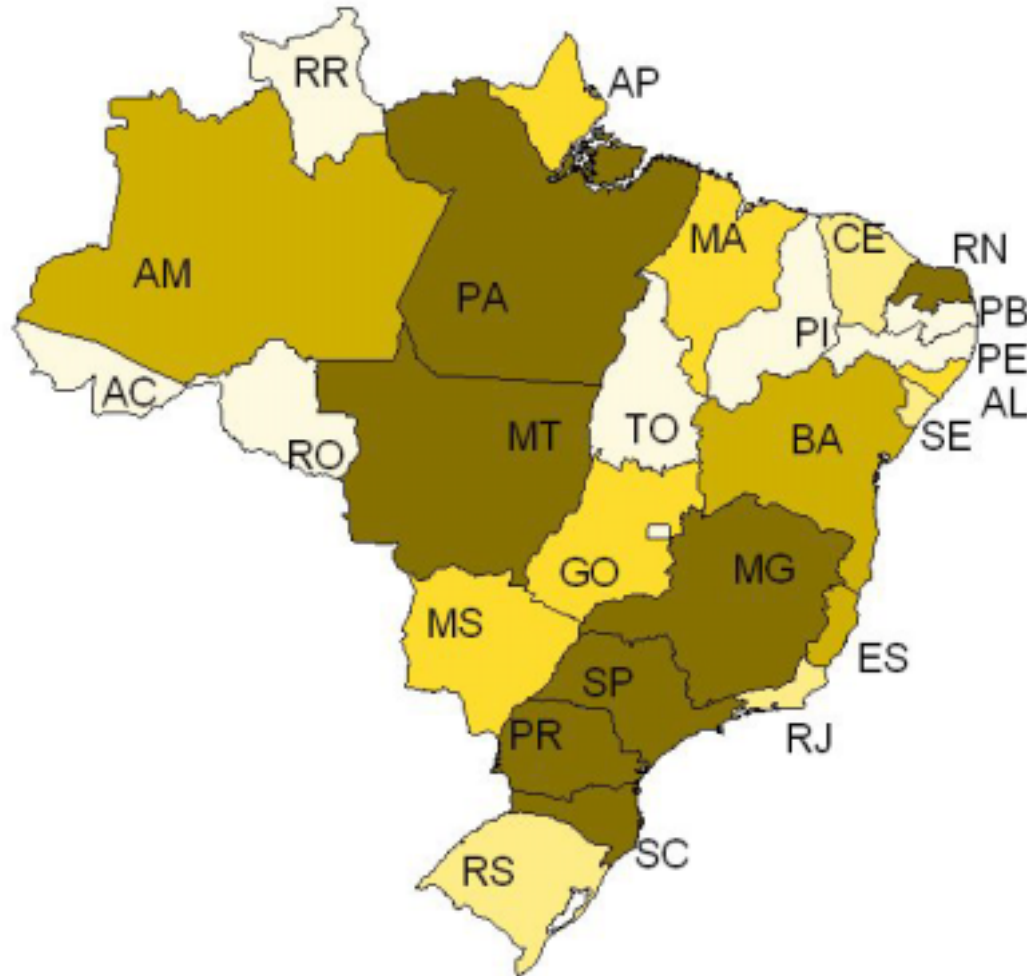
FTAA: Impact on Activity Level, Brazilian States (in %)



EU:
Impact on Activity Level, Brazilian States (in %)



All:
Impact on Activity Level, Brazilian States (in %)



- Factors that contribute to a better overall performance of the economies of the South and Southeast:
 - a) higher value-added content in the exports by the states in the region;
 - b) higher degree of trade openness of the state economies of the South and Southeast regions;
 - c) the pattern of interregional integration at the sub-national level and the operation of feedback effects, as the state interdependence generates leakages from the less developed to the more developed regions.

Final Remarks

- Would the other states be fated to an archaic structure of trade, based on the export of less elaborated products directed to specific markets?
- Would the likely regional concentration pattern of international trade flows be irreversible, once liberalization points to the strengthening of this phenomenon?

- Complex dynamic general equilibrium process, whose effects expand in the long run (technology, learning, externalities, political economy, and political agreements)
- The role of interregional trade to the state economies should not be relegated to a secondary place

If Brazilian states were individual independent countries, willing to grant most-favored nation status to their main trade partners, what countries would receive the special treatment?

- The future is not only tied with its ability to compete in the international export market, but also with its articulation with other domestic markets
- Repercussion in the sub-national space can be redirected by public policies