SMART SPECIALISATION IN CARIBBEAN AGRICULTURE

Innovation and Value chains Analysis to shape rural development

27th SEPTEMBER 2018
SEVILLE, SPAIN

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Agro-food Sector

CONTRIBUTE TO INNOVATION POLICIES
SUSTAINABLE DEVELOPMENT
POVERTY REDUCTION

Outline

Objectives

Background

Methodology

Analysis

Conclusions
Vulnerability

Estimated average annual economic loss of multiple natural hazards and disasters (% of exposed national value)
Dependency

Estimated average annual economic loss of multiple natural hazards and disasters as a share of GDP (‰ of exposed national value)

- BMC Average Merchandise Imports as a share of GDP, (percent)
- Share of Total Agricultural Imports, %

- Non-Agricultural Products Imports
- Agricultural Products Imports

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Estimated average annual economic loss of multiple natural hazards and disasters (‰ of exposed national value)
Diversification

Composition of Agrifood Products Exports in BMC

Composition of Agrifood Products Imports in BMC

Banana's Exported Value

Sugars Exported Value
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Econometric Analysis

Data-Mapping

Smart Specialisation

Outline
Mobilization of Knowledge Resources
- Comparative Advantage
- Related Variety

Analyze Agro-food Value Chain
- Limitation (certificates)
- Challenges and Opportunities
Mobilization of Knowledge Resources

Comparative Advantage

- Turks and Caicos Islands
- Trinidad and Tobago
- Suriname
- St. Vincent and the Grenadines
- St. Lucia
- St. Kitts and Nevis
- Jamaica
- Haiti
- Guyana
- Grenada
- Dominica
- Belize
- Barbados
- Bahamas
- Antigua and Barbuda
- Anguilla

Color Legend:
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- [15, 25]
- [10, 15]
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- [1, 5]
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Mobilization of Knowledge Resources

**Related Variety**

\[
AgValAdd_{it} = \beta_0 + \beta_1 \log \text{PopDens}_{it} + \beta_2 \text{Variety}_{it} + \beta_3 \text{RelVar}_{it} + \beta_4 \text{UnrVar}_{it} + \beta_5 \text{RelTradVar}_{it} + \beta_6 \text{TradeSim}_{it} + \beta_7 \text{GeoD}_i + \epsilon_{it}
\]

<table>
<thead>
<tr>
<th>Variables</th>
<th>Mean</th>
<th>Standard Deviation</th>
<th>Minimum</th>
<th>Maximum</th>
<th>Number of Observations</th>
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<tbody>
<tr>
<td><strong>Import Variety</strong></td>
<td>4.07</td>
<td>0.20</td>
<td>2.94</td>
<td>4.43</td>
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<td><strong>Export Variety</strong></td>
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<td>0.26</td>
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<td><strong>Related Trade Variety</strong></td>
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<td><strong>Population density</strong> (people per sq. km of land area)</td>
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<td>169.28</td>
<td>2.80</td>
<td>662.78</td>
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<td><strong>Agricultural Value Added</strong> (Million, constant)</td>
<td>170.89</td>
<td>208.11</td>
<td>3.01</td>
<td>909.87</td>
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## Related Variety

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<th>Model I</th>
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<th>Model III</th>
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<td>Population density (ln)</td>
<td>-0.31 * (0.19)</td>
<td>-0.23 (0.18)</td>
<td>-0.13 (0.19)</td>
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<td>0.43 * (0.18)</td>
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<td>0.70 * (0.27)</td>
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<td>Related Trade Variety</td>
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<td>Trade Similarity</td>
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<td>-0.08 *** (0.02)</td>
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<td>Small Island States</td>
<td>0.51 *** (0.11)</td>
<td>0.44 *** (0.11)</td>
<td>0.41 *** (0.11)</td>
<td>0.33 ** (0.11)</td>
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<td>Large Island States</td>
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<td>Adj-R-squared</td>
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<td>0.07</td>
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<td>F</td>
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Analyze Agro-food Value Chains

FDI and Tourism

FDI Share by sector in BMC

Share of Sector on Total FDI (%)

Agriculture, forestry and Fisheries
Mining and Quarrying
Manufacturing
Other (Energy, Retail Trade/Commercial, Financial, Transports, Construction, Education)
Tourism

Economic Impact of Tourism and Travel in 2016

% of GDP
Analyze Agro-food Value Chains

Agro-Food Standards

- SPS notifications to the WTO
- Number of GlobalGAP certified producers
Analyze Agro-food Value Chains

Competitiveness

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Visualization Tools

Tool for accessing data to support the Agricultural Investment Plan of the Caribbean Development Bank

https://faocaribbeanagriculture.shinyapps.io/CDB_Agriculture/
MAIN FINDINGS

01 Smart Specialisation to frame diversification

02 Synergies in states’ agro-food specialisations (Competition-Cooperation)

03 Not Market Driven Diversification strategies
“The green business of the future will not longer be called green, it will just be business”  
VIJAY VAITHEESWARAN, The Economist