Public Policies Cases for Enhancing Sustainable Food Production Systems

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Ministry of Agriculture, Livestock and Food Supply
ABC Plan - Low Carbon Agriculture Plan

Brazilian Commitment (COP 15 – 2009)
ABC Plan - Low Carbon Agriculture Plan

<table>
<thead>
<tr>
<th>TECHNOLOGY</th>
<th>COMMITMENT (2010-2020)</th>
<th>RESULTS</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recovery of Degraded Pastures</td>
<td>15 million ha</td>
<td>41.80 million ha (up to 2018)</td>
<td>279</td>
</tr>
<tr>
<td>Crop-Livestock-Forestry Integration</td>
<td>4 million ha</td>
<td>5.83 million ha (up to 2016)</td>
<td>146</td>
</tr>
<tr>
<td>No-Tillage System</td>
<td>8 million ha</td>
<td>9.97 million ha (up to 2016)</td>
<td>125</td>
</tr>
<tr>
<td>Nitrogen Biological Fixation</td>
<td>5.5 million ha</td>
<td>9.97 million ha (up to 2016)</td>
<td>181</td>
</tr>
<tr>
<td>Commercial Planted Forests</td>
<td>3 million ha</td>
<td>1.10 million ha (up to 2018)</td>
<td>37</td>
</tr>
<tr>
<td>Animal Waste Treatment</td>
<td>4.4 million m³</td>
<td>32.85 million m³ (up to 2018)</td>
<td>747</td>
</tr>
</tbody>
</table>

Low Carbon Agriculture Expansion: 58.7 million ha
1.4 x California
Low Carbon Agriculture Mitigation: 368.57 Mg CO$_2$eq

$\approx$ Norway Emissions
Reasons?
Real case: Santa Brígida Farm 2006

US$48 loss/ha/year

3 jobs
Real case: Santa Brígida Farm 2017

US$662 profit/ha/year

28 jobs
2 months of drought
ABC Program Credit Line

Since 2010:
Total disbursement: US$ 4.25 billion in loans

2019 / 2020 Season

<table>
<thead>
<tr>
<th>Total amount</th>
<th>Limit p/ farmer</th>
<th>Term</th>
<th>Grace Period</th>
<th>Interest</th>
</tr>
</thead>
<tbody>
<tr>
<td>US$ 505 million</td>
<td>US$ 1.20 million</td>
<td>Up to 12 years</td>
<td>Up to 8 years</td>
<td>5.25%-7% p/ year</td>
</tr>
</tbody>
</table>

One of the biggest low carbon agriculture policies in the world!
RESEARCH AND DEVELOPMENT

↓ Pasture land area
↑ Productivity

Source: Athenagro, IBGE, Lapig, TerraClass, Agrosatélite, Prodes, Map Biomas
Area with low carbon practices expanded $8x$ more on TRAINED beneficiaries than control.

Area with low carbon practices expanded $18x$ more on TRAINED beneficiaries that received TECHNICAL ASSISTANCE than control.

ABC Cerrado Project Impact Evaluation
**COOPERATION**

**Rural Sustentável II Project (IDB)**
Cerrado and Caatinga Biomes - 2019-2023
US$20 million (grant).
- 4,500 farmers receiving technical assistance
- ABC Technologies implementation in 201,000 ha

**ABC Cerrado Project (WB)**
Cerrado Biome - 2014-2019
US$10.6 million (grant)
- 7,800 trained farmers
- 8,644 people attending field days
- 1,957 farmers receiving technical assistance
- 378,000 ha of recovered pastures
- For each US$ 1 invested in technical assistance, beneficiaries invested US$ 7 from their own budget

**Rural Landscapes Project (WB)**
Cerrado Biome - 2018-2023
US$21 million (grant)
- 4,000 ranchers receiving technical assistance
- 100,000 ha of recovered pastures
- Recovery of 7,000 ha protected lands
- 3 TerraClass editions for Cerrado biome

**Innovation and Sustainability at Supply Chains Project (KFW)**
Legal Amazon - 2020-2024
€18 million (grant)
- Creation of a socioenvironmental index for government use in the implementation of development policies.
- Differentiation of properties in social and environmental compliance.
- Capacity building and technical assistance at farms with needs for improvement in social and environmental compliance.

**Brazil Beef Supply Chain Resource Efficiency Programme (IDB)**
Mato Grosso State - 2020-2022
€15 million (grant) + €40 million (IFC financing via Sicredi bank).
- 44,000 ha of recovered pastures
- 200 truck drivers trained
- 10 processing unities and 10 retail unities adopting good practices
Thank you!

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