

# Brazilian Climate Action on Agriculture The ABC Plan

Integrated crop-livestock-forestry systems - ICLF

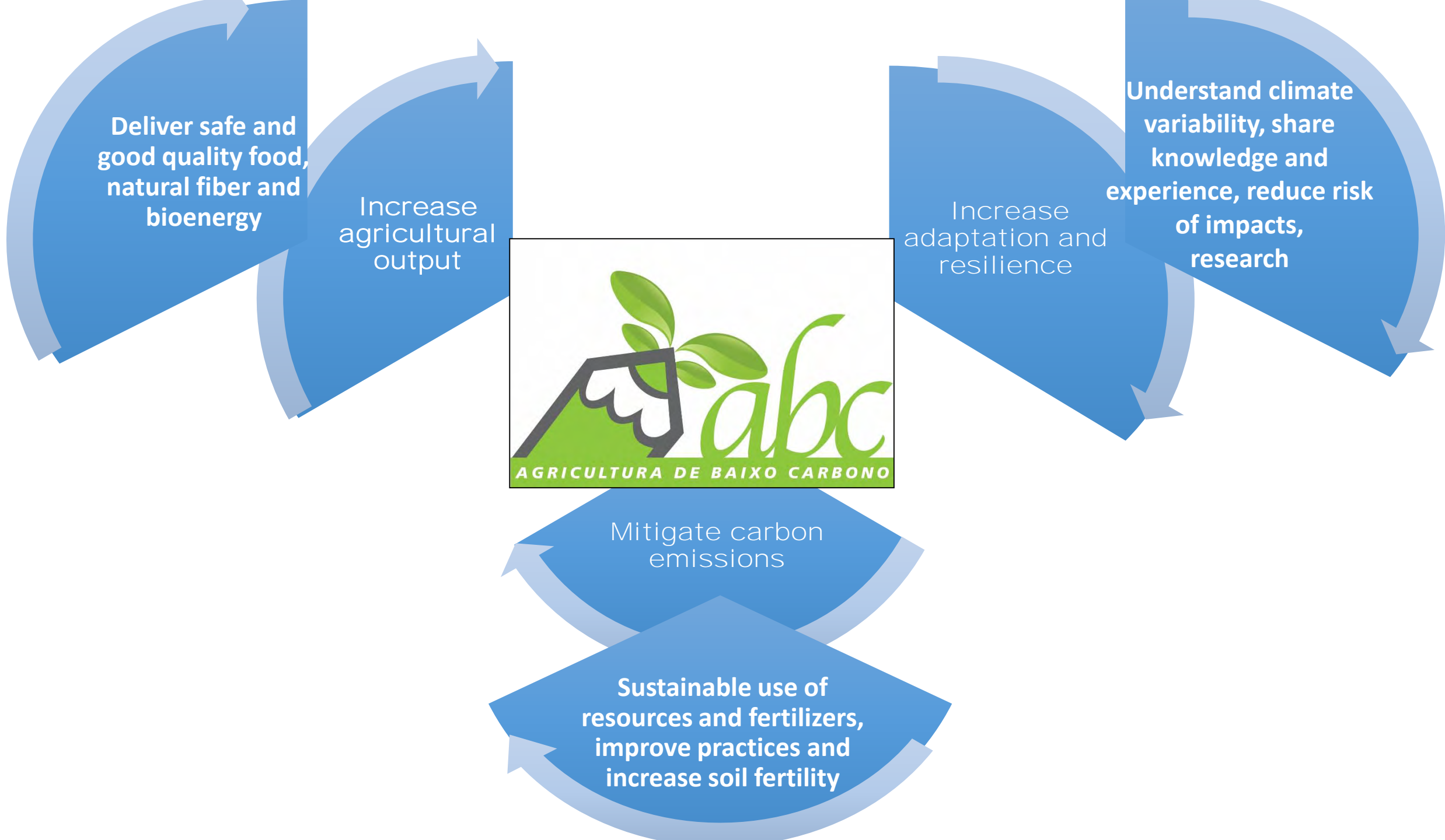


MINISTÉRIO DA  
AGRICULTURA, PECUÁRIA  
E ABASTECIMENTO



Gustavo Mozzer

Global Policies Coordination  
International Relations Secretariat  
Embrapa



Deliver safe and good quality food, natural fiber and bioenergy

Increase agricultural output

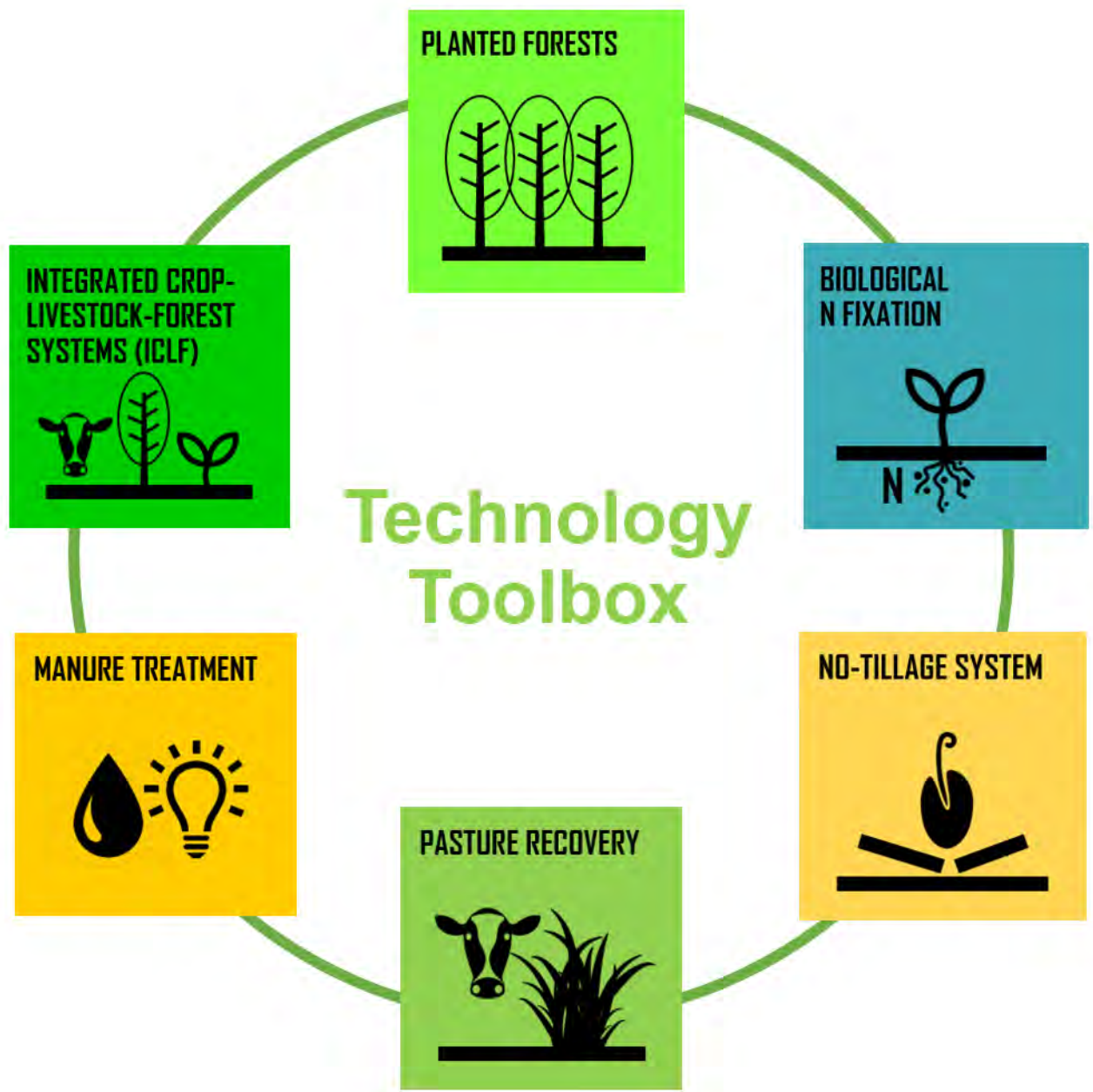
Increase adaptation and resilience

Understand climate variability, share knowledge and experience, reduce risk of impacts, research



Mitigate carbon emissions

Sustainable use of resources and fertilizers, improve practices and increase soil fertility



Resilience  
and  
Sustainability

Co-benefit:  
Carbon  
mitigation

# ABC Program

2020 targets (1.3 GtCO<sub>2</sub>eq.) => 37% reduction

## SUMMARYSING :

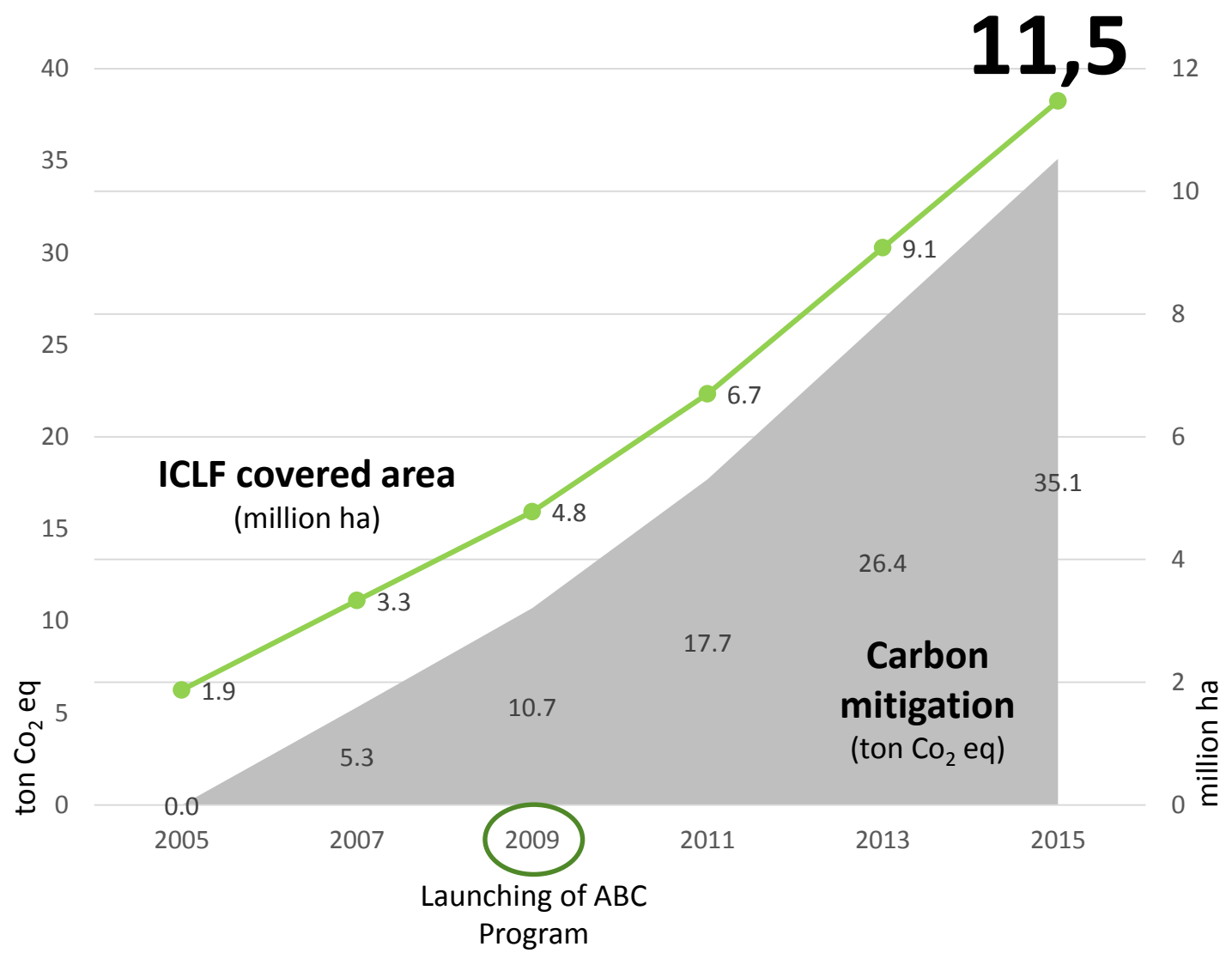
# NDC

2030 targets (1.2 Gt CO<sub>2</sub>eq.) => 43% reduction

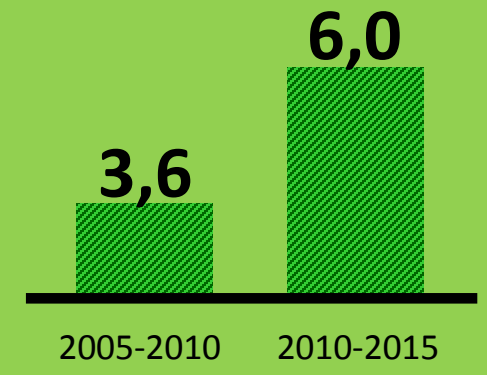
Tecnology	NAMAs (2020) ABC Program	NDC (2030) included NAMAs
Pasture recovery	15 million ha	30 million ha
Integrated crop-livestock-forestry systems - ICLF	4 million ha	9 million ha
Biological N Fixation	5,5 million ha	5,5 million ha
Planted forest	3 million ha	3 million ha
No-tillage systems	8 million ha	8 million ha
Manure treatment	4,4 million m <sup>3</sup>	4,4 million m <sup>3</sup>



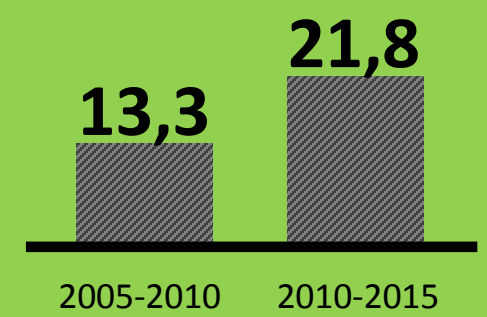
# ICLF adoption in Brazil



**ICLF new-added areas**  
(million ha)



**Estimated CO<sub>2</sub> mitigation**  
(ton CO<sub>2</sub> eq)



# Knowledge

## Research

Embrapa – major player in agriculture research in Brazil  
Climate change has been mainstreamed in Embrapa's research program

## Training

Over 27,000 people  
30% farmers  
68% technicians and extensionists  
2% college students

## Monitoring

# Farmer centered process



It had to make sense for the individual farmer

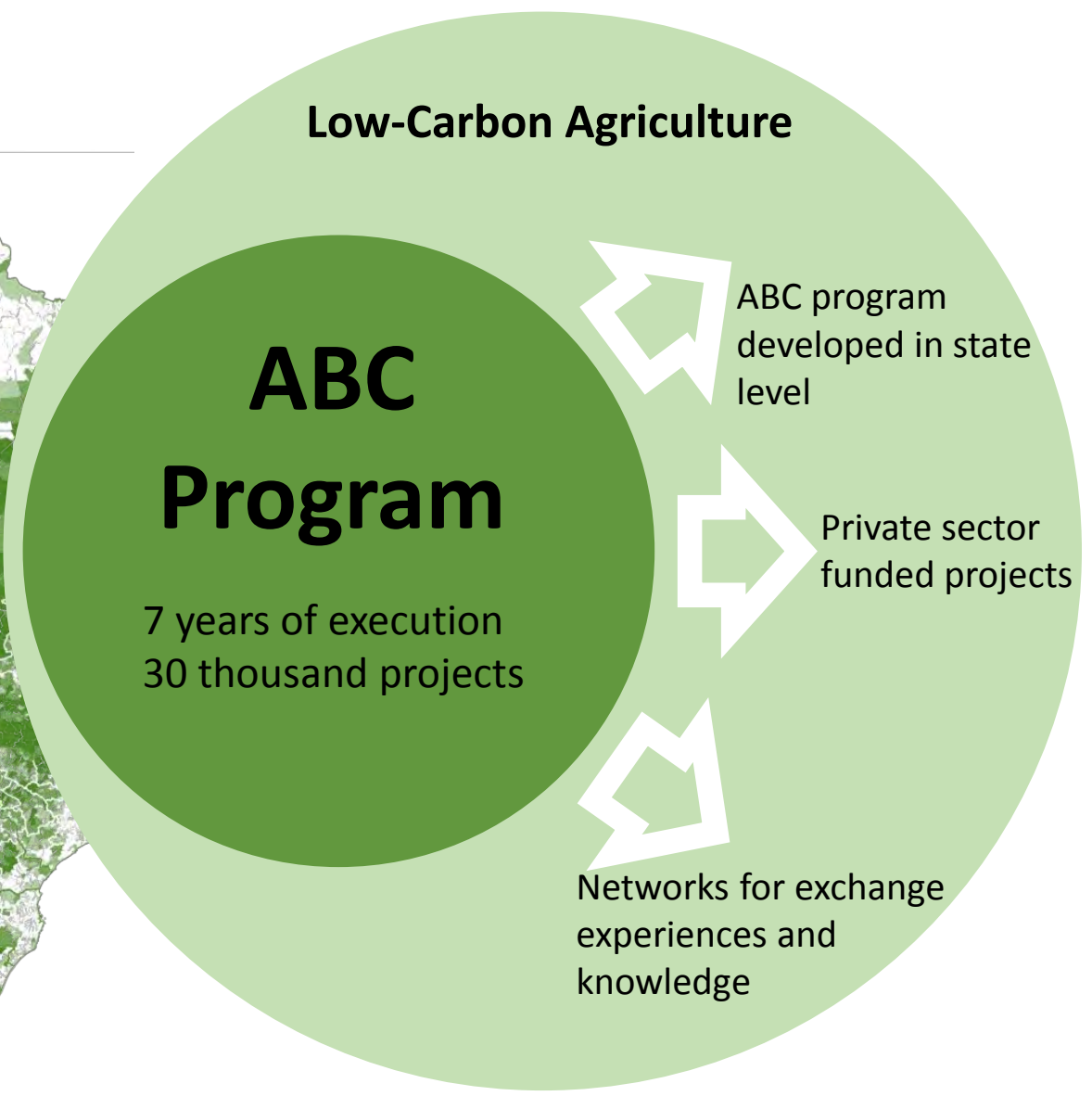
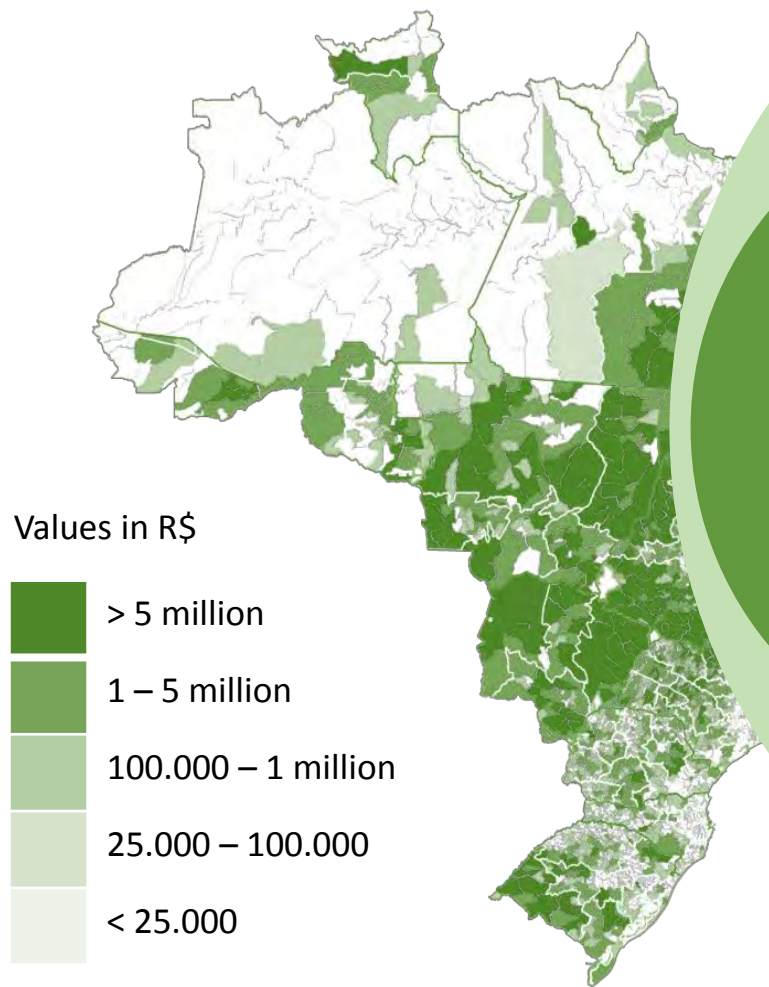
# Finance

Loan program

Operated by the banking system

# Governance

State level commissions with farmers and civil society



## Low-carbon agriculture has outgrown the ABC Program

From federal to state and local programs

From public to private financing

From ABC Program training courses to widespread technical knowledge