

Brazilian Agriculture & Bioeconomy

Green Rio 2019

MINISTÉRIO DA
AGRICULTURA, PECUÁRIA
E ABASTECIMENTO



PÁTRIA AMADA
BRASIL
GOVERNO FEDERAL

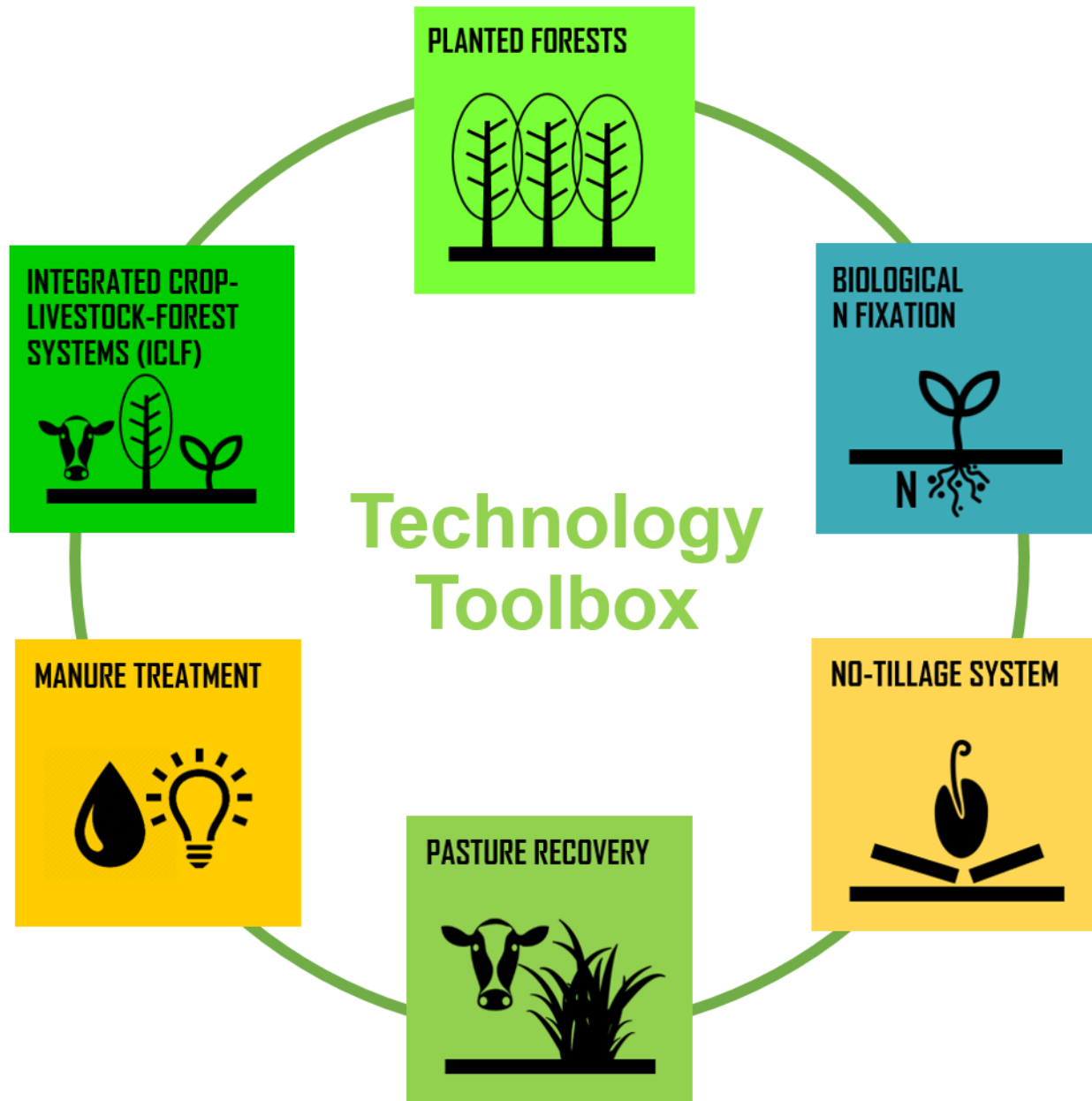


Ethanol-fuelled vehicle, Ministry of Agriculture's Experimental Fuel Station, 1925

Low-Carbon Agriculture



**Bioeconomy
is part of the
fabric of
Brazilian
agriculture**



Resilience
+
Sustainability
+
Carbon mitigation

ABC Plan Targets

8 million ha

16-20 Mton Co₂ eq

NO-TILLAGE SYSTEM



**INTEGRATED CROP-
LIVESTOCK-FOREST
SYSTEMS (ICLF)**



9 million ha

40.5-49.5*
Mton Co₂ eq

4.4 million m³

6,9 Mton Co₂ eq

MANURE TREATMENT



PASTURE RECOVERY



30 million ha

166-208*
Mton Co₂ eq

5.5 million ha

10 Mton Co₂ eq

**BIOLOGICAL
N FIXATION**



PLANTED FORESTS



3 million ha

8-10 Mton CO₂ eq



Integrated Crop Livestock Forest Systems





Benefits of ICLF systems



Optimization and intensification of soil nutrient cycling



Biodiversity conservation and sustainable agriculture



Increase in net income allowing greater capitalization for the producer



Improvement of the quality and conservation of the soil's productive characteristics



Increased production of grains, meat, milk, timber, and non-timber products from the same area



Greater efficiency in the use of resources [water, light, nutrients and capital] and increased energy balance



Applicable to farms of all sizes and profiles



Reduction of labor seasonality and rural flight



Improvement of animal welfare due to greater thermal comfort



Mitigation of greenhouse gas



Creation of direct and indirect jobs



Improving the public image of farmers within the society



Pressure release, by creating new areas of native vegetation



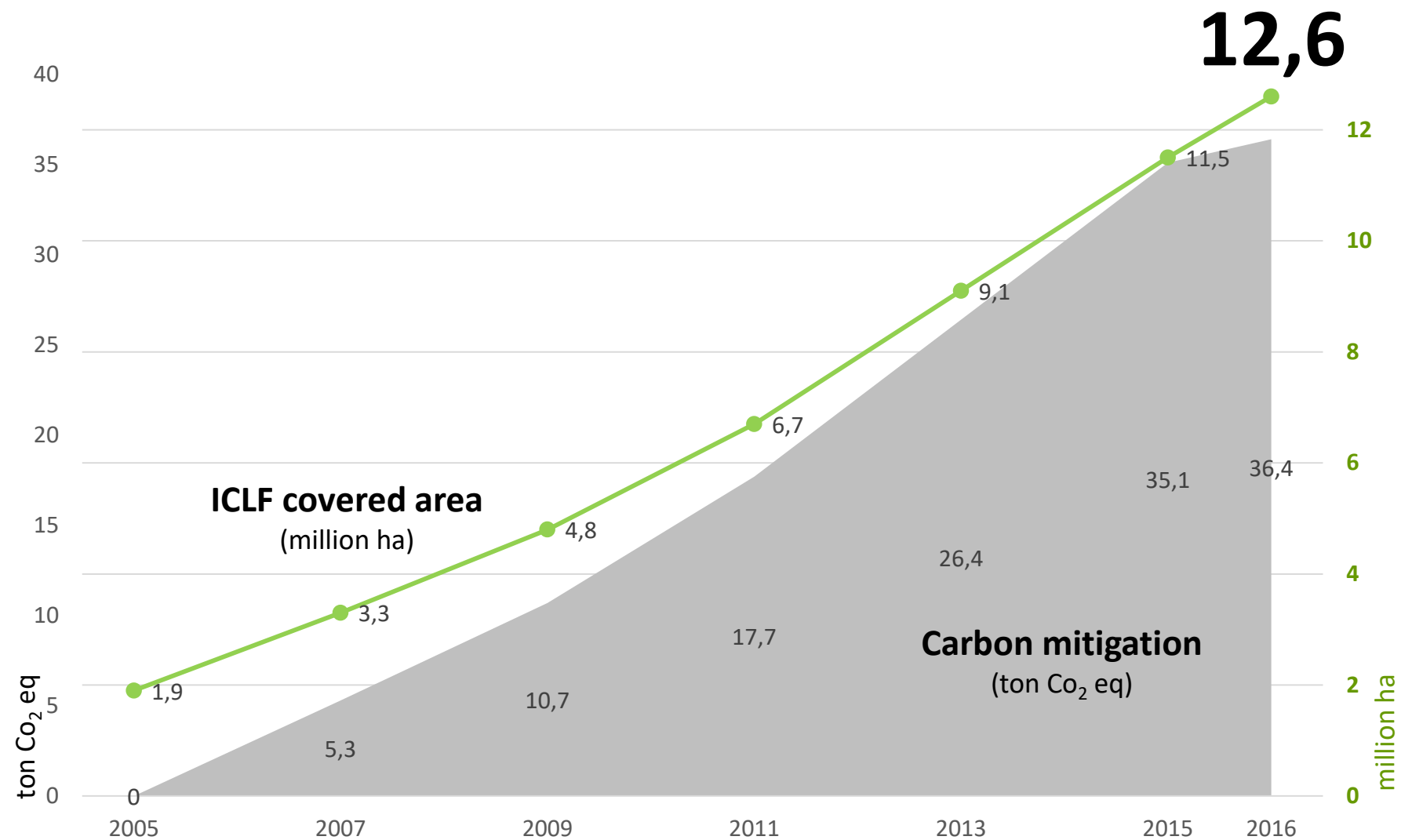
Greater optimization of processes and production factors



Economic stability, by reducing risk and uncertainty through production diversification



Integrated Crop Livestock Forest Systems in Brazil



Bioenergy



ÁLCOOL HIDRATADO:

1-Não misturar à gasolina.

2-Não utilizar em motores não adaptados.

ÁLCOOL BR

TOTALDE CESP

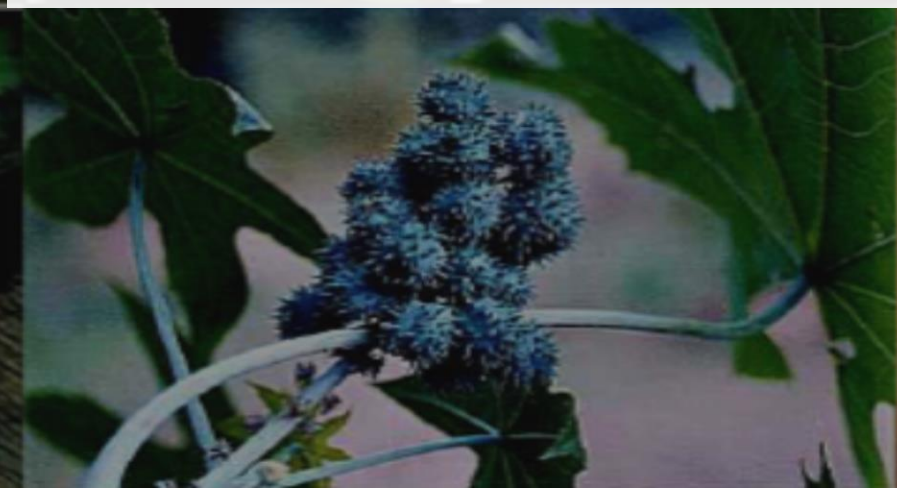
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BR

The large-scale use of biofuels in Brazil dates back to the 1970s



**Brazil remains a
global leader in
biofuels**



RenovaBio is widening the use of bioenergy in Brazil





biofuture platform

Kickstarting a global, advanced bioeconomy

Member Countries



**Challenges
ahead**

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