# A REGIONAL PARTNERSHIP WAS CREATED TO ADJUST REGION TO FOREST CODE









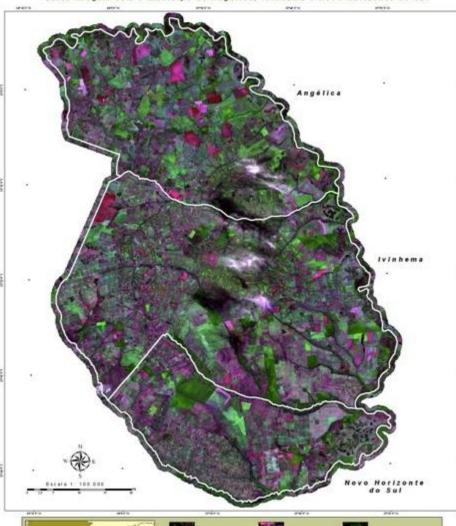
PARTNERS: TNC, ADECOAGRO, BIOSUL, IMASUL





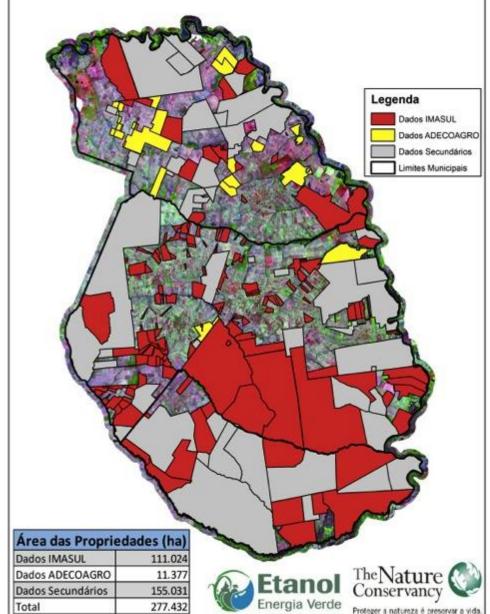


PROJETO DE ADEQUAÇÃO AMBIENTAL EM PROPRIEDADES RURAIS Carta imagem com o municípo de Angélica, Ivinhema e Novo Morizonte do Sul





## Projeto Etanol Energia Verde Situação em Setembro - 2013



## SUGARCANE ETHANOL ENVIRONMENTAL PERFORMANCE

# Advantages of sugarcane ethanol

Source				
Country	Brazil	USA	EU	EU
Energy balance (units of renewable energy per unit of fossil fuel input)	9.3	1.4	2.0	2.0
Productivity (liters/hectare)	7,000	3,800	2,500	5,500
GHG reduction (from US and EU legislations)	61%-91%	0%-38%	16%-69%	52%

<sup>\*</sup>Note: reduction of avoided emissions with ethanol as a gasoline substitute and calculated according to life-cycle analysis. Source: World Watch Institute (2006) and Macedo et al. (2008) – energy balance. Productivity: IEA – International Energy Agency (2005), MTEC, EU Commission, EPA and UNICA. GEE: IEA – International Energy Agency (2004) and Macedo, I. de C. et al. (2004 and 2008). Elaboration: UNICA

# ADECOAGRO MEETS AMERICAN REQUIREMENTS FOR CLEAN SUGARCANE ETHANOL EXPORTS



- Since July 2011, we are able to export ethanol to US under the classification of *advanced biofuels*, which save 50% GHG emissions vs. gasoline.
- One of the main requirements is to not harvest areas deforested after December 2007.
- Depending on market conditions, premium is paid for sugarcane ethanol over American corn ethanol.
- The Californian government sets additional requirements for biofuels used in the State.
- Angélica was the 1<sup>st</sup> sugarcane mill worldwide to be granted by CARB the lowest carbon intensity (58.4 g CO2e/MJ) based on its high level of mechanized non-burnt cane harvesting and cogenerated energy exports.

California Environmental Protection Agency



## **ADECOAGRO'S MILLS ARE BONSUCRO CERTIFIED**



- Bonsucro is a global initiative focused on improving the social, environmental and economic sustainability of sugarcane and its products.
- It assures buyers, suppliers and consumers that sugar and ethanol are produced with a focus on fulfillment of five key items: (i) legal compliance; (ii) biodiversity and ecosystem impacts; (iii) human rights; (iv) production and processing; and (v) continuous improvement.
- It meets the sustainability criteria set by the European Union Renewable Energy Directive, which mandates 20% renewable energy consumption for its Member States by 2020.
- It is a single certification auditing both sugar and ethanol streams. This allows mills to freely switch between the two.

- Angélica mill was the 1st mill in Mato Grosso do Sul and the 16th worldwide to achieve the certification in July 2012. More than 33 thousand hectares were certified.
- In January 2013 it was the time for Monte Alegre mill to have 100% of its production certified, reaching 15 thousand hectares.

