



# Sugar Cane Revolution... New Products

**ETHANOL SUMMIT** 

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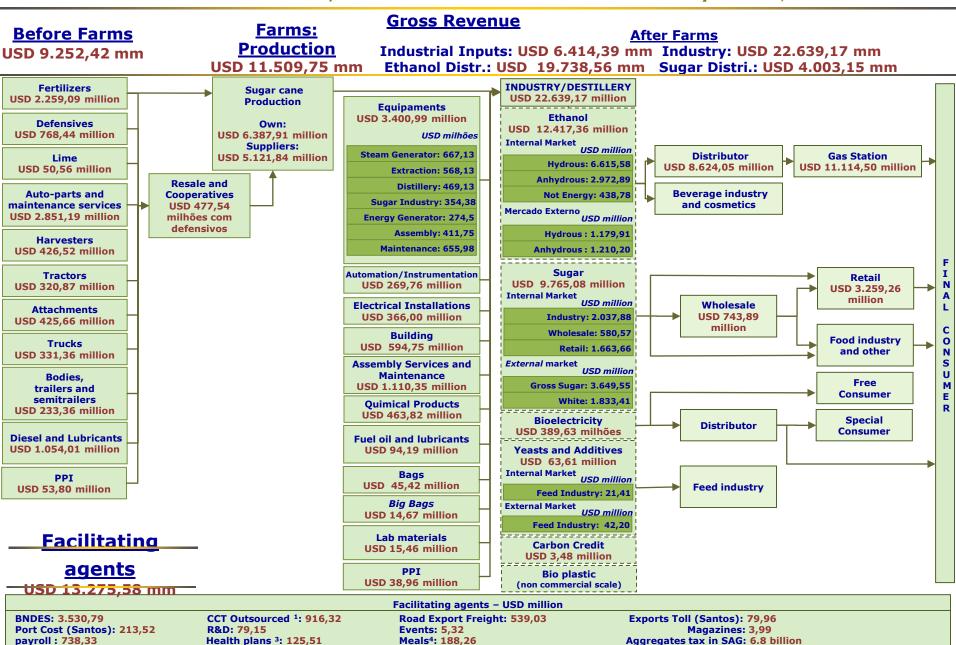
Markestrat – Centro de Pesquisa e Projetos em Marketing e Estratégia da USP Why this panel is called the Sugar Cane Revolution?





#### **SUGAR-CANE CHAIN IN BRAZIL**

#### GDP in 2008: USD 28 billion; Financial Movement of the Chain in one year: US\$ 86 billion



<sup>1-</sup> South Center region. 2- Exports by Portos de Santos e Paranaguá. 3 e 4 - Only São Paulo state.

Source: Neves, Trombin, Consoli, 2009.

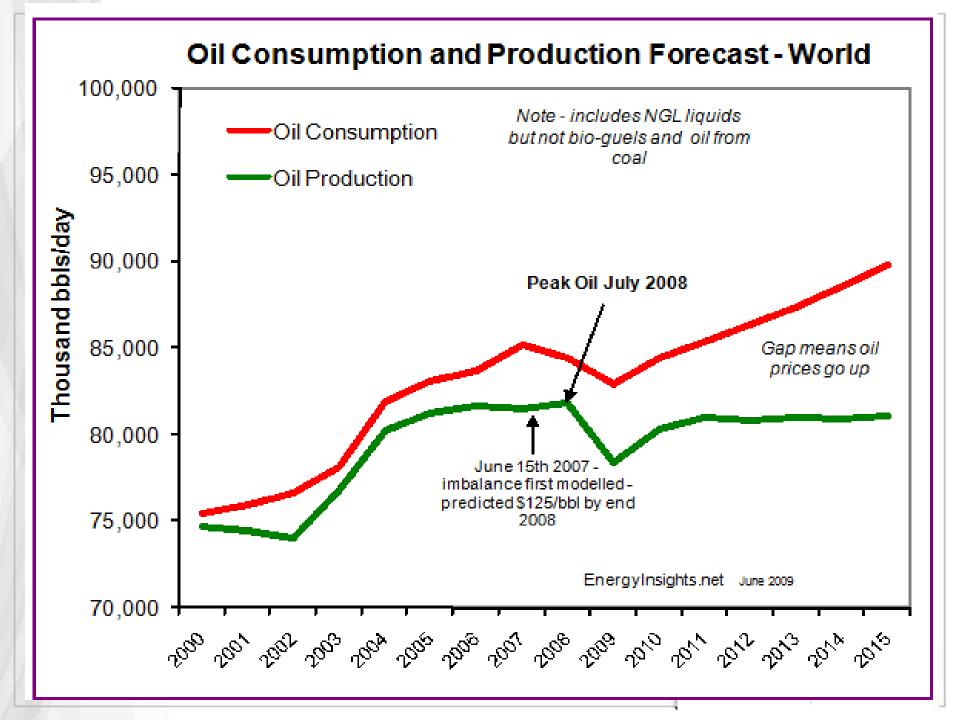
# What is happening with oil?









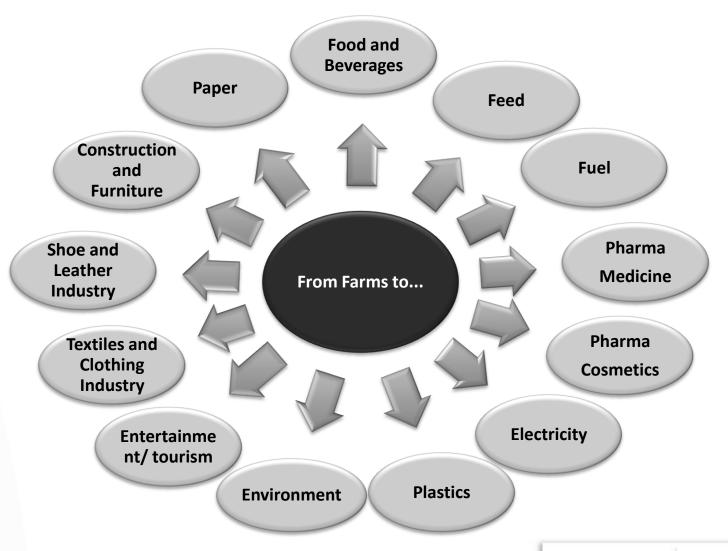


So... what happens when oil prices go up?





# The Bio...Everything is coming from the farm!









And locally, what happened?





■ The Tsunami Flex...











### This year... more 3,4 million consumers...



#### RESUMO MENSAL ABRIL 2011

SEGMENTO	2011	2011	ACUMUL. 20		010	Previsão MB		
	Abr (A)	Mar (B)	2011 (C)	Abr (D)	ACUMUL. (E)	Abr Acumulad 2011 2011		
a) Autos	211.887	224.119	818.733	208.917	813.456	217.787	2.713.126	
b) Com. Leves	61.036	64.630	231.908	52.982	198.947	55.638	755.870	
(a + b)	272.923 288.749 1.050.6		1.050.641	261.899	1.012.403	273.425	3.468.996	



## 84% of the new consumers are Flex Fuel Cars...

Autos + Com. Leves	Fevereiro/2011	Março/2011	Abril/2011	Total
Flex	220.305	244.260	227.138	884.990
Demais	38.517	44.489	45.786	165.652
Total	258.822	288.749	272.924	1.050.642

Autos + Com. Leves	Fevereiro/2011	Março/2011	Abril/2011	Total
Flex	85,12%	84,59%	83,22%	84,23%
Demais	14,88%	15,41%	16,78%	15,77%
Total	100%	100%	100%	100%

FFNABRAV



#### With 2 million new cars/year, we need 143 new mills till 2020

With	n 2 mi	llion	new (	cars/y	ear, v	ve ne	ed 143	3 new	mills	till 20	20
ANO EM CONSIDERAÇÃO	2010	2011	. 2012	2013	2014	2015	2016	2017	2018	2019	2020
Frota Automóveis flex fuel (unidades)	12,500,000	15,500,000	17,500,000	19,500,000	21,500,000	23,500,000	25,500,000	27,500,000	29,500,000	31,500,000	33,500,000
Consumo Potencial Hidratado (litros)	20,000,000,000	24,800,000,000	28,000,000,000	31,200,000,000	34,400,000,000	37,600,000,000	40,800,000,000	44,000,000,000	47,200,000,000	50,400,000,000	53,600,000,000
Faturamento Total com Hidratado (R\$)	34,000,000,000	42,160,000,000	47,600,000,000	53,040,000,000	58,480,000,000	63,920,000,000	69,360,000,000	74,800,000,000	80,240,000,000	85,680,000,000	91,120,000,000
Deficit de litros de hidratado	5,000,000,000	9,800,000,000	13,000,000,000	16,200,000,000	19,400,000,000	22,600,000,000	25,800,000,000	29,000,000,000	32,200,000,000	35,400,000,000	38,600,000,000
Faturamento que se deixa de ter	8,500,000,000	16,660,000,000	22,100,000,000	27,540,000,000	32,980,000,000	38,420,000,000	43,860,000,000	49,300,000,000	54,740,000,000	60,180,000,000	65,620,000,000
Hectares necessários de cana para hidrat.	2,614,379	3,241,830	3,660,131	4,078,431	4,496,732	4,915,033	5,333,333	5,751,634	6,169,935	6,588,235	7,006,536
Hectares em falta	653,595	1,281,046	1,699,346	2,117,647	2,535,948	2,954,248	3,372,549	3,790,850	4,209,150	4,627,451	5,045,752
Toneladas necessárias de cana para o total	222,222,222	275,555,556	311,111,111	346,666,667	382,222,222	417,777,778	453,333,333	488,888,889	524,444,444	560,000,000	595,555,556
Toneladas de cana em falta (potencial)	55,555,556	108,888,889	144,444,444	180,000,000	215,555,556	251,111,111	286,666,667	322,222,222	357,777,778	393,333,333	428,888,889
Usinas necessárias para o potencial	74	92	104	116	127	139	151	163	175	187	199
Usinas adicionais necessárias	19	36	48	60	72	84	96	107	119	131	143
Valor a ser investido em Usinas (US\$)	8,055,555,556	15,788,888,889	20,944,444,444	26,100,000,000	31,255,555,556	36,411,111,111	41,566,666,667	46,722,222,222	51,877,777,778	57,033,333,333	62,188,888,889
Fonte: Prof. Marcos Fava Neves											
AM							'				
INDICADORES UTILIZADOS											
	1 usina produz (so hidratado) 270,000,000		milhões de litr								
			litros hidratado								
			litros hidratado								
		toneladas de ca litros de hidrata									
1 carro flex consome			litros/dia	ado/ano							
1 Carro Flex consome Preço do litro no posto		1.70									
Acrescimo anual de carros flex		2,000,000	•								
			bilhões de litro	5						M	
Tamanho da Usina			milhoes de ton							MARKES	STRAT
		,,									

145 US\$/tonelada de cana, sendo aprox-

Investimento para uma Usina nova (hidrat)

So... Mr. James Pessoa, Mr. John Melo, Mr. Lee Edwards and Mr. John Ingham... You are developing other uses for sugar cane and ethanol...

We are curious to see...





But be patient... Lets call first Mr. Antonio Guimarães, because... we need cane, and... "to bring plant potential to life"!



