S&P Global Platts



Kingsman Asia Sugar Conference

September 5 - 6, 2018 | The Leela Ambience Gurgaon | NCT Delhi, India

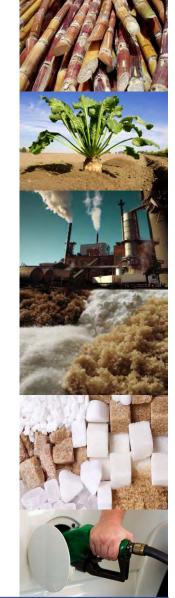
The evolving future of the sugar industry



José Orive, Executive Director International Sugar Organization

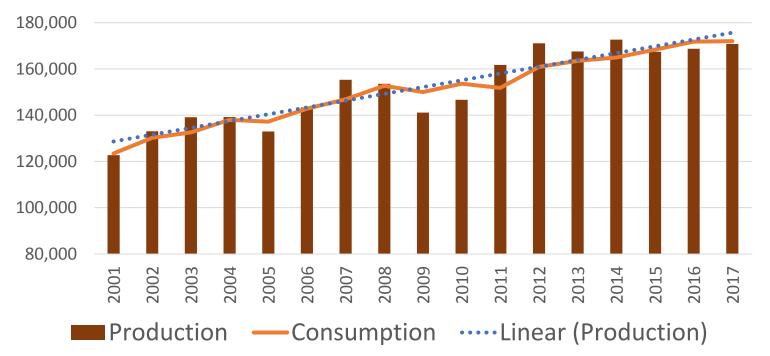
21st Century Tectonic Shifts in the World SO Sugar Economy *inter alia*

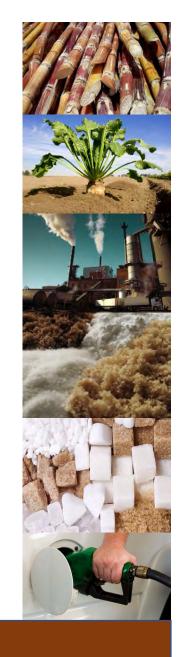
- since 2001 world production has grown by 50 mln tonnes or 40%
- the volume of world sugar trade has grown grew by 20 mln tonnes or 50%
- the introduction of flexible-fuel vehicles in Brazil and new paradigm of cane use
- the EU sugar regime reforms in 2006 and 2017
- a creation of the common sweeteners market in NAFTA
- robust growth of sugar output in Thailand and Russia
- an impressive growth of imports by China
- mushrooming destination refineries
- growing importance of VHP sugar in the international trade
- a widening anti-sugar campaign in many countries all over the world



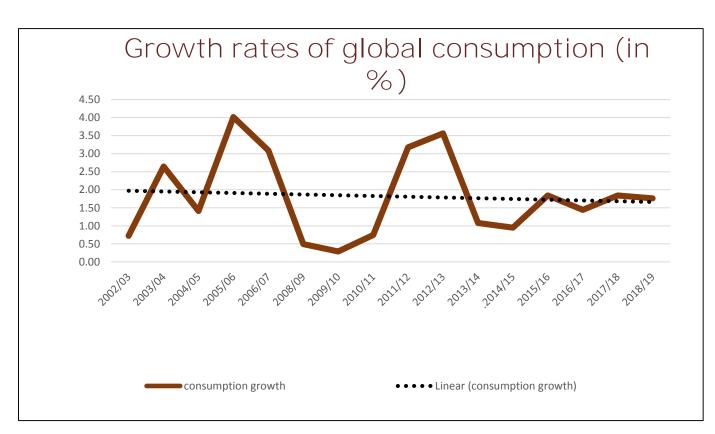


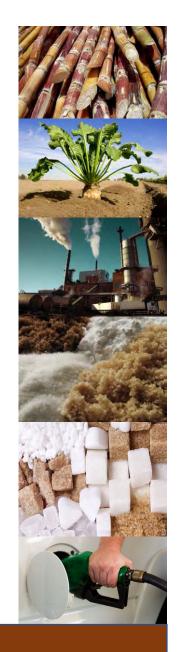
World Sugar Production and Consumption, 2001-2017 (in 1,000 tonnes, tel quel)





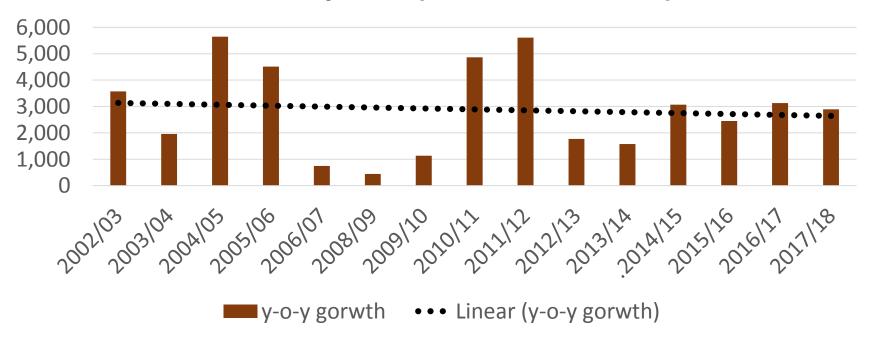


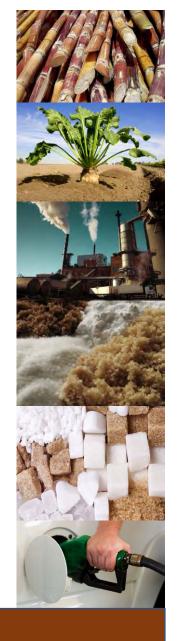






Year-on-Year growth in world sugar consumption (in 1,000 tonnes)







"" ... Usage is forecast to grow further to reach almost 200 tonnes by 2021/22." August 2012



"World sugar consumption in 2021 = 202 mln tonnes" June 2012

"The new ISO sugar consumption model puts world sugar consumption in 2020 at 201 mln tonnes, a worldwide projected annual growth of 2% a year." October 2010 -MECAS(10)17







"" ... Usage is forecast to grow further to exceed 200 mln tonnes, raw value, in 2023/24." August 2018

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"World sugar consumption in 2027 = 198 mln tonnes, tel quel" **June 2018**

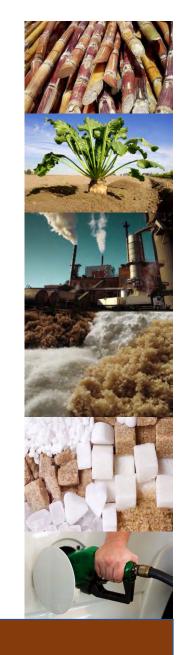
"Assuming an average growth rate at a level of about 1.6% tonnes world consumption of sugar may reach 200 mln tonnes, tel quel, in 2025/26" September 2018







disappearance ≠ consumption consumption ≠ human intake





Disappearance v human consumption

	Primary	Loss from	Weight	Loss from	Weight	Loss at c	oss at consumer level		Per capita		Calories		Calories	Servings
	weight	primary to	at	retail/institutional	at		Other	consumption,		per	Serving	consumed	(teaspoons)	
Year	(market	retail	reta	to consumer	onsumer	Nonedible	(uneaten food,	adjusted		serving	weight	daily 3/	consumed	
	level) 2/	weight	level	level	level	share	spoilage, etc.)	for loss			(teaspoon)			daily 4/
	lb/yr	percent	lb/yr	percent	lb/yr	percent	percent	lb/yr	oz/day	g/day	number	grams	number	teaspoons
2011	65.9	0.0	65.9	11.0	58.7	0.0	34.0	38.7	1.7	48.1	16.0	4.2	183	11.5
2012	66.7	0.0	66.7	11.0	59.3	0.0	34.0	39.2	1.7	48.7	16.0	4.2	185	11.6
2013	68.0	0.0	68.0	11.0	60.5	0.0	34.0	40.0	1.8	49.6	16.0	4.2	189	11.8
2014	68.4	0.0	68.4	11.0	60.9	0.0	34.0	40.2	1.8	50.0	16.0	4.2	190	11.9
2015	69.2	0.0	69.2	11.0	61.5	0.0	34.0	40.6	1.8	50.5	16.0	4.2	192	12.0
2016	69.7	0.0	69.7	12.0	61.3	0.0	34.0	40.5	1.8	50.3	16.0	4.2	192	12.0

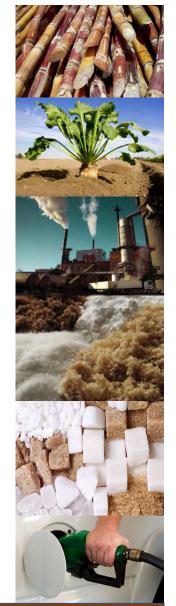
Source - https://www.ers.usda.gov/data-products/sugar-and-sweeteners-yearbook-tables/sugar-and-sweeteners-yearbook-tables/#U.S.%20Sugar%20Supply%20and%20Use



The ISO does not include the sugar equivalent of beet and cane that were not processed into the end product crystal sugar (such as those used for fuel ethanol or biogas) in its sugar production estimates



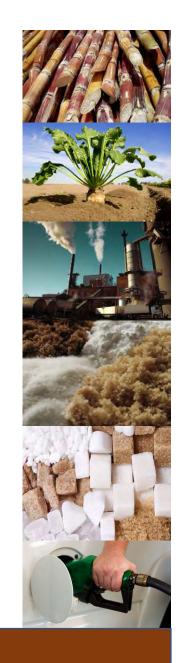






The trade of sugar-containing products?





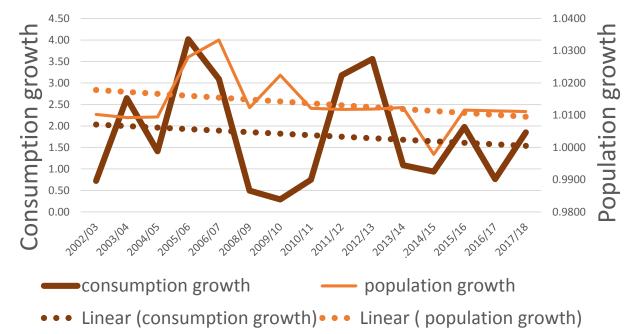


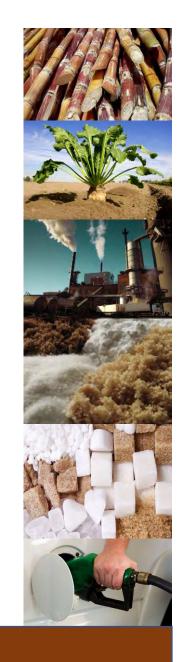
- Population growth,
- Per capita incomes,
- Domestic prices for sugar and sugar-containing products,
- The availability of alternative sweeteners and their prices,
- Changes in dietary habits (diet globalization), and since recently
- Health concerns.

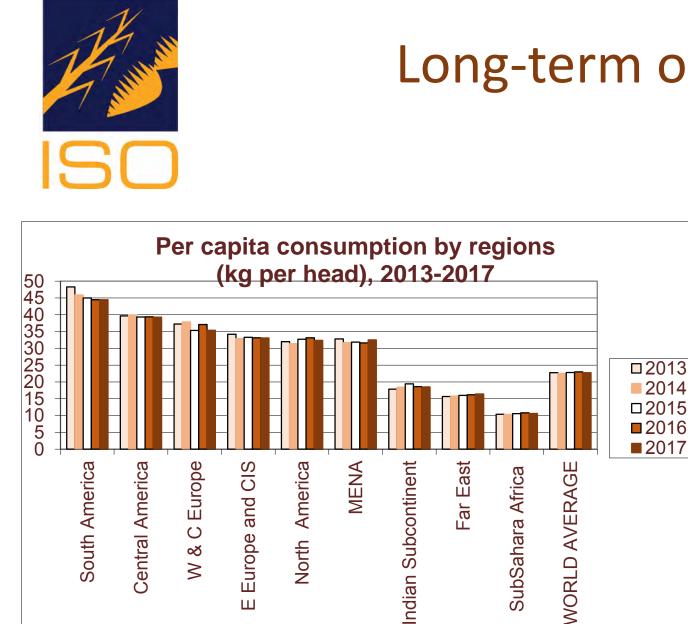


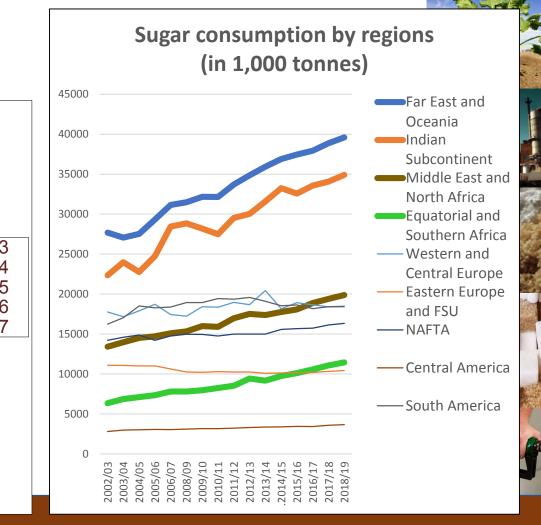


Population and Sugar Consumption Growth Rates in %





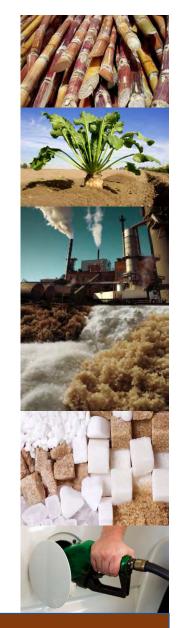








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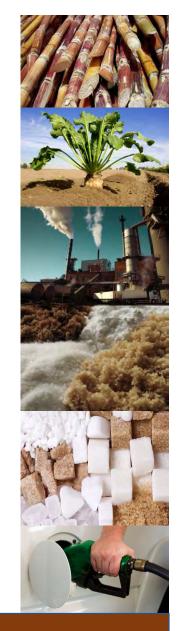
"The sugar tax is too sexy for politicians ... Everyone will jump immediately" Adamo Uboldi, the European Commission's DG AGRI sugar team, April 2018

Sugar Tax World Map





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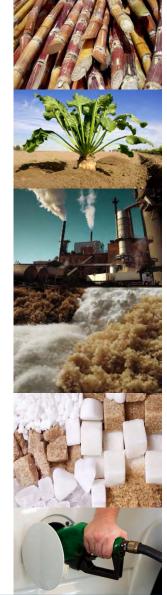
The Sugar Backlash





Key messages to take away:

- Global sugar consumption peeks growing but at a slower rate (satisfying this growth will be a challenge but it is one which the sugar industry is likely to rise up to);
- All the stock holders including the governments need reliable and coherent data on the actual human intake of sugar;
- Governments must stand up and defend sugar consumption invoking sound scientific evidence and the contribution of sugar for development.
- Sugar companies must engage in the dialogue





Thank you!



José Orive, Executive Director International Sugar Organization

