

## Agenda

- Global Obesity & Diabetes Crisis
- Food & Beverage Industry Responses?
- Role of Sugar Cause or Cure?
- Launch of unrefined Raw sugar Nucane<sup>TM</sup>
- How does Nucane<sup>TM</sup> work?
- Food Reformulations "Less is More"

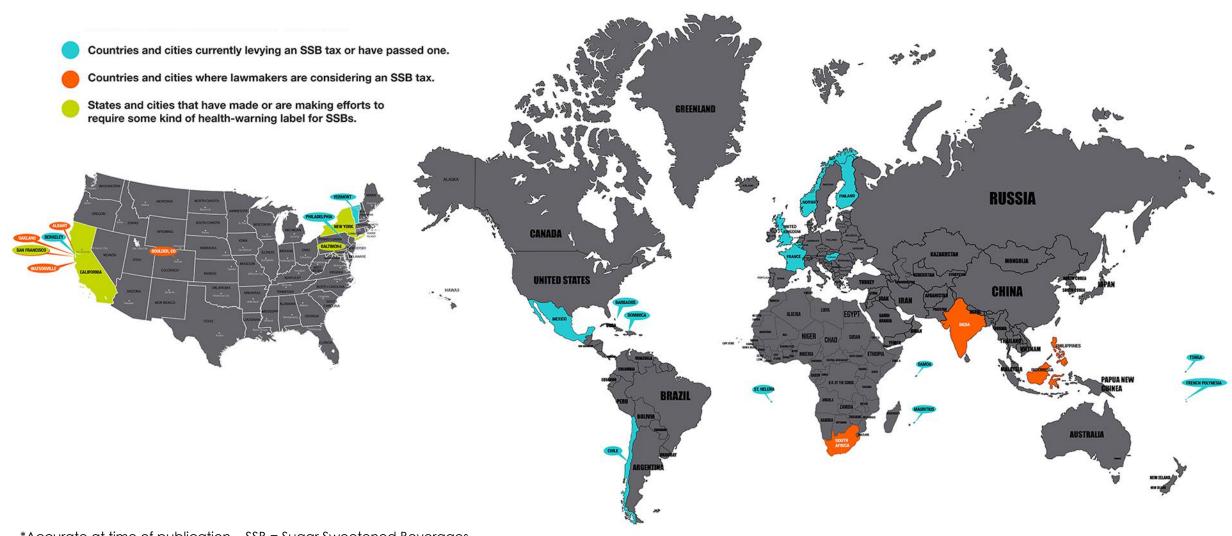






**THE WORLD URGENTLY** requires solutions to the pandemic of obesity.

## Sugar Taxes Implemented in 28 Countries



\*Accurate at time of publication. SSB = Sugar Sweetened Beverages.

Source: Cecil AM., "A sip becomes a drag", CrossFit Journal, 2016, accessed on 15 May 18 - <a href="http://library.crossfit.com/free/pdf/CFJ\_2016\_07\_Soda-Cecil9.pdf">http://library.crossfit.com/free/pdf/CFJ\_2016\_07\_Soda-Cecil9.pdf</a>

**Opinion** 

Sport Culture

Lifestyle





Australia World AUpolitics Environment Football Indigenous Australia Immigration Media Business Science Tech

#### **Essential poll**

The Guardian Essential Report

#### **Paul Karp**

**☞** @Paul\_Karp

Tue 16 Jan 2018 04.00 AEDT









This article is over 4 months old

#### Most Australians want sugar tax on drinks - Guardian Essential poll

More ~

Bill Shorten's approval rating slumps but Labor maintains its 53% to 47% two-party preferred lead



▲ The Guardian Essential poll found 53% of the 1,038 respondents were in favour of a sugar tax on drinks, compared with 38% opposed. Photograph: Richard Levine/Corbis via Getty Images

A majority of Australians support a tax on sugar-sweetened drinks, a new poll has found.

The Guardian Essential poll, released on Tuesday, found 53% of the 1,038 respondents were in favour of a sugar tax on drinks, compared with 38% opposed and 10% with no opinion.

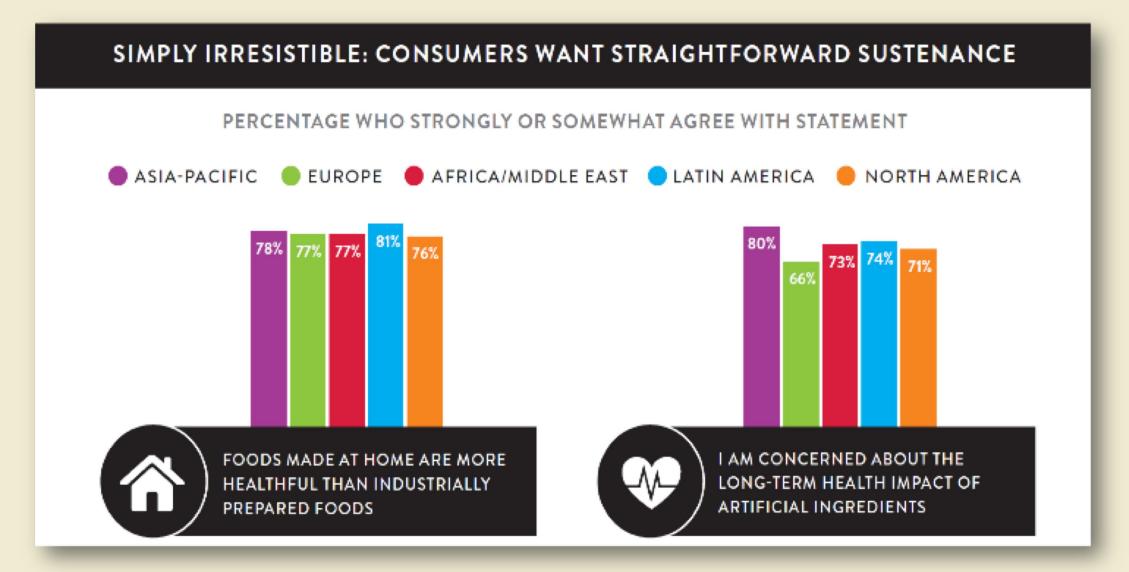
## ... and growing

pressure to reduce

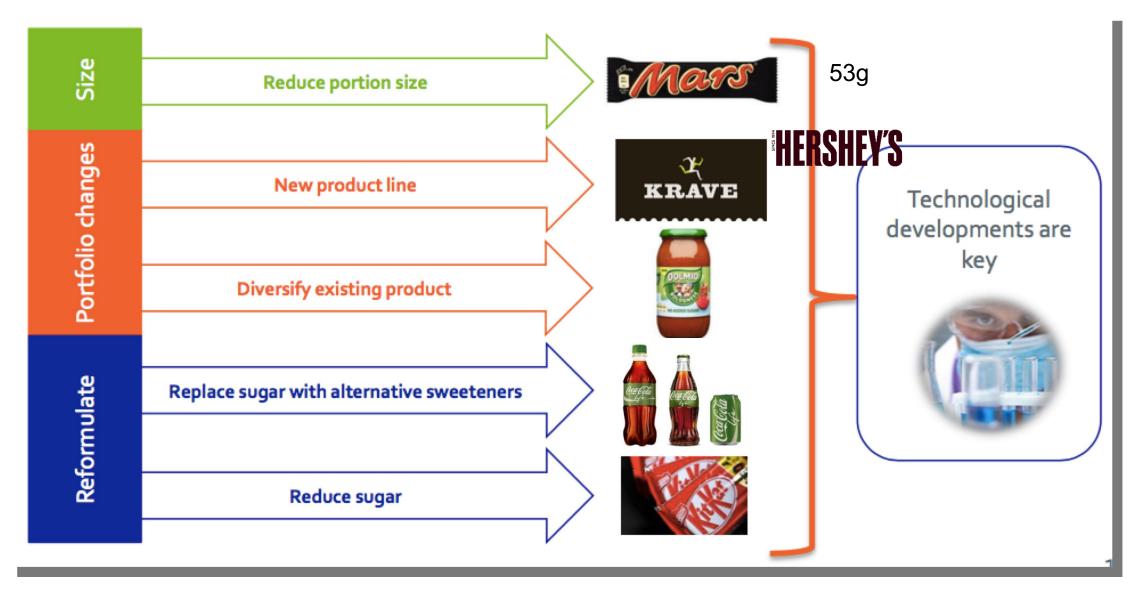
sugar levels as well

Source: Karp P., 2018, "Most Australians want sugar tax on drinks – Guardian Essential poll", The Guardian (Australia edition), accessed on 15 May 18 www.theauardian.com/australia-news/2018/ian/16/most-australians-wantsugar-tax-on-drinks-auardian-essential-poll

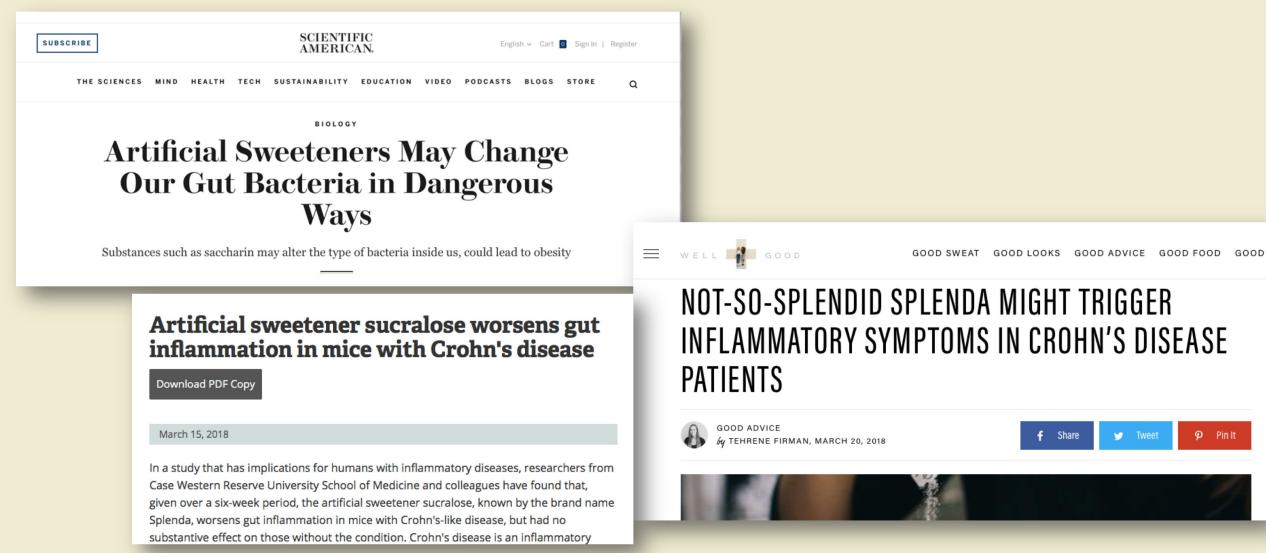
#### Consumers want more natural choices



## Brands are looking for solutions



## Sugar replacement may not always be healthier



### Over-refined foods are linked to the crisis





## Garlic. A recognised anti-inflammatory food

- Nutrient profile of unprocessed garlic.
- 62-68% Water
- 26-30% Carbohydrates (Sugar)
- 1.5-2.1% Protein: 0.6-1.9% Amino Acids
- 0.1-0.2% Lipids: 1.5% Fibre
- 06-1.3% Nitrogen compounds
- 0.23-0.37% Sulfur compounds
- 0.7% Vitamins A, B1, B2, C & Nicotinamide
- 0.015% Minerals Mg, Zn, Boron, Cobalt, Ca, CU, Sn & Mb



## Less processed sugarcane has proven health benefits...

"Scientific research has been confirming that Non Centrifugal Sugars has multiple health effects. Forty-six academic publications have been identified which reports them."

Source: Jaffe. Health effects of Non Centrifugal Sugars (NCS). 2012

Researched health effects include reducing risk of diabetes and obesity.



Jaggery. Common in India/S Asia

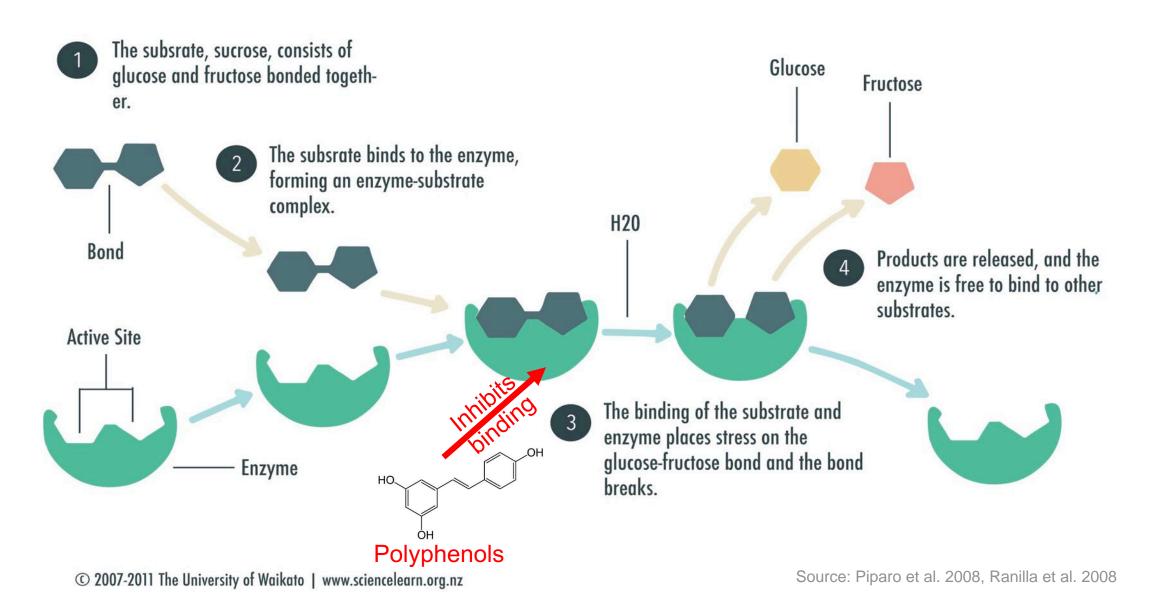
Source: Ranilla et al. 2008

## Why are brands not using Non Centrifugal Sugars?

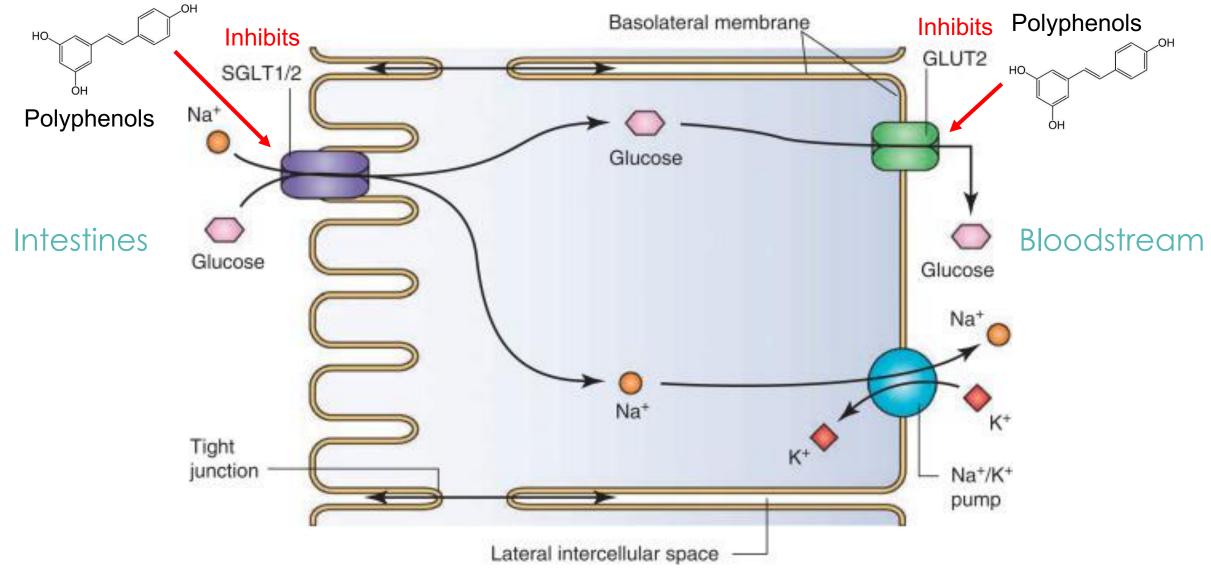
- Not made anywhere in industrial quantities. Only white refined sugar is industrial
- They are hygroscopic
- Has natural variability in taste, ICUMSA and nutrient profile
- They are handmade and up to USD\$30,000/tonne
- Not a one for one swap in recipes
- Sugar also functions as a:
  - Filler
  - Gold Standard Sweetener
  - Binder
  - Preservative



### Mechanism of action: slows metabolism of sucrose



## Mechanism of action: slows transport of glucose





# Industry is committed to change

- Global Food companies have all announced commitments to UN SDG 3
- Sugar solutions are a key and public element of this.
- CEOs have re-dedicated their organizations and resources to creating innovation and finding solutions.



Companies Publically Committed to UN SDG Goal Three: "Ensure Healthy Lives and Promote Well Being For All At All Ages"





















## THE AUSTRALIAN\* BUSINESS REVIEW



NEWS OPINION BUSINESS REVIEW NATIONAL AFFAIRS SPORT LIFE TECH ARTS TRAVEL HIGHER ED MEDIA PROPERTY

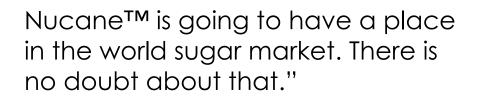
COMPANIES

Food engineers hit the sweet spot with

Nucane



Sunshine Sugar chief executive Chris Connors: 'I can see us in Australia leading the way on this and the world following'. Picture: Natalie Grono



**Chris Connors CEO of Sunshine Sugar** 







is the problem -- but sugar can also be the

# SOLUTION.

