Changes in Consumer Preference

Unlocking growth through insight, innovation and partnerships.

FSSP Conference August 2019. Matthew Godfrey and Dr. David Kannar





Global customers driving sugar reduction

Global trend for healthier low sugar food options accelerating

- 50% of US consumers looking to reduce sugar
- 2 in 5 are reducing sweetened snacks
- 20% of all 2018 USA Dairy launches in 2018 had lower sugar claims

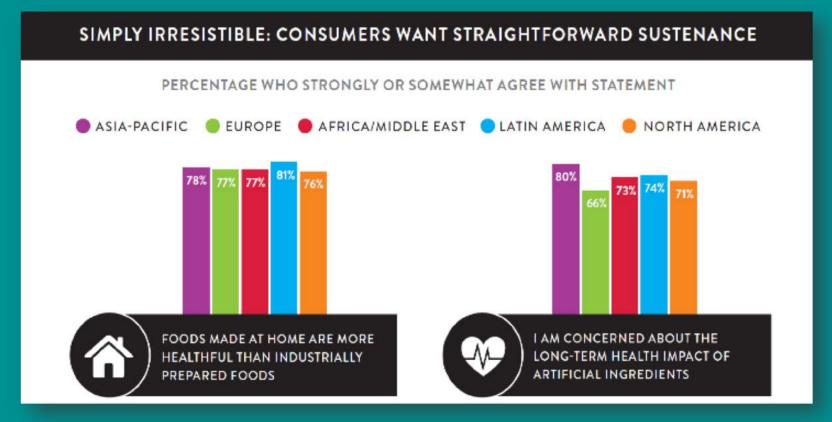


"We aim to cut 20% of sugar by 2025."

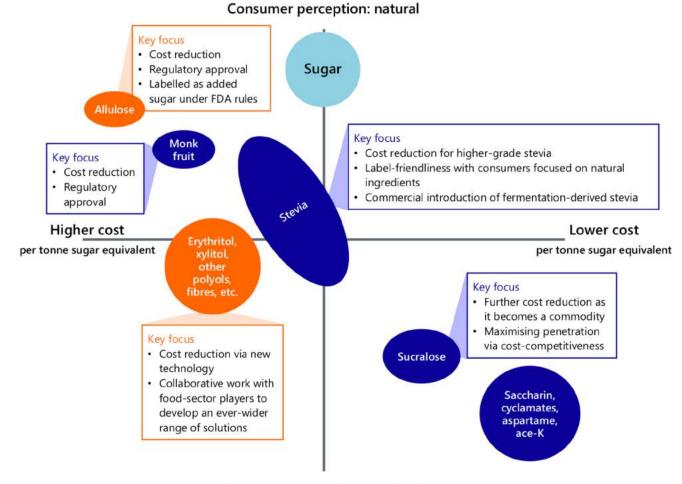
Colin Bradley. Coca-Cola USA BCI. 2019



Consumers want nature not chemicals





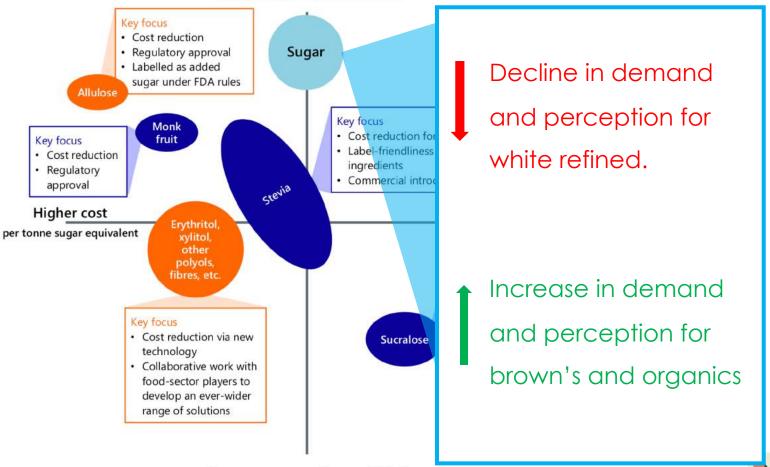


Consumer perception: artificial

Source: Rabobank 2018 ermission



Consumer perception: natural



Consumer perception: artificial

Source: Rabobank 2018 ermission NUTRITION

A NAURAL, HEALTHIER INDUSTRIAL SPECIFICATION OF LOW GLYCEMIC BROWN SUGAR







Nucane is a new industrial specification of "brown" sugar



Active Anti-oxidants



Supports sugar reduction



Taste/Sensory benefits



Low Glycemic for normal blood sugar levels



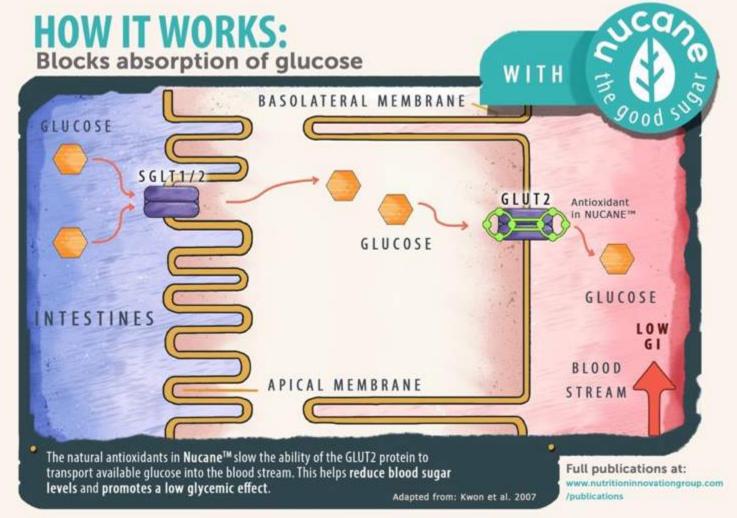
Less Processed
All Natural



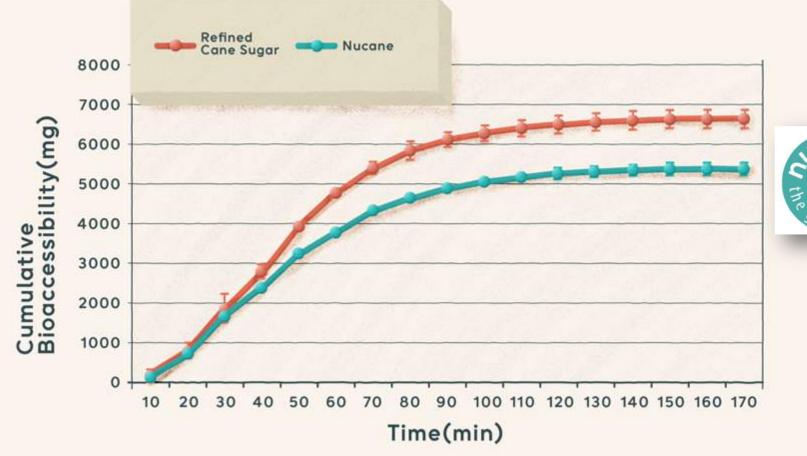
Clean Labelling



HOW IT WORKS: WITH Slows the metabolism of sucrose Sucrose Molecule Sucrose molecule remains bonded for longer. Antioxidant Bond in NUCANE™ Enzyme glucose and fructose absorbed by the body, therefore promoting a low glycemic effect. Full publications at: www.nutritioninnovationgroup.com/publications Adapted from: Piparo et al. 2008, Ranilla et al. 2008



20% Less Sugar is Bio-accessible with Nucane Raw Sugar



BAKER'S DELIGHT OVER 600 STORES IN AUSTRALIA







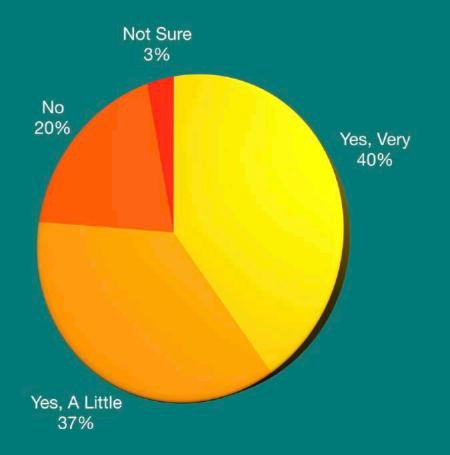
In Partnership with ESA, This Opportunity Can Be Unlocked In SACU And Beyond!







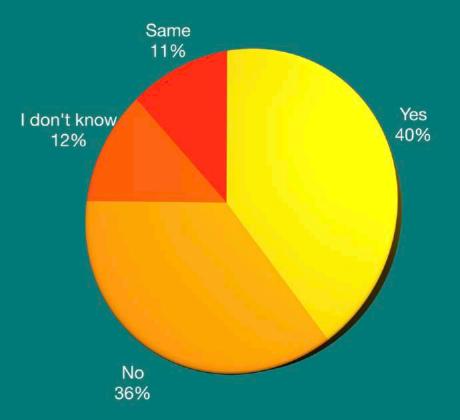
Are you concerned about sugar in your diet?



77% of S.A consumers are concerned about their consumption levels.



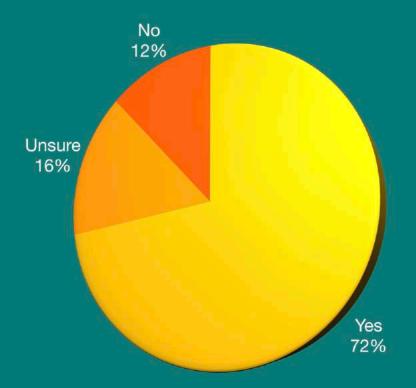
Has sugar tax been a positive step forward for S.A?



Taxes are usually unpopular, but around the world sugar tax general has support.. including S.A.



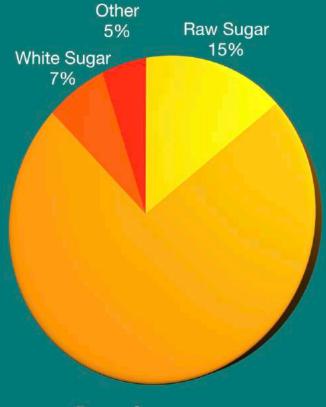
Would a health claim motivate you to change your brand of sugar?



The majority of SA consumers will switch sugar brands for a healthier option.



Which is the healthiest sugar to eat?

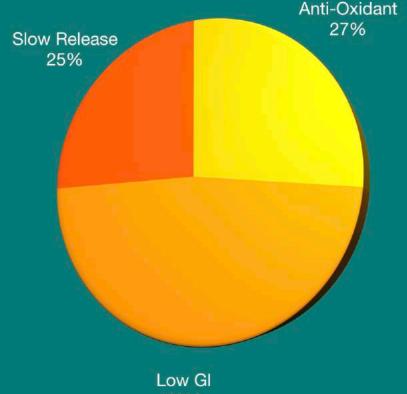


The perception towards "browns" as less processed and less refined translates as "healthier" in S.A to consumers.

Brown Sugar 73%



Which of these claims is most motivating to you for a sugar brand?

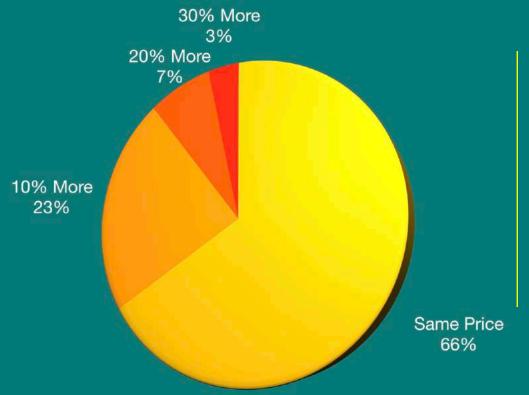


Low Glycemic is a claim that nearly 50% of SA consumers find motivating.

48%



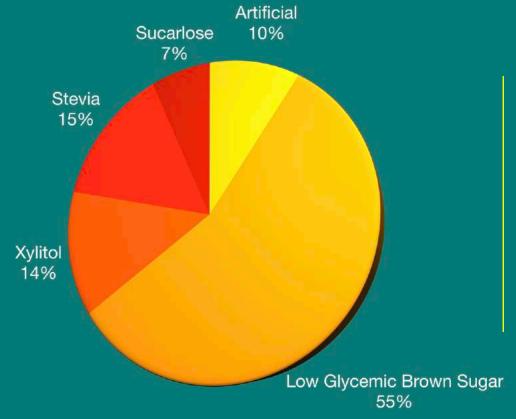
What should a healthier sugar be priced at?



Over 35% of SA consumers will consider paying a premium for a healthier sugar.



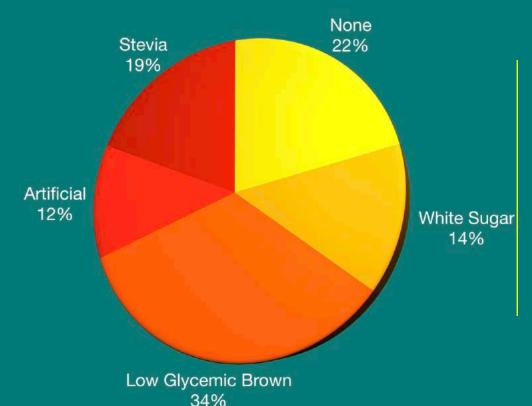
Which sweetener is healthier to consume?



Over 50% of SA consumers already consider a low glycemic brown sugar to be healthier than other sweeteners.



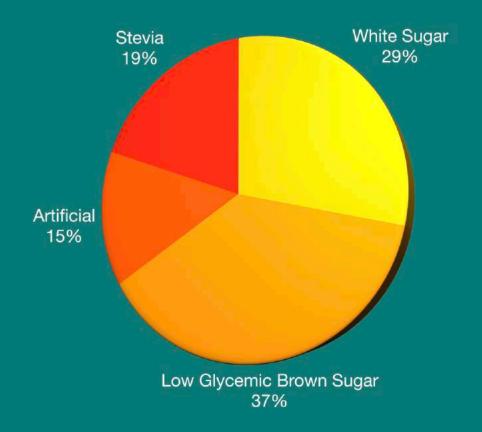
Which soft drink, with a sweetener, would buy?



S.A Soft drink brands could also gain a competitive advantage "made with Low GI Brown sugar".



If you could reduce tax on one sweetener, which one would it be?



S.A consumers would also support a tax reduction for low glycemic brown sugars.



South Africa Research Indicates:

- Consumers are looking for a "natural and healthy" sugar option.
- A brown low glycemic option has strong initial appeal.
- Our technology, clinical research and ESA partnership supports this innovation.
- A retail product will be an important catalyst for awareness and sales momentum.
- When consumer demand grows, industrial brands will follow.



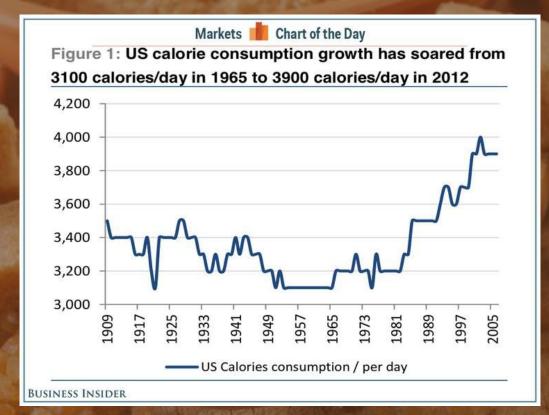
DR. DAVID KANNAR: FOUNDER & CHAIRMAN



- Leading Australian Entrepreneur
- Inventor of over 45 Food Patents
- Ph.D Clinical Pharmacology
- One of the world's leading carbohydrate experts.

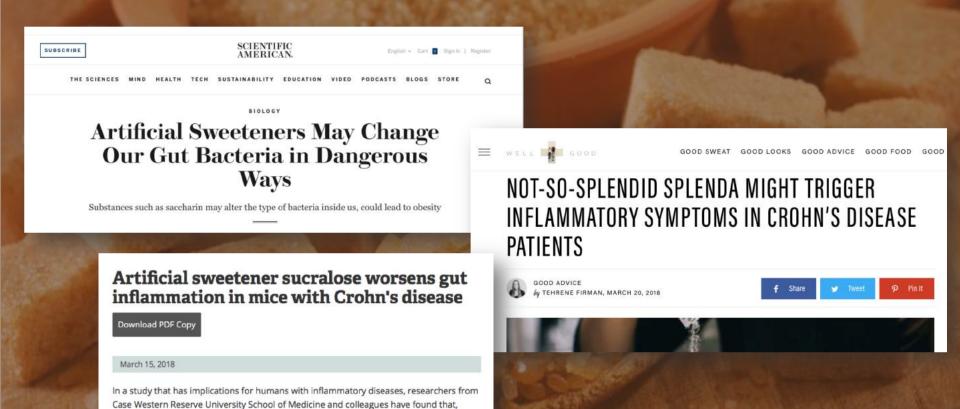


Calorie reduction is important to global health





SUGAR ALTERNATIVES ARE NOT ALWAYS "HEALTHIER"...

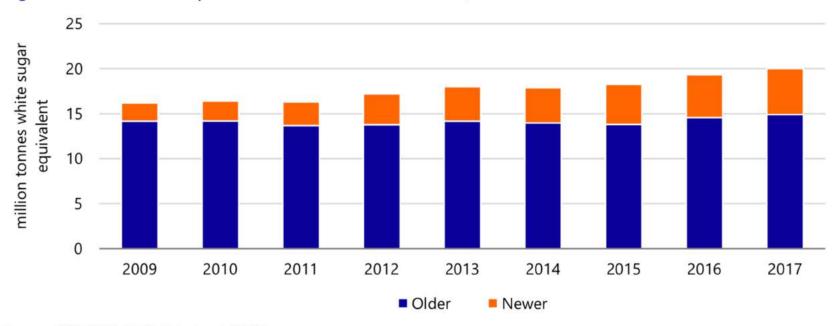


given over a six-week period, the artificial sweetener sucralose, known by the brand name Splenda, worsens gut inflammation in mice with Crohn's-like disease, but had no substantive effect on those without the condition. Crohn's disease is an inflammatory

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...yet they are seeing growth!

Figure 3: Market development for alternative sweeteners, 2009-2017



Source: ISO 2017, LMC, Rabobank 2018

.. and most of the "replacement" innovation comes from outside of the sugar industry

















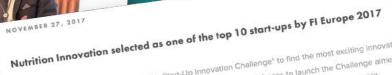
OUR SOLUTIONS ARE FOCUSED ON SUGAR!











Frankfurt: Germany, FI Europe held "The Start-Up Innovation Challenge" to find the most exciting innovations in food & beverages. Vaucluse Provence Attractivité and UBM, joined forces to launch the Challenge aimed at the promotion of international innovative projects on ingredients, during Food ingredients Europe 2017.







life



in association with



FINALIST















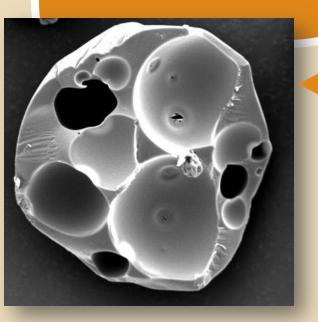


HOW DOES NUCANE LIFE DELIVER SUGAR REDUCTION?





Bulk density is illustrated here by the same weight of Nucane sugar versus white refined sugar occupying twice the amount of volume



The unique Nucane Life "Low Bulk" approach creates fluffy micro airpockets in the sugar. This creates bulk density and reduces the total amount of sugar required.

In a food system, this can deliver significant sugar reduction and still deliver the bulk filling needs of a product.





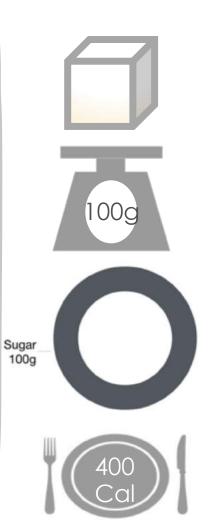


STEVIA





THE NUCANE LIFE PLATFORM ALSO **INCORPORATES** SUGAR CANE WITH **BESPOKE SUBSTRATES** TO MEET DEFINED FOOD MATRIX **OBJECTIVES. THESE** CAN BE UP TO 20% OF THE FINAL INGREDIENT AND BE SPECIFIED TO **DELIVER FUNCTIONALITY, TASTE** AND PRICE.



For the same volume and sweetness

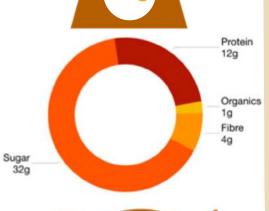


50% Less Weight



68% Less Sugar

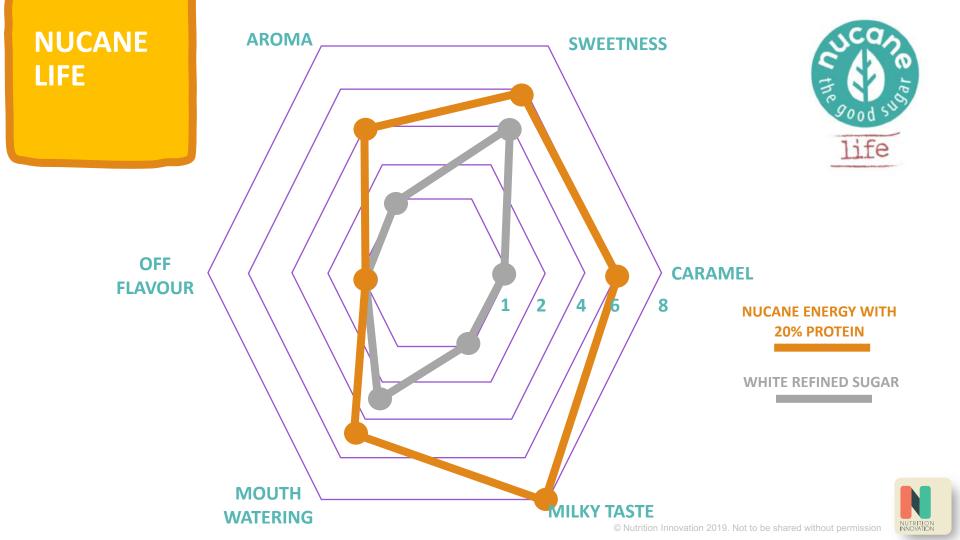
Increased Protein
Increased Minerals



55% Less calories



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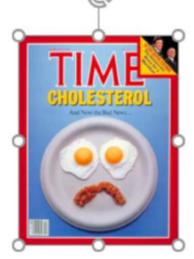
NUCANE LIFE IN CHOCOLATE

- These chocolates were made with Nucane Life.
- 72% sugar reduction
- 19% calorie reduction
- Adds calcium, magnesium & potassium
- Nucane Life is made from natural sugar
- Nothing artificial, no new regulations
- Gives chocolate a smooth, rich & creamy taste
- Technology can be licensed to the industry
- Now working with customer application trials



The sugar debate can follow fats.







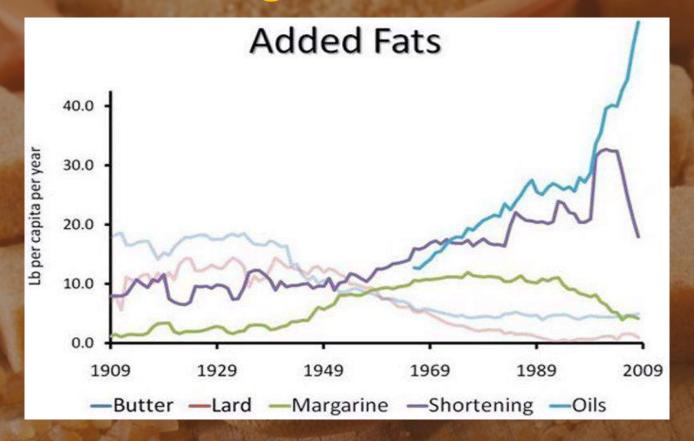




1961 1984 1999 2003 2014



With innovation, growth can be unlocked





Together we can ensure sugar is the solution to sugar challenges! Join us.

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Contact: <u>matthew@nutritioninnovationgroup.com</u>

