



Accelerating Innovation

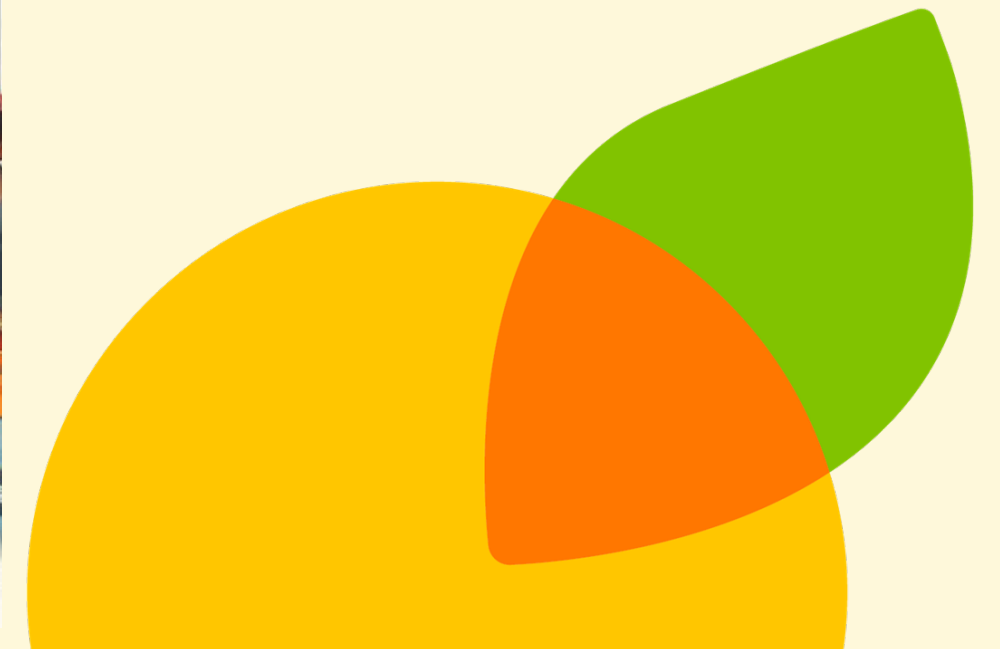
Leveraging Data-Driven Tools to Propel Growth in Tropicana R&D

September 19, 2024





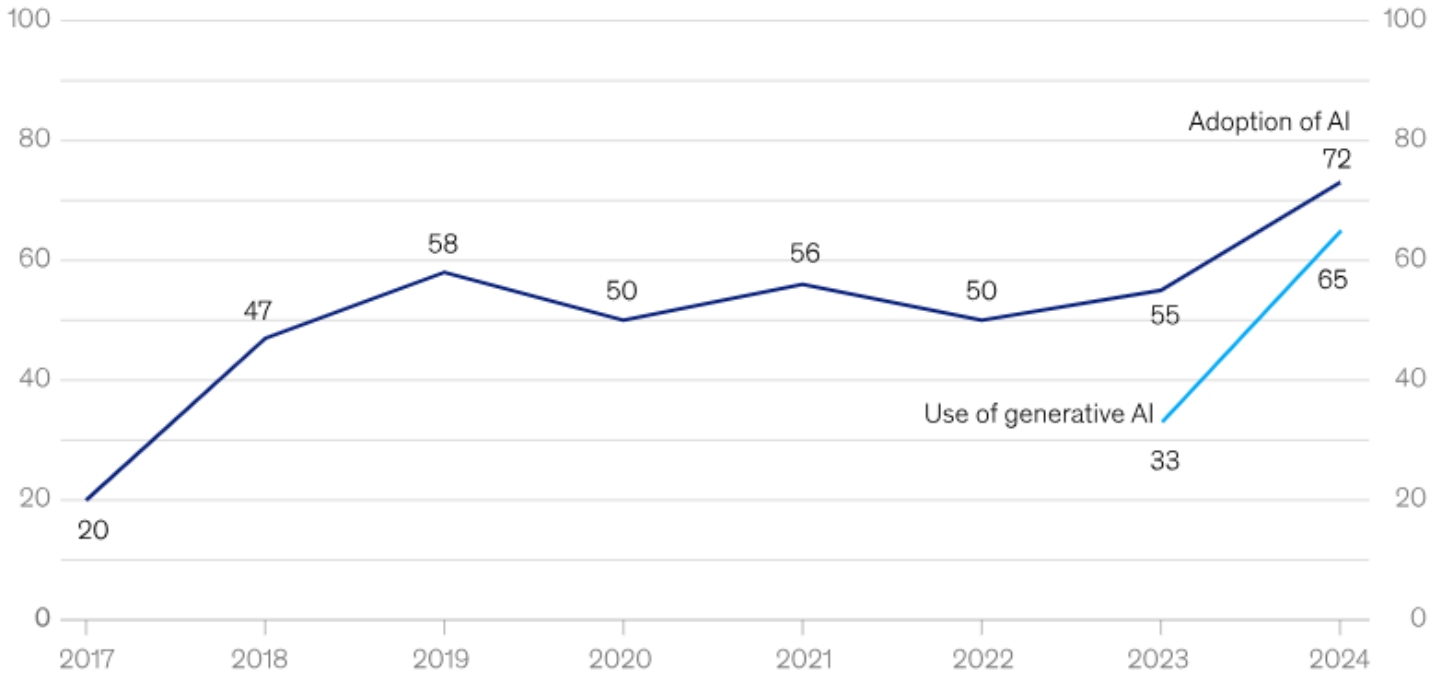
tropicana
brands group



AI adoption worldwide has increased dramatically in the past year, after years of little meaningful change



Organizations that have adopted AI in at least 1 business function,¹ % of respondents



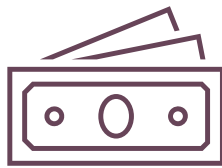
¹In 2017, the definition for AI adoption was using AI in a core part of the organization's business or at scale. In 2018 and 2019, the definition was embedding at least 1 AI capability in business processes or products. Since 2020, the definition has been that the organization has adopted AI in at least 1 function.
Source: McKinsey Global Survey on AI, 1,363 participants at all levels of the organization, Feb 22–Mar 5, 2024

McKinsey & Company

Advanced data tools (including Gen AI) are driving step-change impacts in Consumer Innovation



Lower Cost



Lowering number of tests, prototypes and hours per project

Faster Speed to Market



Speedier cycles of divergence and convergence with shorter innovation cycles

Better Innovation

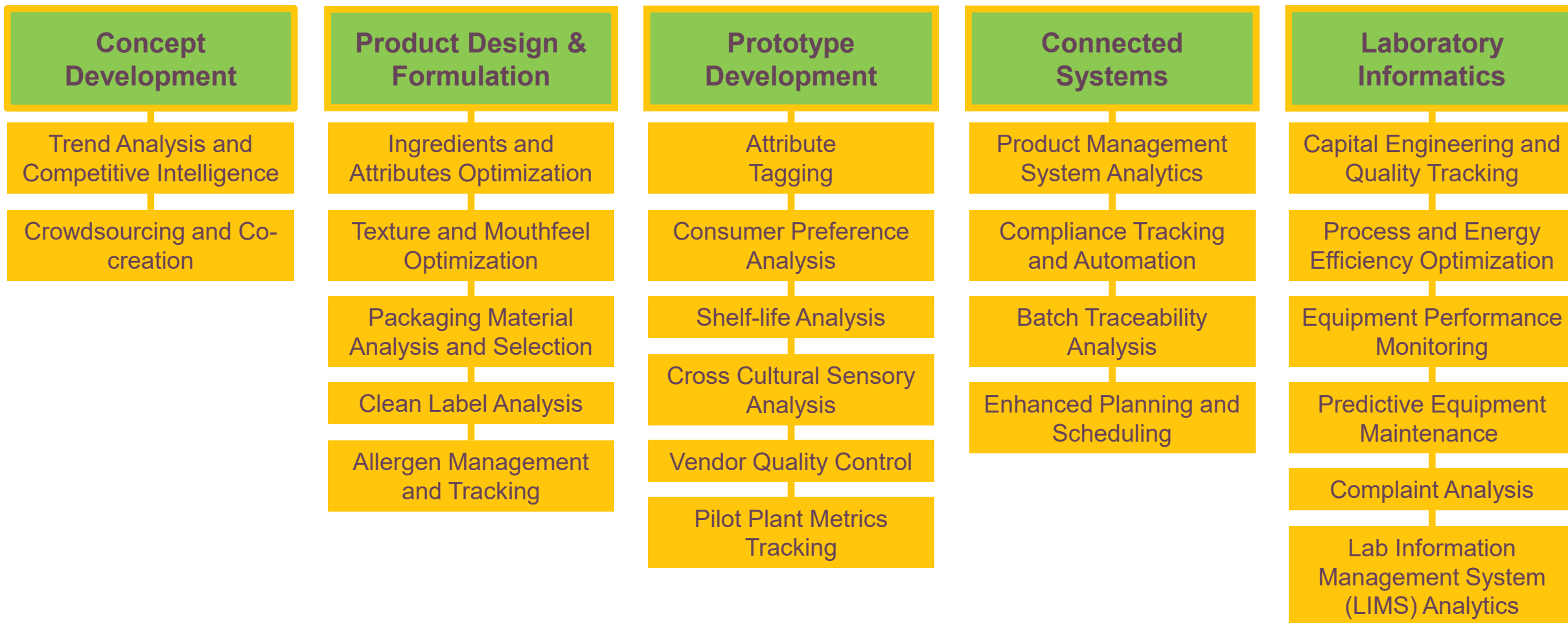


Enhancing human creativity and resonance with consumers to launch concepts with higher success rates

There are many potential R&D use cases where advanced analytics can be applied



R&D Capabilities





Build vs. Buy vs. Partnerships?

Some things to consider



Understanding technical & business challenges we wanted to solve was an important first step for TBG



Technical & Business Priorities

Juice Blending & Formulation

Nutrition & Shelf life

Sugar Reduction in Formulation

Plastic Usage

Competitive Intelligence

Claims

Technology Roadmap

Demand Signals

Concept Development

R&D Pain Points

External Reporting

Better collection of available data

Predicting price and supply

PLM linkage with ERP & QC Data

Better utilization of existing data

Disruptive R&D Tools to Accelerate Innovation & Elevate Consumer Experience (ie AI)

Building out our technology platforms and roadmap was a top priority at TBG, We partnered with Lux Research to create a robust program



- Enhance technical capability building for the company
- Landscape and plan for a pipeline of breakthrough technologies grounded in consumer insights
- Build out a robust external ecosystem and identify strategic partnerships
- Spot new areas of thinking and technology gaps
- Identify future opportunities

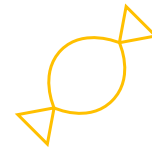
Build an innovation roadmap with prioritized technology spaces that tie back to consumer need by understanding why and where that is going



Advantaged and differentiated OJ that delights consumers



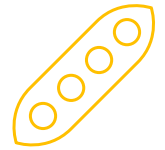
Improved nutrition profile and functional benefits



Solutions for **sugar conscious** consumers

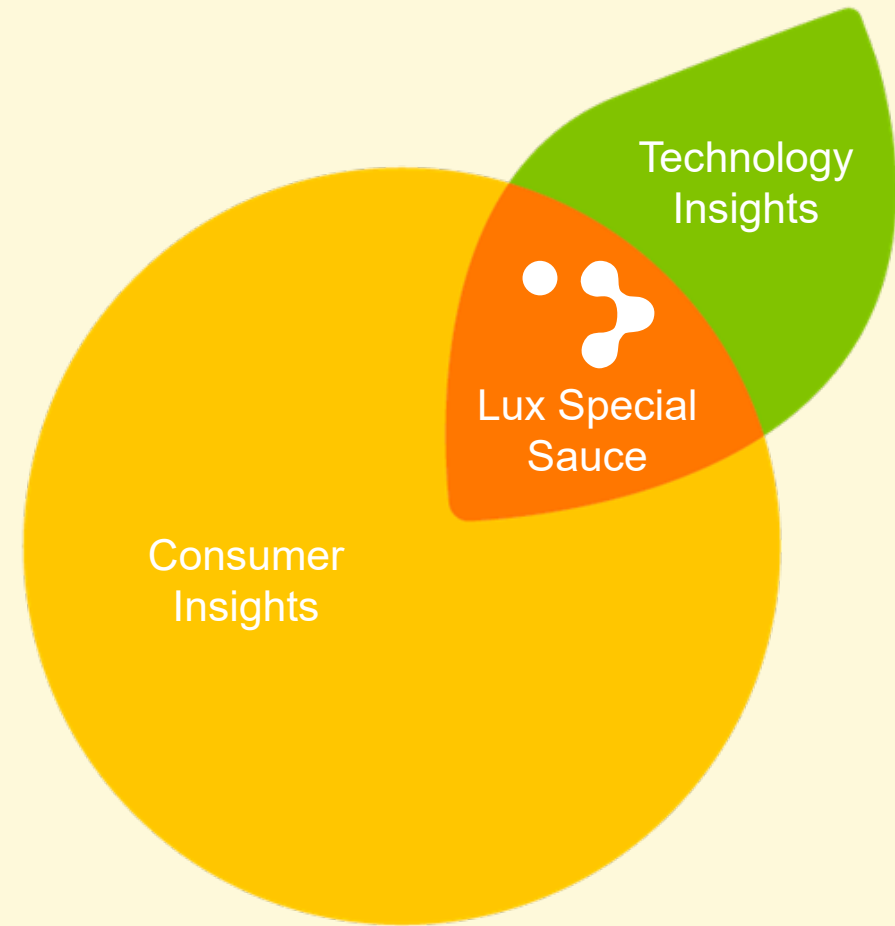


Elevate consumer experience through packaging



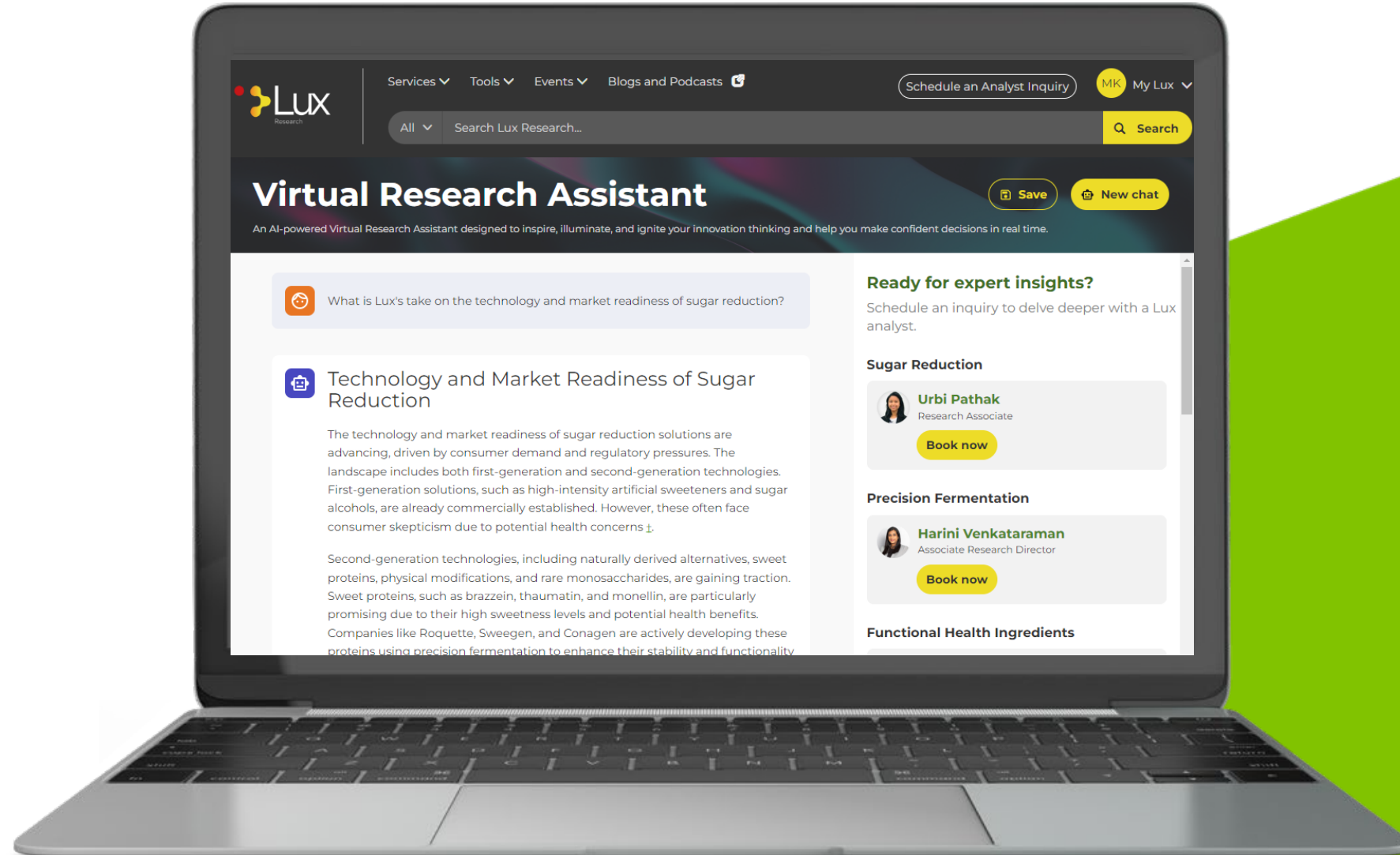
New product forms / categories to expand consumer access to benefits of fruit

Example: Solutions for Sugar- Conscious Consumer





Technology & Consumer Insights Self-Service Platform



Consumer Insights

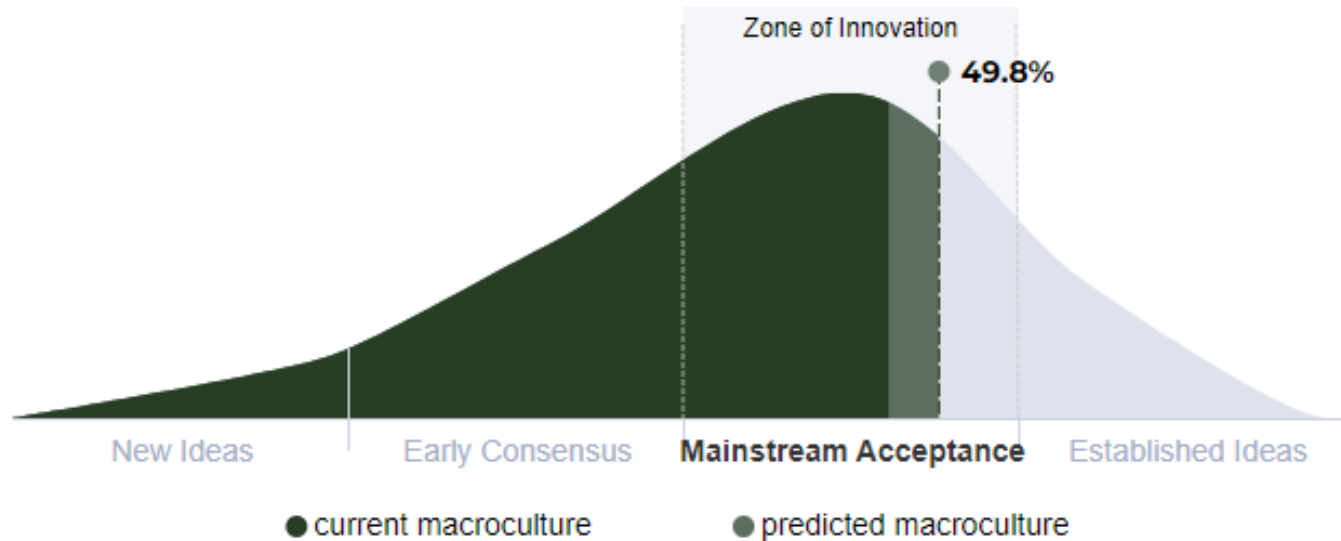


Sugar reduction: Lifestyle motivators

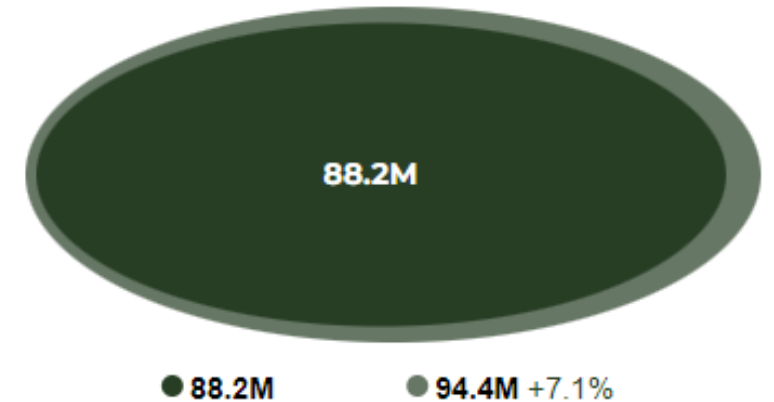


macroculture: wellness, low sugar

Maturity Curve
46.5%
current



Population



This topic scores 46.5% on the maturity curve and is expected to expand to 49.8% in 12-24 months.

This culture is currently relevant to 88.2M people and is expected to grow by 7.1% in 12-24 months.



Sugar reduction: Lifestyle motivators

Theme 1

THEME:

Blood Sugar Management as Lifestyle

UNDERLYING SYMBOLISM:

The continuous balancing act of dietary vigilance

KEY INSIGHT:

For consumers, managing blood sugar isn't just about diet—it's a comprehensive lifestyle choice requiring constant attention and adjustment.



"Monitoring my blood sugar levels has become second nature. It's not just what I eat; it's about maintaining my overall health every day."

Theme 2

THEME:

Low Sugar Juices as Health Allies

UNDERLYING SYMBOLISM:

A quest for balance between pleasure and health

KEY INSIGHT:

Consumers view low sugar juices as vital tools in managing blood sugar and carbs, aligning with their health and dietary goals.



"I switched to low sugar juices to keep my blood sugar stable without giving up the joy of my favorite drinks. It's about finding that balance."

Theme 3

THEME:

Sugar Content Consciousness

UNDERLYING SYMBOLISM:

The search for transparency and control in diet

KEY INSIGHT:

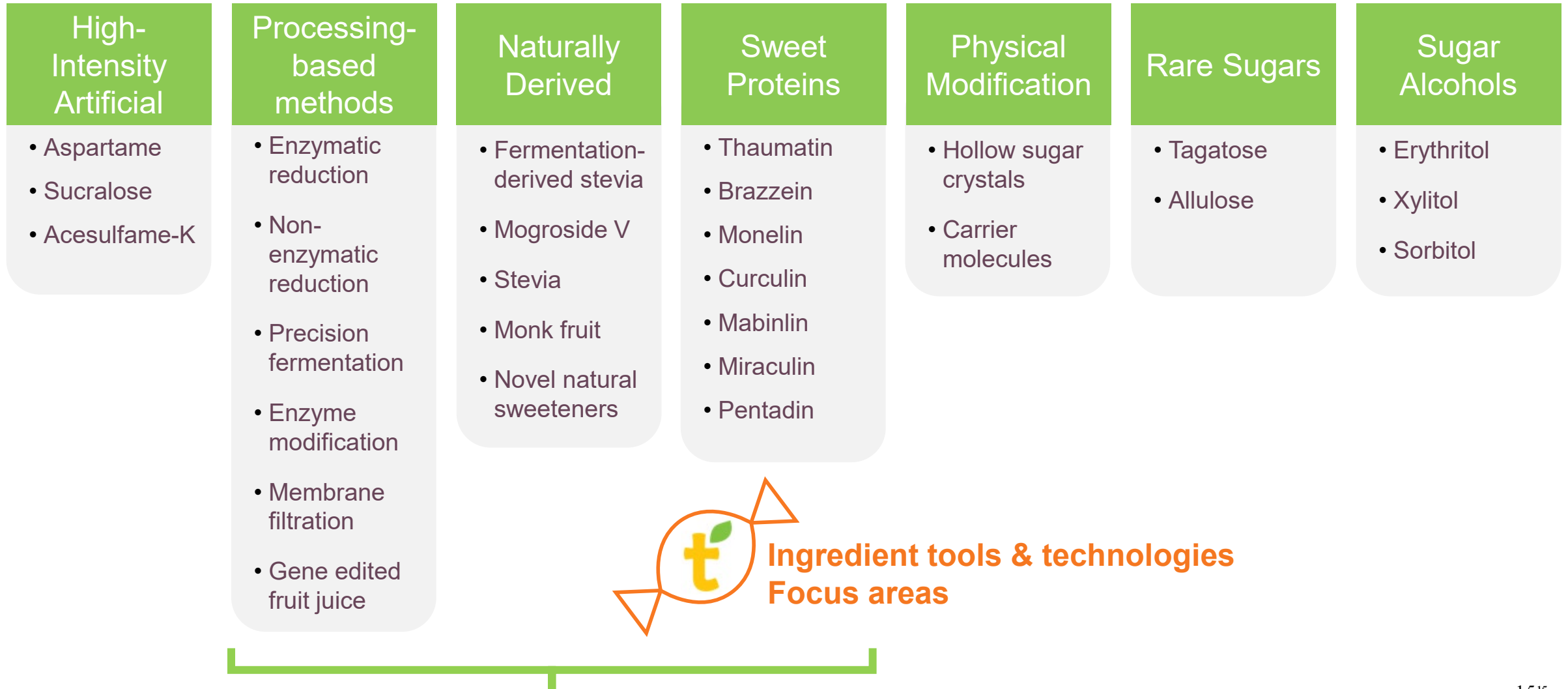
Consumers demand clear labeling of sugar content, seeking empowerment in their choices to navigate the landscape of healthy eating.



"I scrutinize every label for sugar content. It's not just about avoiding sugar, it's about knowing exactly what I'm consuming and making informed choices."

Technology Insights

Sugar reduction: Technology insights



Fermentation-derived stevia and sweet proteins show recent developments



1 RARE SUGARS
From top to bottom: Corporates, SMEs, research institutes

3 PHYSICAL MODIFICATION
From top to bottom: Corporates, SMEs, research institutes

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5 MOGROSIDE
From top to bottom: Corporates, SMEs, research institutes

7 ENZYMES
From top to bottom: Corporates, SMEs, research institutes

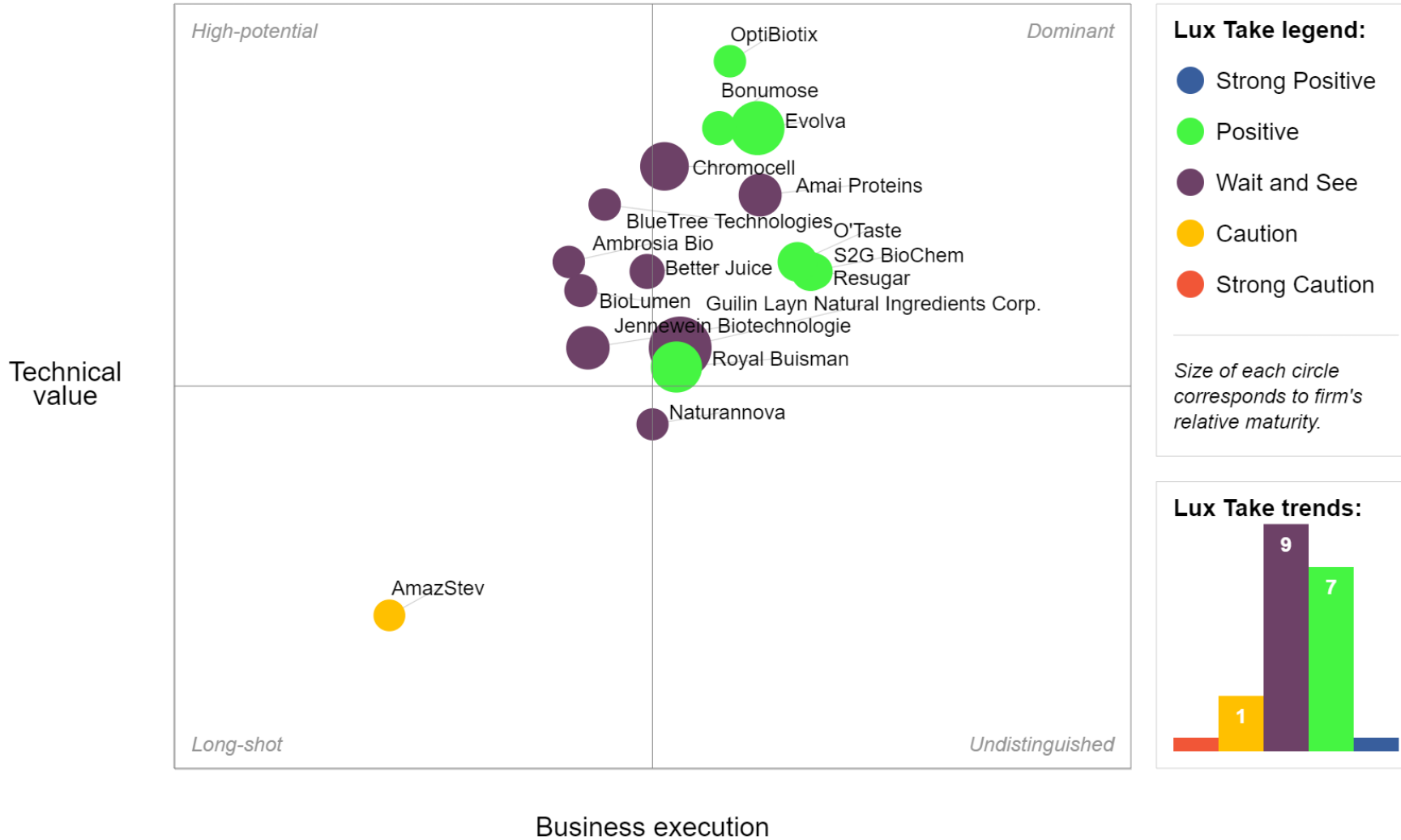
2 SWEET PROTEINS
From top to bottom: Corporates, SMEs, research institutes

4 MEMBRANE FILTRATION
From top to bottom: Corporates, SMEs, research institutes

6 STEVIOL GLYCOSIDES
From top to bottom: Corporates, SMEs, research institutes



Sugar reduction: Technology landscape





Prompts are critical

Consumer Insights

- Why do consumers **care about** [product or category]?
- What do consumers **expect from** [product or category]?
- What do consumers **dislike about** [product or category]?
- What do consumers **love about** [product or category]?
- How do consumers see sustainability regarding [product or category]?

Technology Insights

- What is Lux's take on the technology and market readiness of...sweet proteins?
- How do physical separation methods compete with sugar alternatives in fruit juice?
- What is the current state of [technology] and who are the leading players across this ecosystem?
- How do [product or category] technologies stack up on commercialization?
- How can [technology] help with expediting R&D timelines?

This is a journey!

- Take the time to identify your key priorities.
- Identify the right skill sets to build into your organization.
- Not all data are created equal! (Solid data infrastructure & governance is key!)
- Dream big, but start small!
- AI can be transformative to how you see and use data.
- Developing partnerships with established leaders in the space can enable faster impacts.

