

# PepsiCo R&D: External Innovation & Partnerships

PepsiCo R+D

eXternal innovation

## **ABOUT PEPSICO**



PepsiCo products are enjoyed by consumers more than one billion times a day in more than 200 countries and territories around the world. PepsiCo's product portfolio includes a wide range of enjoyable convenient foods and beverages, including many iconic brands that generate more than \$1 billion each in estimated annual retail sales.

#### **GLOBAL BEVERAGES**



**PERFORMANCE** 



Nearly

\$92 billion

net revenue in 2024

BRANDS



Many iconic billion-dollar brands

### **GLOBAL CONVENIENT FOODS**



SCALE



More than **200** countries & territories

PEOPLE



Approximately 319,000 employees\*

\*As of December 28, 2024

## **OUR HISTORY**





Pepsi-Cola created by Caleb Bradham 1898



Creation of Frito-Lay through the merger of the Frito Company and H.W. Lay Company 1961



#### be more tea

Formed Pepsi Lipton Tea Partnership, joint venture between Pepsi -Cola and Unilever 1991



Merger with Quaker Oats, which also brought sports drink Gatorade into the portfolio 2001



Strategic beverage alliance with Master Kong Beverage, one of the leading food and beverage companies in China 2012





Launch of pep+ (PepsiCo Positive) 2021



PepsiCo acquires full ownership of Sabra & Obela 2024

#### 1932

First recipe for Fritos Corn Chips and establishment of H.W. Lay & Company



#### 1965

PepsiCo founded through the merger of Pepsi-Cola and Frito-Lay, creating a competitive advantage fueled by complementary snacks and beverages



#### 1994

Partnered with Starbucks to jointly develop ready-todrink coffee beverages



#### 2009

PepsiCo's Food for Good launches



#### 2018

Acquisition of SodaStream



#### 2020

Acquisition of Pioneer Foods, BFY Brands, Be & Cheery, and Rockstar Energy Beverages



#### 2023

Pepsi launches new logo

Starry debut





2025

Acquisition of







MISSION

Create more smiles with every sip and every bite

VISION

Be the global leader in beverages and convenient foods by winning with pept



## **FASTER**

Winning in the marketplace, being more consumer-centric and accelerating investment for topline growth

## **STRONGER**

Transforming our capabilities, cost, and culture by operating as one PepsiCo, leveraging technology, winning locally and globally enabled

## BETTER

Creating growth and value by operating within planetary boundaries and inspiring positive change for the planet and people

















## STRONG PORTFOLIO OF ICONIC BRANDS





































































**Introducing pep+** 

# pep+ overview



Our vision is to **Be the Global Leader in Convenient Foods and Drinks by Winning with PepsiCo Positive** (pep+).

pep+ is our strategic end-to-end transformation that places sustainability at the center of how we will create growth and value by operating within planetary boundaries and inspiring positive change for the **planet and people**.



## pep+ HAS 3 INTERCONNECTED PILLARS:



# POSITIVE AGRICULTURE

We are working to source our crops and ingredients in ways that restore the earth and strengthen farming communities.



# POSITIVE VALUE CHAIN

We are helping to build a circular and inclusive value chain.



# POSITIVE CHOICES

We are inspiring people through our brands to make choices that create more smiles for them and the planet.

## pep+ KEY PILLARS





## **POSITIVE AGRICULTURE**



## **POSITIVE VALUE CHAIN**



## **POSITIVE CHOICES**

Spread regenerative agriculture across

million acres by 2030

Sustainably source\*

100%

of our key crops + ingredients by 2030

Achieve

NET-**ZERO EMISSIONS** 

by 2040

NET WATER **POSITIVE** 

Reduce use + replenish more than we use by 2030

**Evolve our portfolio of products so** they are better for the planet + people, by:







Scaling little to no single-use packaging platforms

Improve the livelihoods

**250,000** 

Cut virgin plastic per serving by

across our global beverages & convenient foods portfolio by 2030 against a 2020 baseline

Execute our DE&L agenda, invest

million by 2030

Leverage our iconic brands to inspire positive choices

Lay's will support farmers moving to regenerative practices



of more than





\*For grower-sourced crops, sustainably sourced refers to meeting the independently verified environmental, social and economic principles of PepsiCo's Sustainable Farming Program (SFP). For supplier-sourced crops, sustainably sourced is achieved through a third-party standard that has been benchmarked as equivalent to the SFP or, in limited regions, a continuous improvement program addressing the main environmental and social risks with growing the relevant crop.

## **2022 Sustainability Progress Highlights**



#### **Positive Agriculture**

## 900K+

acres farmed with regenerative farming practices toward goal of 7 million by 2030



11K+

people positively impacted in our agricultural supply chain and communities



Positive va

22%

improvement of our operational water-use efficiency in high water- risk areas (versus a 2015 baseline)



In the U.S., we increased our Black managerial representation to

9.0%

making progress toward our goal of 10% by 2025

and we increased our Hispanic managerial representation to

10.1%

meeting our 2025 goal of 10% three years early

#### **Positive Choices**



23%

reduction in Scope 1 and 2 emissions, toward our goal of 75% by 2030 (versus a 2015 baseline)



>80MM

people reached since 2006 with safe water access, toward 100 million goal by 2030

**75%** 

of our convenient foods portfolio volume in our top 23 convenient foods markets met our saturated fat reduction target, maintaining our goal of ≥75% by 2025



liters of water replenished into local watersheds in 2022

Women and men continued to earn within 1% of each other, and women hold

44%

of our manager positions worldwide



As of 2022, 56%

of our beverages portfolio volume in our top 26 beverage markets contained no more than 100 Calories from added sugars per 12 oz. serving, progress toward ourgoal of ≥67% by 2025





# Introduction to External Innovation & Partnerships

Connecting External Innovators with Internal R&D Opportunities

# Open Innovation: Powering PepsiCo's Future



**Open Innovation strategy keeps PepsiCo** at the forefront of the Food & Beverage industry.

## We can't do it alone—disruption is everywhere



## **External partnerships help us:**

- Accelerate discovery
- De-risk innovation
- Access bold ideas

exists to help PepsiCo R&D find and nurture those partnerships



# Who We Are: XI (External Innovation & Partnerships)



Our Goal: Leveraging global ecosystems & partner networks to identify and bring 'outside' influences and technology into the R&D agenda through innovation, pep+, or productivity.

## The XI Team

XI is PepsiCo's only external-facing R&D team
We connect global capabilities to internal
priorities

Our diverse, distributed team scouts, evaluates, and enables strategic partnerships



# **XI Core Capabilities**



# Our mission is to unlock innovation by connecting bold ideas from the outside with PepsiCo's global R&D capabilities

# TECHNICAL SCOUTING & EVALUATION

We identify promising technologies and evaluate how they could fit within PepsiCo's R&D ecosystem

### **OUTSIDE-IN STRATEGY**

We spot trends, analyze landscapes, and shape strategy using insights from outside PepsiCo



# STRATEGIC PARTNERSHIPS

We build multi-year collaborations with startups, universities, and suppliers to co-create what's next

# ECOSYSTEM ENGAGEMENT

We activate innovation ecosystems globally—connecting you to the right team, geography, and opportunity inside PepsiCo /

# Where Your Innovation Can Plug In

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INNOVATION MANAGEMENT

PepsiCo's R&D system covers every step from concept to consumer. We connect external ideas into these critical areas to accelerate impact.



SUSTAINABILITY



**CULINARY** 



**EQUIPMENT DEVELOPMENT** 



**CLINICAL SCIENCE** 



**SENSORY** 



**AGRICULTURE** 



**FOOD SCIENCE** 



PROCESS ENGINEERING



NUTRITION SCIENCE



**PACKAGING** 



FOOD SAFETY & QUALITY



**REGULATORY** 

**FLAVORS** 



WATER TECHNOLOGY



**SPORTS SCIENCE** 

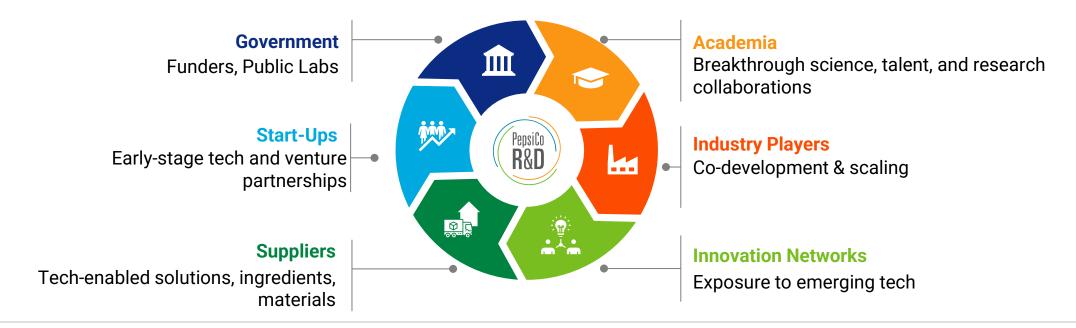


**DATA SCIENCE** 



## XI Builds a Broad Network to Unlock Innovation





## **How we Engage**

Government	Start-ups	Suppliers	Innovation Networks	Industry players	Academia
Incentives, public-private partnerships (Consortia)	Venture partnerships with early-stage, high- risk tech	Long-term capability partnerships	Tech scouting platforms, Open Innovation Challenges	Co-development, JVs, scaling partnerships	Sponsored research, talent development, academic alliances

Wherever you come from, XI helps connect the right ideas to the right teams inside PepsiCo.

# Focus Areas for PepsiCo R&D



# Process & Equipment



Bioprocessing technologies

Low/no-fat dehydration technologies for foods

Rapid & novel food safety & quality testing

Individual monitoring sensors & equipment

Processing GHG & water reduction technologies

Ingredients & Flavors



Natural sweeteners, colors & preservatives

Sodium reduction technologies

Botanical & functional ingredients

Advantaged proteins

Virtual-first development technologies

Data analytics on public + proprietary data sets

Packaging & Materials



Barrier materials and coatings

Plastic alternatives

Packaging lightweighting

Packaging circularity

GHG reduction for pkg materials

Sustainability & Agriculture



Regenerative agriculture

Digital agriculture

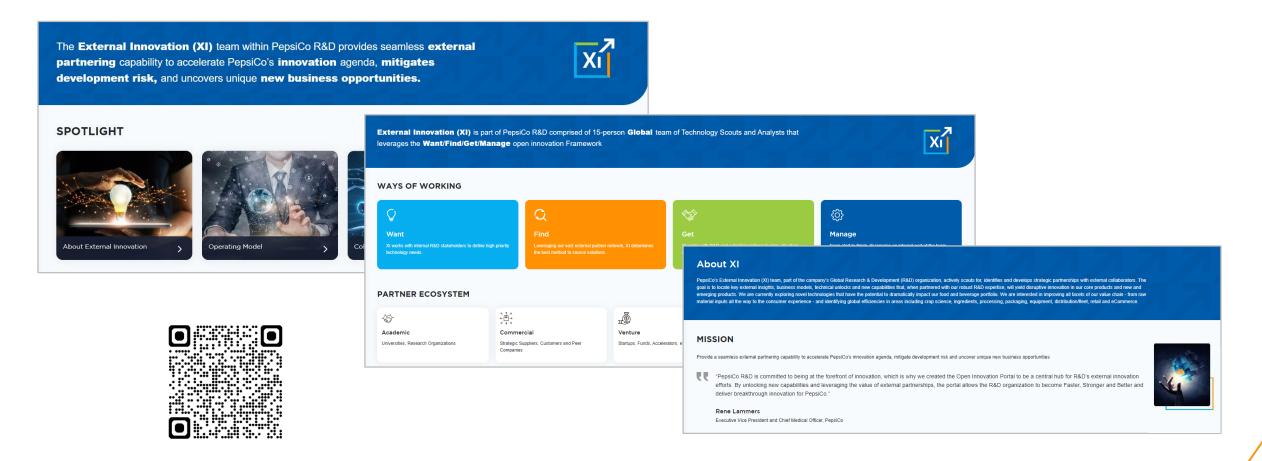
GHG & water reduction technologies

Soil health, field measurement

Trait discovery

## **PepsiCo Open Innovation Portal**





Submit your solutions to PepsiCo R&D's technology needs https://externalinnovation.pepsico.com/

## **THANK YOU**

