Plant Based Foods Industry Association

Feeding the Future

Plant Protein Cluster: Catalyst for Decarbonizing the Food Chain

31 August 2023

Our Present Food System Drives Climate Change

New U.N. Report: Shifting to Plant-Based Diets Can Help Mitigate Climate Change

United Nations | UN News
Global perspective Human stories

Food systems account for over one- third of global greenhouse gas emissions

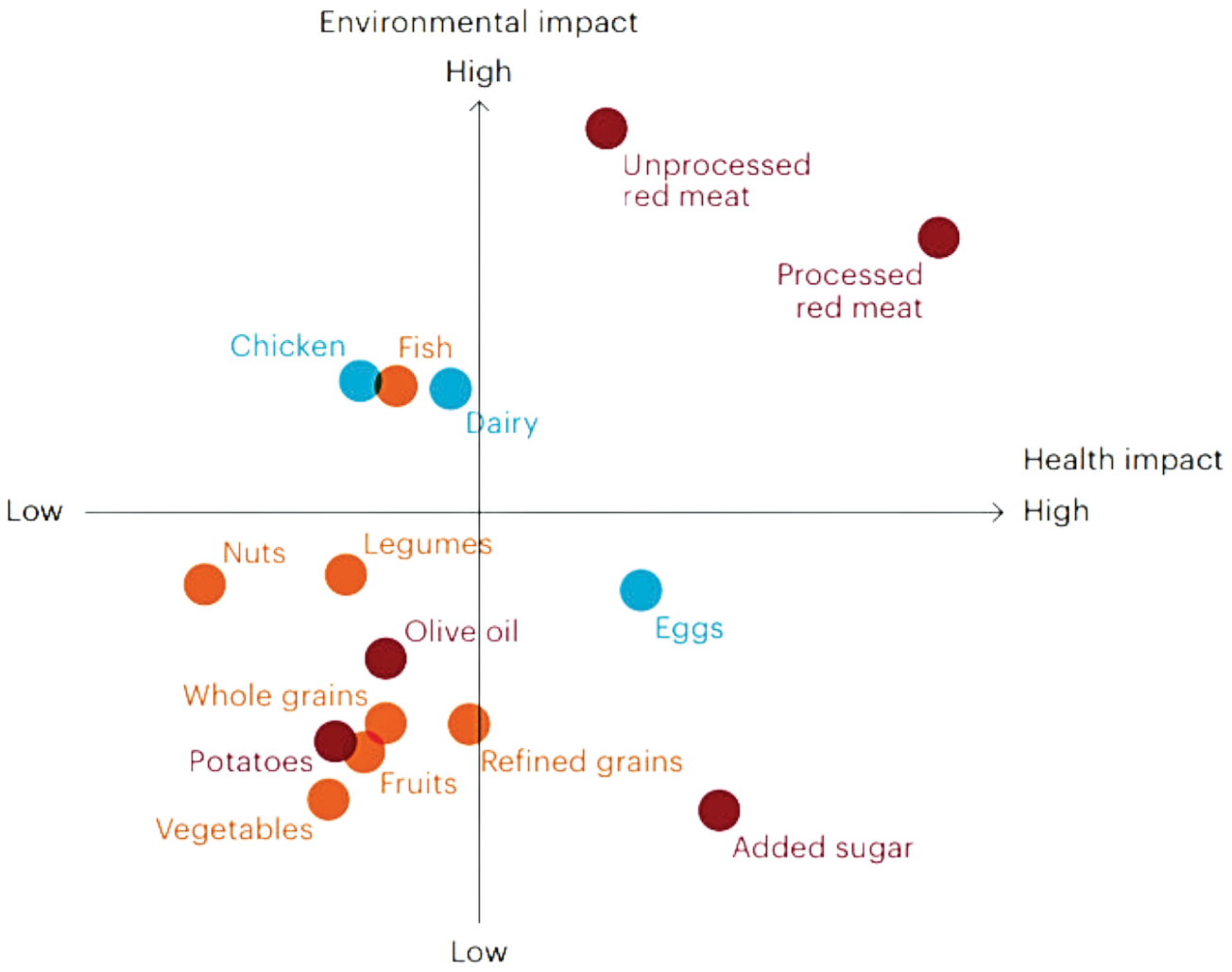
WORLD ECONOMIC FORUM

Alternative proteins will transform food, mitigate climate change and drive profits. Here's how

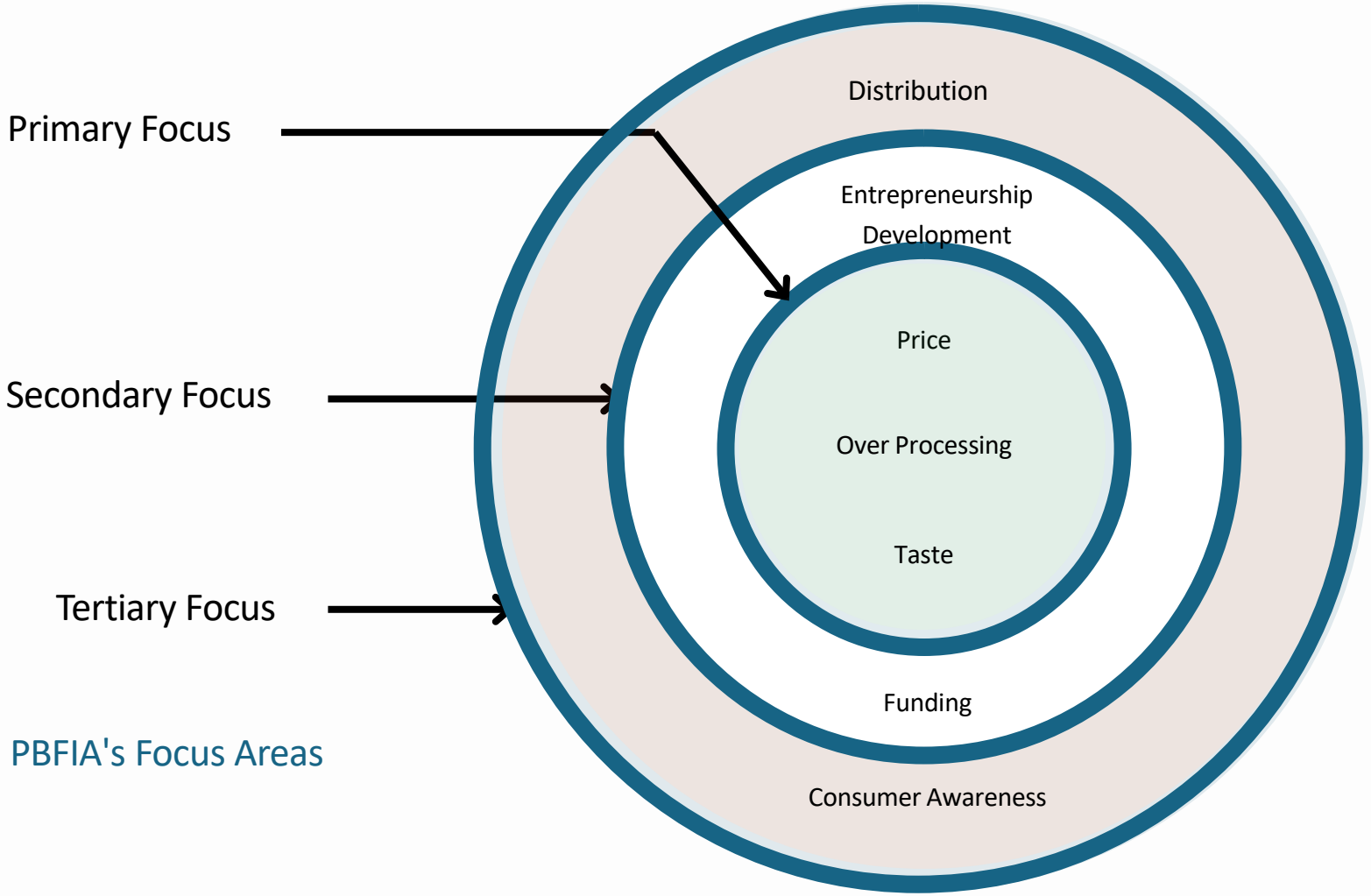
IPCC: Plant-based and cultivated meat can play a critical role in halving global emissions by 2030

Why Plant Based?

- Health
- Job creation
- Sustainability
- Food Security



Problems Demanding our Attention



PBFIA's Focus Areas

Among the seven identified problems, three are Core Focus Areas, & through the Clusters we will aim to achieve the most impact for the Plant Based Foods Industry

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The Cluster Infrastructure: A Strategic Advantage

Co-Location Advantage

Businesses unite for innovation and efficiency

Integrated Logistics Hub & Shared Storage Facilities

Cost-effective supply chain enhancement

Market Access Proximity

Boosted supply chain connectivity

One-Stop Solution

All-inclusive business support.

Operational & Infrastructure Cost Savings

Shared resources, reduced cost

Time-to-Market Edge

Accelerated product development

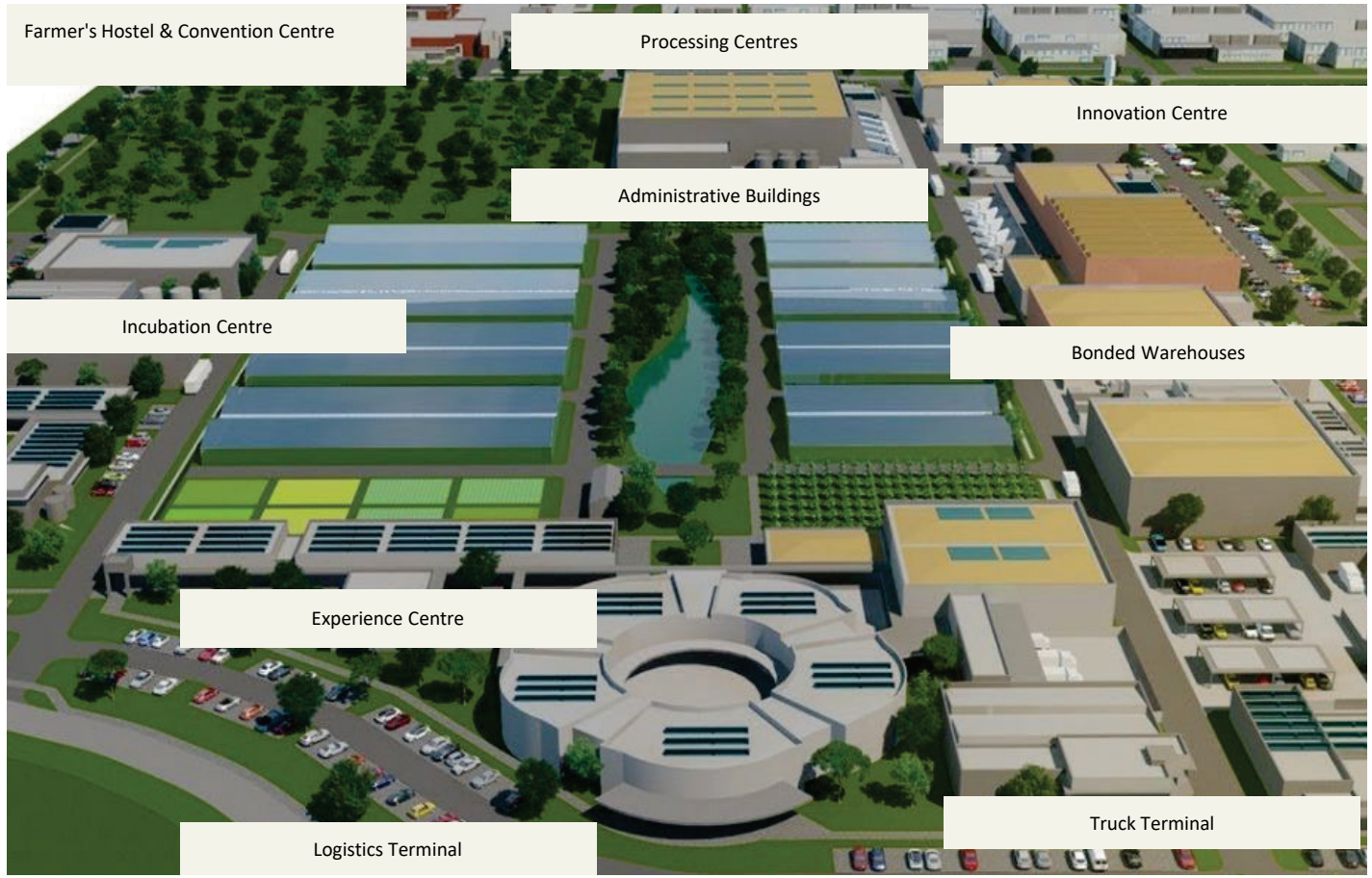
Skilled Workforce

Access to the expert talent pool

Risk Diversification

Strengthened resilience, shared risks

Cluster Facilities and Features



FACILITIES:

- Processing Centres
- Innovation Centre: R&D and Application Labs
- Cloud Kitchen
- Value-Addition Centre
- Training Centre
- Incubations Centre
- Experience Centre
- Demonstration Plots

FEATURES:

- Zero wastage of equipment or capacity
- Companies can co-locate within or utilize cluster facilities
- 12 Indian Clusters + 1 Overseas: Including Egypt
- Projected Cost: USD 500 Mn for 12+1 Clusters
- Enhancing Cost-Efficiency with Feedback
- Meeting Customer Needs via Customised B2B Solutions Led by Top Scientist

Cluster: Plant-Based Meat Value Chain

RAW MATERIALS
Sourcing of various raw materials like: Soy, Pulses, Millets

PROTEIN CONCENTRATES
Producing clean label, superior functional ingredients using modern membrane technology

TVP and HMMA
Using adaptable hybrid extruders, further value addition to obtain Texturized Vegetable Protein and High Moisture Meat Analogues

PB MEAT
TVP and HMMA can be used to produce tasty Plant Based Meat Products, among others

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India's strategic advantage to become the "Ingredient hub" of the world

Consumer demand for plant-based meat globally has frequently surpassed the industry's supply chain capacity in recent years.

"India's First Plant Protein Cluster" will help enable the value-addition of pulses, millets, and coarse grains to develop high-quality protein and subsequent intermediate products to truly capture the essence of innovation worthy of sustainable future food.

India is the leading producer of pulses and with the right technology, production of high value and protein rich products would be a game changer in Indian landscape and export market.

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Plant Protein Clusters: Fostering Sustainability and Nourishing the Future

Resource Efficiency

The clusters aim to create secondary uses for byproducts promoting sustainable practices & utilizing locally available raw materials like pulses& millets, leveraging the processing strengths as per the locality with co-located manufacturing facilities thus reducing the carbon footprint.

Environmental Impact

Median land use footprint of plant-based substitutes was 41, 77, 98% smaller than farmed fish, poultry meat, & beef from beef herds, respectively per 100 grams protein.

Rural Development and Farmer Empowerment

The clusters will involve farmers in the production process, providing them with a reliable market for their crops and thereby promoting rural development. This will enhance the economic well-being of farmers and reduce migration from rural to urban areas.

Food Security

The cluster aims to produce nutritious plant-based ingredients, the clusters can contribute to food security, especially in regions with a growing population by reducing the cost of raw materials and enhancing domestic reliability

Invited Stakeholders

Investment

- मिट्टी मुस्कुराएगी
- Krystal Ventures
- कृषि एवं किसान कल्याण मंत्रालय MINISTRY OF AGRICULTURE AND FARMERS WELFARE
- सत्यमेव जयते Government of Rajasthan
- MOFPI MINISTRY OF FOOD PROCESSING INDUSTRIES GOVERNMENT OF INDIA

Crowdfunding

Implementors

- Plant Based Foods Industry Association
- 3P GROUP
- novozymes
- NIFTEM KNOWLEDGE • INNOVATION • OUTREACH
- SANITECH ENGINEERS PVT. LTD. Eco Friendly Purification Solution
- GEA
- PALL Pall Corporation

Linkages

- Plant Based Foods Industry Association
- एपीडा APEDA
- INTERNATIONAL PLANT BASED FOODS WORKING GROUP
- FICCI
- USSEC U.S. SOYBEAN EXPORT COUNCIL
- proveg international
- CII Confederation of Indian Industry

Welcoming more SPV partners to realize this stellar project to its fullest potential

Potential Customers of the Cluster

TATA CONSUMER PRODUCTS LIMITED

Nestle

BURGER KING

TACO BELL

ITC Limited

Unilever

Faasos

Haldiram's

GRAND HYATT

SUBWAY

BIKANERVALA

Haldiram's

Plant Based Foods Industry Association (PBFIA)

About PBFIA

The Plant Based Foods Industry Association (PBIFA) is the only apex, CEO-led body in India with currently over 125 plant-based food companies as its members.

PBFIA Workstreams

- Innovation
- Supply Chain
- Investment
- Policy Advocacy

International Representation

INTERNATIONAL PLANT BASED FOODS WORKING GROUP

Plant Based Foods Industry Association

PLANT-BASED FOODS OF CANADA
A Division of Food, Health & Consumer Products

Plant-based Food Alliance UK

ASOCIACIÓN DE EMPRENDEDORES VEGANOS DE MÉXICO

PLANT BASED FOODS ASSOCIATION

European Alliance for Plant-based Foods eapf

PBF CHINA

ensa
European Plant-based Foods Association

Plant Based Foods Summit

Conference Inauguration by Minister of Food Processing Industries

Plant Based Foods Summit

Conference Inauguration by Minister of Agriculture

Plant Based Foods Summit

Conference

Plant Based Foods Summit

Report Launch

Plant Based Foods Industry Association

Plant Based Foods Summit

Exhibition

Plant Based Foods Summit

Investors Pitch Session

Plant Based Foods Industry Association

Plant Based Foods Summit

B2B Meetings

Plant Based Foods Industry Association

Plant Based Foods Summit

Live Chef Demo Sessions

Plant Based Foods Industry Association

Plant Based Foods Summit

Plant Based Foods Awards

Plant Based Foods Industry Association

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Thank You

3rd Plant Based Foods Summit

Mark your calendar on 21st May 2024 | New Delhi

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