

### Roadmap of Global Proteins

& Alternative Proteins at

**Local and Global Scales:** 

Partnership of Academia, Research and Industry

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#### **Alternative Protein**

The world's population is increasing rapidly. As a result, protein from meat cannot be produced sufficiently to meet demand.



1 person eating meat uses an area of 4 rai.



1 person eats the same amount of vegetables, using an area <u>of 1 rai.</u>









### **Consumer Changing**



Flexitarians mostly consume a plant-based diet, with the occasional consumption of meat.

Consumers are transitioning to plant-based diet for a variety of reasons.











#### **Public Health and Safety**





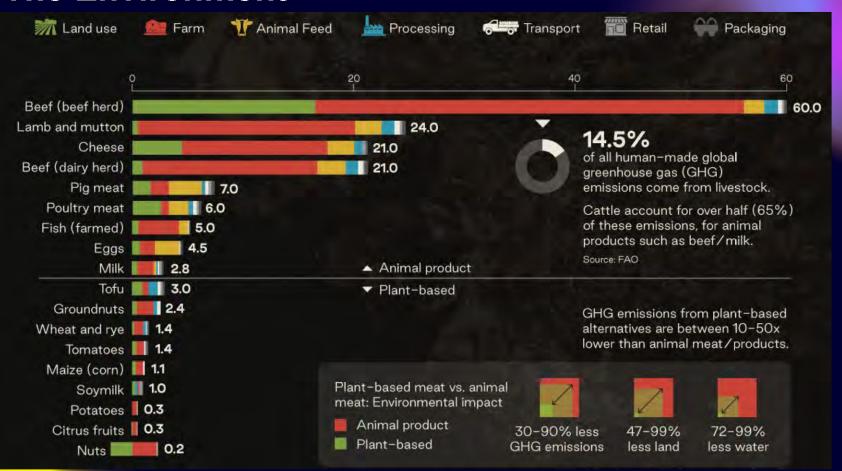


#### The Environment









#### **Price to Plummet Over Time**













#### 2022 Alternative Protein Investment by Region





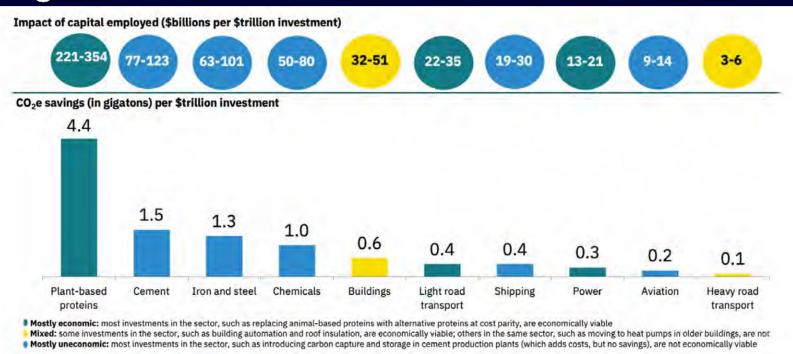






## Investing in Plant-based Proteins has the Highest CO2

#### Savings



Source: BCG/Blue Horizon report: "The Untapped Climate Opportunity in Alternative Proteins", Feb-April 2022, BCG/GFMA report, "Climate Finance Markets and the Real Economy": BCG Analysis. 1)Market value for avoided tons of CO2e, assuming a price of \$50 to \$80 per ton. 2)CO2e savings from plant-based meat only (red meat, pork, chicken, fish, and seafood).

#### Global Alternative Protein Market









The progressive sectors in the global market are as follows:

Plant-based Meat

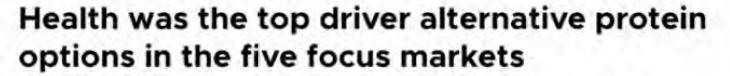
Plant-based Dairy

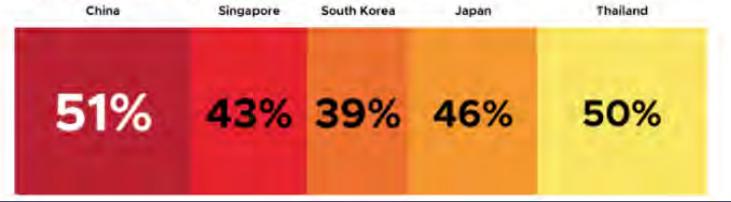
**Cultured Meat** 

Alternative Seafood

#### THE PARK THE

#### **Alternative Protein of the Asia Pacific**

























#### **Protein Sources of Thailand**











#### Challenge for Future Food Entrepreneurs

01

Development and research have high costs.

02

Lack of information on raw material output quantities

03

Health claim

04

Laws, regulations and measures are complex.

05

Raw material cost price

06

Higher inflation rate



#### **Alternative Protein Product**

























# Thanks You



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