



Technology Landscape & Economic Feasibility of the High Moisture Extrusion Technology

Case Study

Case study: Technology Landscape & Economic Feasibility of the High Moisture Extrusion Technology

Client	A global food & additive supplier company
Industry	Food
Products	High Moisture extrusion for plant meat

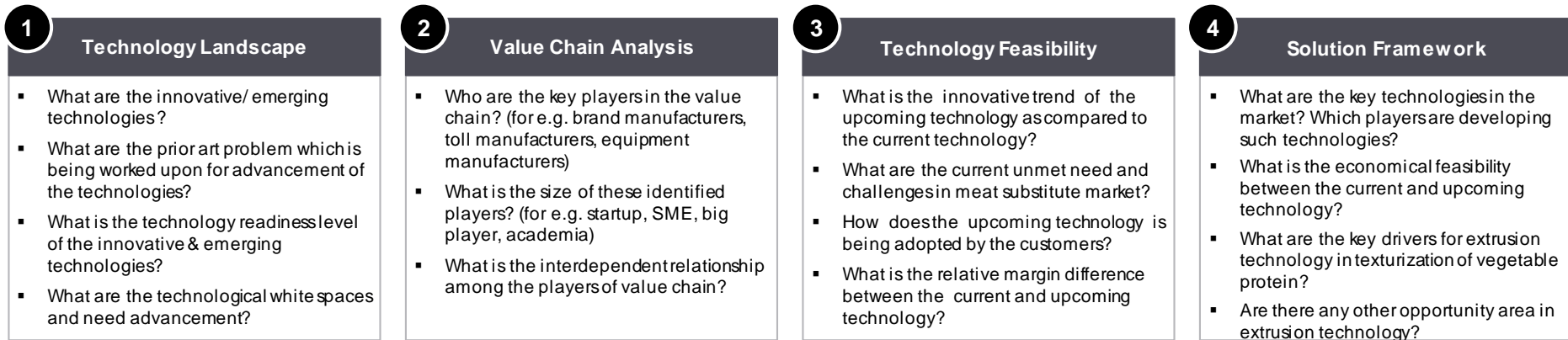
Context

- Our Client, a global supplier in the food industry wanted to understand the domain of extrusion technologies, to transform the raw plant protein into fibrous meat analogue
- The client also wanted to know the active players in the value chain

Key Business Questions

- What are the recent technological advances that can influence, pose challenge for the high moisture extrusion technology in future?
- Who are the active players in value chain and what are their challenges & prospect on future of the technology?
- How is the upcoming technology different when compared to the existing one on the technical scale, consumer preferences and economical feasibility?

Engagement Scope



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Research Methodology

Secondary Research

- Conducted desk research for in-depth insights on different aspects of technology (for e.g.: new alternative protein, additive and coloring agent, formulation, moisture content)
- Conducted desk research to identify players in the value chain and their interdependency (for e.g.: brand manufactures, toll manufactures, equipment manufacturers)

Primary Research

- 10 interviews with researchers at academia, R&D experts, manufacturers to understand economic feasibility, challenges and advancement of the high moisture extrusion over dry extrusion technologies for meat substitute market

Benefits to Client

- Recent technological advances in the high moisture extrusion technologies capable of driving future market
- Identified potential toll or contract manufacturers
- Key Challenges and market drivers of the high moisture technologies
- Economic feasibility between dry and high moisture extrusion
- Overview of the market based on technology and players of value chain of high moisture extrusion was highlighted
- Brief overview about other opportunities in technologies such as shear cell and non extrusion technologies capable to overpower the high moisture extrusion

Sample Analysis

1 Technology Landscape

This slide provides an executive summary of the high moisture extrusion market. It includes a market overview with a pie chart showing market segments and a list of key players. The primary focus is on Wageningen University's Shear or Coarse Cell Technology and Leuven's FutuPro technology. The slide also mentions other players like DSM and Cargill.

2 Value Chain Analysis

This slide details the value chain for high moisture extrusion. It features an executive summary, a value chain diagram showing the flow from raw materials to finished products, and a list of key players. The primary focus is on Cargill, DSM, and Copation. The slide also mentions other players like ADM and Bunge.

3 Technology Feasibility

This slide compares high moisture extrusion with dry extrusion. It includes a comparison table, an overview of primary insights, and a list of trends. The primary focus is on the feasibility of high moisture extrusion. The slide also mentions other players like ADM and Bunge.

4 Solution Framework

This slide outlines the solution framework for high moisture extrusion. It includes key takeaways, an overview of primary insights, and a solution framework diagram. The primary focus is on the economic feasibility of high moisture extrusion. The slide also mentions other players like ADM and Bunge.

Thank you

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