

Project Design Phase
Proposed Solution Template

Date	5 March 2025
Team ID	PNT2025TMID01422
Project Name	Global Food Production and Trend Analysis
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	There was a lack of detailed analysis of global food production trends, which is crucial for agricultural decision-making and food security.
2.	Idea / Solution description	Using Power BI, food production data from 1961 to 2023 was analysed, focusing on key commodities such as rice, wheat, maize, coffee, tea, and various fruits like apples, bananas, and grapes. The study provides interactive visualizations to track trends and regional contributions.
3.	Novelty / Uniqueness	This study uniquely leverages Power BI to visualize long-term trends and regional contributions, offering real-time insights and comparative analysis for better decision-making.
4.	Social Impact / Customer Satisfaction	The analysis benefits agricultural decision-makers, policymakers, and farmers by providing data-driven insights that can help improve food security and promote sustainable production practices.
5.	Business Model (Revenue Model)	This data analytics solution can be monetized through subscription-based services , consultancy for agricultural firms, or by providing insights to policymakers and research institutions.
6.	Scalability of the Solution	The solution can be scaled by integrating more agricultural commodities , real-time data updates.