

# Ideation Phase


## Brainstorm & Idea Prioritization Template

Date	25 February 2025
Team ID	PNT2025TMID02625
Project Name	Global Food Production trends and Analysis:A Comprehensive Study from 1961 to 2023 Using Power BI
Maximum Marks	4 Marks

### Brainstorm & Idea Prioritization Template:




#### Step-1: Team Gathering, Collaboration and Select the Problem Statement


Template



## Global Food Production Trends - Brainstorming


By using this templet we can introduce our global food production trends brainstorming concept


 10 minutes to prepare  
 1 hour to collaborate  
 2-3 people recommended



### Before you collaborate


Before Collaborating on this session , we done little bit preparation like reviewing the key concepts , familiarize ourselves with the tools we'll be using, and understand the objectives will help us to get the most relevant experience .  
A little bit preparation goes a long long wayin making our learning skills smoother and more productive

 10 minutes




#### Team gathering

There are three team members in a team, where one is going to lead the project, another one is going to design and develop suitable visualization and third one is going to provide insights into data sources and trends.



#### Set the goal

The primary goal of this project is to develop a Power BI solution that accurately predicts global food availability and trends using real-time data.  
To archive a primary objectives by integrating ,cleaning ,preprocessing the data



#### Learn how to use the facilitation tools


Ensure every team member contributes ideas and insights.  
Structure the session with clear steps: idea generation, grouping, and prioritization.

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### Define your problem statement

How might we leverage data visualization to uncover critical insights from global food production trends and identify key factors influencing food security and sustainability?

 5 minutes


PROBLEM


How might we develop a Power BI solution to accurately predict global food availability and trends using real-time data?





### Key rules of brainstorming


To run an smooth and productive session


 Stay in topic.

 Defer judgment.

 Go for volume.

 Encourage wild ideas.

 Listen to others.

 If possible, be visual.

## Step-2: Brainstorm, Idea Listing and Grouping

### 3 Brainstorm

Following are some ideas which describes our project objectives.

10 minutes

#### Bhaskar Paymal

- Global Food Availability Prediction: Use historical data and current trends to predict future food availability and shortages.
- Food Trends Dashboard: Use color-coded maps to represent surplus and deficit areas.
- Food Price Prediction: Incorporate factors like inflation, transportation costs, and supply chain disruptions.

#### Gayatri Patil

- Visualizing food production with the help of given entity.
- Risk mitigation strategies to reduce food insecurity by potential crises.
- Calculating yearly production of the food and represent it in suitable visualization.

#### Disha Patil

- Impact analysis of climate changes on crops of food.
- Combine various factors like food availability, accessibility, and utilization into a comprehensive index.
- Country wise distribution of the food.

### 4 Group Ideas

Here are ideas which shared by every group member. And the clustering is also given for extra information.

20 minutes

#### Cluster NO 1:

- Sustainable Farming
- Most produced food items over the decades
- Climate change impact on crop yields
- Effects of economic policies on food production

#### Cluster No 2:

- Top food-producing countries and regions
- Organic Farming by using natural fertilizers
- Reducing Food Wastage
- Effects of economic policies on food production

#### Cluster No 3:

- Vertical Farming growing crops in stacked layers to save space.
- Sustainability and food security challenges
- Reducing Food Wastage
- Climate change impact on crop yields

#### Group Of Similar Clusters

- Reducing Food Wastage
- Effects of economic policies on food production
- Top food-producing countries and regions
- Climate change impact on crop yields

## Step-3: Idea Prioritization

