


Ideation Phase

Brainstorm & Idea Prioritization Template




Date	28 March 2025
Team ID	PNT2025TMID06686
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:





Brainstorm & idea prioritization


Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.


 10 minutes to prepare
 1 hour to collaborate
 2-8 people recommended


 **Before you collaborate**
A little bit of preparation goes a long way with this session. Here's what you need to do to get going.


 10 minutes


 **Team gathering**
Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

 **Set the goal**
Think about the problem you'll be focusing on solving in the brainstorming session.

 **Learn how to use the facilitation tools**
Use the Facilitation Superpowers to run a happy and productive session.


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 **Define your problem statement**
What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

 5 minutes

PROBLEM

How might we [your problem statement]?

**Key rules of brainstorming**
To run a smooth and productive session

-  Stay in topic.
-  Encourage wild ideas.
-  Defer judgment.
-  Listen to others.
-  Go for volume.
-  If possible, be visual.

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

Problem Statement:

There is a lack of clear insights into global food production trends, making it hard for stakeholders to make informed decisions. This project analyzes data from 1961 to 2023 using Power BI to identify key production patterns and trends. The findings will help improve agricultural planning and resource allocation.

Project Goal:

To study global food production trends, highlight key growth patterns, and provide useful insights for better decision-making in agriculture. The analysis will support stakeholders in optimizing food production and supply chains.

1. Data Collection & Preparation:

- Gather historical data on global food production from 1961 to 2023, including key agricultural commodities.
- Ensure data quality by handling missing values, inconsistencies, and standardizing units.
- Import and transform data in Power BI for better visualization and analysis.

2. Data Analysis & Key Metrics:

- Identify production trends of wheat, rice, maize, and other major crops over different periods.
- Use DAX measures to calculate key insights such as total production, year-on-year growth, and regional contributions.
- Apply data filters and slicers to explore production trends by country, region, and commodity type.

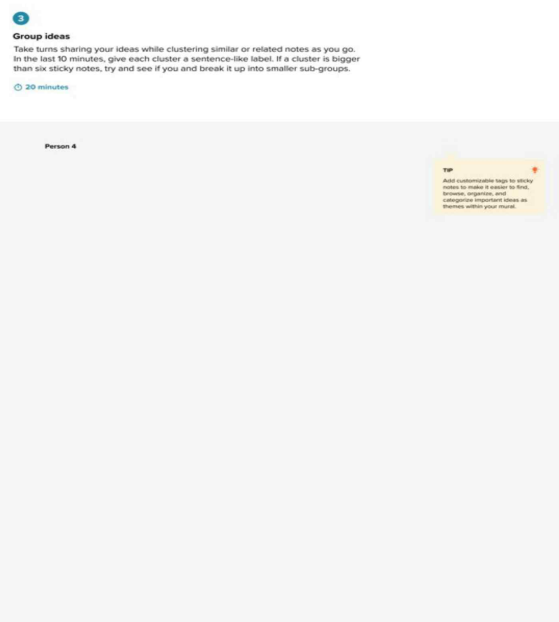
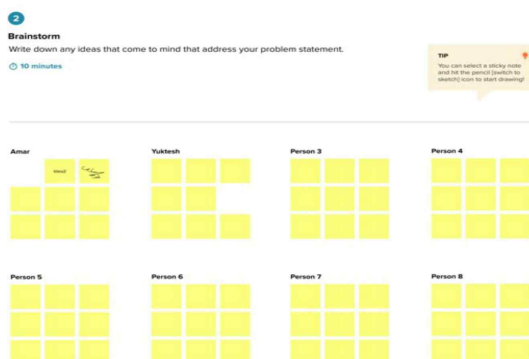
3. Visualization & Dashboard Creation:

- Stacked Bar Chart: Crop Type vs. Total Production (stacked by Region).
- Scatter Plot: Year vs. Production Volume (colored by Crop Type).
- Line Chart: Wheat, Maize, and Rice Production Trends over time.
- Pie Chart: Share of different regions in total food production.
- Card Visuals: Total Production, Fastest-Growing Crop, Leading Producer Region.

4. Predictive Insights & Business Impact:

- Use a Decomposition Tree to analyze factors driving production increases over the years.
- Provide insights into which regions and crops have shown the highest and most stable growth.
- Support agriculture policy-making and supply chain optimization by offering data-driven recommendations.

Step-2: Brainstorm, Idea Listing and Grouping



Step-3: Idea Prioritization

Idea	Priority Level (High/Medium/Low)	Reason for Priority
Data Cleaning & Transformation	High	Essential for accurate production insights
Stacked Bar Chart (Crop Type vs Production)	High	Shows key agricultural production trends
Scatter Plot (Year vs Production Volume)	High	Helps identify long-term production patterns
Line Chart (Wheat, Rice & Maize Trends)	High	Highlights major crop production growth
Pie Chart (Regional Contribution)	High	Visualizes region-wise production share
Card Visuals (Key Production Metrics)	High	Provides quick and clear insights
Decomposition Tree (Production Analysis)	High	Breaks down key factors influencing trends
Predictive Insights (Future Production Trends)	Medium	Useful for forecasting, needs refinement
Advanced AI-based Predictions	Low	Needs additional data exploration

4

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

🕒 20 minutes

