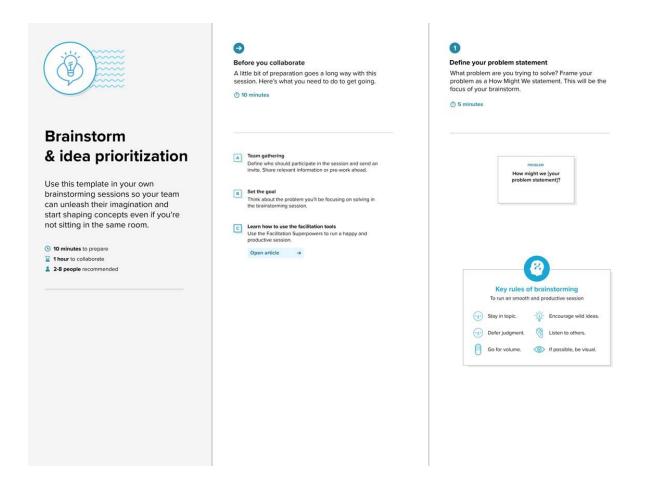
# Ideation Phase Brainstorm & Idea Prioritization Template

| Date          | 24 March 2025  |
|---------------|--|
| Team ID       | PNT2025TMID06731   |
| Project Name  | Global Malnutrition Trends: A Power BI Analysis<br>1983-2019 |
| Maximum Marks | 4 Marks  |

### **Brainstorm & Idea Prioritization Template:**



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

#### **Problem Statement:**

Global malnutrition remains a major health challenge, affecting millions through undernutrition, micronutrient deficiencies, and obesity. Key drivers include poverty, food insecurity, climate change, and inadequate healthcare. Despite global initiatives, progress is uneven, with vulnerable populations facing the greatest risks. Addressing these disparities requires a deeper understanding of the underlying factors and effective intervention strategies.

#### **Project Goal:**

This project aims to analyze global malnutrition trends, identify root causes, and propose datadriven solutions. By assessing regional disparities and key influencing factors, the goal is to develop effective policies and interventions for governments, NGOs, and healthcare organizations to improve nutrition security and public health outcomes.

# Step-2: Brainstorm, Idea Listing and Grouping

# 1. **Project Overview**

Objective: What is the primary goal of this Power BI analysis?

Scope: Define the time frame (1983-2019) and geographic coverage (global, regional, country-specific).

Significance: Why is analyzing malnutrition trends important?

# 2. Data Collection & Sources

Possible Data Sources:

- WHO, FAO, UNICEF, World Bank, Global Nutrition Report, national health surveys
- Supplementary datasets (e.g., economic, agricultural, climate data)

#### Data Attributes:

- Country, region, year
- Malnutrition indicators (stunting, wasting, underweight, obesity)
- Socioeconomic factors (income levels, education, healthcare access)
- Policy-related variables (government programs, aid distribution)

# 3. Power BI Dashboard Components

- Visuals & Charts:
- Trend Analysis: Line charts showing malnutrition trends over time
- Geographical Heatmaps: Regional distribution of malnutrition rates
- Comparative Analysis: Bar charts comparing countries and regions
- Correlation Matrices: Relationship between malnutrition and other variables
- Interactive Filters: Country, year, malnutrition type, economic factors

#### 4. Expected Insights & Recommendations

- Key trends in malnutrition and their implications
- Policy recommendations for governments & NGOs
- Future projections and areas needing further research

#### **Step-3: Idea Prioritization**

| Key Idea                                     | Description   | Impact       | Feasibility |
|--|---|--------------|-------------|
| Addressing Childhood<br>Undernutrition       | Focus on reducing stunting, wasting, and underweight in children.                       | Very<br>High | High        |
| Improving Food Security                      | Ensuring access to affordable, nutritious food in vulnerable regions.                   | Very<br>High | Medium      |
| Enhancing Maternal and Infant Nutrition      | Promoting breastfeeding, prenatal care, and maternal supplements.                       | High         | High        |
| Tackling Micronutrient Deficiencies          | Implementing fortification programs (iron, vitamin A, iodine, etc.).                    | High         | Medium      |
| Strengthening Nutrition<br>Education         | Raising awareness on healthy eating habits and dietary diversity.                       | Medium       | High        |
| Climate-Resilient<br>Agriculture             | Supporting sustainable farming to counter climate-related food shortages.               | High         | Medium      |
| Reducing Ultra-Processed<br>Food Consumption | Implementing policies to reduce junk food consumption and promote healthy alternatives. | Medium       | Low         |