

canvas

Global Food Production Trends and Analysis A Comprehensive Study from 1961 to 2023 Using Power Bl

Originally created by Dave Gray at





WHO are we empathizing with?

Who would be interested in this study? Which organizations or stakeholders focus on global food production trends? Who is impacted by food production trends?



What do they HEAR?

Crop Production: Trends in staple crops like wheat, rice, maize, and soybeans. Livestock Production: Changes in meat, dairy, and poultry production. Fisheries & Aquaculture: Growth in seafood production. Regional & Country-Level Analysis: Identifying major food-producing nations and their contributions over time. Climate Impact & Sustainability: Examining how climate change, water use, and agricultural policies have influenced food production. Trade & Consumption Patterns: Understanding food exports, imports, and shifting dietary preferences globally.



What do they THINK and FEEL?

PAINS What are their fears,

Data Collection &

Cleaning – Gathering

reliable datasets across

decades (1961–2023) can

be tricky, as sources may have inconsistencies,

missing values, or format

differences.

Data Integration –

Merging multiple data

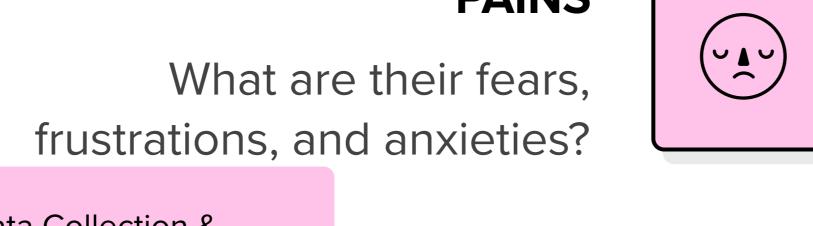
sources (e.g., FAO,

USDA, World Bank)

while maintaining

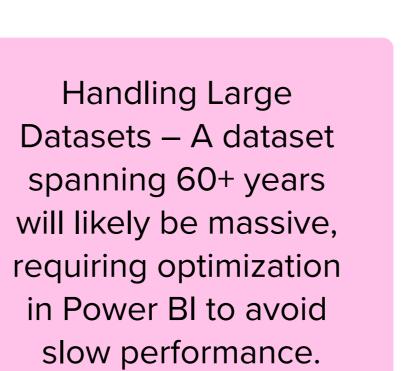
accuracy and

uniformity can be



GAINS

What are their wants, needs, hopes, and dreams?



Trend Analysis

Complexity – Identifying

meaningful patterns

amidst geopolitical,

economic, and climate

shifts over time requires

deep analysis.

differences.

(1961–2023) can be tricky, as sources may have inconsistencies, missing values, or format

slow performance.

(J)

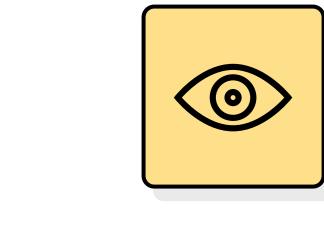
Data Integration – Merging multiple data accuracy and

complex.

Handling Large Datasets – A dataset spanning 60+ years will likely be massive, requiring optimization in Power BI to avoid

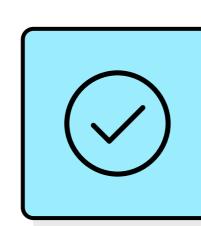
sources (e.g., FAO, USDA, World Bank) while maintaining uniformity can be

rend Analysis Complexity – Identifying meaningful patterns amidst geopolitical, economic, and climate shifts over time requires deep analysis.



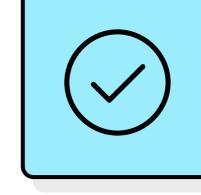
What do they SEE?

Growth in Agricultural Output: Increase in global food production due to technological advancements, mechanization, and improved agricultural practices. Developing countries, particularly in Asia (China, India), have become major food producers. Africa's agricultural production is growing but faces challenges like climate change and infrastructure limitations.

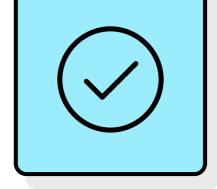


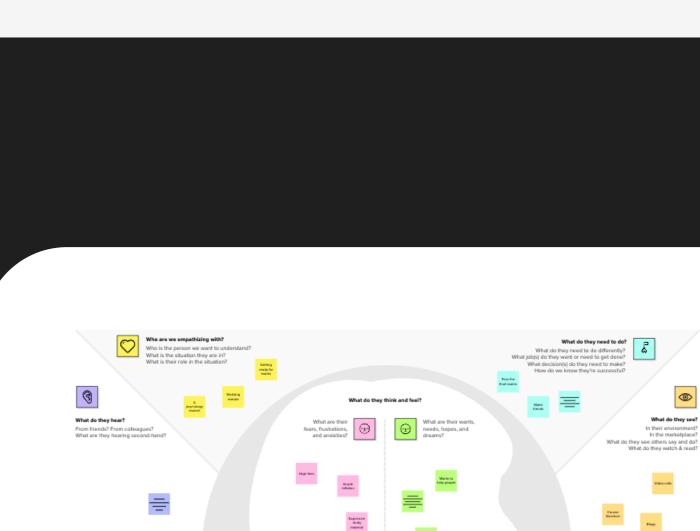
What do they DO?

1. Global Trends in Food Production Growth patterns in agriculture, fisheries, and livestock production. Regional variations in food production. 2. Impact of Technology and Innovation Role of mechanization, irrigation, and biotechnology in improving food yields. 3. Climate Change and Food Security Effects of climate change on crop yields, soil degradation, and water availability. 4. Supply Chain and Trade Analysis Global food trade patterns, exports vs. imports, and their impact on food



security.





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