AIndia’s Agricultural Crop Production Analysis(1997-2021)

1. **INTRODUCTION**

1.1 Overview

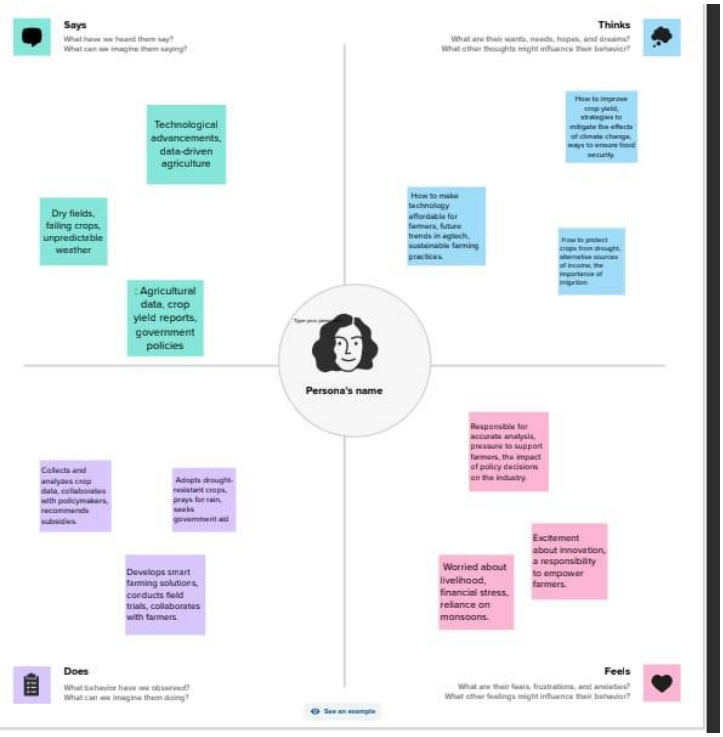
Crop Diversity: India is known for its diverse range of crops, including rice, wheat, pulses, oilseeds, cotton, sugarcane, and more.Rice and Wheat: Rice and wheat are the staple crops in India. The production of these cereals has significantly increased over the years.

1.2 Purpose

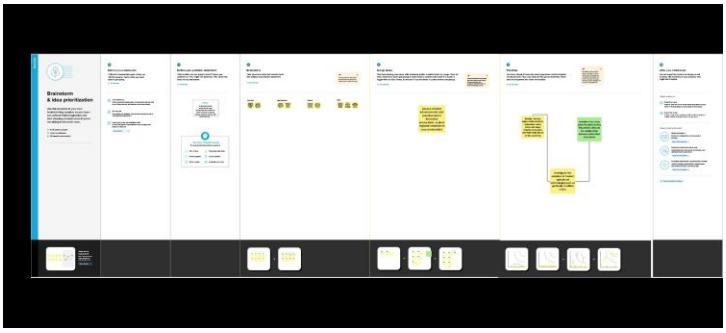
Policy Formulation: By analyzing historical crop production data, policymakers can make informed decisions about agricultural policies. This data helps in determining which crops need additional support, subsidies, or investments and which areas of agriculture require regulatory changes.

2.PROBLEM DEFINATION & DESIGN THINKING

2.1 Empathy Map

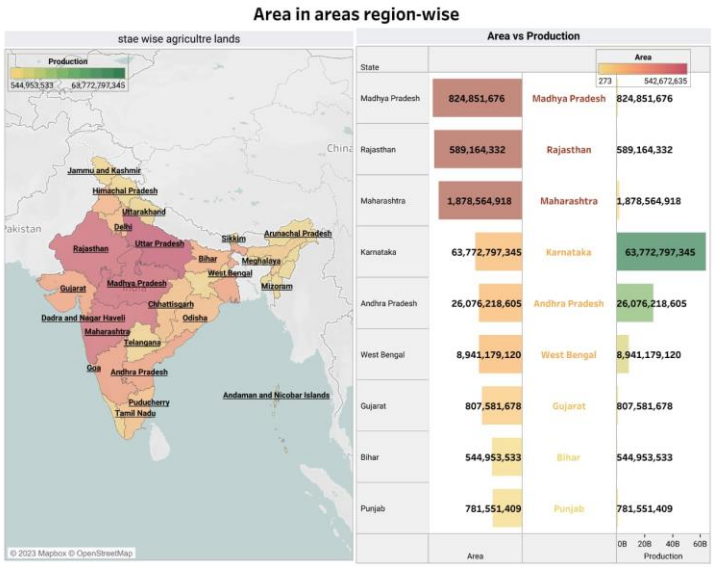


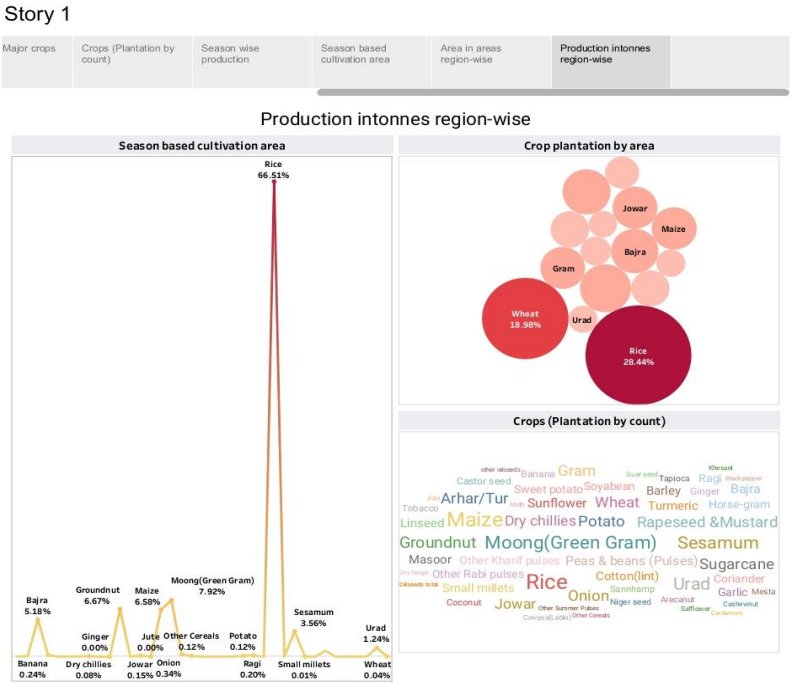
2.2.Ideation & Brainstorming Map



RESULT

Dashboard 1





Story

Story 1

Major crops | Crops (Plantation by count) | Season wise production | Seasor based cultivation area | **Area in areas region-wise** | Production intonnes region-wise

Area in areas region-wise

stae wise agricultre lands

Area vs Production

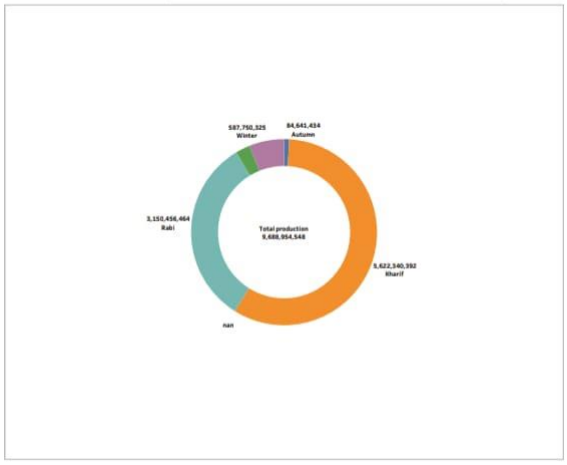
State	Area		Production
Madhya Pradesh	824,851,676	Madhya Pradesh	824,851,676
Rajasthan	589,164,332	Rajasthan	589,164,332
Maharashtra	1,878,564,918	Maharashtra	1,878,564,918
Karnataka	63,772,797,345	Karnataka	63,772,797,345
Andhra Pradesh	26,076,218,605	Andhra Pradesh	26,076,218,605
West Bengal	8,941,179,120	West Bengal	8,941,179,120
Gujarat	807,581,678	Gujarat	807,581,678
Bihar	544,953,533	Bihar	544,953,533
Punjab	781,551,409	Punjab	781,551,409

Area: 273 – 542,672,635

Production: 0B 200B 400B 600B

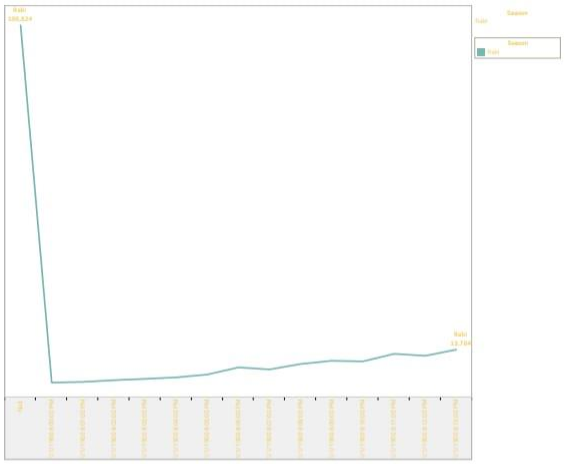
Story 1

Crop plantation by area | Major crops | Crops (Plantation by count) | **Season wise production** | Season based cultivation area | Area in areas region-wise | Production intonnes region-wise



Story 1

stae wise agricultre lands | Area vs ProductionArea vs Production | **Yield by season** | Crop plantation by area | Major crops | Crops (Plantation by count) | Season wise production

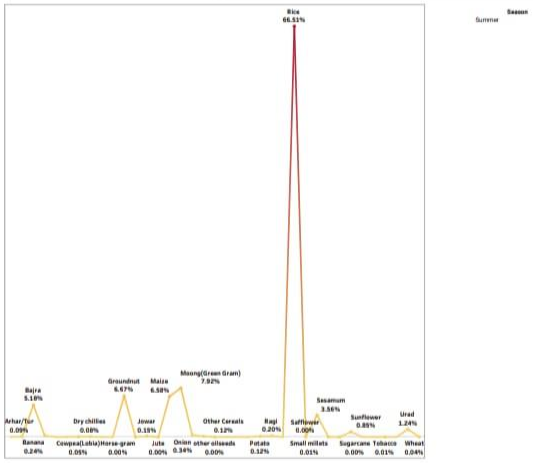


Story 1

Yield by season | Crop plantation by area | Major crops | Crops (Plantation by count) | Season wise production | Season based cultivation area | Area in areas region-wise

Story 1

Major crops | Crops (Plantation by count) | Season wise production | Season based cultivation area | Area in areas region-wise | Production intonnes region-wise

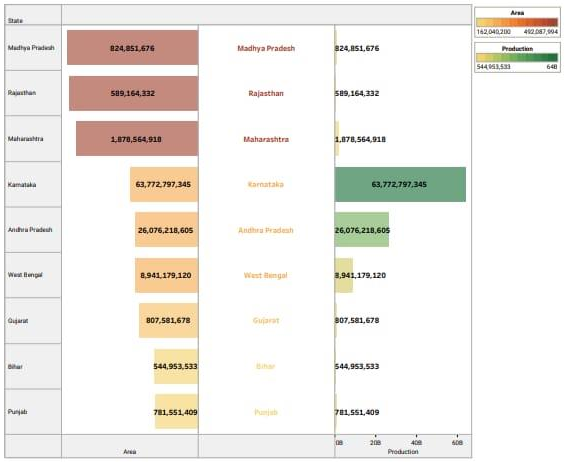


Story 1

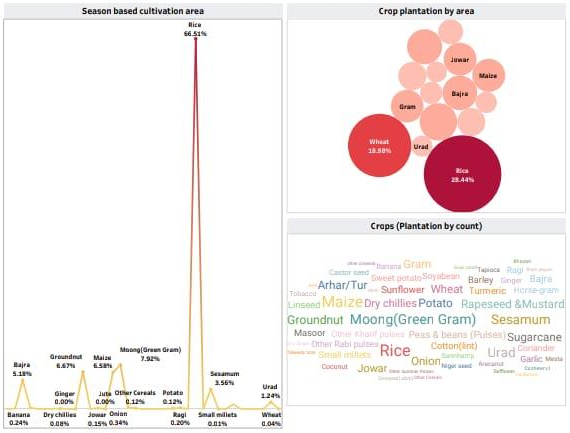
Major crops | Crops (Plantation by count) | Season wise production | Season based cultivation area | Area in areas region-wise | Production intonnes region-wise

Story 1

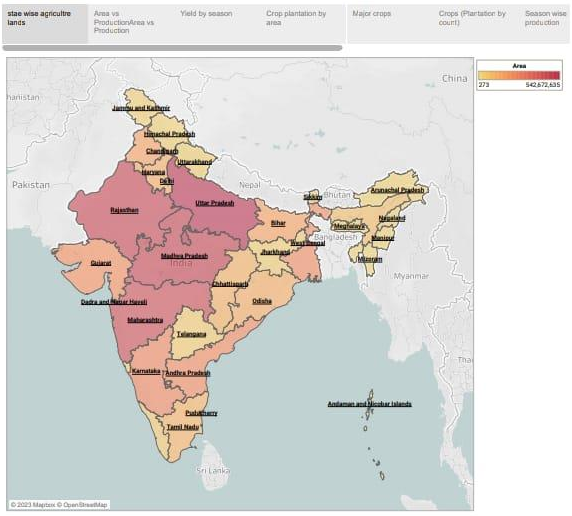
state wise agriculture lands | Area vs ProductionArea vs Production | Yield by season | Crop plantation by area | Major crops | Crops (Plantation by count) | Season wise production



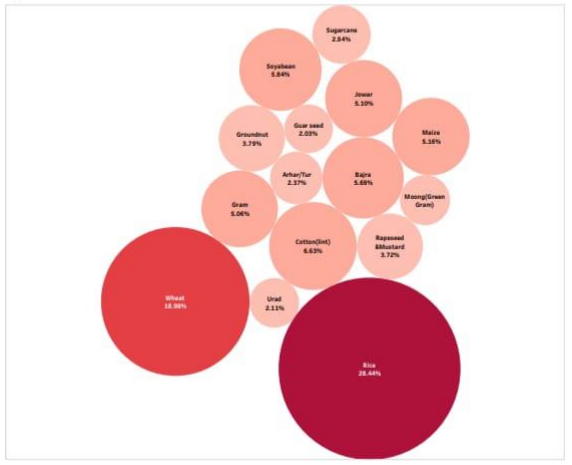
Production intonnes region-wise



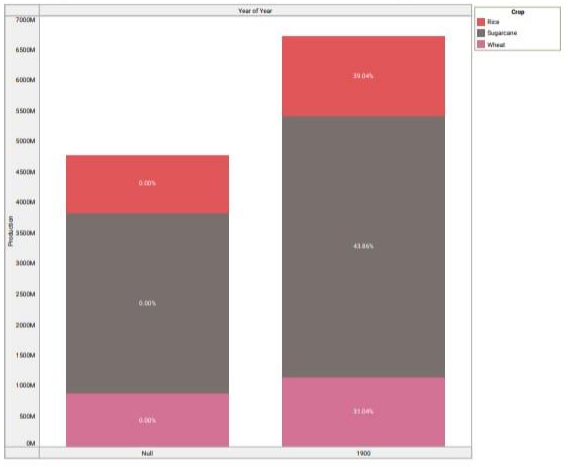
Story 1



Story 1



Story 1



ADVANTAGES

Informed Decision-Making: It provides policymakers and stakeholders with valuable insights to make informed decisions about agricultural policies, resource allocation, and investments in the sector.

DISADVATAGES

- .Data Accuracy: Data quality and accuracy can be a concern. In some cases, data might be incomplete, outdated, or subject to reporting errors, potentially leading to incorrect conclusions.

APPLICATION

Policy Formulation: The data informs policymakers about the performance of different crops and regions, helping them design effective agricultural policies, subsidies, and incentives.

Conclusion:

Moreover, this analysis acts as a shield against potential food shortages, enabling strategic planning to meet the needs of India's vast and growing population. It provides opportunities for rural development, improved livelihoods, and poverty reduction, while also supporting the nation's economic growth through exports and trade.

FUTURE SCOPE:

- Real-Time Data Integration: The integration of real-time data through advanced technologies such as IoT sensors and satellite imagery can provide up-to-the-minute insights into crop conditions, enabling quicker responses to challenges like weather fluctuations and pests.
-
- Big Data and AI: Leveraging big data analytics and artificial intelligence can facilitate more in-depth and precise analyses, uncovering hidden trends and offering predictive capabilities for crop yields, disease outbreaks, and market trends.