# India’s Agricultural Crop Production Analysis (1997-2021)

## 1. INTRODUCTION:

### 1.1 Overview

This report delves into the captivating realm of India's agricultural cultivation, providing a comprehensive visual exploration of key aspects and trends in the agricultural sector. Through the visual representations, readers can gain valuable insights into crop production, seasonal variations, regional distribution, and overall production trends.

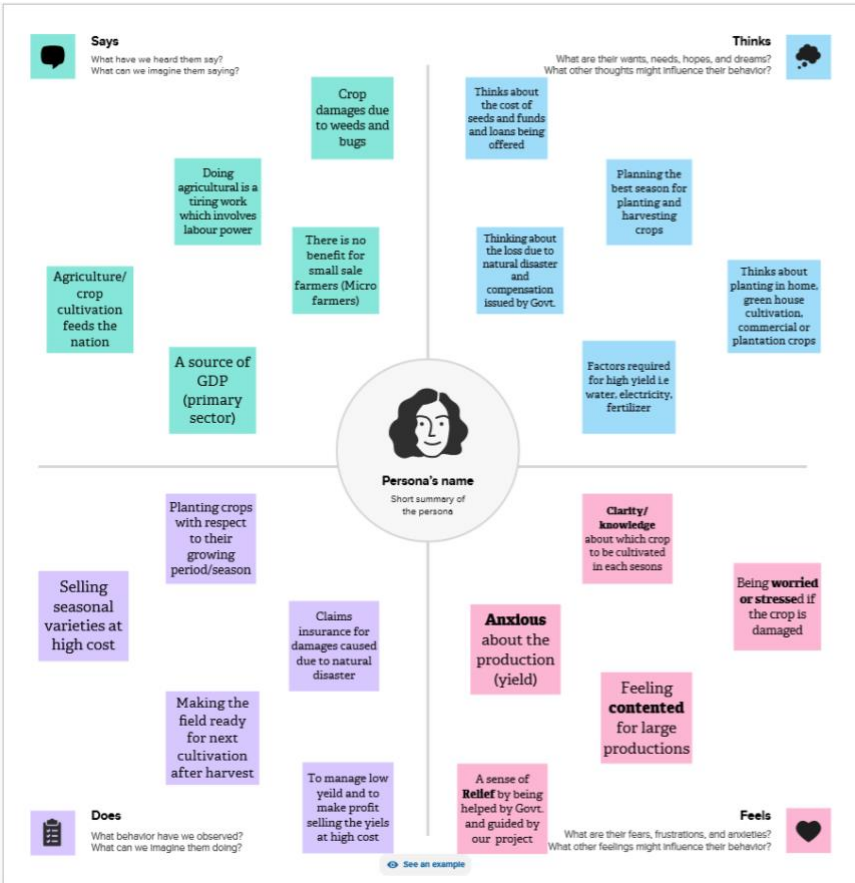
### 1.2 Purpose

The outcome of this project or the main purpose of the project is to get a clear understanding of various crop cultivating trends and methods and their respective end results. Our project helps our client to understand deeply into India’s agricultural through visual representations of data.

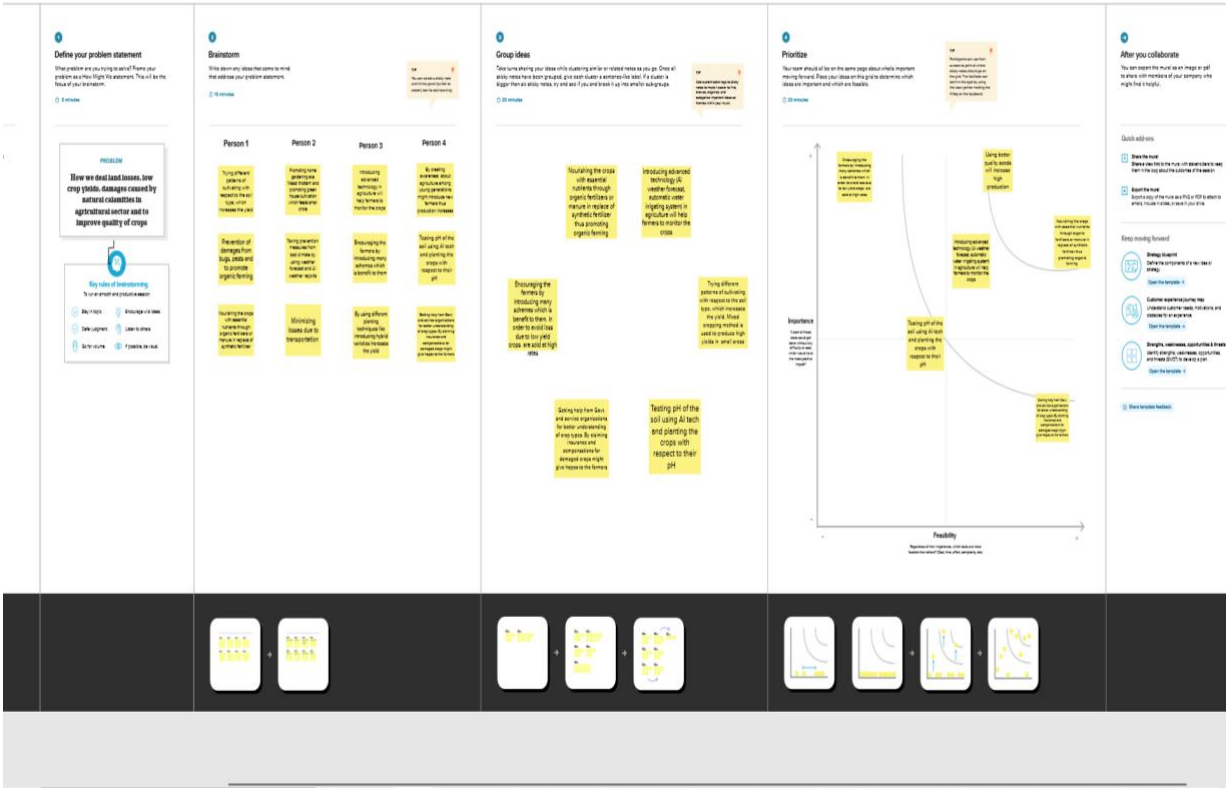
## 2. PROBLEM DEFINTION AND DESIGN THINKING

### 2.1 Empathymap

How we deal land losses, low crop yields, damages caused by natural calamities in agricultural sector and to improve quality of crops by understanding the concept and trends in agriculture of India.




### 2.2 Ideation and brainstorming map




## 3. RESULT

On interpreting the data given from the year 1997-2021, we can clearly understand about the cultivation trends followed in India in their respective cultivating and harvesting season. By visualizing the given data set the following results are obtained.

- Out of many crops cultivated, RICE, WHEAT & SUGARCANE has highest cultivation production percentage.
- India has 5 main seasons, different types are cultivated according to the area, place and season. Kharif one of the 5 seasons contributes to highest yield production.

## 4. ADVANTAGES AND DISADVANTAGES

- **Advantages**
  - The right season to cultivate crops is determined, which has an ultimate effect on total yield in agricultural sector.
  - The visual representation clearly gives overall view of 20 years agricultural analysis covering all seasons and various types of crops.
- **Disadvantages**
  - It does not give the data of damaged crops and their production loss.
  - Those results and graphs are just a representation of past decades agri trends, we shouldn't fully trust on this but yet this is a useful method for knowing the trends.

## 5. APPLICATIONS

- It is very useful in primary sector of India as it deals with crop productions.
- It also has effects in GDP of India considering effective changes.
- New farmers, young agriculturalist have a big advantage of knowing those data and investing and planting crops accordingly.

## 6. CONCLUSION

As an end result of this project readers can gain valuable insights of crop production, seasonal variations, regional distribution and overall production trends through visual representation, which may also help in solving cultivation related problems.

## 7. FUTURE SCOPE

By knowing the crop's exportation value and soil types it further helps in total GDP of primary sector. So understanding these data are very much important to do even more better production.