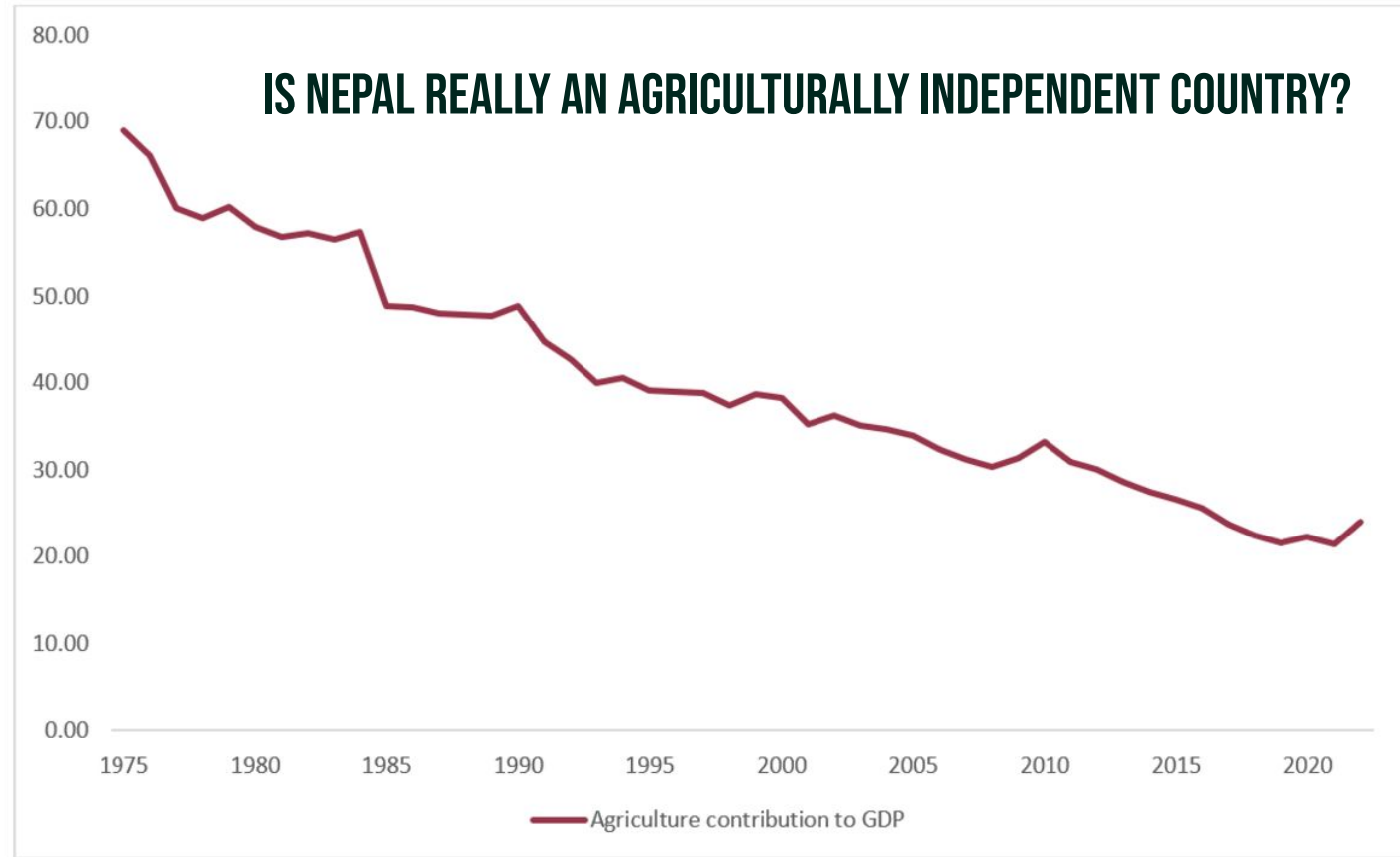
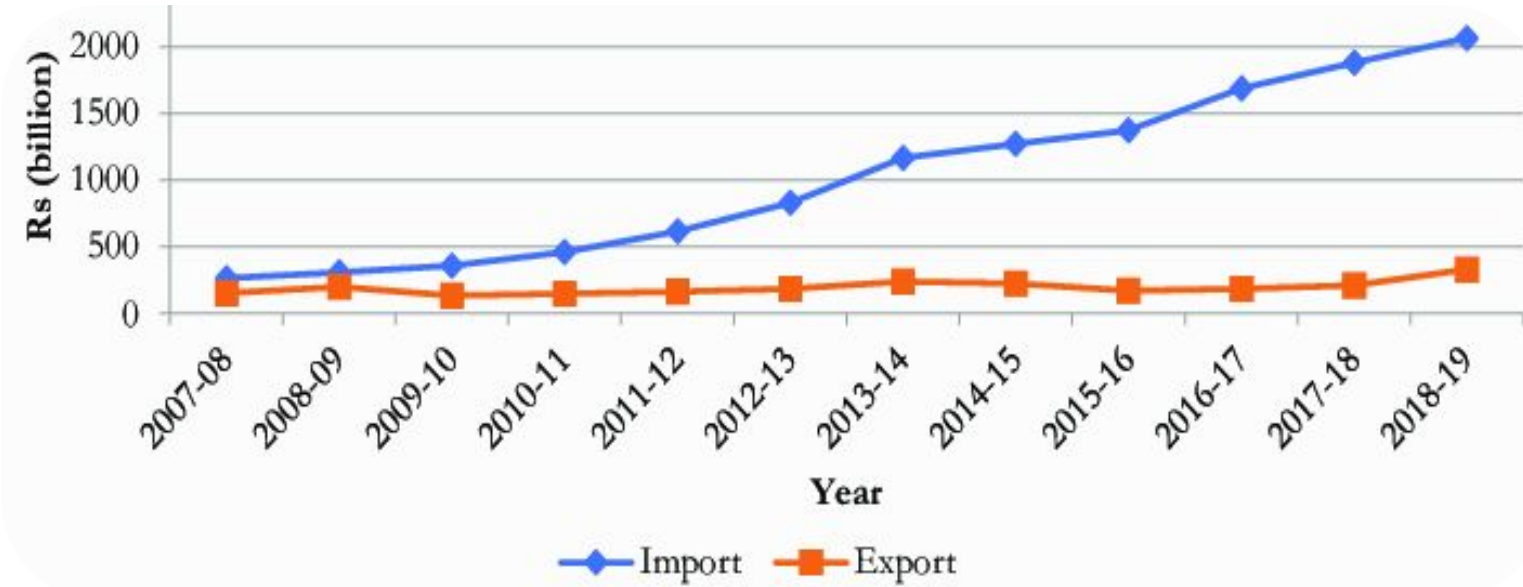


Team Renaissance

Welcome!

Figure 1: Agriculture Contribution to GDP (Nepal)





Source: Export and Import of Food Products in Nepal (Rs Billion)



AGROSPHERE

"Empowering Farmers, Cultivating Futures"



Team Renaissance



Our Team



Sijan Pandey



Nimesh Timalsina



Safal Shrestha



Ranjit Raut





OUTLINES

1

Introduction

3

**Impact and
Future**

5

Conclusion

2

**Problem +
Solution**

4

Discussion



01

Introduction



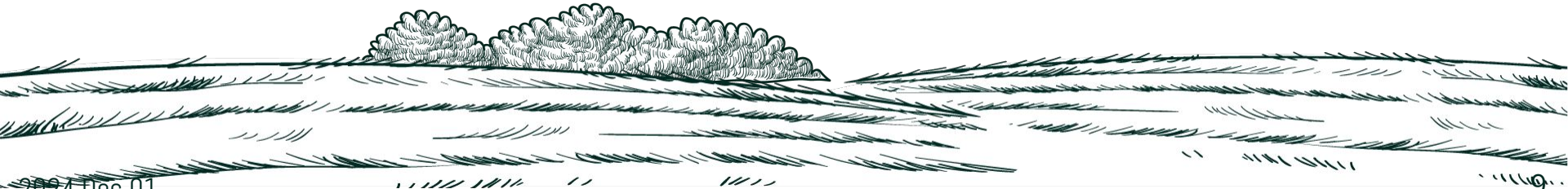
Agrosphere

Agrosphere, a **cross platform** application designed to fulfill your farming needs.



02

Problems



Problem Statement

- **Lack of proper cross platform** for communication between farmers and consumers
- **Plant disease detection** along with suggestions and remedies
- **Encourage upcoming generations** to agriculture
- **An agricultural news hub** for daily vegetable prices updates
- **AI powered chatbot** for all agricultural needs and queries



Solutions



1. DISEASES DETECTION

- **POTATO DISEASE DETECTION**

- Late Blight
- Early blight
- Leaf miner

- **TOMATO DISEASE DETECTION**

- **TOMATO RIPENING DETECTION**



Figure: Plant Diseases

2. NITROGEN DEFICIENCY DETECTION IN PADDY

- A model to detect nitrogen levels using LCC.
- Automates leaf color analysis for accuracy.
- Reduces manual errors and enhances efficiency.
- Supports sustainable nitrogen management.



3. ADDITIONAL FEATURES

- Daily Vegetable Prices (**Kalimati**)
- Agricultural News and Notice (**Nepal**)
- Insects + Diseases + Pests Descriptions
- Chatbot (**Krishi AI**)
- Chat with Farmers/Experts/Consumers



03

Future Plans





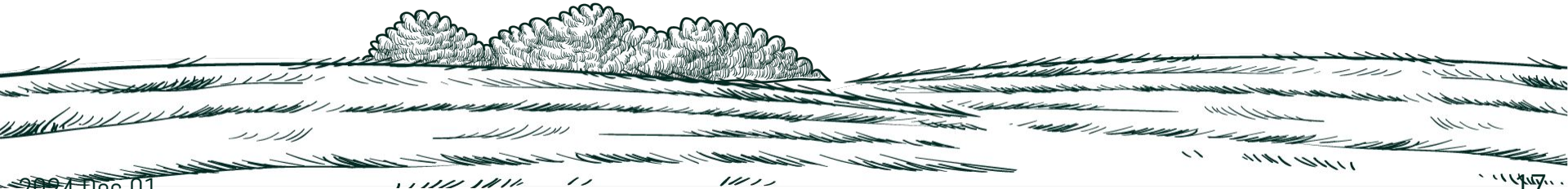
Future Plans

- Freemium Model
- Subscription Plans
- Pay Per User
- Data Collection
- Advertising and Collaborations
- Government Partnership



04

Discussion





Discussion

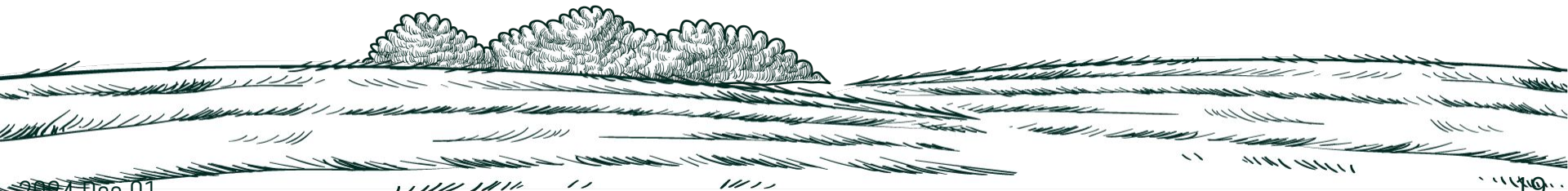
1. Datasets

- Manually leveling (Semantic)
- Department of Agriculture (KU)
- Open Source Datasets (from Kaggle)



05

CONCLUSION





Conclusion

1. Future Enhancements

- Add more plants diseases
- Refine the app and UI
- Improve accuracy of detection
- Increase Team collaboration
- Implement in the real world Nepalese market

2. Target Audience

- Encourage Young Generations To Agriculture



THANKS!

- Team Renaissance

