

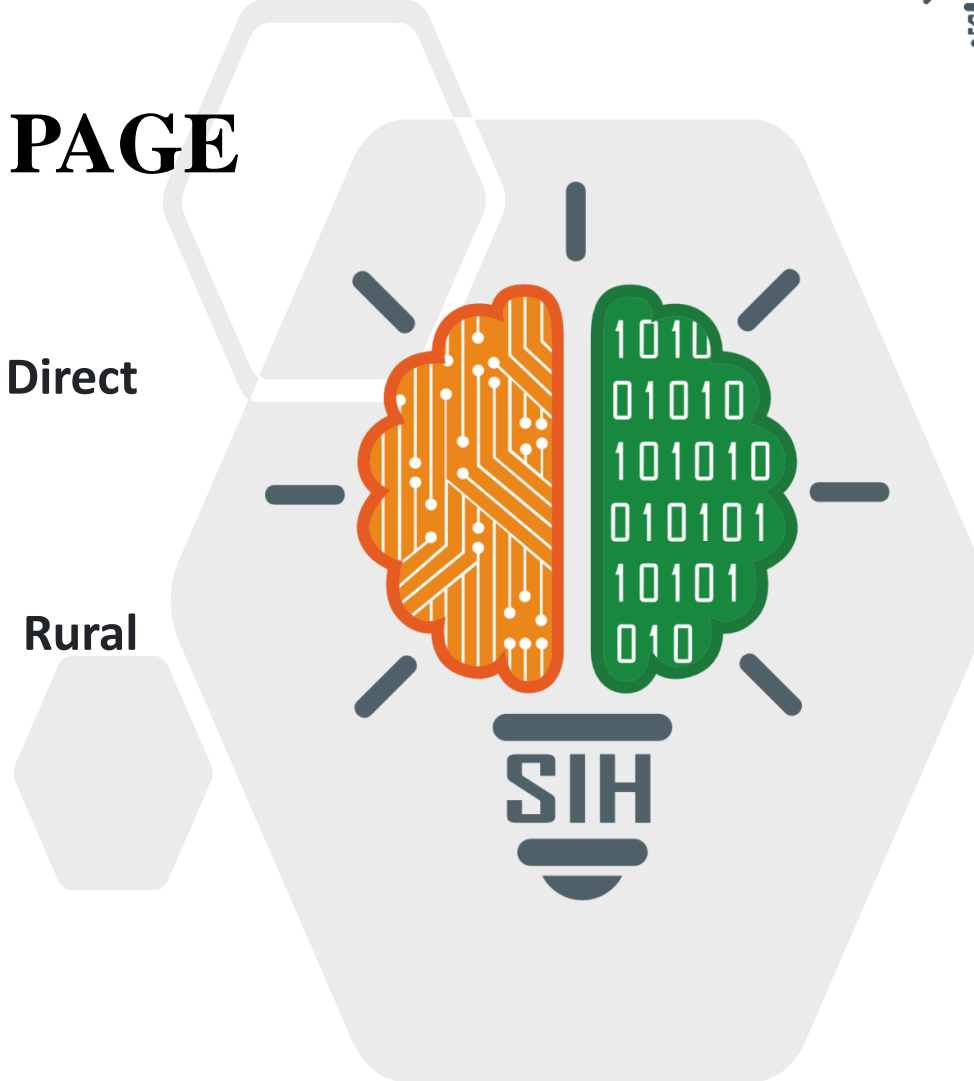
# SMART INDIA HACKATHON 2024



SMART INDIA  
HACKATHON  
2024

## TITLE PAGE

- **Problem Statement ID –SIH1637**
- **Problem Statement Title-Mobile App for Direct Market Access for Farmers**
- **Theme-Agriculture, Food Tech & Rural Development**
- **PS Category- Software**
- **Team ID- 13253**
- **Team Name- DA4T Devs**



# IDEA TITLE

## SOLUTION EXPLANATION

- Mobile app for farmers to list there farm produce by creating there profile.
- Profile contains name of the farmer, location of the farm, certifications, pictures of his farm.
- FMCG Companies directly buy the farm produce from the farmers profile.
- In app video calls and messages available to directly communicate with the farmer.

**Directly connect FARMERS WITH BUYERS**

## UNIQUENESS & INNOVATION



**AUCTION SYSTEM**



**VIDEO CALLS & MESSAGES**

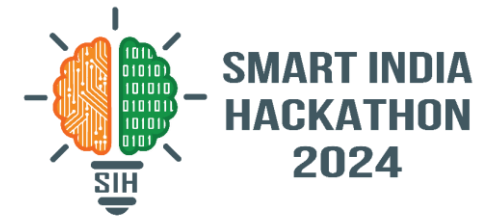


**SEMINARS & EXHIBITIONS**



**SCHEMES NOTIFICATIONS**

# TECHNICAL APPROACH



## FRONTEND



FIGMA



FLUTTERFLOW

## BACKEND



NODEJS



DART

## DATABASE



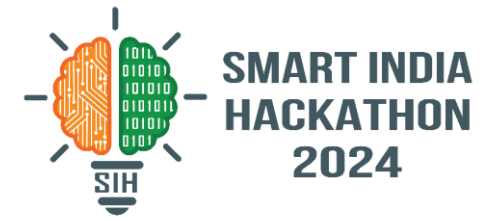
FIREBASE



MONGODB



# FEASIBILITY AND VIABILITY



## FEASIBILITY

- Simple user interface
- In app Video Calls and Messages
- Ratings and Feedback to assure quality
- Multilingual & voice assistance support

## CHALLENGES

Quality Assurance  
Accessibility  
Trust  
Transport  
Awareness

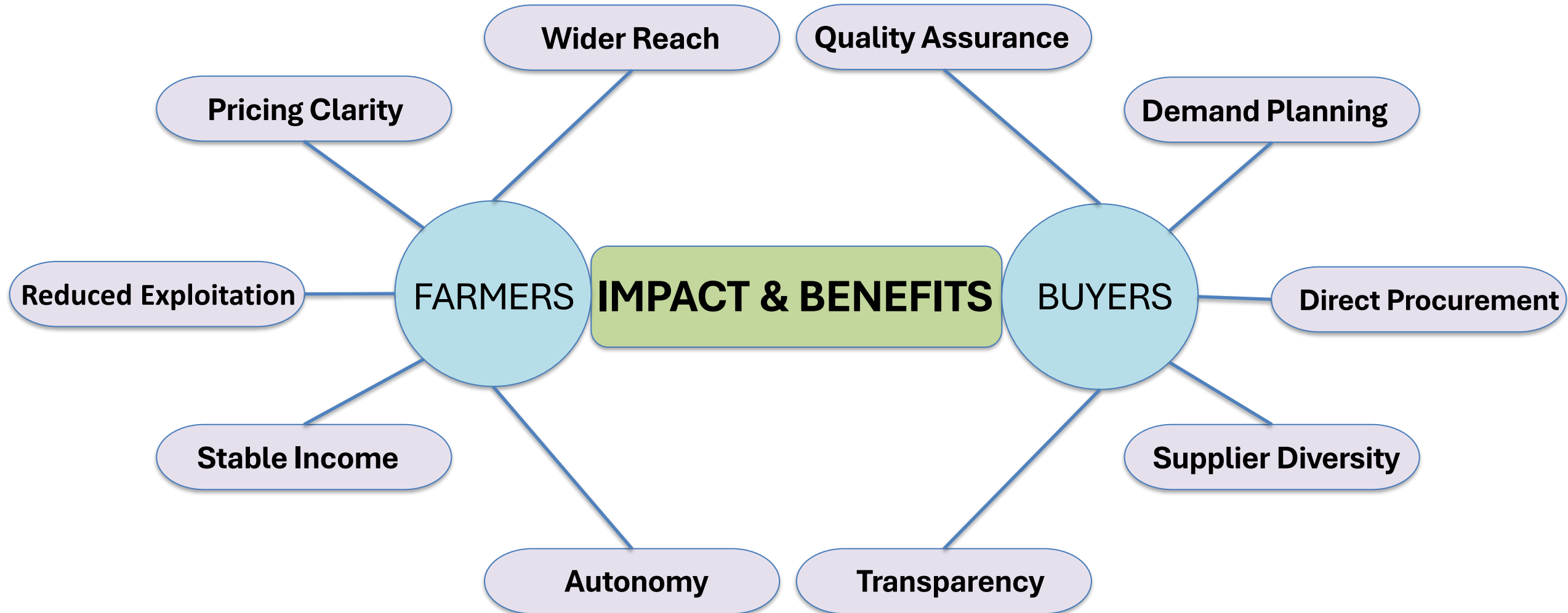
## VIABILITY

- 120 millions farmers userbase
- FMCG Market size is \$220 billions
- Internet access is over 60% in rural area
- Certification Management

## STATERGIES

- In app video calls, feedback and rating options.
- By Connecting with the Gram Panchayats of various villages.
- Working with local transport agencies.
- By arranging local seminars to give opportunity to the farmers to showcase the quality of their crops.

# IMPACT AND BENEFITS



# RESEARCH AND REFERENCES



- 1) Ben Ayed, R. and Hanana, M., 2021. Artificial intelligence to improve the food and agriculture sector. *Journal of Food Quality*, 2021(1), p.5584754.
- 2) Jankelova, N., Masar, D. and Moricova, S., 2017. Risk factors in the agriculture sector. *Agricultural Economics (Zemědělská Ekonomika)*, 63(6), pp.247-258.
- 3) Pascaris, A.S., Schelly, C. and Pearce, J.M., 2020. A first investigation of agriculture sector perspectives on the opportunities and barriers for agrivoltaics. *Agronomy*, 10(12), p.1885.
- 4) Tongwane, M.I. and Moeletsi, M.E., 2018. A review of greenhouse gas emissions from the agriculture sector in Africa. *Agricultural Systems*, 166, pp.124-134.
- 5) Scott, S., Si, Z., Schumilas, T. and Chen, A., 2014. Contradictions in state-and civil society-driven developments in China's ecological agriculture sector. *Food Policy*, 45, pp.158-166.