CropIn

Case Study

CropIn Technology is the preferred partner of the **ATMA Jalna project of the Maharashtra Government under NFSM scheme of the Government of India** for implementing agriculture technology to enhance the socio-economic well-being of the rural community.

The Customer

National Food Security Mission(NFSM) is a government scheme to sustainably enhance the production & productivity of rice, wheat, pulses and coarse cereals in the identified districts of the country. The aim is to improve farm level economy and ensure national food security. One such district covered under NFSM, is Jalna in Maharashtra where pigeon pea & chick pea(pulses) are grown. **Agricultural Technology Management Agency (ATMA)** is a society of key stakeholders involved in agricultural activities for sustainable agricultural development in the district.

The Challenges

The district had not been extensively exposed to agriculture technology before and farms were being managed manually. This resulted in inefficient monitoring of field activities especially in remote areas and inconsistent record keeping of agri-inputs utilized. Ensuring adherence to standards like GAP (Good Agricultural Practice) and adoption of right package of practices was a huge challenge. Moreover, pest infestation and lack of timely advisory resulted in lower crop yields. There was an urgent need of technological intervention to address these problems and ensure sustainable development of the community.

CropIn's Solution

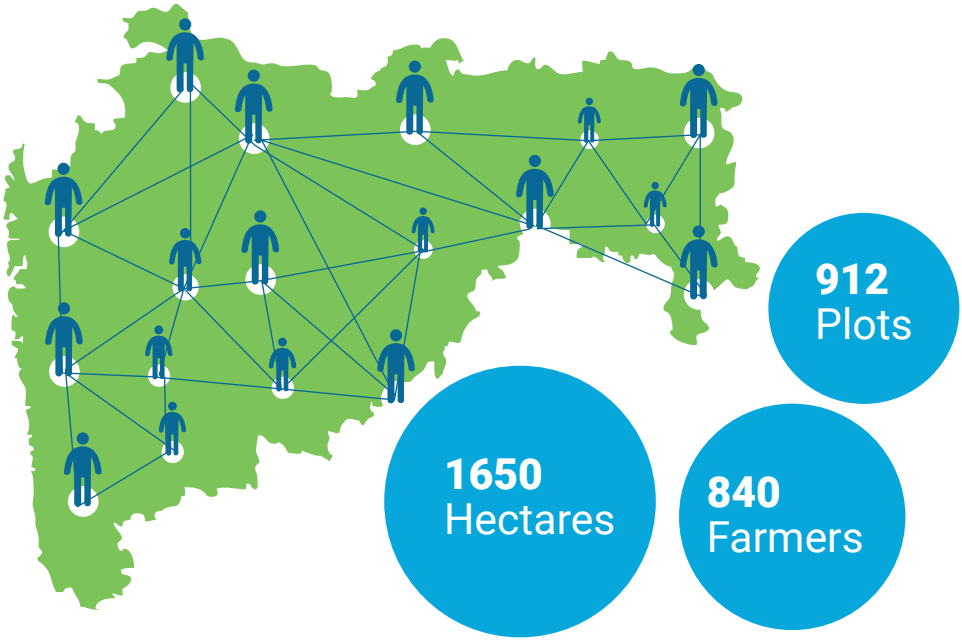
- Plot geo-tagging and area auditing
- Complete field monitoring
- Calculation of the actual sowing area & harvest estimation
- Monitoring crop status through the images captured by the field staff from the field
- Analysis of the different types of alerts (pest infestation, diseases etc.) raised, affected area, & loss in yield
- Pest advisory to the farmers
- Monitoring the utilization of agri-inputs like seeds, fertilizers etc.
- Comparison between the expected harvest forecast and the actual harvest

The Results

CropIn successfully implemented agriculture technology on the farms, resulting in efficient farm management. Major highlights of the project include:

- **Digitization of all data** captured on the mobile
- **540 plots** out of **912** have been **geo tagged** which has made it easy to locate the plots on the map
- **496 plots** have been **audited** and the total area measure for the same was **274.6 Hectares**
- **Total seed quantity** of **12,773.5 kg** was captured for 272 plots across a sowing area of 146 Hectares
- A total of **19 alerts** were raised from the field and have been addressed
- A harvest of **66.6 Tonnes** has been recorded for 175 plots & 102.7 Hectares of sowing area
- Maximum harvest has been recorded for BDN 711 rain-fed variety, with 59.9 tonnes of harvest recorded for 88.2 Hectares sowing area

Maharashtra



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