PRODUCTIVITY PREDICTION FOR DEMAND ESTIMATION

The Client

\$1.4 Billion fertilizer company

Industry

Agri - Fertilizer

Overview

Fertilizer companies depends on many natural & market factors in a region, such as rain fall (before/after sowing), extent of area sown, reservoir water levels, seed prices, relative market demand for different crops, seasons like Kharif and Rabi, soil characteristics, availability of bore wells, competitions, etc.

Business Challenge

Data-driven

Accurate Forecasting

While all this data has a direct impact on the demand, sales and consumption of fertilizer products. Today, especially in developing countries, at the government level as well as some companies, most of the forecasting is heavy relied on team judgment.

Improved Data

Quality

Visualization

Dashboard

Our Approach:

Quadratyx built a fertilizer demand forecasting model in two phases using predictive analytics and big data technologies: <u>Phase 1:</u> District wise, crop wise, accurate demand forecasting models

<u>Phase 2:</u> Similar models at the mandal level. Also, move from demand forecasting to sales forecasting.

Outcomes

- ✓ Built over 600 predictive models at the district-crop level to accurately predict acreage-sown and fertilizerrequired.
- ✓ We extensively used external data sources collected by Government organizations in this project, and quantified data quality metrics.

