HOW IT WORKS?

Drones are used to survey and map the terrain to identify places needing plantation. We use hyperspectral image technology with Machine learning to generate a topographical map to give a holistic sense of the total area.

STEP 01

AERIAL SURVEY & MAPPING

Determine trees to be grown based on various parameters like weather, altitude, soil, indigenous seed varieties & historical growth data using previous information and machine learning.

STEP 02

UNDERSTANDING THE REQUIREMENTS

Seed balls are then created as per local soil requirements and in order to ensure safety and no change of direction by wind

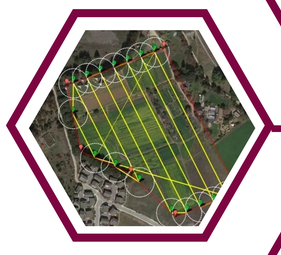
STEP 03

SEED BALLS PREPARATION

Drones are deployed to spray seeds over designated areas. We fly the drones along pre-determined flight map. These maps are digitally rendered to cover all the area determined in Step 1 with topographical overlay for easy visualization.

STEP 04

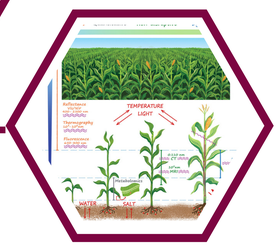
DRONE DEPLOYMENT



GEOTAGGING DRONEPATH

STEP 05

The paths followed by the drones are geotagged, facilitating periodic drone monitoring of sown area to collect tree statistics.



POST GROWTH MONITORING

STEP 06

Geotagged seedballs are monitored for growth for years to come to create analytics required for forest monitoring