



MATRIX INTERNATIONAL (UK) LTD.

BASIC PROJECT OVERVIEW

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## Basic list of Operations for Agricultural system

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## **1 Abstract**

Matrix implemented the software, Electrical and SCADA system for a Agricultural system.

## **2 Machine Assets**

- Cultivator , rotation or dragged.
- Cultipacker : crushes dirt clods, removes air pockets, and presses down small stones, forming a smooth, firm seedbed.
- Plow
- Subsoiler
- Seed Drill

## **3 Process Function**

- Prepare soil for planting
- Seed planting- to specific depth.
- Soil monitoring - pH, mineral values et al.
- Growth Checking- monitoring of growth over time via Computer Vision systems.

## **4 Software Function**

- Recipie handling - via a SCADA system
- Maintenance reporting - Sensors report state of various critical parts to aid in maitenece process pre-emptively.
- Part Tracking - MES system to ensure a paper trail for batches of product.

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- Reporting - for information with respect to how to improve the system.