

Agriculture Management System

For Sugar Industry



REDUCE TIME FROM “CUT TO CRUSH”

System designed to minimum “Cut to Crush” time and thereby increasing “% recovery of sugar” from sugarcane, by eliminating post-harvest sucrose losses.



COST OPTIMAL

Due to reduction of cost for manpower, losses due to errors, enhanced productivity, yield and quality, with timely alerts.



SECURE

Through stringent checks and balances across the process.



INTEGRATED

Seamlessly across the enterprise with SAP ERP, Weighing System, and other systems, is bringing in standardization across the enterprise.



FARMER DELIGHT

By eliminating scope for malpractices, bringing transparency in weighing and enhancing farmer-factory connect.



CMMI DEV | ML5
APPRAISED

Appraisal # 63344 | Exp. Feb 28, 2026



*“Delivering Quality Products And services
Through Innovative Usage of Technology”*

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The Need

Farmers are concerned about the productivity and quality of their crop, requiring a planned and consistent approach from soil assessment to ensuring a healthy crop. Further delivery farmers are concerned about transparency as the reliance on operators, presents an opportunity for willful or inadvertent errors during weighing and validity check.

Similarly, factories dependent on the farmers for sugarcane, also face challenges in terms of quality, predictability and consistency of the sugarcane to ensure continued and uninterrupted production.

Even where the company owns the farms, there is a critical requirement for optimally enhancing productivity and yield, both in terms of quality and quantity. This entails stringent monitoring and control right from cultivation, through maturing and supply for onward production.

What is PULSE Agriculture Management System

AMS is a specialized solution designed for managing the complete life cycle of its crop for sugar factories. This software enables sugar companies to manage good quality, consistent, adequate, and on-time supply of sugarcane, addressing all aspects of cultivation, monitoring, maturity, harvesting and financials, including loans and payments to farmers as well as harvesting contractors and transporters, on a consistent and sustainable basis.



Manual System

Most sugar mills working on manual or semi-automated systems can be beset with potential risks ranging from slippages in the process, duplications, to willful frauds and accidental errors. Due to the high degree of dependence on the knowledge, experience and skills of individuals, as well as on systems fully or partially disconnected from the rest of the plant operations, each stage can have additional bottlenecks and gaps.

Drawbacks

- Disconnected systems leading to multiple entries and duplications, increasing the potential for errors, slippages and data conflict.
- High dependence on individuals.
- Difficult to assess, reference or trace transactions across the life cycle for each crop delivery.
- Inadequate clarity and transparency leading to lowering of trust between farmer and factory.
- Time lags between each stage leading to delays in payment.
- No comprehensive view of crop and visibility of delivery, or real-time alerts, posing potential for losses.
- Non-availability of timely data collection and integration into central ERP and other systems poses the risk of information being suspect.
- Post-mortem information rather than informed decision making.
- No single view of the enterprise process for management decision-making.

Process Overview

Land Acquisition and Preparation



Outgrower Management

- Outgrower and Plot Registration
- Farmer Contract
- Pre-planting Assistance
- Seed Procurement & Delivery

Nucleus Estate Management

- Land Purchase, Leasing, and Contracting
- Pre-planting Activities
- Seed Procurement & Delivery

Crop Management



Agriculture Engineering

- Machinery Management
- Land Preparation Program
- In-field Road Maintenance
- Vehicle/Machinery Expenses and Efficiency

Input Management

- Seed Supply Management
- Fertilizer and Pesticides Supply Management
- Water Supply Program
- Crop Activity Calendar
- Data captured in field using Mobile Phones/Tablets

Crop Growth Monitoring

- Crop Activity Calendar
- Crop Growth Monitoring
- Crop Maturity Analysis
- Data captured in field using Mobile Phones/Tablets

Harvesting

- Harvesting Calendar and Daily Harvest Program
- Harvesting Labour Management
- Harvesting Contractors
- Accounting
- Harvesting Labour Payroll
- Data captured in field using Mobile Phones/Tablets

Despatch and Delivery



Transportation

- Vehicle Management
- Allocation of Transporters & Vehicles
- Transport Program
- Transporters Accounting
- GPS Tracking of Vehicles

Weighbridge

- Quality Inspection
- Gross and Tare Weighing
- Unloading Verification

Post Delivery Operations



Billing/Payments

- Agriculture Services Billing
- Seed/Fertilizers/Pesticides Billing
- Farmer Loans and Advances
- Interest Computations
- Farmer Payments
- Bank Payment Electronic Transfers

Billing/Payments

- Farmer Web-site and Mobile App
- Management Dashboard
- Extensive use of Mobile Phones/ Tablets/ Hand-held Terminals – all data captured at source itself
- Includes complete workflow for all activities of agriculture department
- SAP certified integration with SAP core modules

Amity Agriculture Management System for Sugar industry



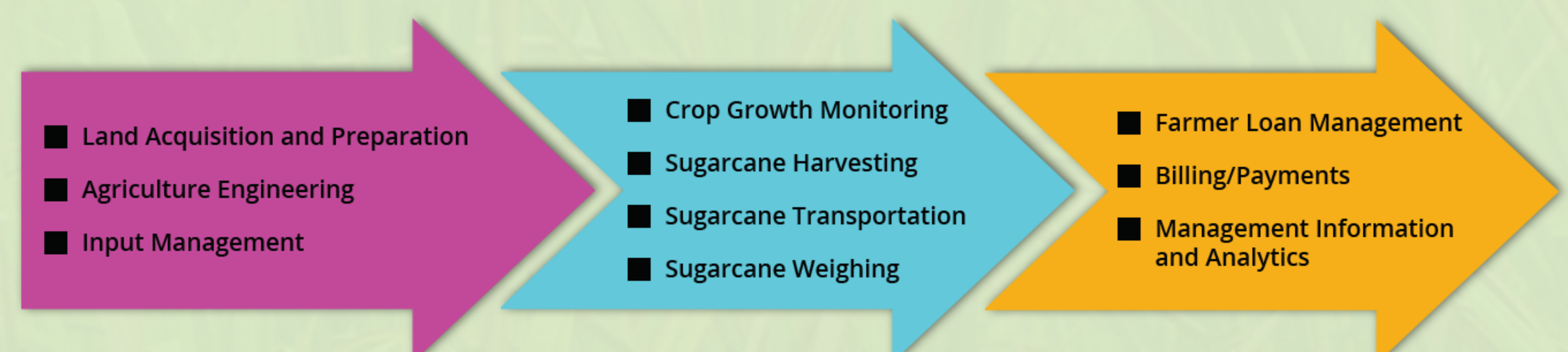
Amity's AMS is the most comprehensive and robust Agriculture Management System currently available worldwide for Sugar companies. It addresses end-to-end agriculture-related requirements of sugar factories, right from land recruitment to payment to farmers against their sugarcane supply. AMS combines the industry best practices with the specific needs of the location-based on factors related to geography and climate. It is also customized to take care of government regulations in that specific state/country.

AMS ensures maximum production yield at best quality, ensuring timely inputs, close monitoring and efficient operations, consistently and predictably. The system ensures optimized utilization of the field staff, by providing relevant information, in time, enabling remedial measures, eliminating errors and averting losses. Designed for 24x7 operations, AMS offers a field-proven, scalable, transparent and sustainable solution with minimal dependence on the human interface and maximum utilization of automation.

AMS drives in efficiency in operations as a planned and streamlined process with each stakeholder, and at each stage of the workflow, seamlessly executing its function to ensure end-to-end and uninterrupted supply of sugarcane in the plant.

The system also allows for course correction, remedies and interventions, as and when any emergent or an ad-hoc situation arises, through close monitoring and timely alerts. At all the critical stages, quality checks are undertaken to enhance the health of the seeds.

Key Components



Key Features and Benefits

- **Best Business Practices:** For managing the complete, end-to-end crop lifecycle.
- **360 Degree Control:** Provides complete control on the crop to ensure maximum yield from each field covering all the aspects- computing quantities of inputs, like the seed, fertilizer, pesticides, scheduling, harvesting, planning for labour, and organizing transport.
- Reduces "Cut to Crush" time interval to maximize sugar recovery.
- **Improved Factory-Farmer Connect:** Brings transparency and complete traceability of the crop right till the individual field.
- **Cost Optimization:** Optimizes all processes, in order to minimizing manpower and material inputs, and saving of time and cost.
- **Integration with SAP and other renowned ERPs:** Seamlessly interfaces with ERP solutions to ensure an integrated system.
- **Valuable Analytics:** PULSE AMS enables better decision-making, providing valuable analytics and information on a timely and consistent basis.

About Amity

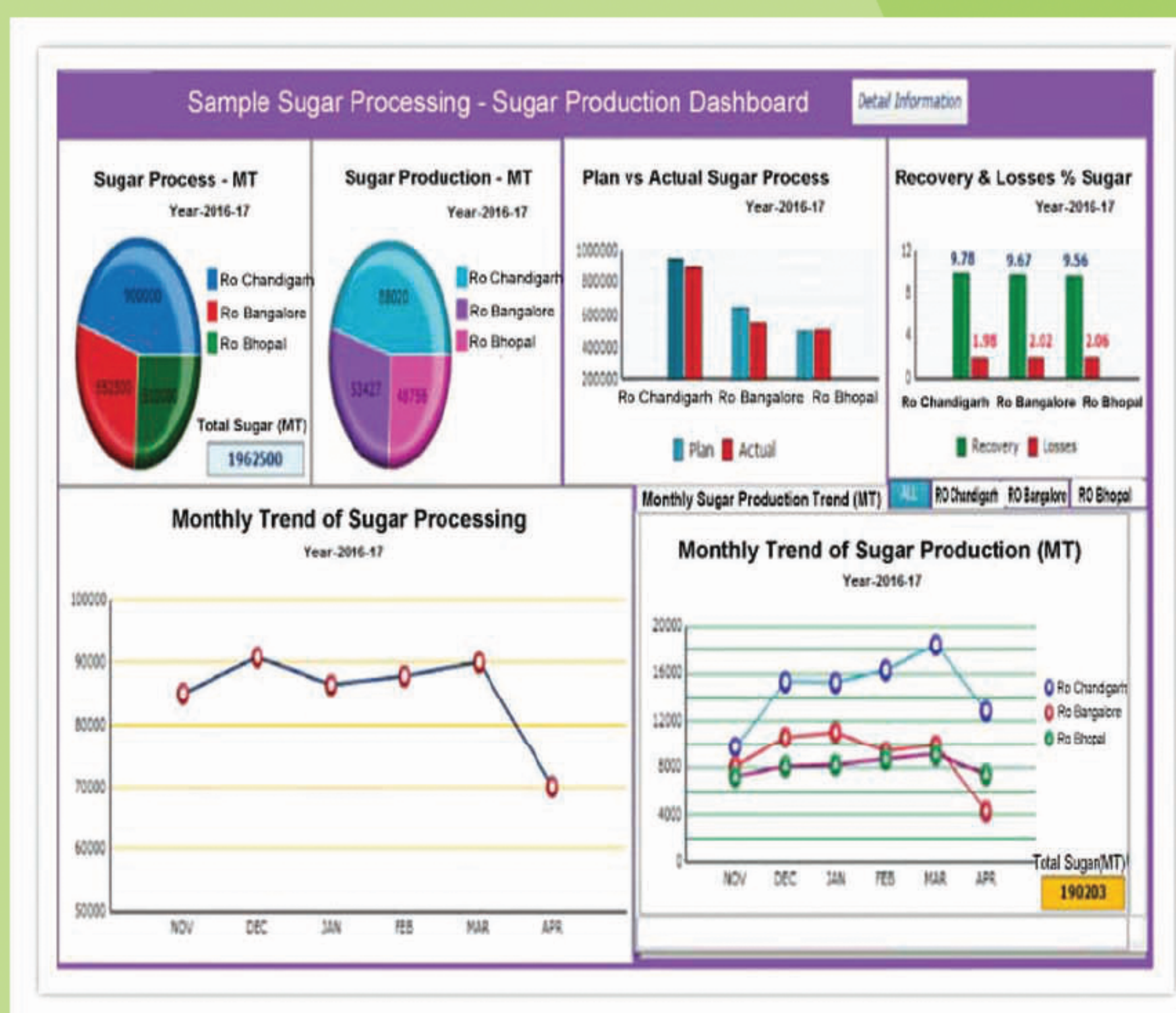
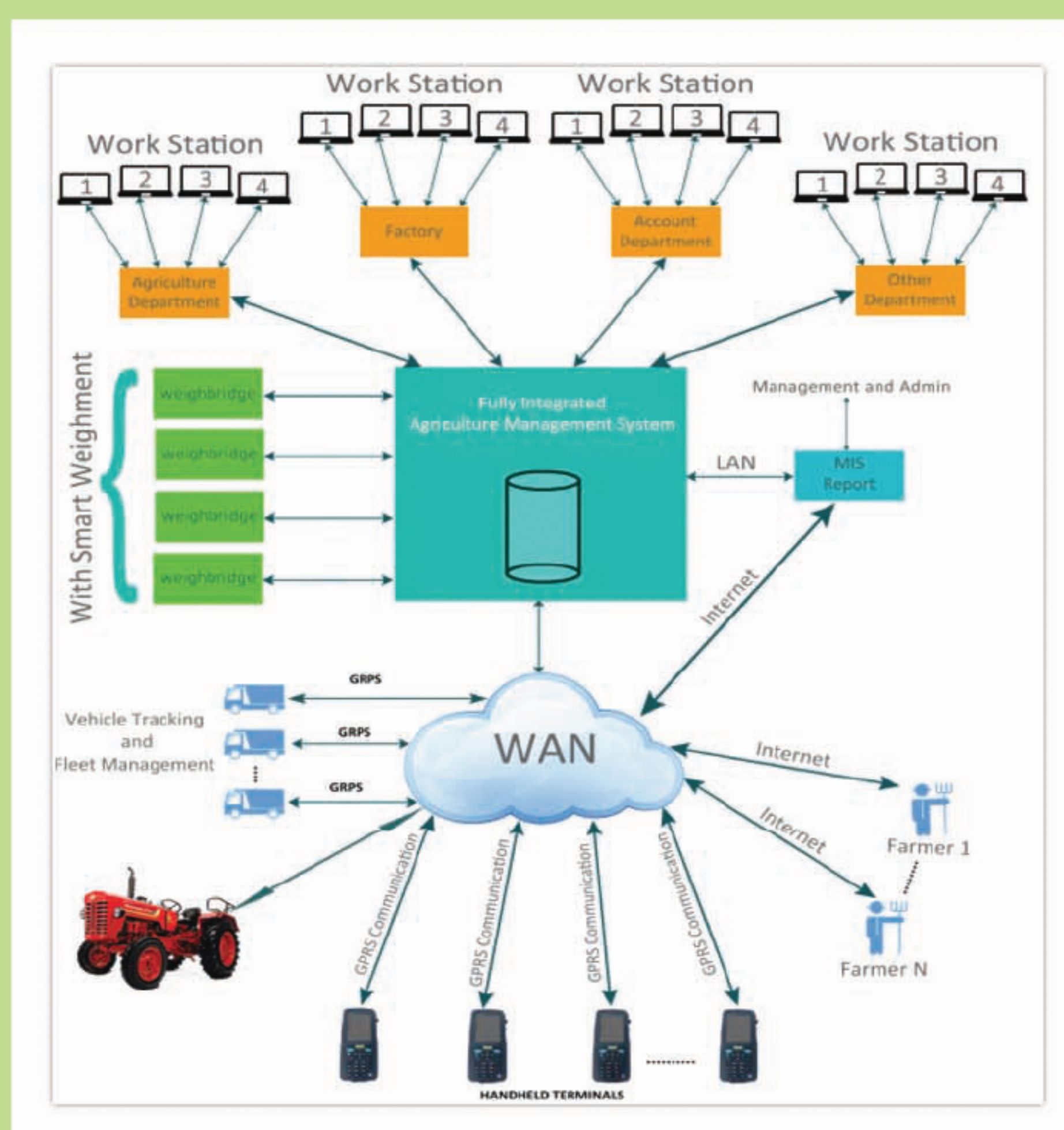
Amity Software was founded with a focus to provide technology-driven solutions in line with industry best practices. Pioneers in providing Software & Smart Card technology-based products and solutions, Amity's solutions are tailored to meet the specific requirements and in use across a wide range of industries including Sugar, Steel, Cement Agriculture, Insurance, Retail, Health, etc.

We are SAP implementation partners for US, India and East Africa. Our expertise and experience are specially geared for the end-to-end execution of projects, from Conceptualization, Design, Solution Architecture, Process Re-engineering, Development, through till Installation, Testing and Commissioning. Our project execution methodology is backed by matured processes and secured work methods, as is evidenced in our CMMI Level 5, ISO 27001 and ISO 20000 certifications.

At the leading edge of System Integration Technologies, our success hinges on our unparalleled domain expertise spanning diverse industry verticals, in each of which we have designed and implemented path-breaking, first-of-their-kind, mission-critical solutions. Amity enjoys a reputation for developing innovative turnkey customized solutions, delivered on time and within budget. Testimony to this lies in close to 100% of our customers, from across user segments, industry verticals and geographies, entrusting us with ongoing and repeat business.

Our Clients (Sugar Industry)

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|-------------------------------------|-------------------------------------|--|--------------------------------|
| ■ Kwale Sugar (Kenya) | ■ Mumias Sugar (Kenya) | ■ Nzola Sugar (Kenya) | ■ SONY Sugar (Kenya) |
| ■ Sukari Sugar (Kenya) | ■ Transmara Sugar (Kenya) | ■ West Kenya Sugar (Kenya) | ■ Kabuye Sugar (Rwanda) |
| ■ Kakira Sugar (Uganda) | ■ Eastern Sugar (Nepal) | ■ Everest Sugar (Nepal) | ■ Himalaya Sugar (Nepal) |
| ■ Mahalaxmi Sugar (Nepal) | ■ Sriram Sugar (Nepal) | ■ Aira (U.P.) | ■ Bajaj Group (12 Mills) |
| ■ Birla Group (6 Mills) | ■ Captainganj (U.P.) | ■ Cooperative Factory, Gujarat (6 Mills) | ■ Dalmia Group (4 Mills) |
| ■ Daurala (U.P.) | ■ Daya Sugar (U.P.) | ■ DCM Shriram Industries (3 Mills) | ■ Deorahi (U.P.) |
| ■ Dwariakesh Sugar (U.P. - 3 Mills) | ■ Gopalganj (Bihar) | ■ Gurdaspur (Punjab) | ■ Harinagar (Bihar) |
| ■ HPCL Biofuels Ltd. (2 Mills) | ■ Indian Potash Ltd (5 Mills) | ■ Kareli Sugar (M.P.) | ■ Karnal Cooperative (Haryana) |
| ■ KM Sugar (U.P.) | ■ Nahar Sugar (Punjab) | ■ Naraingarh (Haryana) | ■ Piccadilly Sugar (Punjab) |
| ■ Renusagar (U.P. - 3 Mills) | ■ Riga (Bihar) | ■ Sasamusa Sugar (Bihar) | ■ Simbhaoli (3 Mills) |
| ■ Swaraj Agro (Maharashtra) | ■ Tikola (U.P.) | ■ Triveni Group (7 Mills) | ■ Uttam Group (4 Mills) |
| ■ Vanshika Sugar (M.P.) | ■ Yadu Sugar Group, Bihar (2 Mills) | ■ Yamunanagar (Haryana) | |



Our Offices



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