



Supply Chain Management System for Agricultural Products with Transportation Tracking (Current System)

Rich Picture Explanation

1. Farmer <-> Warehouse Employees

- Farmer -> Warehouse Employees: Farmers physically deliver harvested crops to warehouse employees.
- Warehouse Employees -> Farmer: Warehouse employees check crop condition and weight, then manually fill in entry logs or basic Excel sheets for internal tracking.

2. Warehouse Employees <-> Warehouse

- Warehouse Employees -> Warehouse: Warehouse employees place the received goods into storage manually and document the storage status (e.g., shelf number, crop type) in paper records or Excel files.
- Warehouse -> Warehouse Employees: The warehouse infrastructure provides the employees with physical storage facilities, and conditions (like shelves, cold storage) are checked manually by staff.

3. Warehouse Employees <-> Manual Records

- Warehouse Employees -> Manual Records: Warehouse workers record delivery details (crop type, date, supplier name, quantity, and condition) in paper logs or spreadsheets.
- Manual Records -> Warehouse Employees: These records are referred to during re-checks or when informing other roles.

4. Warehouse Employees <-> Warehouse Manager

- Warehouse Employees -> Warehouse Manager: Staff report stock levels and issues to the warehouse manager via verbal updates or simple logbooks.
- Warehouse Manager -> Warehouse Employees: The manager gives daily work instructions, manually assigns tasks, and signs off shipment readiness.

5. Warehouse Manager <-> Manager

- Warehouse Manager -> Manager: The warehouse manager sends compiled reports manually (in paper or email) summarizing stock levels, incoming produce, and shipment status.
- Manager -> Warehouse Manager: The manager responds with high-level directives or confirms dispatch instructions based on these manual summaries.

6. Warehouse Manager <-> Mobile Phone

- Warehouse Manager -> Mobile Phone: When a shipment is ready, the manager uses a phone to contact the transport manager or truck driver to coordinate delivery.
- Mobile Phone -> Warehouse Manager: The phone acts as a medium to receive updates about vehicle arrival, delays, or urgent instructions.

7. Manager <-> Truck Driver

- Manager -> Truck Driver: The manager communicates directly via mobile call or SMS with the truck driver, assigning destinations and time windows.
- Truck Driver -> Manager: Drivers report back via phone with delivery confirmations or issue alerts if delays arise.

8. Mobile Phone <-> Truck Driver

- Warehouse Manager / Employees -> Truck Driver (via Phone): Shipment details, destination addresses, and timing are communicated through phone calls or messages.
- Truck Driver -> Warehouse Manager: The driver confirms pick-up or notifies delays using the same method.

9. Mobile Phone <-> Customer

- Warehouse or Transport Staff -> Customer (via Phone): Customers receive delivery updates, estimated time of arrival, or are contacted to confirm address or timing.
- Customer -> Warehouse / Driver: Customers may call back to reschedule or confirm availability.

10. Manual Documentation <-> Customer

- Warehouse Employees -> Manual Documentation: All shipment information (e.g., product invoice, delivery form) is written or printed and sent with the driver.
- Manual Documentation -> Customer: The customer receives physical proof of delivery and signs on paper for acknowledgment.

11. Truck Driver <-> Customer

- Truck Driver -> Customer: Driver delivers goods and collects physical signature from customer.
- Customer -> Truck Driver: Customer confirms delivery completion and gives manual feedback if necessary.