

SIPOC ANALYSIS

The SIPOC analysis outlines the key elements of the real-time supply chain visibility project. It helps to identify who the suppliers and customers are, what inputs are needed to execute the project, and the processes involved in delivering outputs that benefit both internal and external customers.

****1. Supplier (S):**

- **Internal Suppliers:**

- IT Department (providing technical infrastructure and integration support)
- Business Analysts (gathering requirements and defining business processes)
- Project Management Office (overseeing project timelines and budget)

- **External Suppliers:**

- Suppliers and Carriers (providing shipment data and inventory information)
- Platform Vendor (providing the real-time visibility software and support)
- Regulatory Authorities (supplying compliance standards)

****2. Inputs (I):**

- **From Internal Suppliers:**

- Current shipment and inventory data (from legacy systems)
- Business requirements and functional specifications
- Project management documentation (timelines, milestones)

- **From External Suppliers:**

- Real-time shipment updates from carriers
- Purchase order and inventory data from suppliers
- API or EDI documentation for system integration
- Compliance standards (data security, privacy requirements)

****3. Process (P):**

1. Gather business requirements from all stakeholders.

2. Analyze current supply chain processes and identify inefficiencies.
3. Design and configure the real-time supply chain visibility platform.
4. Integrate the platform with internal systems (ERP, WMS) and external systems (suppliers, carriers).
5. Test the platform for data accuracy, real-time updates, and performance.
6. Provide training to users on how to operate the new system.
7. Deploy the platform and monitor performance, ensuring real-time visibility.
8. Continuously improve and optimize the system based on user feedback and performance metrics.

****4. Outputs (O):**

- Automated, real-time updates of shipment and inventory data.
- Proactive alerts and notifications for delays, stockouts, and other supply chain exceptions.

- Real-time dashboards and analytics for supply chain performance.
- Improved coordination between internal teams, suppliers, and carriers.
- Enhanced decision-making based on accurate, real-time data.

****5. Customers (C):**

- **Internal Customers:**

- Supply Chain Management Team (using real-time data for decision-making)
- Warehouse Managers (managing inventory efficiently)
- Sales and Customer Service Teams (providing accurate delivery information to customers)
- Finance Team (using data for cost optimization)

- **External Customers:**

- End Customers (receiving timely and accurate delivery information)

- Suppliers and Carriers (collaborating through integrated systems for smoother operations)
- Regulatory Authorities (receiving compliance reports)