

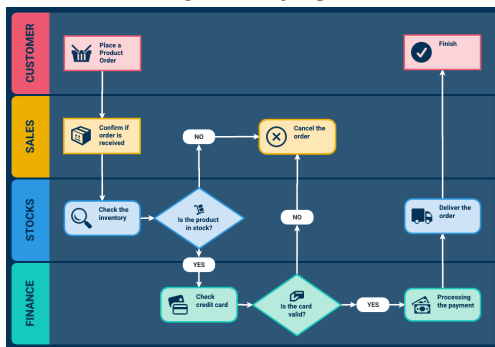
Process Mapping

Process mapping is a visual representation of the steps involved in a particular process. It provides a clear and concise overview of the sequence of activities, decision points, and information flows.

Types of Process Maps

- **Swimlane Maps:** visually depict the roles and responsibilities of departments or individuals. Each role is represented by a separate "swim lane."
- **Flowcharts:** These maps use symbols to represent different activities and decision points within a process.
- **Spaghetti Diagrams:** As we discussed earlier, these diagrams map the actual physical movement of people or materials within a process.
- **Value Stream Mapping:** provides a visual representation of the steps through product lifecycle

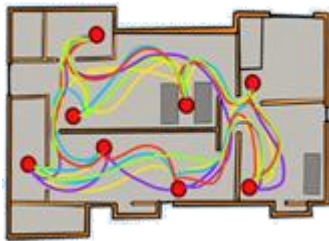
Swim Lane



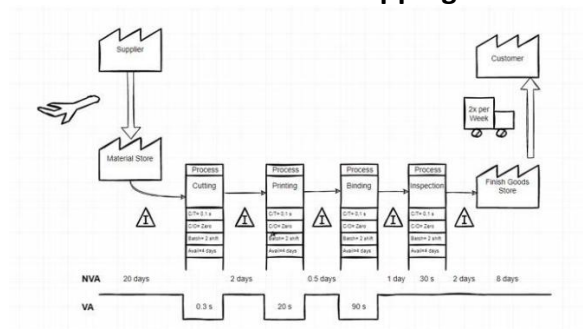
Flow Chart

Symbol	Name
	Start/end
	Arrows
	Input/Output
	Process
	Decision

Spaghetti Diagram



Value Stream Mapping



Benefits of Process Mapping:

- **Improved Understanding:** Provides a clear and concise overview of the process.
- **Identification of Bottlenecks:** Helps to identify areas of delay and inefficiency within the process.
- **Communication:** Facilitates communication and understanding of the process among team members.
- **Root Cause Analysis:** Supports root cause analysis by providing a visual representation of the process.
- **Continuous Improvement:** Enables the identification of opportunities for improvement and the development of action plans.

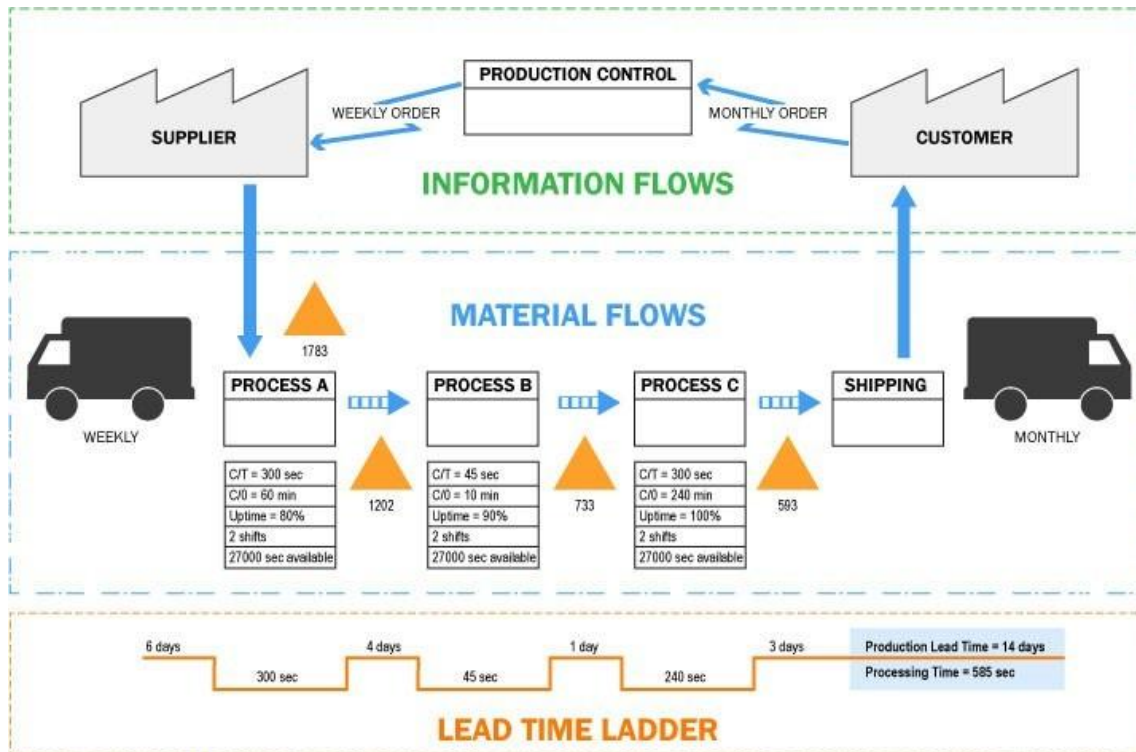
Process Mapping

Value Stream Mapping

Visualizing and Improving Processes

Value Stream Mapping (VSM)

Value Stream Mapping is a powerful Lean tool that provides a visual representation of the steps involved in bringing a product or service from its inception to delivery to the customer. It helps identify areas of waste and inefficiency within the process, allowing for targeted improvement efforts.



Key Components of a Value Stream Map:

- **Customer:** The end user of the product or service.
- **Product Family:** The specific product or service being analyzed.
- **Process Flow:** A detailed depiction of all the steps involved in the process, including both value-added and non-value-added activities.
- **Information Flow:** Shows how information flows between different steps in the process.
- **Inventory:** Visualizes the amount of inventory held at different stages of the process.
- **Lead Time:** Indicates the time it takes to complete the entire process.
- **Cycle Time:** Represents the time it takes to complete a single unit of work.

Benefits of Value Stream Mapping:

- *Improved Process Understanding:* Provides a clear and concise overview of the entire process.
- *Waste Identification:* Helps identify areas of waste, such as waiting time, transportation, and overproduction.
- *Continuous Improvement:* Facilitates the development of improvement plans and the implementation of countermeasures.
- *Enhanced Communication:* Provides a common language and understanding of the process for all stakeholders.

Process Mapping

SIPOC Analysis

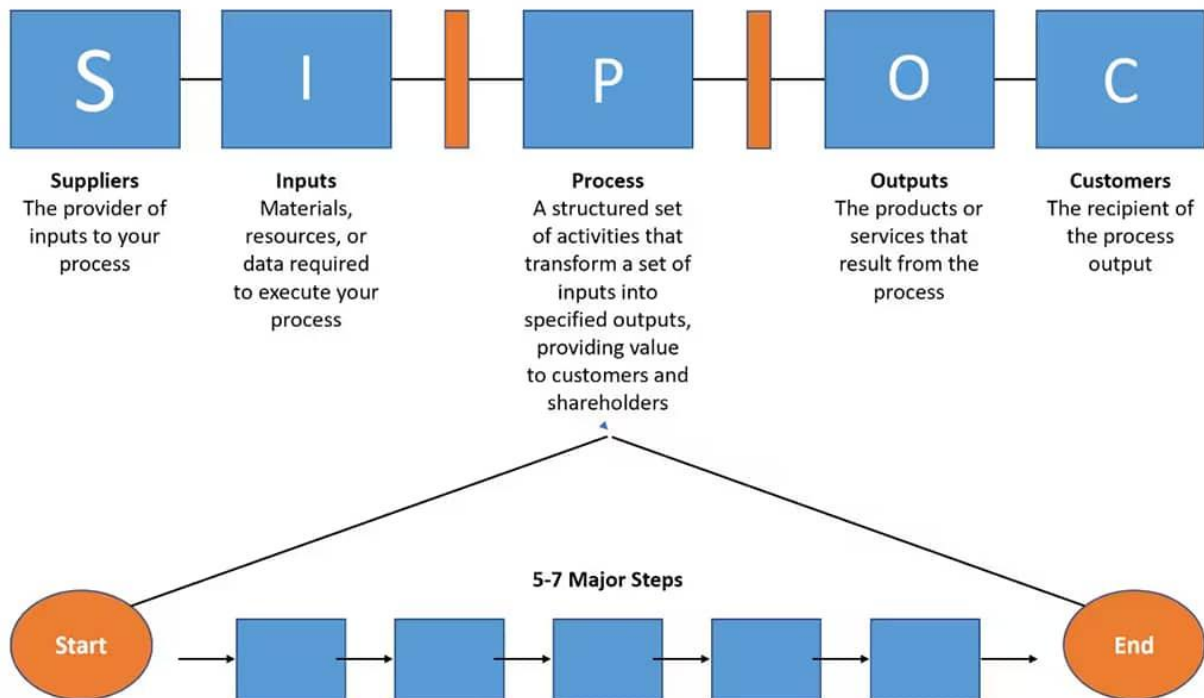


SIPOC is a high-level process mapping tool that provides a broad overview of a process by identifying its key elements:

- **Suppliers:** The entities that provide inputs to the process.
- **Inputs:** The materials, information, and resources required to carry out the process.
- **Process:** A brief description of the main activities involved in the process.
- **Outputs:** The products or services produced by the process.
- **Customers:** The recipients of the outputs.

Combining VSM and SIPOC

SIPOC analysis can be used as a starting point for creating a Value Stream Map. By identifying the key inputs, outputs, and stakeholders, you can gain a better understanding of the process and its interactions with the environment.



Benefits of SIPOC Analysis:

- *Process Definition:* Clearly defines the scope and boundaries of a process.
- *Stakeholder Identification:* Helps to identify all the key stakeholders involved in the process.
- *Risk Assessment:* Enables the identification of potential risks and issues associated with the process.
- *Communication Tool:* Provides a common understanding of the process for all stakeholders.