

What is Value Stream Mapping?

Value Stream Mapping (VSM) is a Lean management method used to visualize, analyze, and improve the flow of materials and information required to deliver a product or service to a customer. It helps identify waste, bottlenecks, and opportunities for streamlining operations.

Purpose of VSM

- **Visualize the current process** from start to finish
 - **Identify non-value-added activities (waste)**
 - **Improve flow** and increase efficiency
 - **Create alignment** across teams and departments
 - **Prioritize impactful changes**
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Key Components






- **Customer Requirements:** What the end-user expects
 - **Process Steps:** All actions (value-adding and non-value-adding) taken to deliver the product or service
 - **Material Flow:** Movement of physical goods
 - **Information Flow:** How data, instructions, and communications travel
 - **Timeline & Lead Time:** Total process time and breakdown of value-added vs. non-value-added time
 - **People & Resources:** Who performs what task and with what tools
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Steps to Create a VSM

1. **Define the scope** – Choose the product or process to map
2. **Map the current state** – Record all steps as they exist today
3. **Identify waste** – Look for delays, overproduction, handoffs, rework, etc.
4. **Design the future state** – Envision a more efficient, streamlined process

5. **Develop an action plan** – Assign tasks, timelines, and metrics for improvement

Common VSM Symbols

Symbol	Meaning
 Process Box	A step or activity in the process
 Arrow	Flow of material or information
 Clock	Cycle time or lead time
 Data Box	Process metrics (e.g., uptime, # of operators)
 Inventory	Accumulated stock or delay

Benefits of VSM

- Clear view of end-to-end operations
 - Improved cross-functional communication
 - Reduced lead times and increased throughput
 - Better resource allocation
 - Foundation for continuous improvement
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When to Use It

- Starting a Lean transformation
- Experiencing delays or inefficiencies
- Scaling operations
- Launching a new product/service
- Improving customer experience

Generic Fulfillment Value Stream Map

