



Row Row Row Your Boat Down the Value Stream



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What is a Value Stream

Sequence of steps or activities that an organization uses to deliver a product or service to its customers

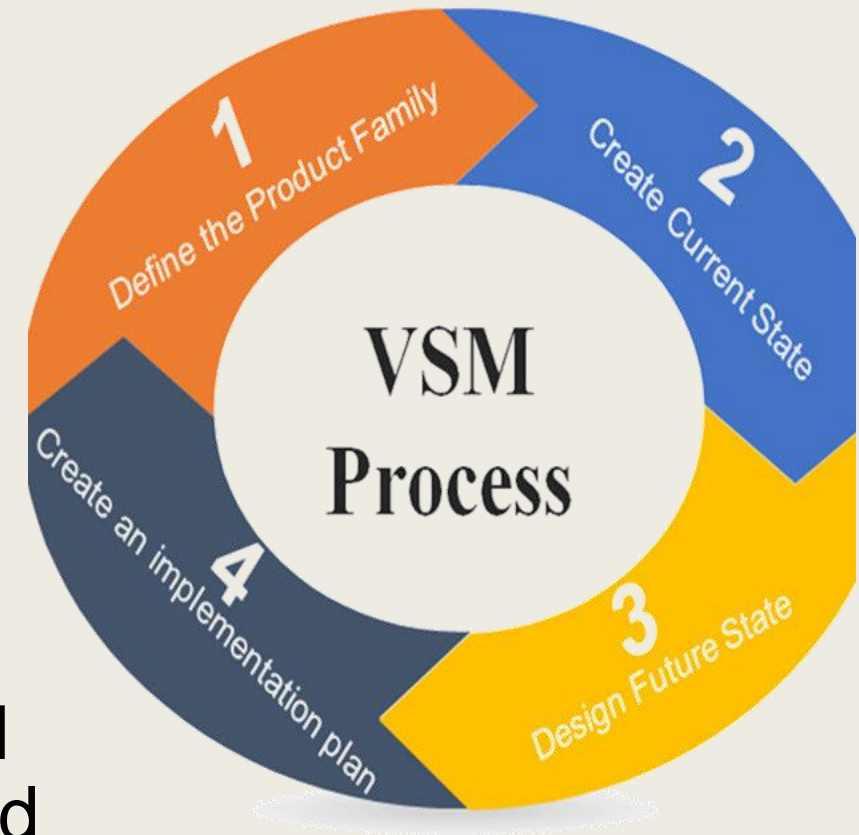
Processes

People

Resources

Creating and delivering a product or service,
from the initial concept
to the final delivery to the customer

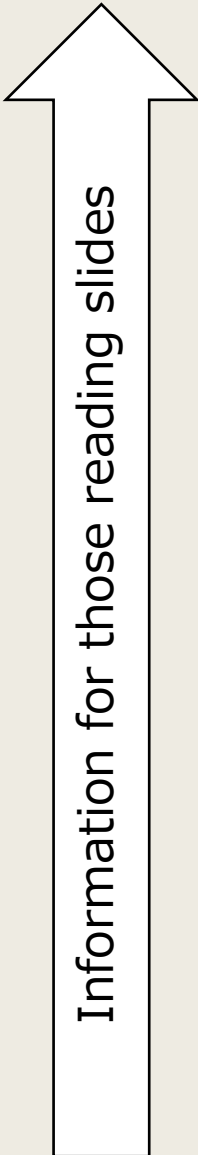
Identify areas where waste can be eliminated and value can be added, resulting in increased efficiency and higher customer satisfaction.



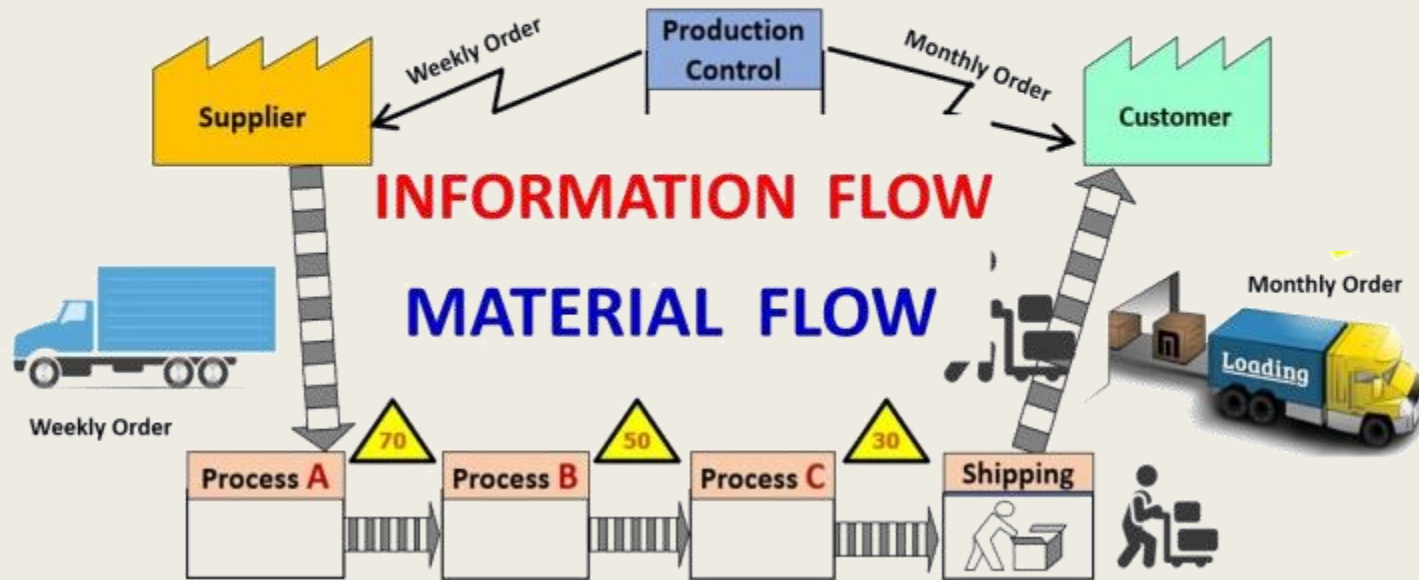
A brief history of value stream mapping



- Value stream mapping has been around for quite a while even though it's only recently being adopted by a lot of industries.
- A minor tool known within Toyota as “Material and Information Flow” mapping. But, earlier versions of this tool have been seen in the 1918 book, Installing Efficiency Methods.
- As the [Lean principles](#) spread to manufacturing industries in America, so did value stream mapping. Its popularity grew to other industries like software development, IT operations, and even marketing. The 1990 book, The Machine That Changed the World” written by James Womack, Daniel Jones, and Daniel Roos, first introduced the term “value stream”.
- The value stream was the sequence of activities an organization undertakes to deliver on a customer request.
- Value stream mapping is associated with both Lean and Six Sigma methodologies as they emphasize on the elimination of wastes.

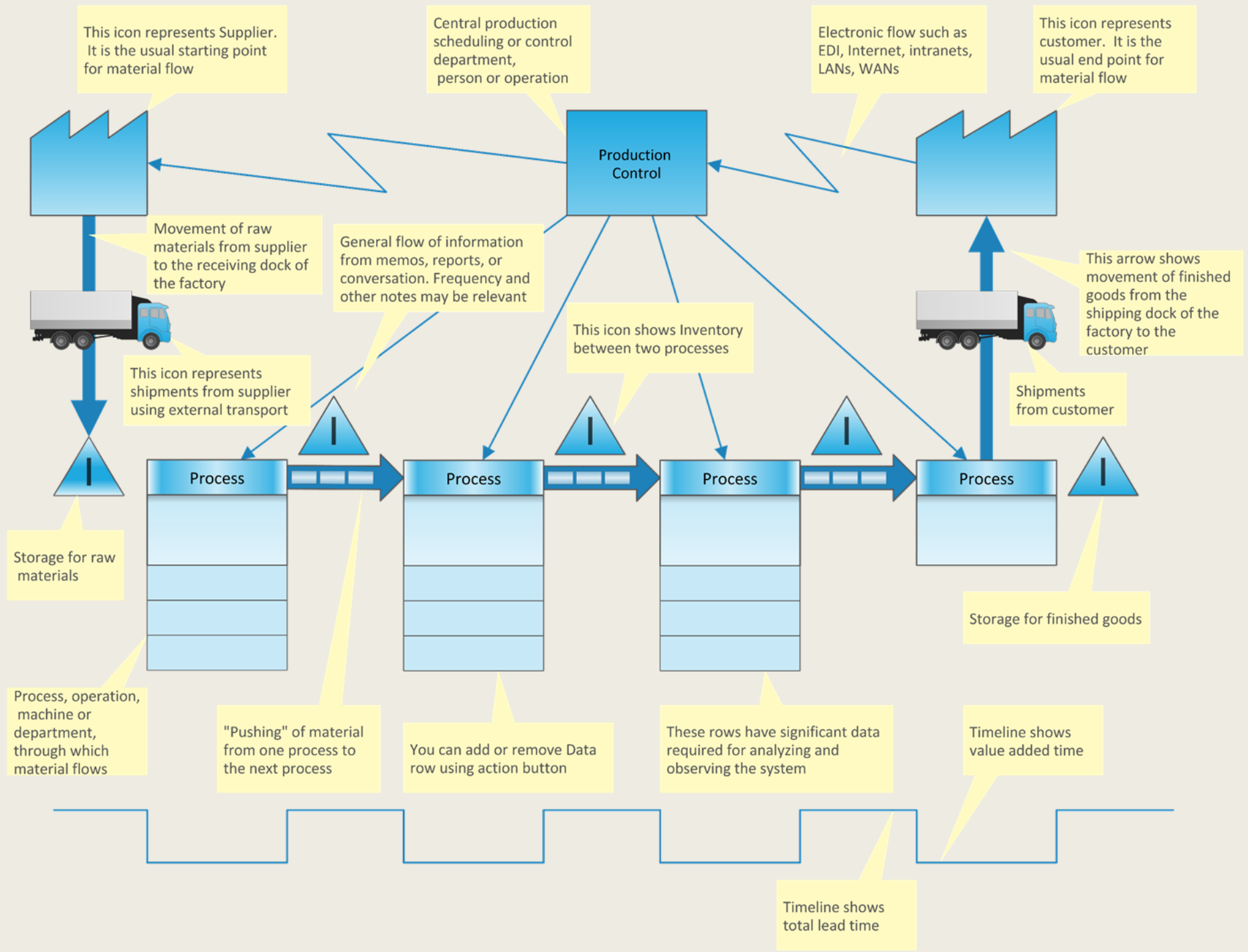


Value Stream Mapping



- **Value stream map** is a visual tool that displays all critical steps in a specific process and quantifies easily the time and volume taken at each stage.
- **Value stream maps** show the flow of both materials and information as they progress through the process.

Value Stream Map Template



PMI DAVSC Three Types of Value Stream



Development

- The process an organization uses to develop a product or service.



Operational

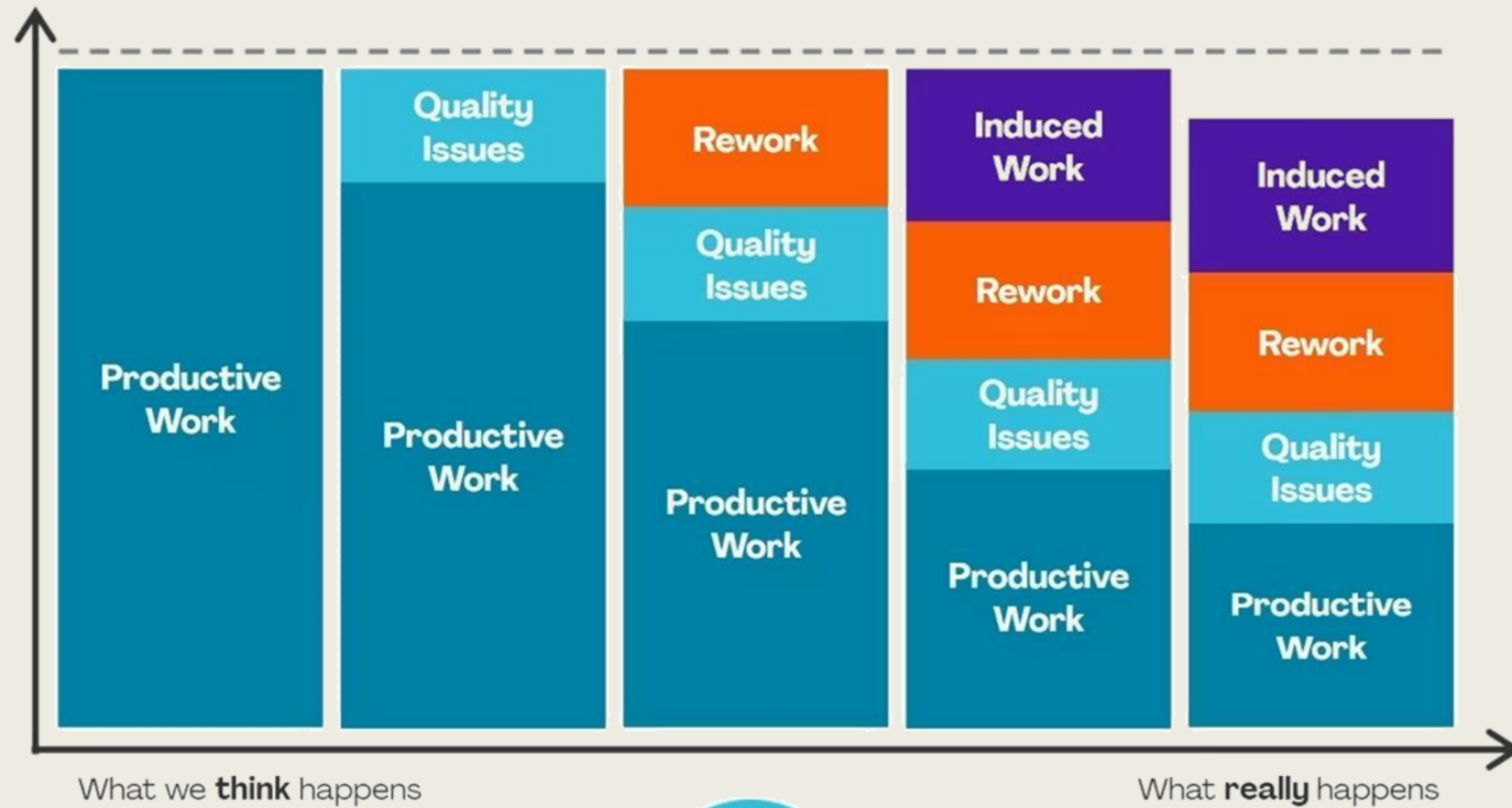
- The process by which an organization directs product usage or service delivery.



Support

- Supports the work of the other value streams.
- This often includes one-time operations that go away once they've set up a development stream or operational value stream – activities like ordering equipment, hiring people, entering data, or updating database?

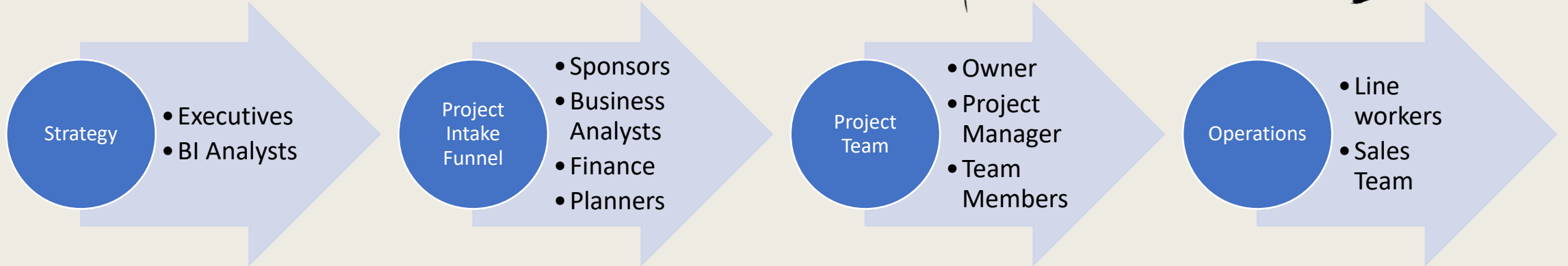
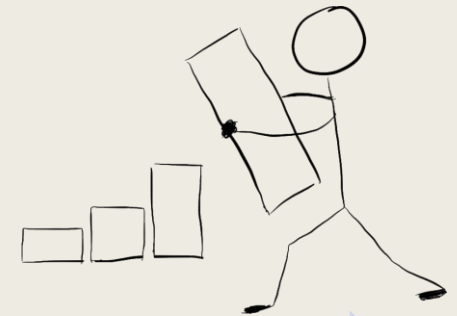
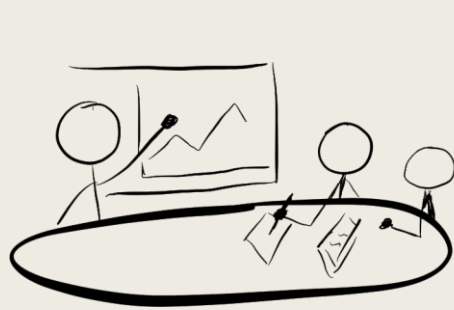
Realities of Delay



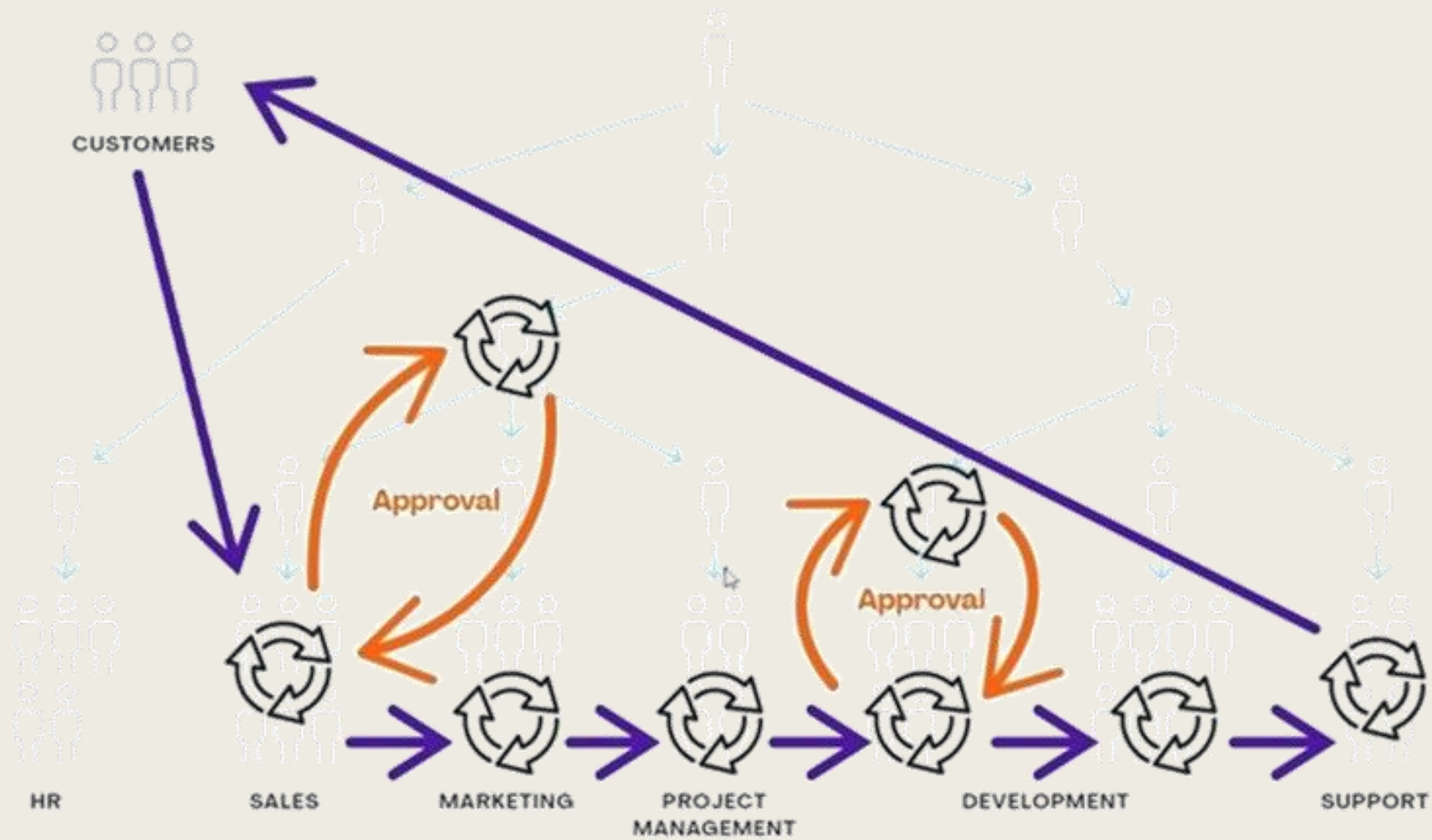
Thoughts

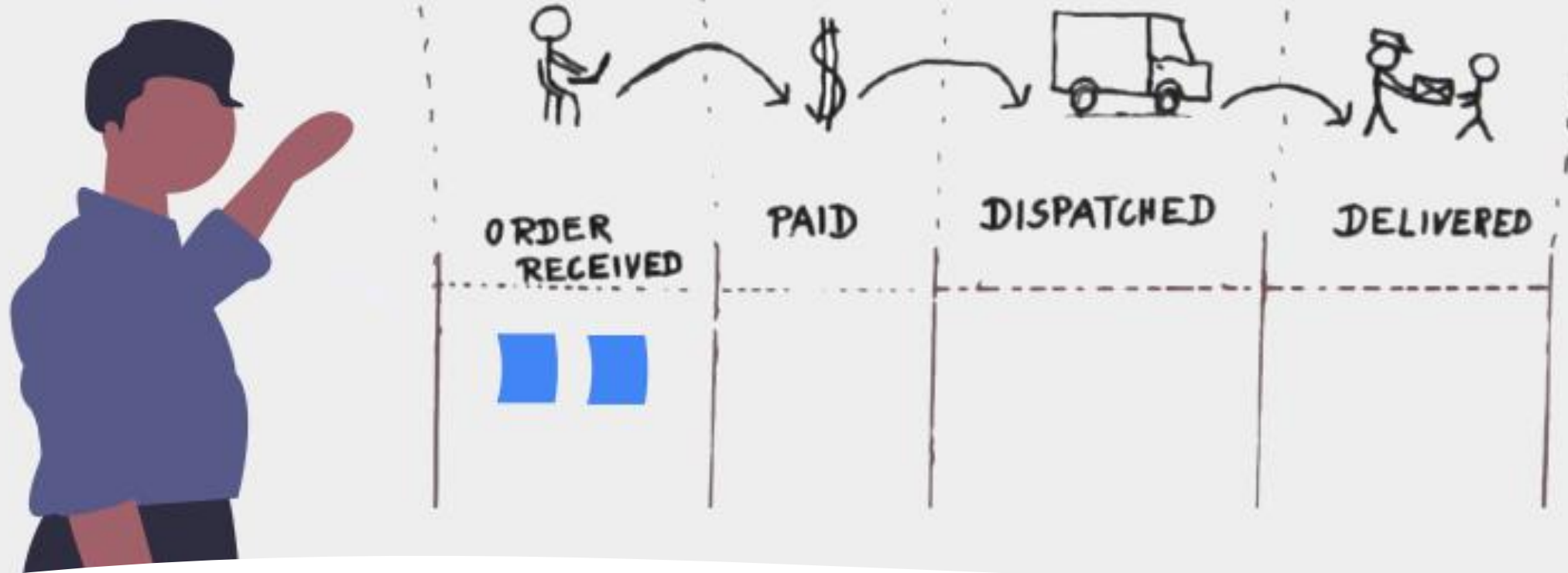
- Instead of controlling the people or the work.

- We should focus on the flow of the work. (Value)



Flow





By visualizing and understanding the value stream components, teams can identify inefficiencies, bottlenecks, and areas for improvement, resulting in better quality products, more efficient processes, and higher customer satisfaction.



Visualize a Value Stream

There are several ways to visualize a value stream depending on the needs of the organization and the audience. Here are some of the best ways to visualize a value stream:

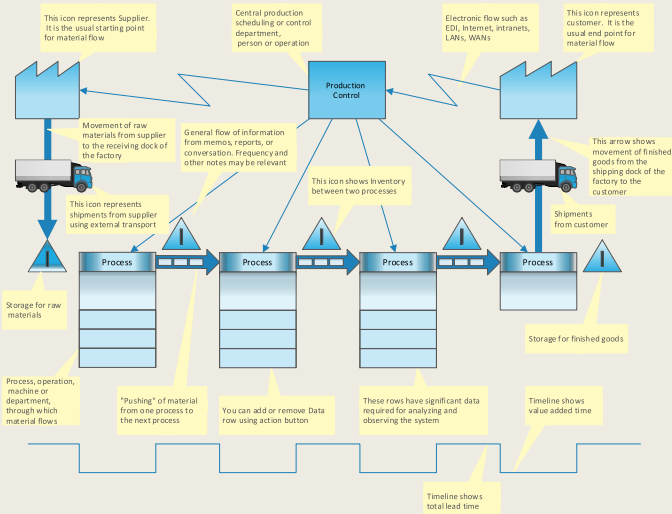
The choice of visualization method will depend on the specific needs of the organization and the complexity of the value stream. It's important to choose a method that is easy to understand and communicates the information effectively

Value Stream Map	A value stream map is a visual representation of the steps in the value stream, including information on process time, lead time, inventory, and other metrics. It is a powerful tool for identifying waste and inefficiencies in the process.
Swimlane Diagram	A swimlane diagram is a flowchart that shows the interactions between different departments or teams involved in the value stream. It is useful for identifying handoffs and delays between teams.
Kanban Board	A Kanban board is a visual management tool that shows the workflow of the value stream in a simple and easy-to-understand way. It is useful for tracking progress and identifying bottlenecks.
Gantt Chart	A Gantt chart is a timeline visualization that shows the tasks and dependencies involved in the value stream. It is useful for planning and scheduling tasks.
Process Flow Diagram	A process flow diagram is a simple visual representation of the steps in the value stream, using symbols and arrows to show the flow of work. It is useful for communicating the overall process flow to a wide audience.



And yes

Let's Bring the Workstream into the Project



Aligning Project Work Packages to a Value Stream

Strategic Alignment

Value Stream Alignment

Process Alignment

Epic / User Story Alignment

Work package / task alignment



Repacking PM / Value Stream stuff

Epics as Value Streams

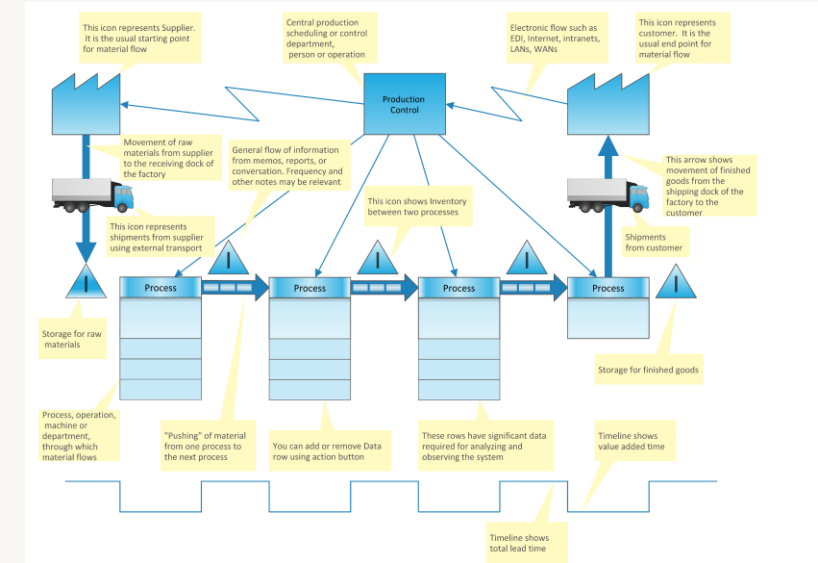
Project Outcomes mapped to process steps in
“the Value Stream”

Business Value Focus

How do outcomes and capabilities of project
impact the value stream

- *Productivity*
- *Capacity*
- *Throughput*
- *Metrics*
- *GIMBA*

Lets map work to value stream performance



IT Application Value Stream

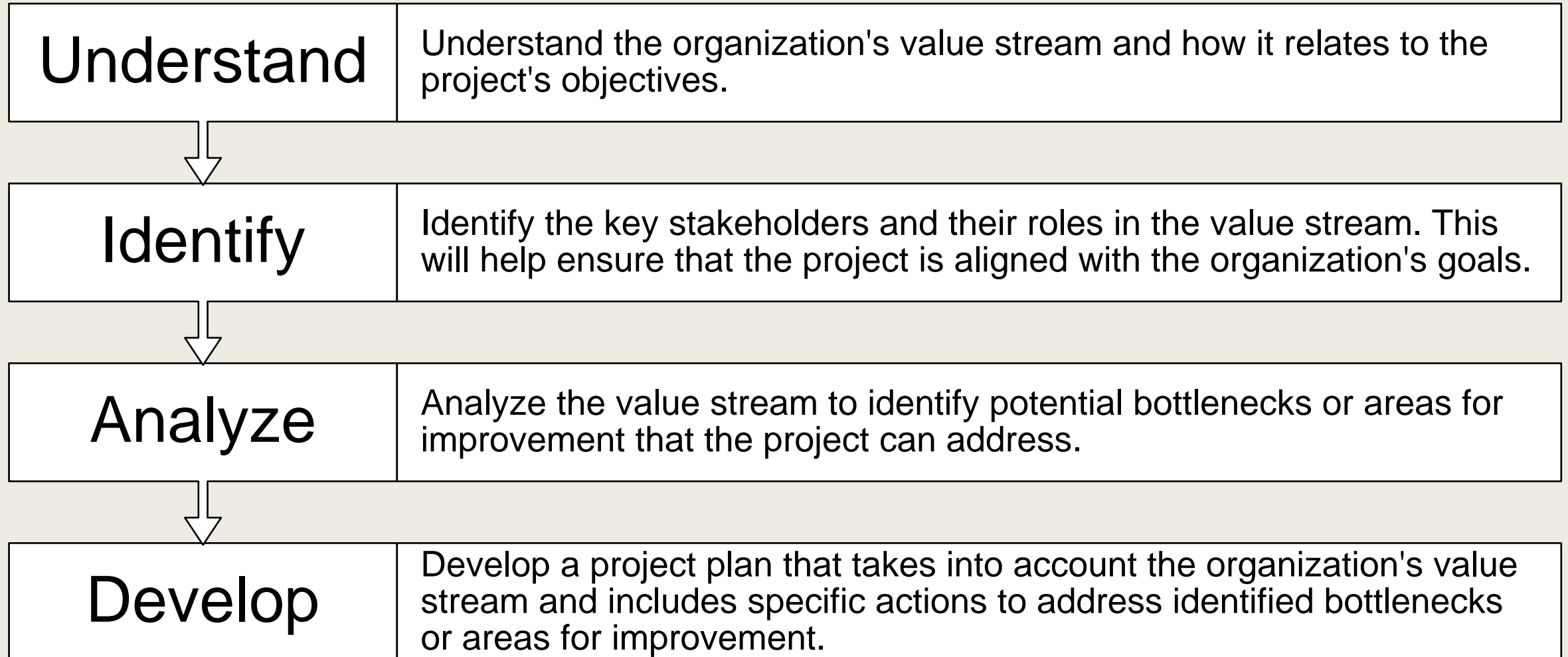


Planning and ideation	This component includes brainstorming and identifying the application's purpose, requirements, and features.
Development	This component includes designing, coding, testing, and integrating the application's functionality.
Deployment	This component includes configuring the application, deploying it to production environments, and ensuring that it works as expected.
Operations and support	This component includes maintaining the application, monitoring its performance, and providing support to end-users.
Feedback and continuous improvement	This component includes collecting feedback from end-users, analyzing it, and using it to improve the application.
Security and compliance	This component includes ensuring that the application meets security and compliance standards, such as GDPR, HIPAA, or PCI DSS.
Collaboration and communication	This component includes using collaboration tools and communicating effectively across teams to ensure that everyone is aligned and working towards the same goals

The Value Stream in Project Planning



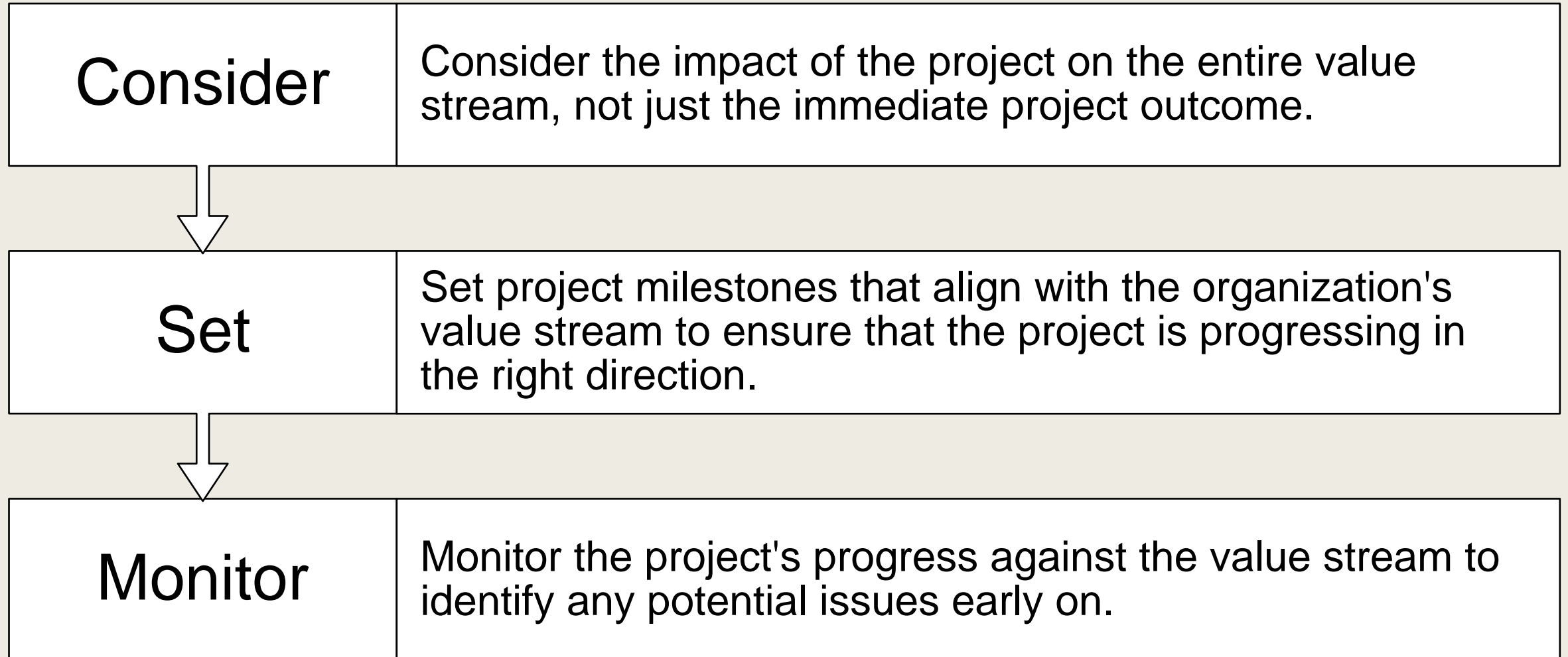
By incorporating the value stream into project planning, a project manager can ensure that the project is aligned with the organization's goals and has the greatest impact on the overall value stream.



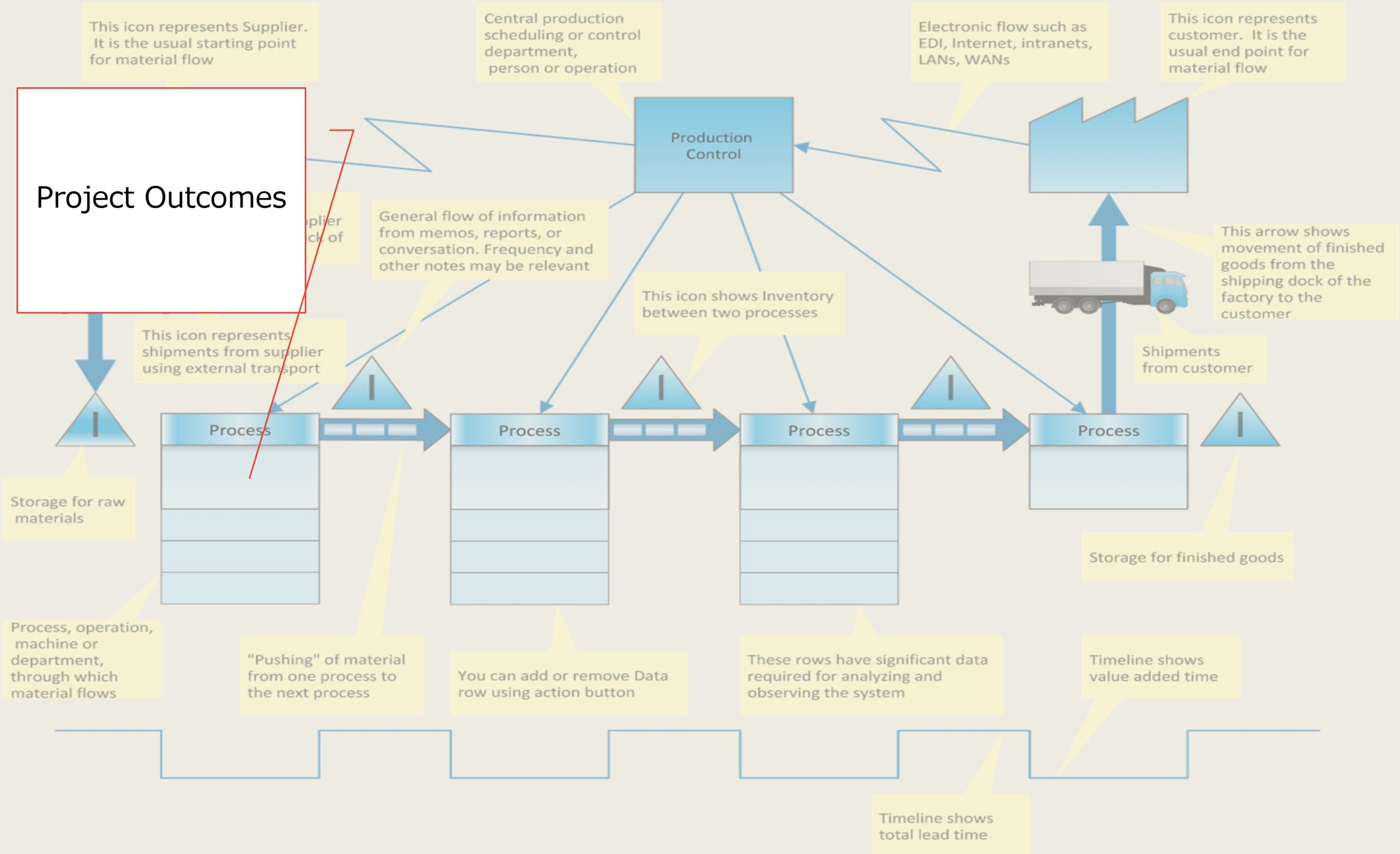
The Value Stream in Project Planning



By incorporating the value stream into project planning, a project manager can ensure that the project is aligned with the organization's goals and has the greatest impact on the overall value stream.



Project Outcomes



Value Stream Metrics



Common metrics that are often used to measure the performance of value stream components:

- Cycle Time - the time it takes for a product or service to move through a process from start to finish.
- Lead Time - the total time it takes to deliver a product or service from the moment the customer places an order until it is delivered.
- Takt Time - the pace at which a product or service must be produced or delivered in order to meet customer demand.
- Process Time - the time it takes to complete a specific task or activity within a process.
- Throughput - the number of products or services produced or delivered in a given time period.
- Yield - the percentage of products or services that meet quality standards and are accepted by customers.
- Work-In-Progress (WIP) - the number of unfinished products or services at any point in the value stream.
- Inventory - the amount of raw materials, work-in-progress, and finished goods stored in the value stream.
- Defect Rate - the percentage of products or services that fail to meet quality standards.
- Customer Satisfaction - a measure of how well the value stream is meeting customer needs and expectations.

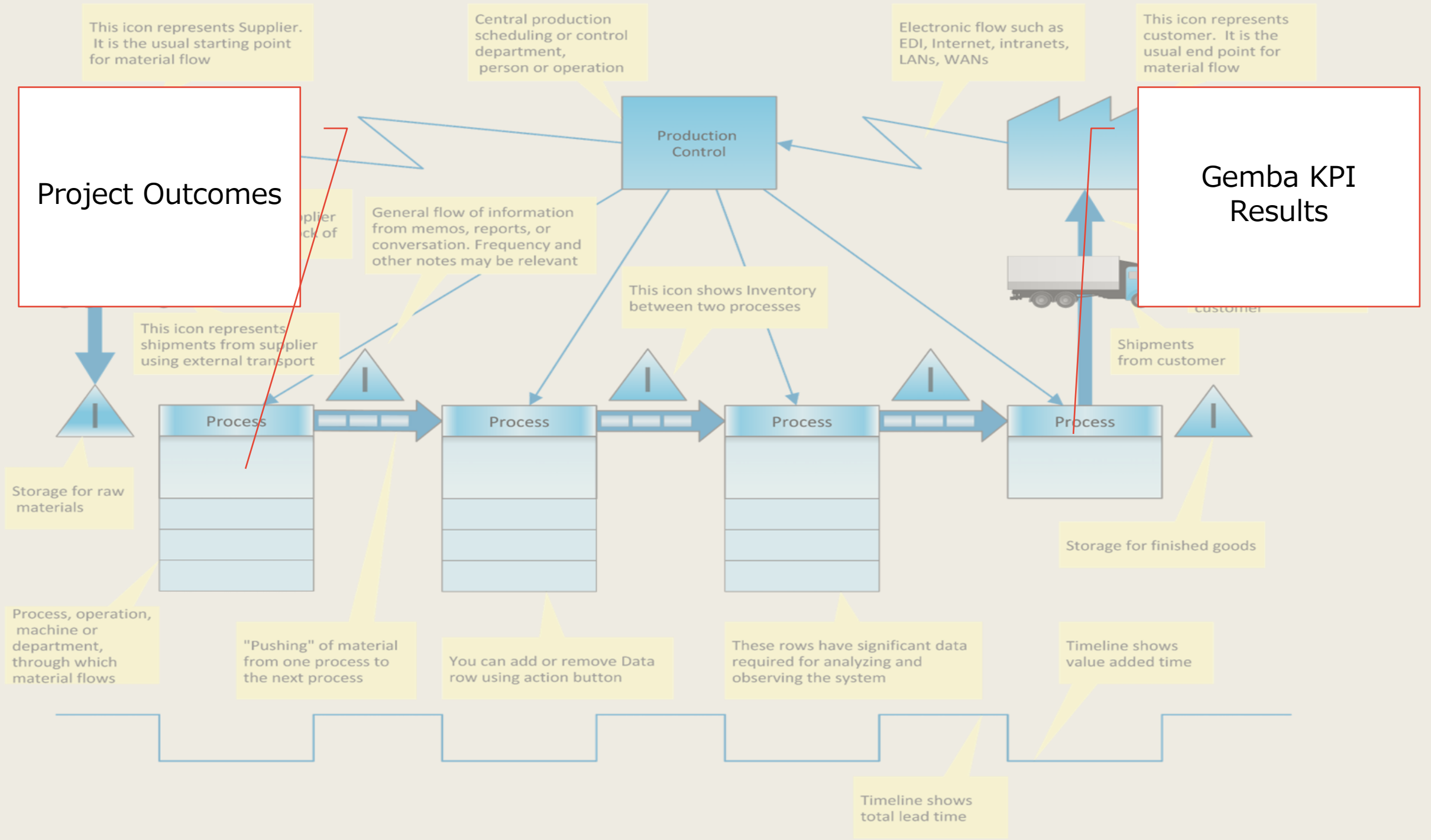
By tracking these metrics, organizations can identify areas where improvements can be made to the value stream, optimize processes, reduce waste, and increase efficiency.

What's Going On?

A Gemba Walk



- Go to “the real place” to see what is really happening.
- Listen to the story behind the data
- Break free of Cognitive Bias





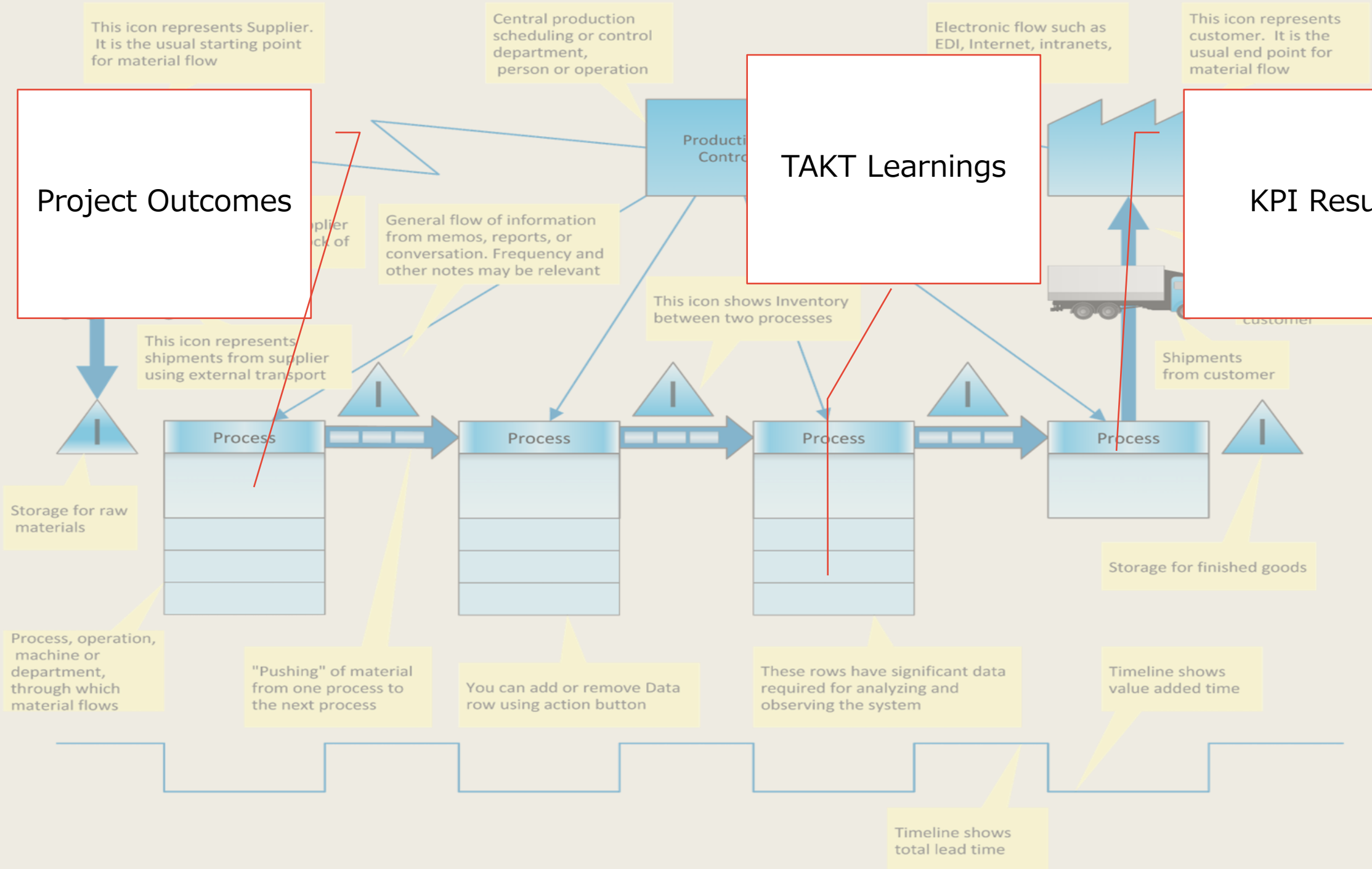
The TAKT methodology is designed to help organizations streamline their processes and reduce waste, leading to increased efficiency, higher quality outputs, and improved customer satisfaction. By following the TAKT approach, organizations can identify and eliminate waste at every step of the process, leading to continuous improvement and sustainable success

- Streamlining Processes through Waste Elimination
- TAKT is a methodology used in lean manufacturing to identify and eliminate waste in a process. It stands for:
- Transport: This involves analyzing the movement of goods or information through a process to identify any unnecessary or inefficient transportation.
- Arrange: This involves organizing the workspace to maximize efficiency and minimize waste. This can include optimizing storage locations, streamlining workflows, and reducing unnecessary movement.
- Kaizen: This refers to the continuous improvement of a process over time. It involves setting goals, gathering data, and making targeted improvements to eliminate waste and increase efficiency.
- Improvement: This involves implementing changes to a process that have been identified through the TAKT methodology. These changes may include process redesign, the introduction of new technology, or the optimization of existing workflows.

Project Outcomes

TAKT Learnings

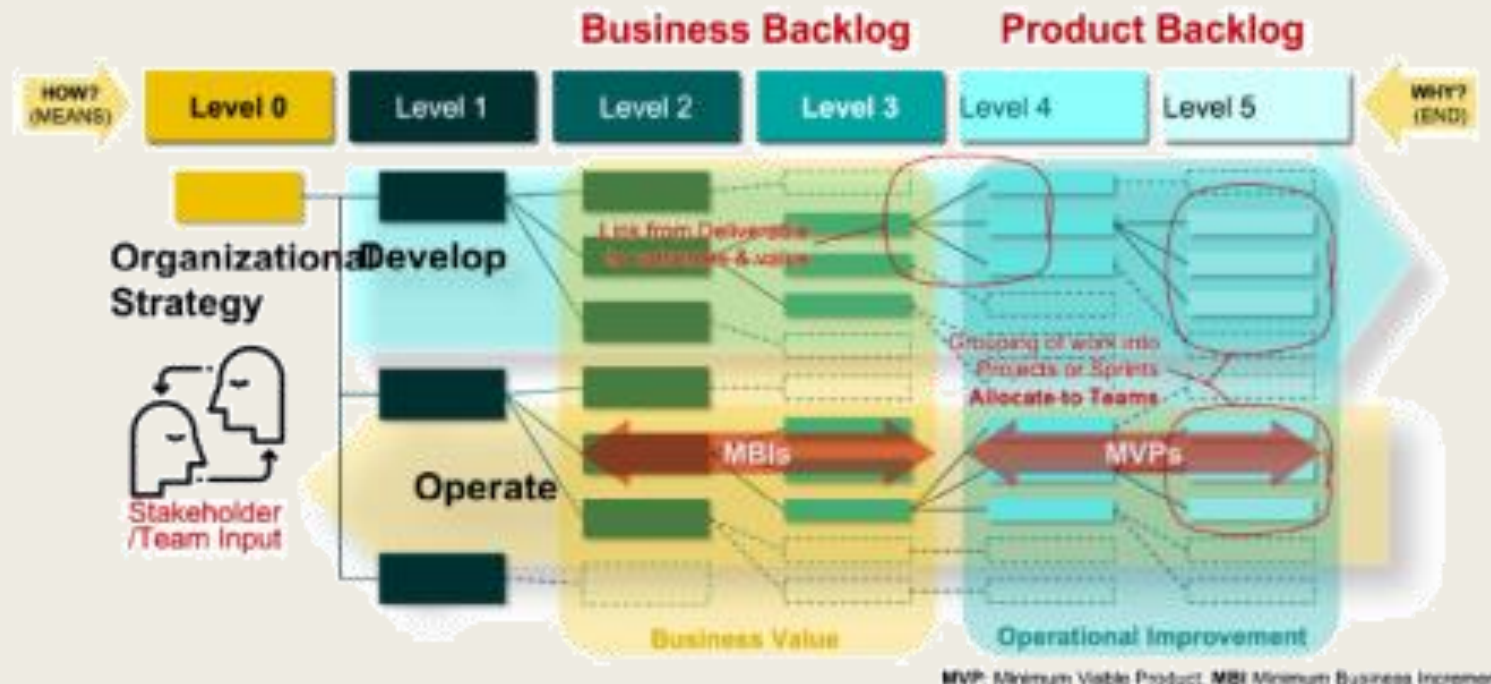
KPI Results



Benefits and the Value Stream

Chain the benefits of the project outcomes and capabilities throughout the value stream to represent exponential benefits of multiple enhancements.

Develop your Program Value Stream: Benefits Breakdown Structure

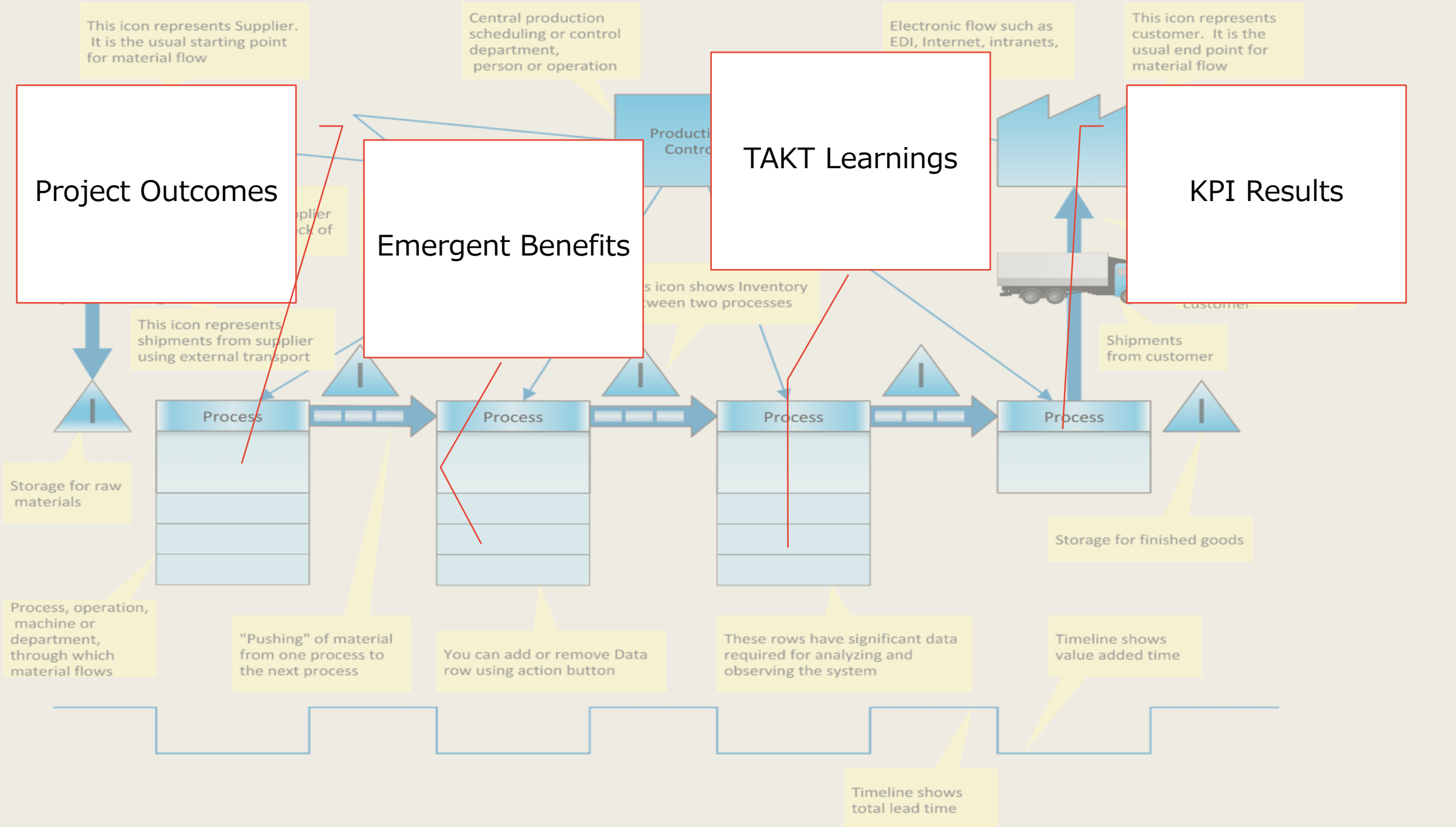


Project Outcomes

Emergent Benefits

TAKT Learnings

KPI Results



Guided Continuous Improvement



In addition, how do we achieve these?

Management's role is to facilitate creating great value streams. Must work with the teams to do so, not dictate to them, but support them.

Systems thinking is required. Systems thinking is more about the relationships between the components than the components themselves. This reflects - *Act locally, but in the global context* - DA's principle "Enterprise Awareness"

The organization the value stream is in must provide a positive influence to these factors. For example, do HR policies encourage positive actions or deter it?

Moonshine



Moonshine events are an integral part of the Toyota Production System's approach to continuous improvement, which emphasizes the importance of empowering frontline workers to identify and address inefficiencies in their work environment.

By encouraging workers to engage in informal and unauthorized process improvement activities, Moonshine events help to create a culture of continuous improvement within the organization. This culture encourages workers to take ownership of their work processes and to constantly seek out opportunities to improve those processes.

Moonshine events are designed to be small-scale and low-risk, which allows workers to experiment with new process improvements without the fear of failure or negative consequences. This fosters a sense of creativity and innovation, and encourages workers to think outside the box when developing solutions to problems.

Because Moonshine events are initiated by frontline workers, they are often able to identify and address problems that may have been overlooked by management. This can lead to improvements in efficiency, productivity, and quality that can have a significant impact on the overall success of the business.

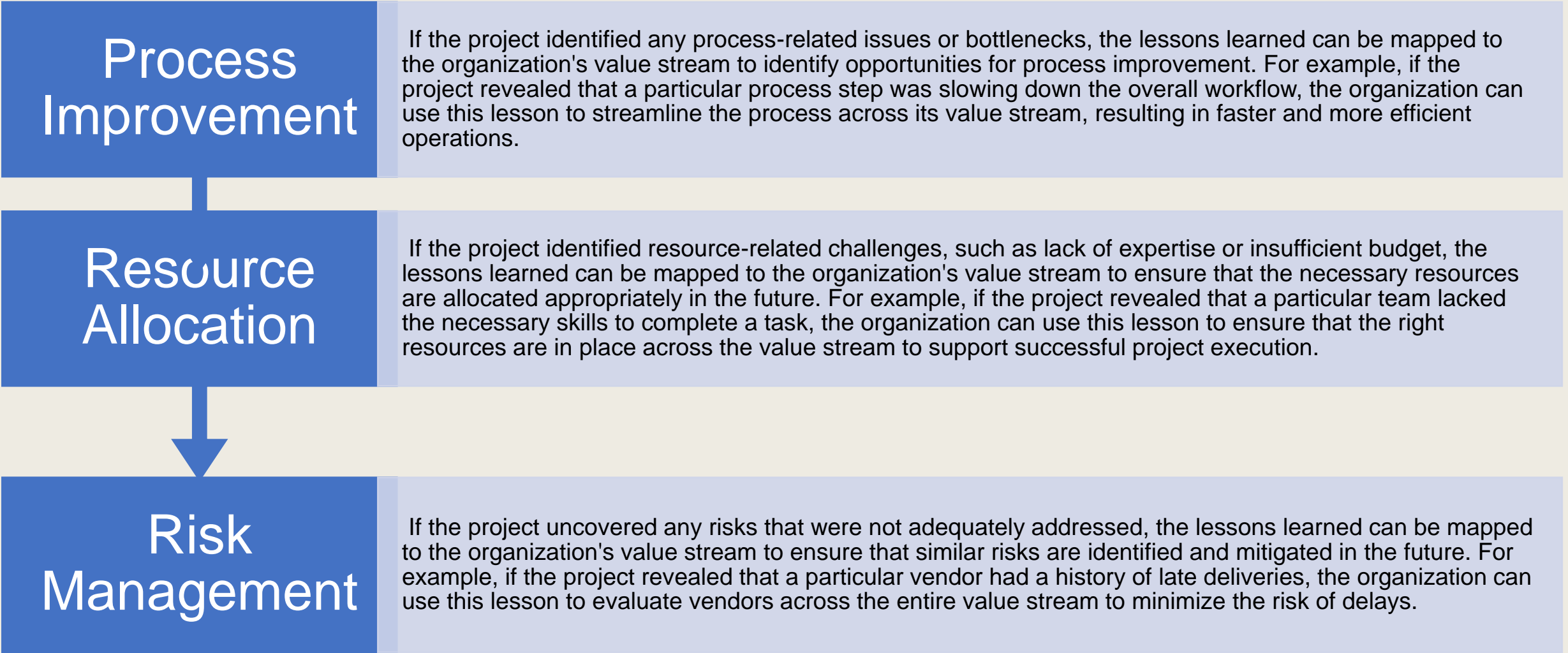
The results of Moonshine events are typically evaluated and shared with management, who can then decide whether to implement the improvements on a larger scale. This allows the organization to continuously improve its processes and to stay competitive in a rapidly changing business environment.

Finally, Moonshine events can help to create a sense of pride and ownership among workers, as they see the direct impact of their efforts on the success of the business. This can lead to increased job satisfaction and employee engagement, which can in turn drive further improvements and contribute to the long-term success of the organization.



Lessons Learned to a Value Stream

By mapping project lessons learned to the organization's value stream, the organization can leverage the knowledge gained from the project to improve its overall operations and achieve better results.



Map Lesson Learned to Action



Improvement Ideas

Effective Actions

Everybody didn't understand Objective

Didn't Know Priorities

Working multiple projects

Didn't know my function in the project

Estimates for my tasks were wrong

Visibility of work and workflow

Quality of the product

Better information from Intake Process

Team Create a Vision Box

Portfolio and product management involvement

Allocating people to make value streams efficient

Requirements / Story Backlog

Make work and workflow visible

Have supportive metrics

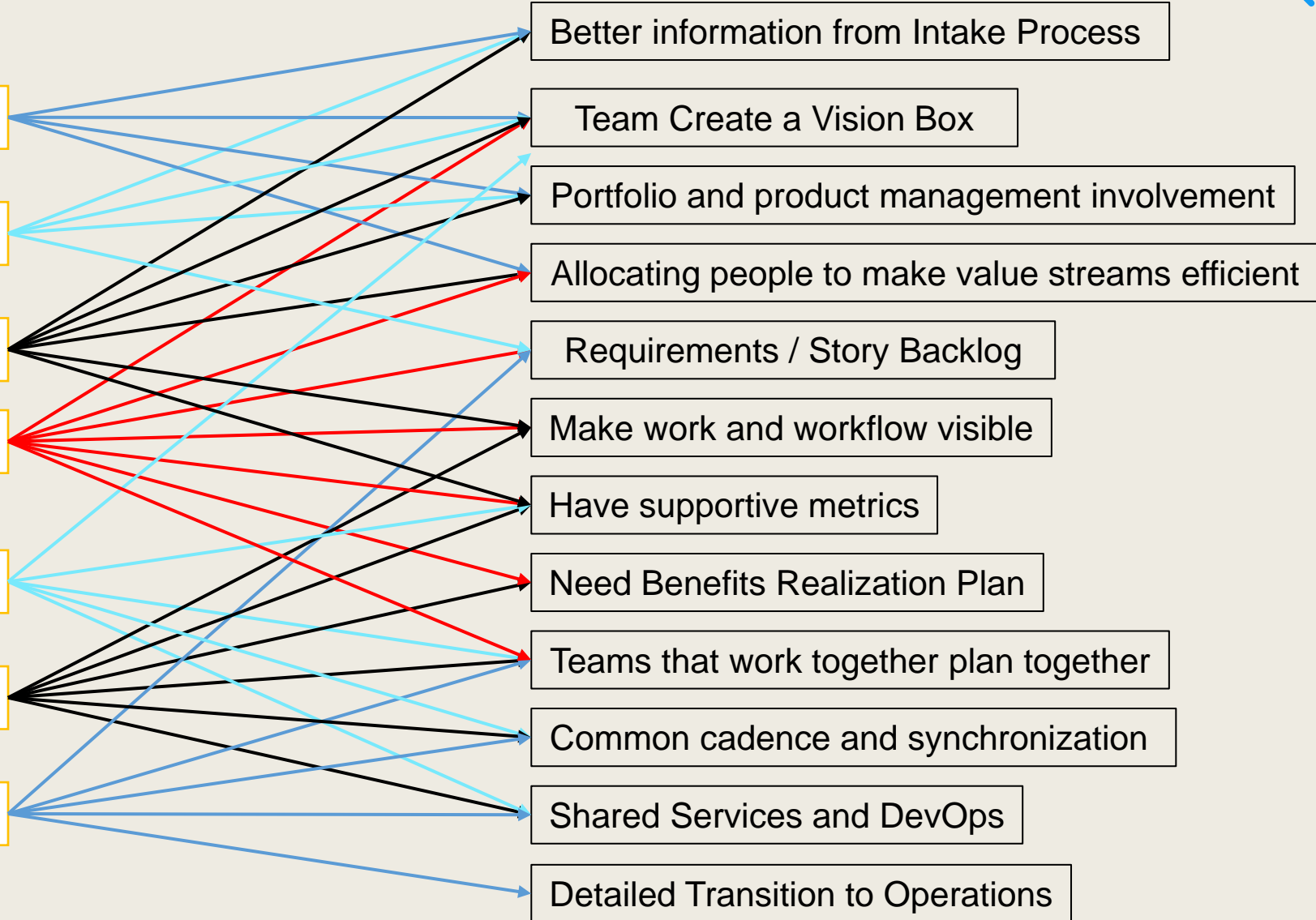
Need Benefits Realization Plan

Teams that work together plan together

Common cadence and synchronization

Shared Services and DevOps

Detailed Transition to Operations



Map Improvement to Value Stream

Improvement Ideas

Effective Actions

Add XXX in Step X of the Value Stream

Development team needs to better Understand factors for KPI CCC

Need data flow diagram added to documentation

Develop Journey for job role AAA

Quality of the product

Develop Interim Report in Analytics Group

Write EPIC on XXX

Attend Gemba Walks

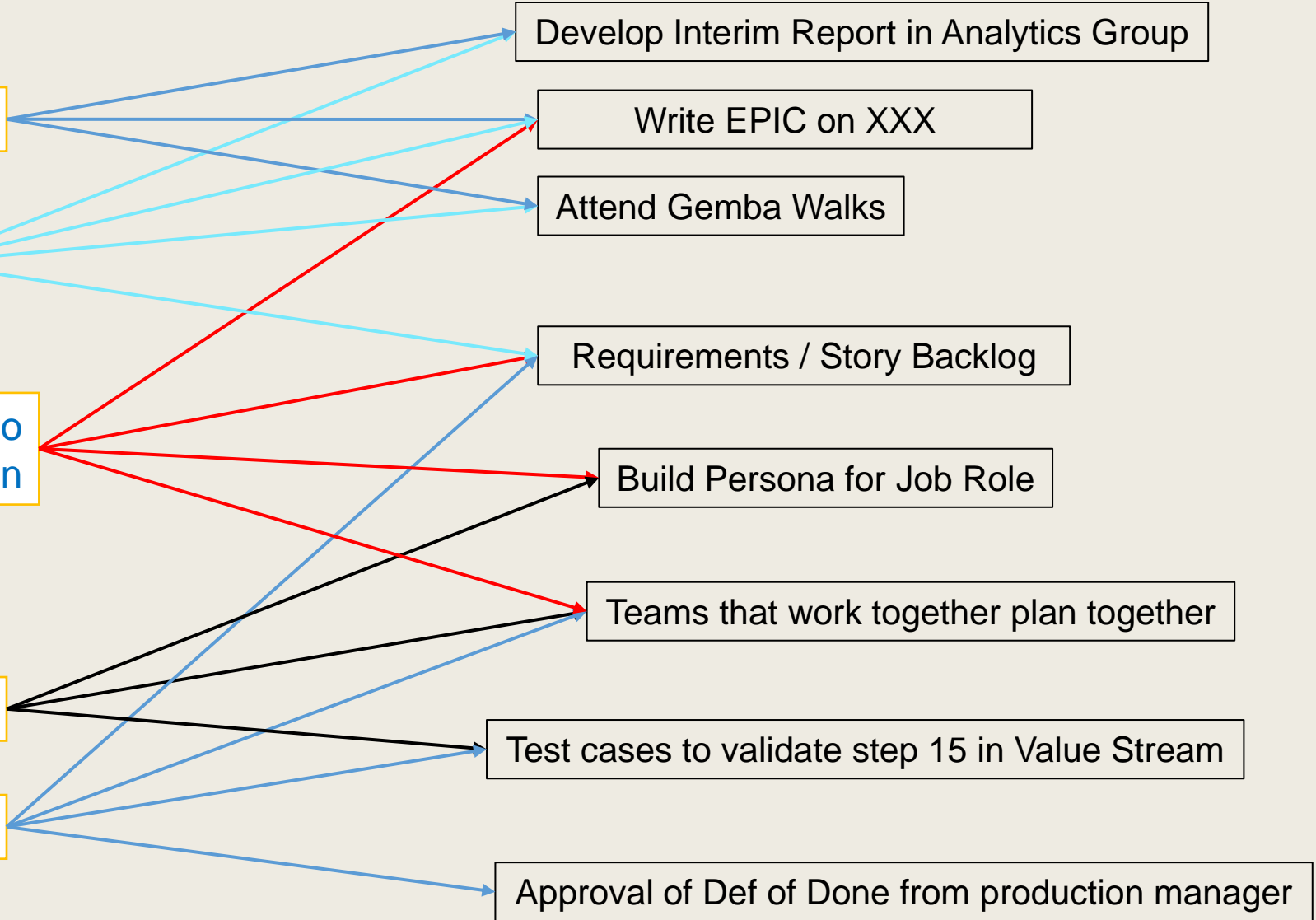
Requirements / Story Backlog

Build Persona for Job Role

Teams that work together plan together

Test cases to validate step 15 in Value Stream

Approval of Def of Done from production manager



守破離

Shu Ha Ri

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Thank You!

Questions and Answers



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