

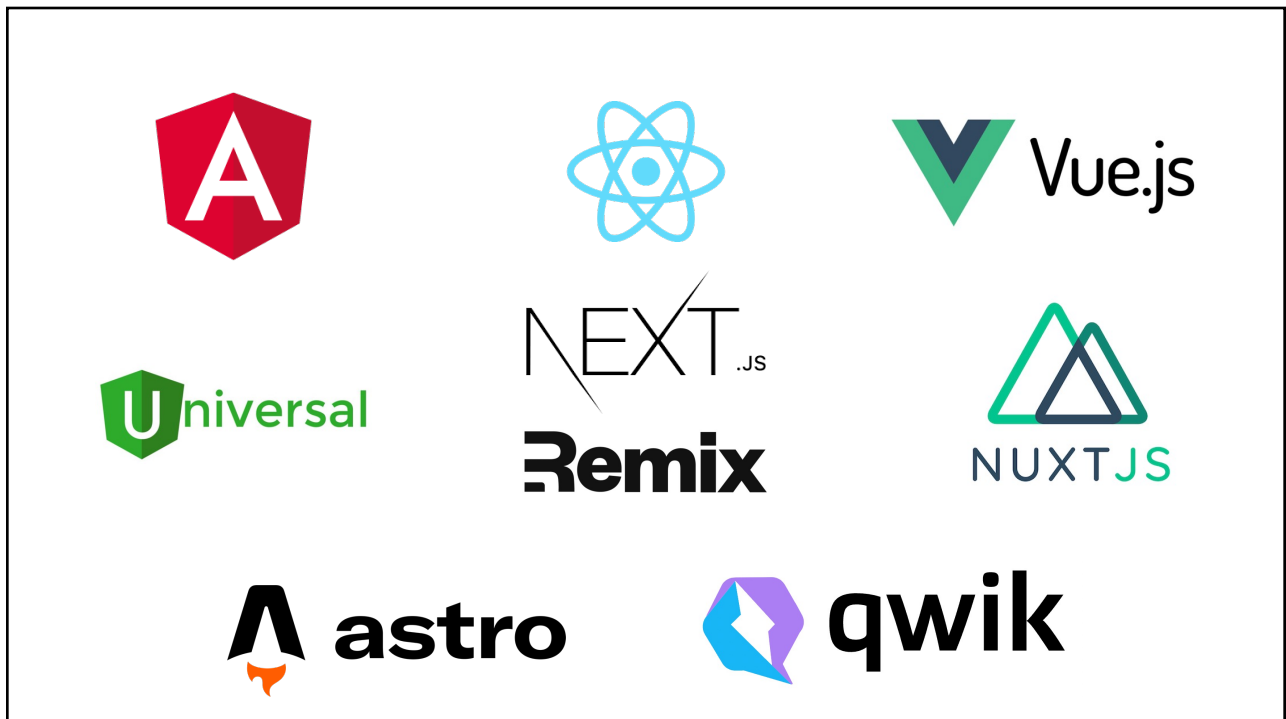
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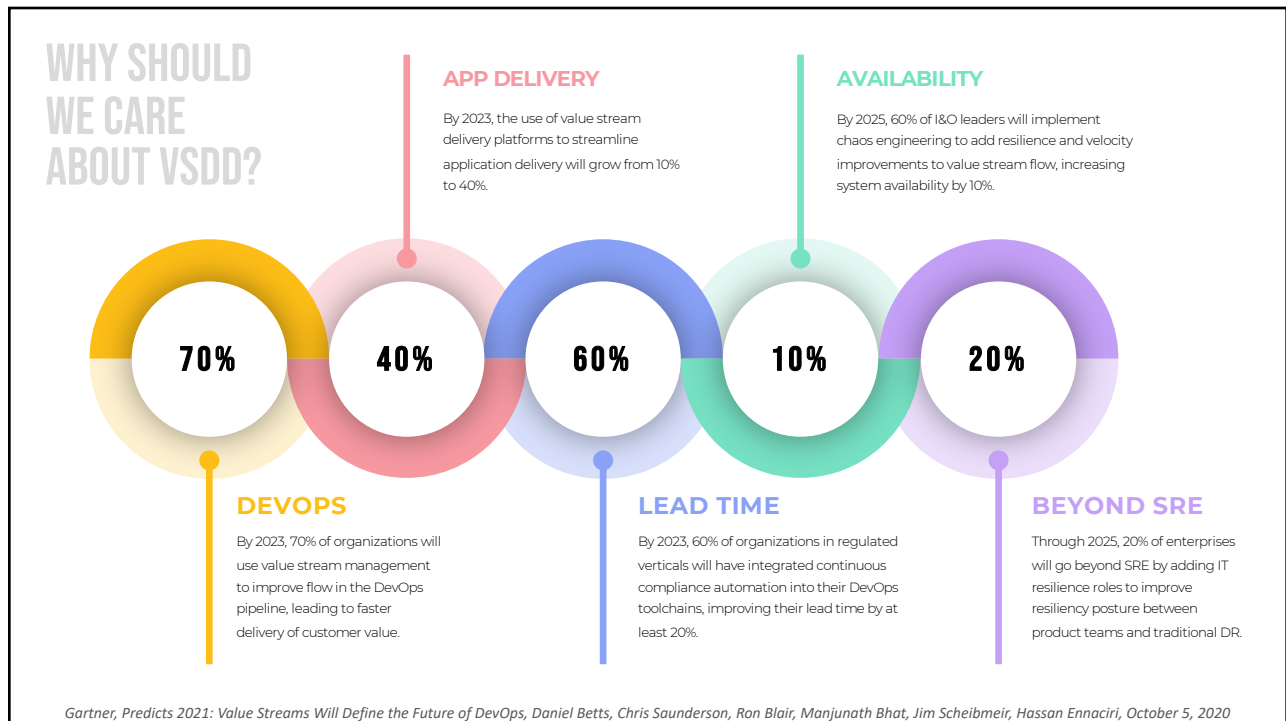
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RAP/TRANSLATION

- | | |
|---|--|
| <ul style="list-style-type: none"> • ¿Dónde está la biblioteca? • Me llamo T-Bone • La araña discoteca | <ul style="list-style-type: none"> • Where is the library? • My name is T-Bone, • the disco spider. |
| <ul style="list-style-type: none"> • Discoteca, muñeca, la biblioteca • Es en bigote grande, perro, Manteca | <ul style="list-style-type: none"> • Disco, doll, the library, • Is in big mustache, dog, lard. |
| <ul style="list-style-type: none"> • Manteca, bigote, gigante, pequeño • Cabeza es nieve Cerveza es bueno | <ul style="list-style-type: none"> • Lard, mustache, huge, little, • head is ice-cream, beer is good. |
| <ul style="list-style-type: none"> • Buenos días, me gustan papas frías • Bigote de la cabra • Es Cameron Díaz | <ul style="list-style-type: none"> • Good day, I like cold potatoes, • the goat's mustache • is Cameron Diaz! |

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HOW TO RIDE THIS ROLLERCOASTER

PHILOSOPHY

Let's make sure we understand what it is that value stream driven practices are trying to optimize for

TACTICAL

Let's take a deeper look at what VSD looks like in both its knowledge and its native non-knowledge work setting

QUALITY

Once we understand what we are dealing with we can keep an eye out to ensure quality does not get forgotten in the implementation

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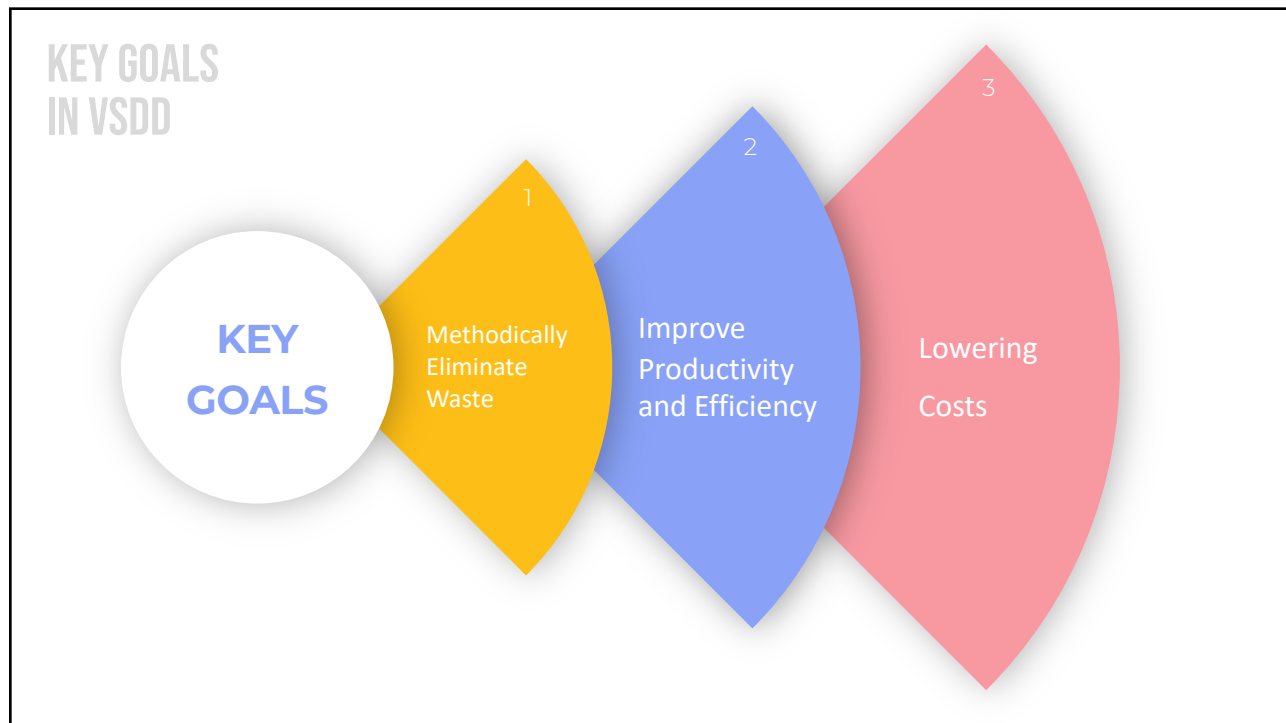
WHAT ARE VALUE STREAMS

Lean production concept

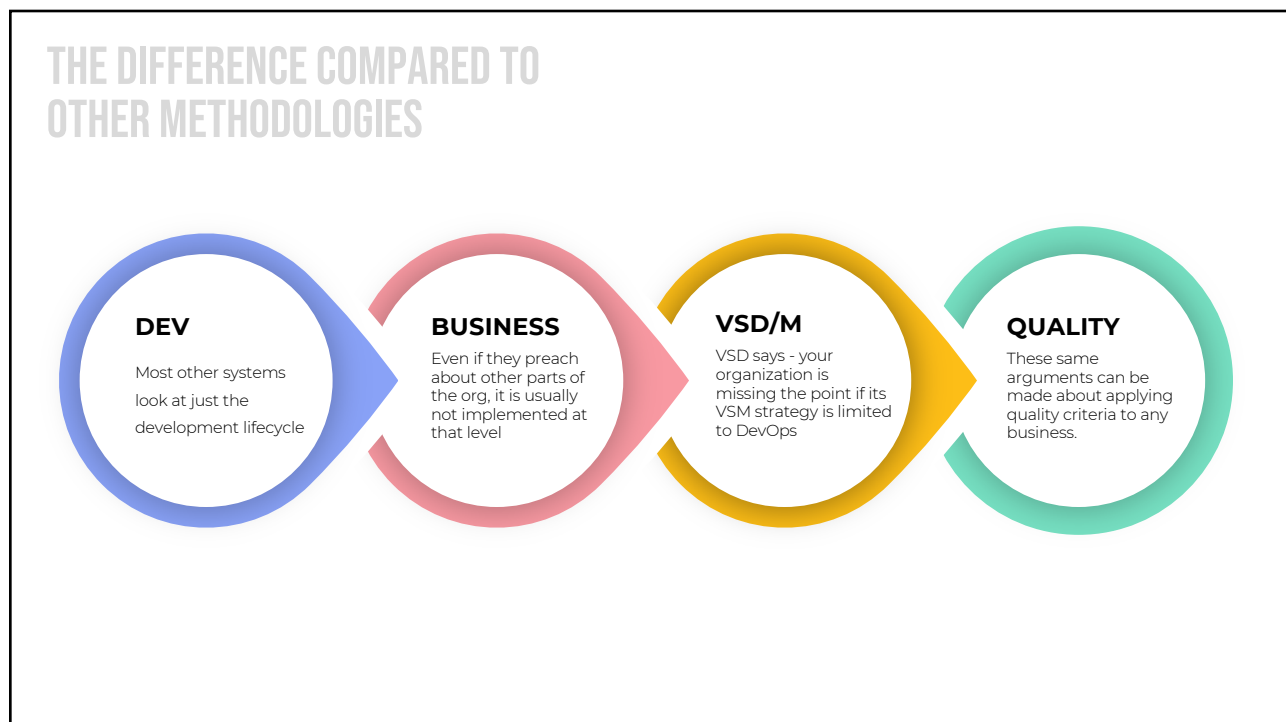
ensure all product delivery activities add value

eliminate all forms of waste that customers don't want to have added to their costs

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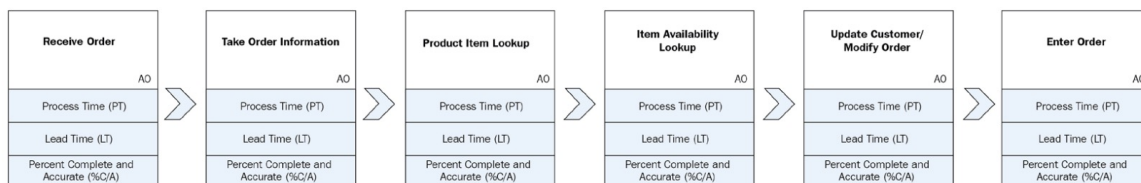
Examples of Value Streams



Driving DevOps with Value Stream Management (Cecil 'Gary' Rupp, 2021)

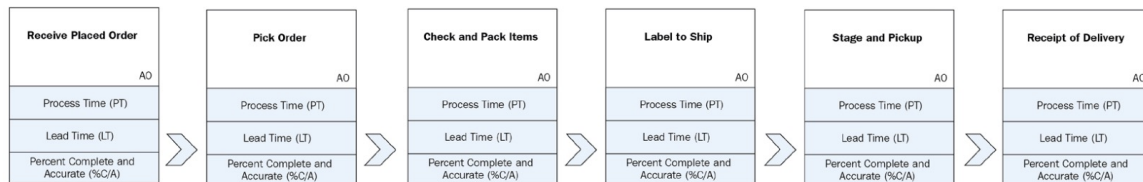
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ORDER ENTRY VALUE STREAM



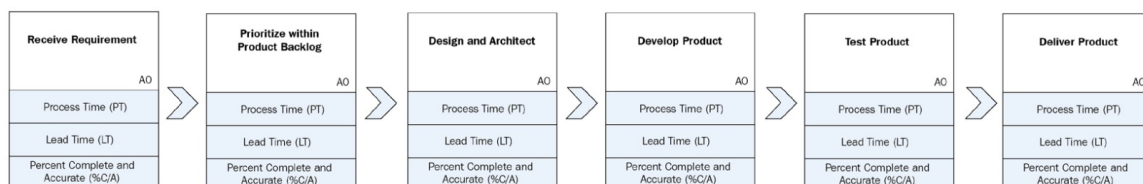
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FULFILLMENT VALUE STREAM



17

DEVELOPMENT VALUE STREAM



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DIFFERENT TYPES OF VALUE

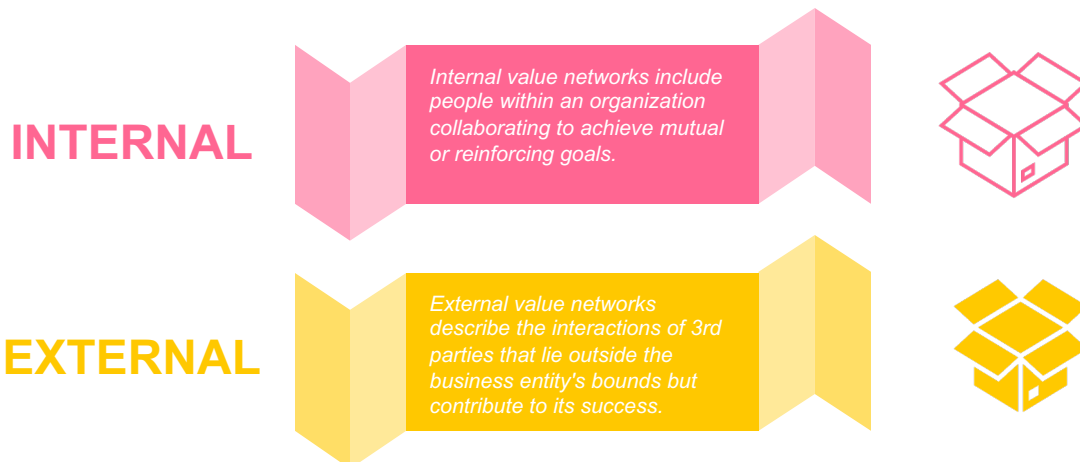


Driving DevOps with Value Stream Management (Cecil 'Gary' Rupp, 2021)

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VALUE NETWORKS

A value network includes any set of connected organizations or individuals working in an integrated and collaborative manner to benefit the group as a whole



Driving DevOps with Value Stream Management (Cecil 'Gary' Rupp, 2021)

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WHAT THEN ARE VALUE STREAMS?

"end-to-end collection of activities that create a result for a 'customer', who may be the ultimate customer or an internal "end-user" of the value stream"

The Great Transition: Using the Seven Disciplines of Enterprise Engineering to Align People, Technology, and Strategy (Martin, 1995)

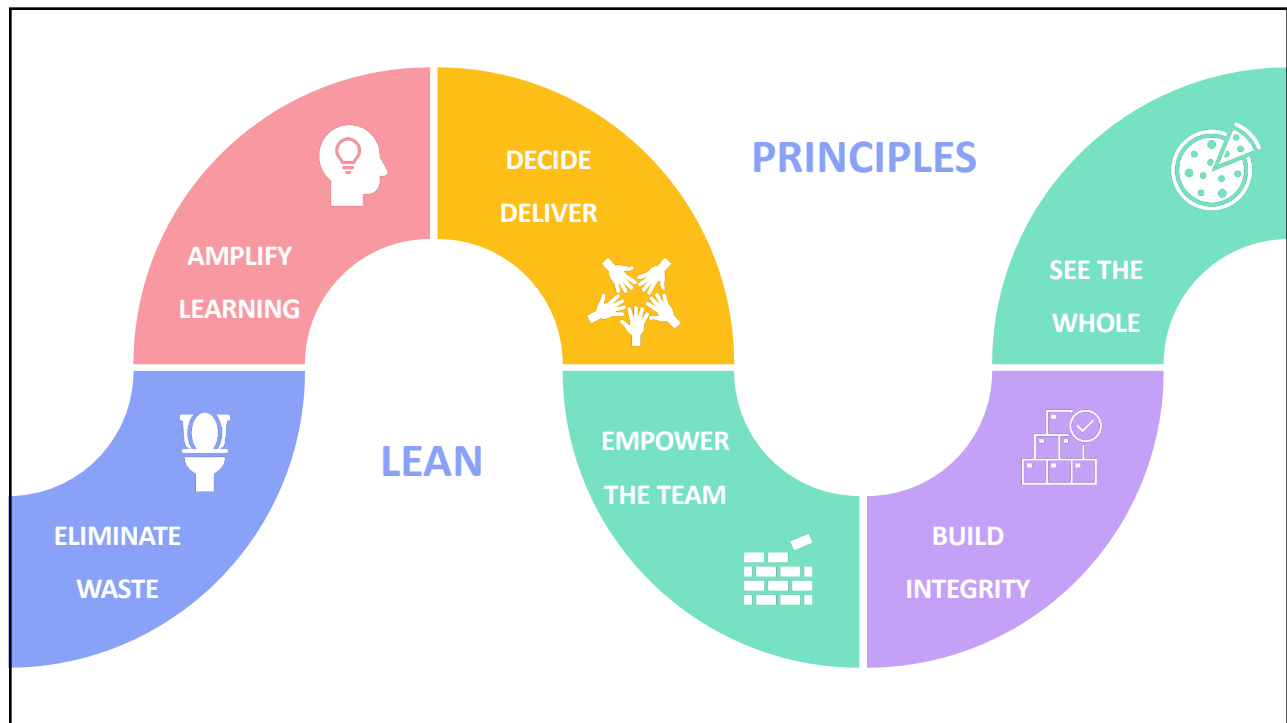
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AGILE MANIFESTO

A quick recap



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HOW DO WE VSDD/M?

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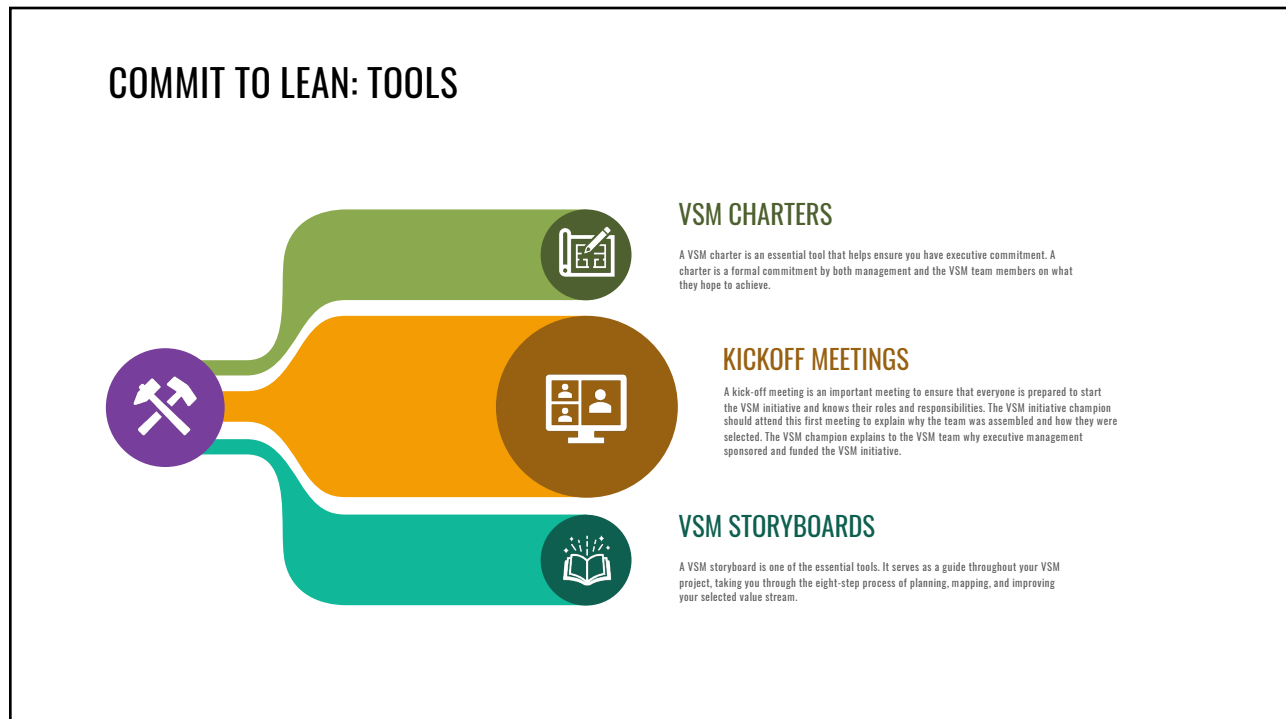
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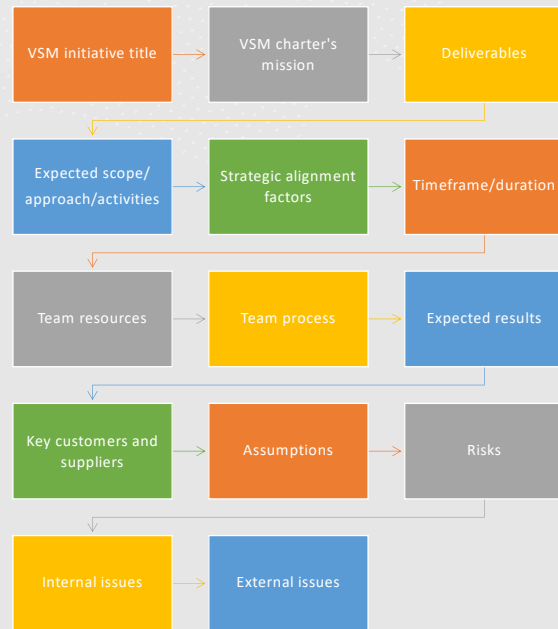
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Step 1 - Commit to Lean [Tools - VSM charter]

A **VSM charter** is an essential tool that helps ensure you have executive commitment. A charter is a formal commitment by both management and the VSM team members on what they hope to achieve. A VSM charter should cover the following topics:



Driving DevOps with Value Stream Management (Cecil 'Gary' Rupp, 2021)

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Step 1 - Commit to Lean [VSM StoryBoard]

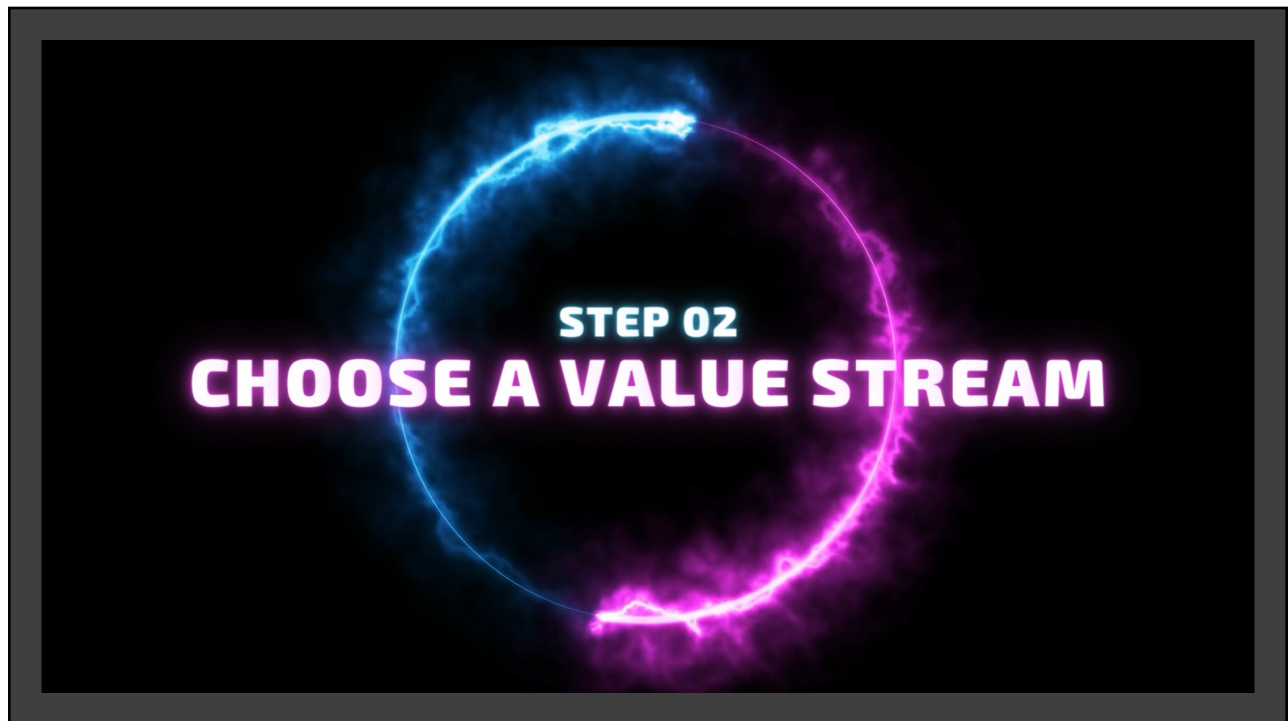


Driving DevOps with Value Stream Management (Cecil 'Gary' Rupp, 2021)

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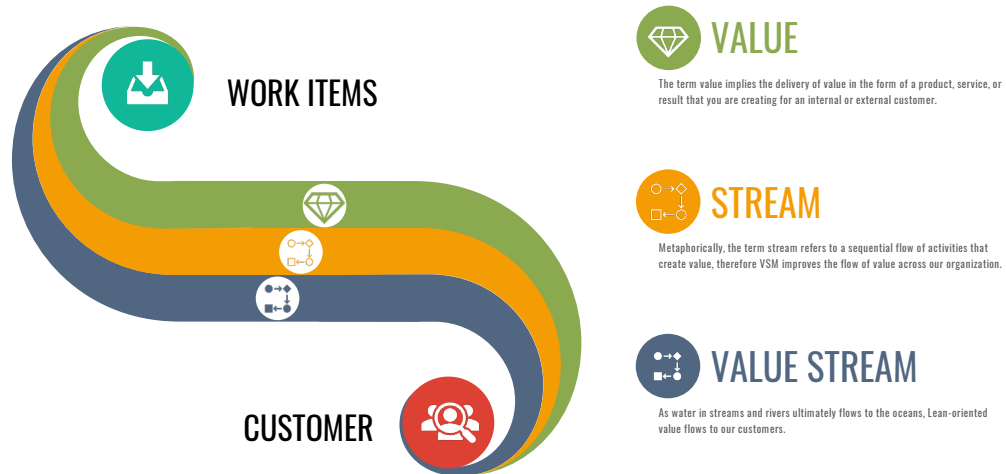


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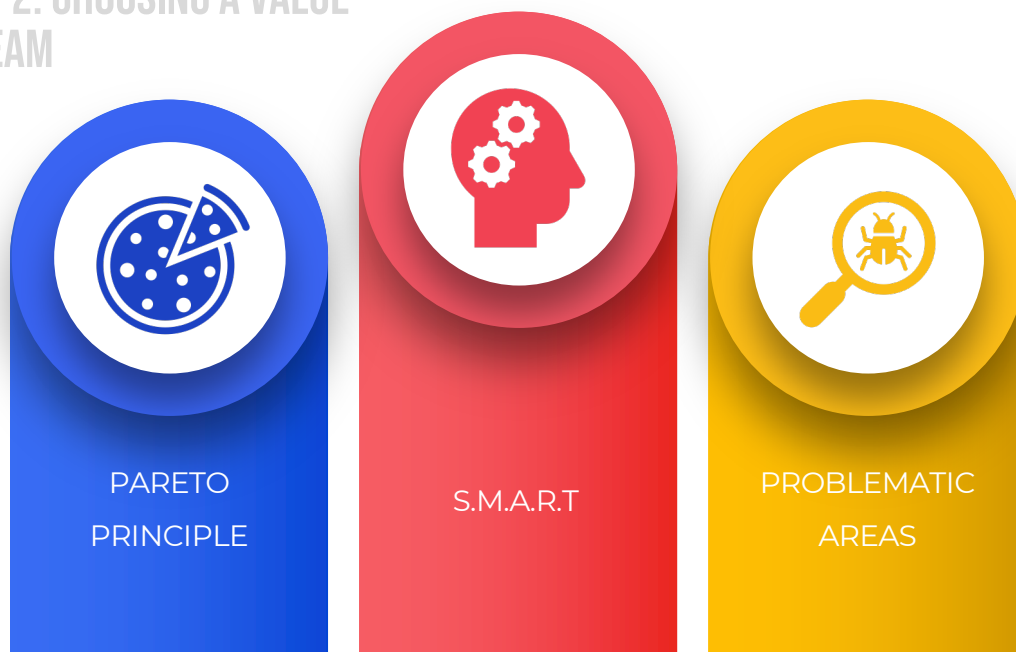
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VALUE, STREAMS AND VALUE STREAMS



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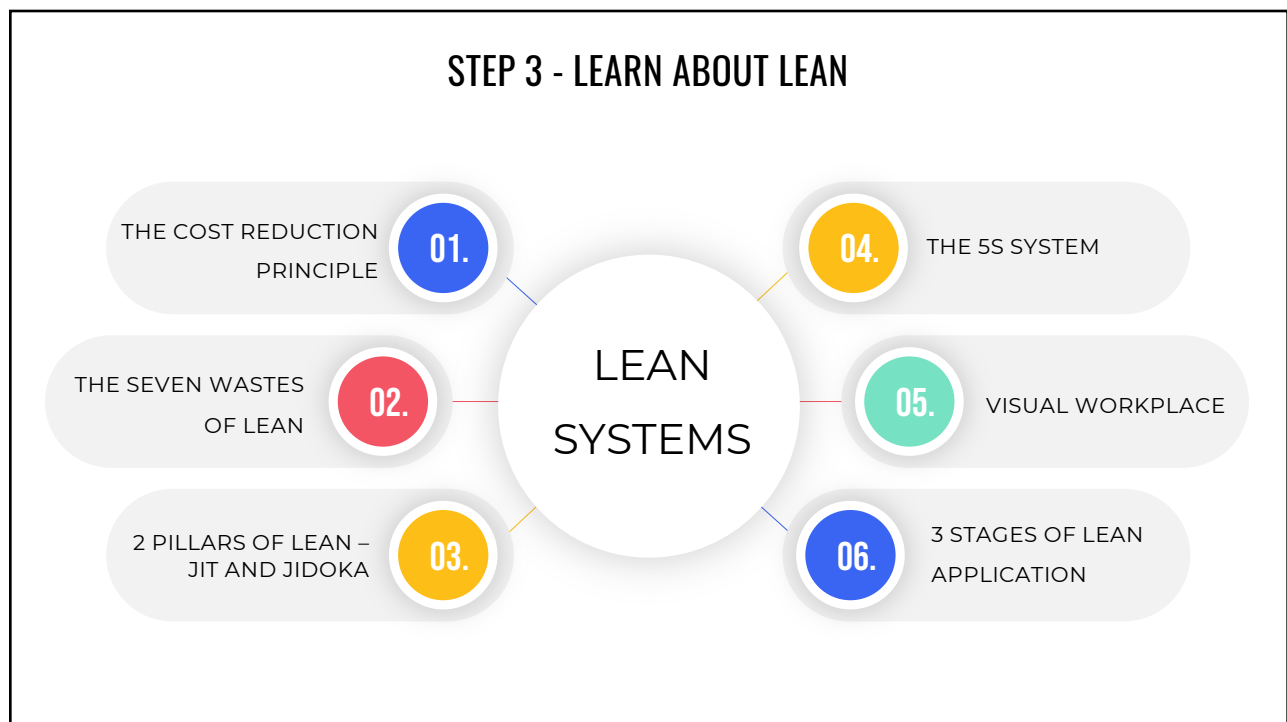
STEP 2: CHOOSING A VALUE STREAM



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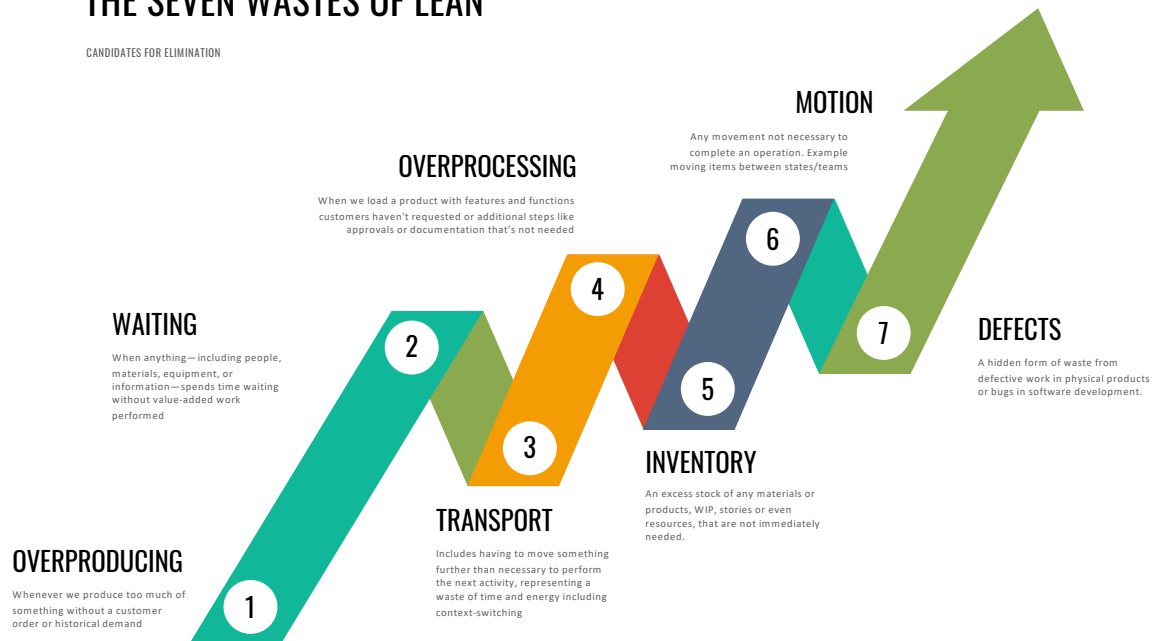
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THE SEVEN WASTES OF LEAN

CANDIDATES FOR ELIMINATION

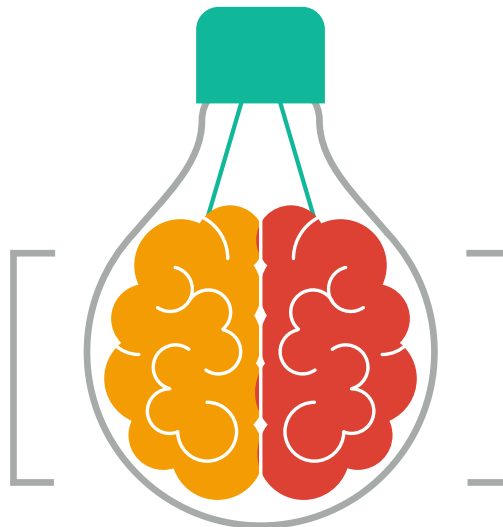


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STEP 3 - LEARN ABOUT LEAN – TWO PILLARS OF LEAN—JIT AND JIDOKA

JIT PRODUCTION

This is an ideal state of continuous flow where materials reach their correct point of assembly, in the proper order, and just at the time of need.



JIDOKA

This uses automation to perform repetitive and dangerous tasks. The goal is not to use automation to replace humans. Instead, the automation capabilities help free up workers' time to perform multiple tasks within their value streams that require flexibility and thought.

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STEP 3 - LEARN ABOUT LEAN – THE 5S SYSTEM



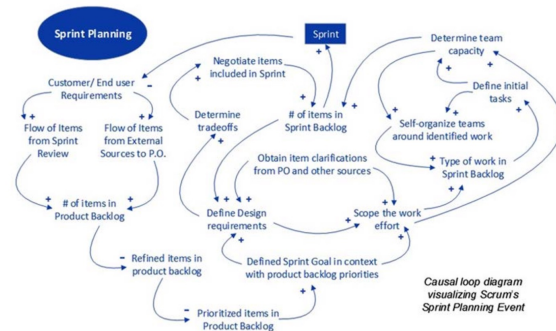
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STEP 04 MAP CURRENT STATE

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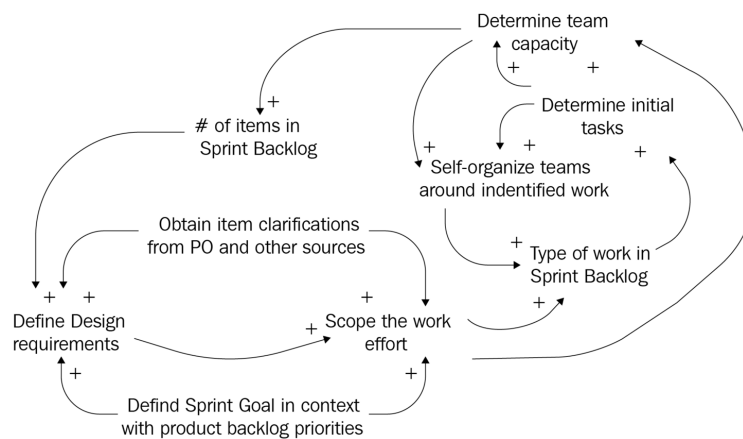
Causal Link Diagrams

A method to visualize the interrelationships of elements (a.k.a. *variables*) within a system as nodes and linkages between nodes (a.k.a. *edges*).



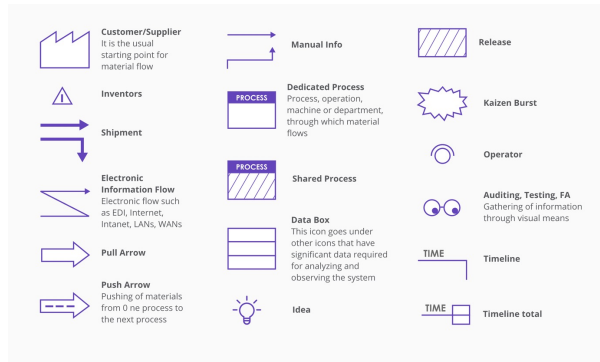
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Reading a CLD

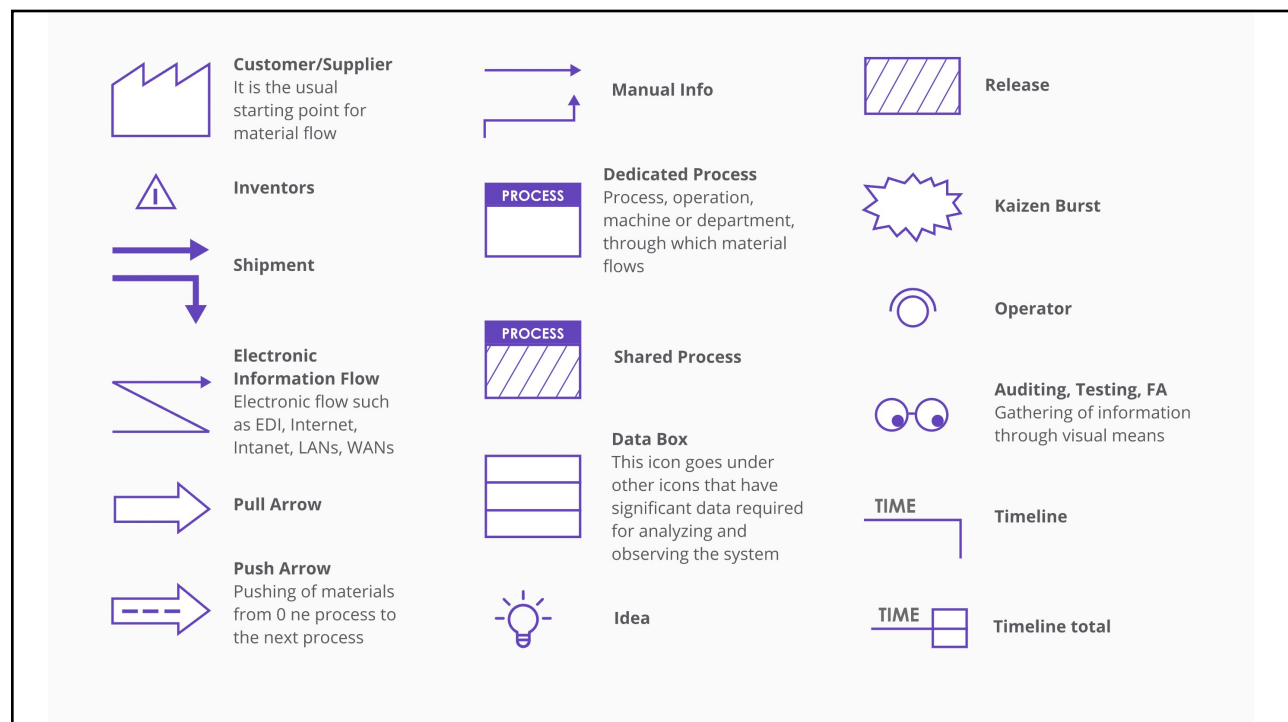


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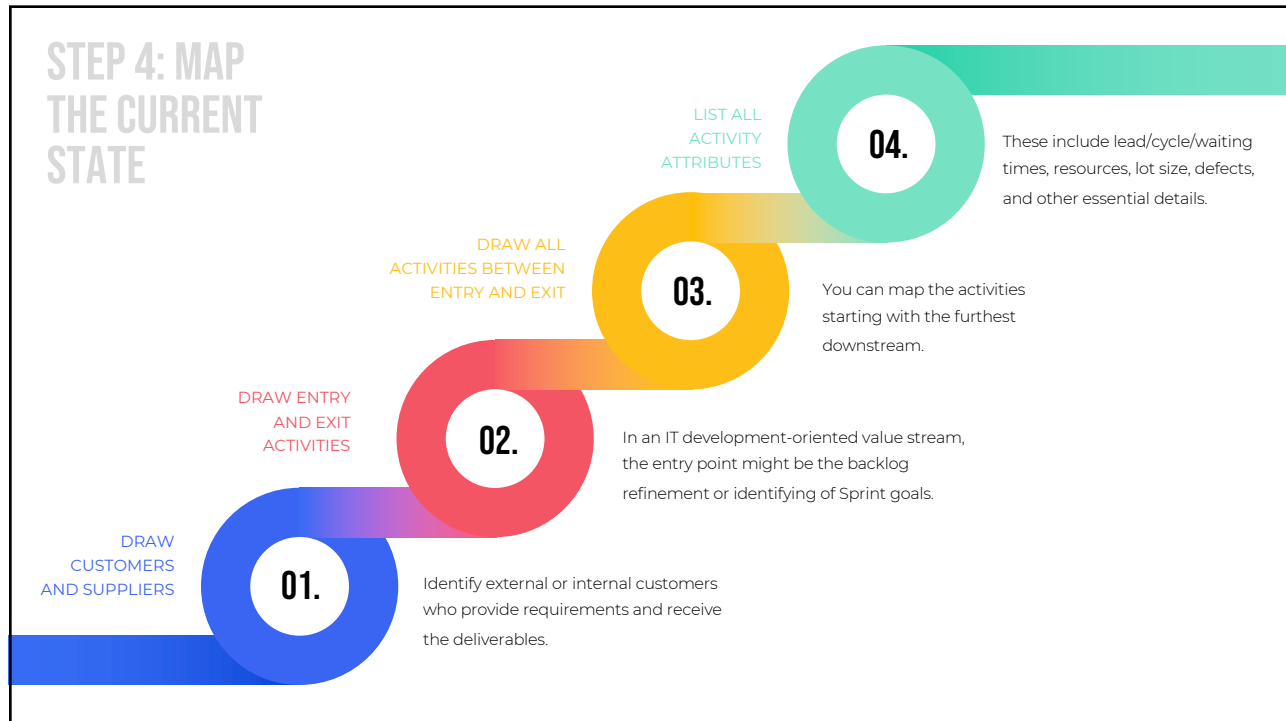
Step 4 - Map current state - Symbols



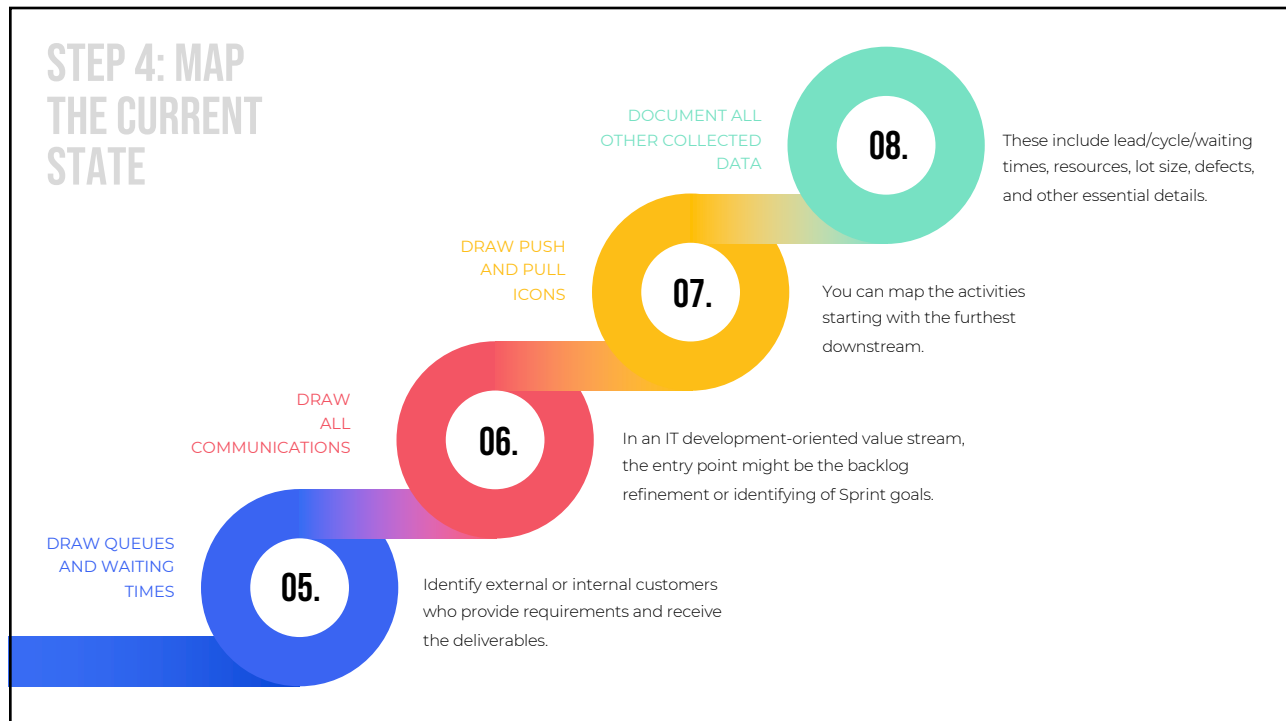
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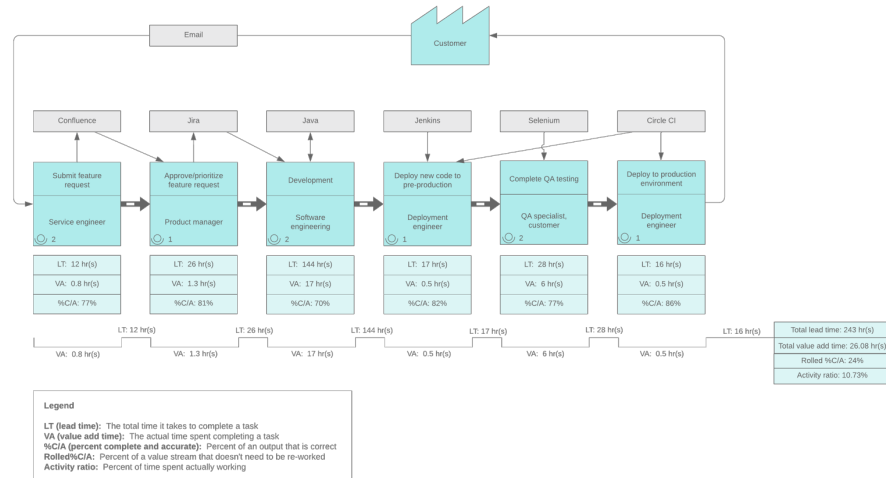


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STEP 4 – MAP CURRENT STATE – SAMPLE MAP



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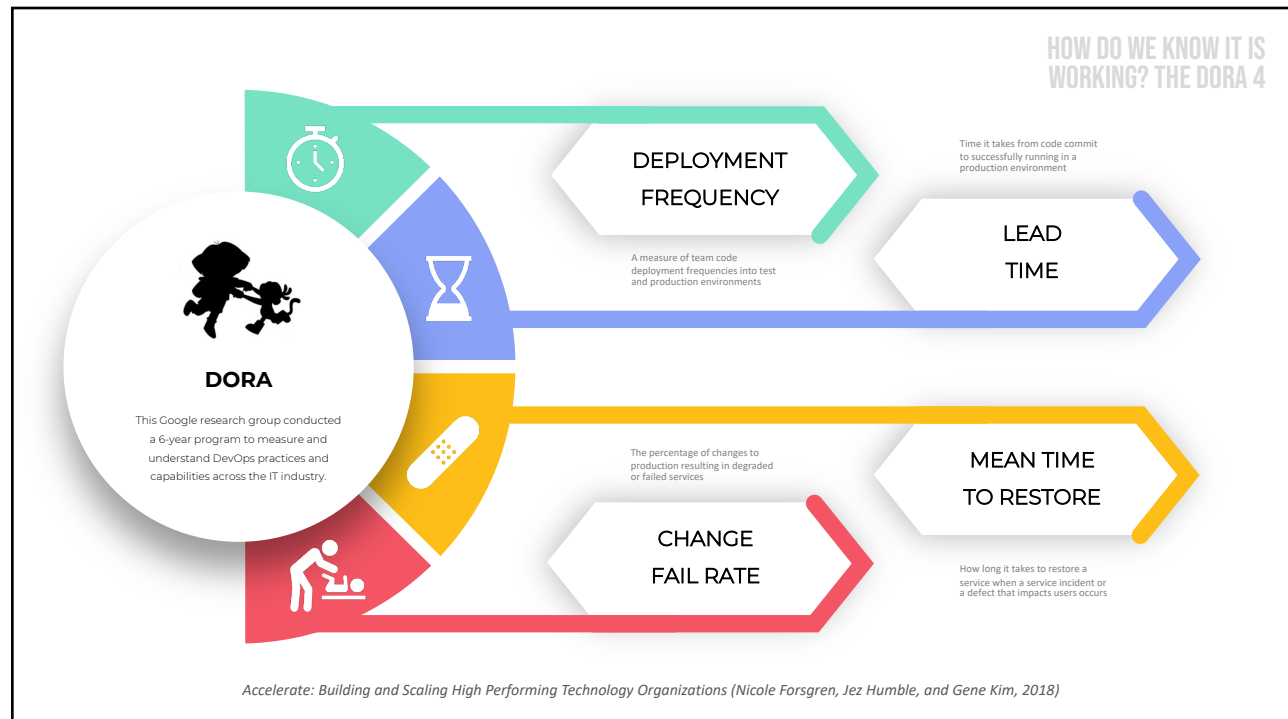


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Step 5 - Identify Lean metrics

Technical	Product	Business
Code change size	Lead time	Product cost
Code delivery speed	Cycle time	Product value
Code refactoring rate	Throughput	Return on investment
Code review churn	Work in progress	Product quality
Code quality	Flow efficiency	Net Promoter Score
Technical debt	Work profile	Customer satisfaction

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DORA METRIC MATURITY

Software delivery performance metric	Low	Medium	High
Deployment frequency For the primary application or service you work on, how often does your organization deploy code to production or release it to end users?	Between once per month and once every 6 months	Between once per week and once per month	On-demand (multiple deploys per day)
Lead time for changes For the primary application or service you work on, what is your lead time for changes (i.e., how long does it take to go from code committed to code successfully running in production)?	Between one month and six months	Between one week and one month	Between one day and one week
Time to restore service For the primary application or service you work on, how long does it generally take to restore service when a service incident or a defect that impacts users occurs (e.g., unplanned outage or service impairment)?	Between one week and one month	Between one day and one week	Less than one day
Change failure rate For the primary application or service you work on, what percentage of changes to production or released to users result in degraded service (e.g., lead to service impairment or service outage) and subsequently require remediation (e.g., require a hotfix, rollback, fix forward, patch)?	46%-60%	16%-30%	0%-15%

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AGILE QUALITY METRICS

SOME COMMONLY USED METRICS IN THE AGILE/LEAN/VSD WORLD



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AGILE PRODUCTIVITY METRICS

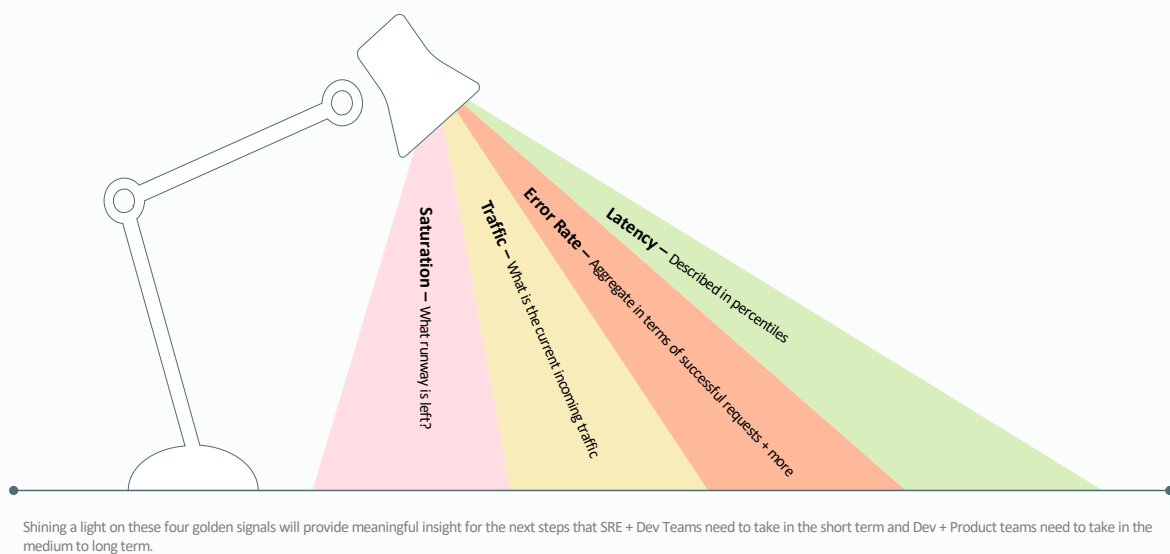
SOME COMMONLY USED METRICS IN THE AGILE/LEAN/VSD WORLD



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PERFORMANCE METRICS

WHAT EVERY ORGANISATION SHOULD KNOW ABOUT THEIR PRODUCTION



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HEALTH METRICS FOR AGILE TEAMS

SOME COMMONLY FORGOTTEN METRICS IN THE AGILE/LEAN/VSD WORLD

EMPLOYEE HAPPINESS

Happiness is measured through simple employee surveys, asking them to rate how happy they are with the company, what they like best, what they don't like, and what would increase their happiness.



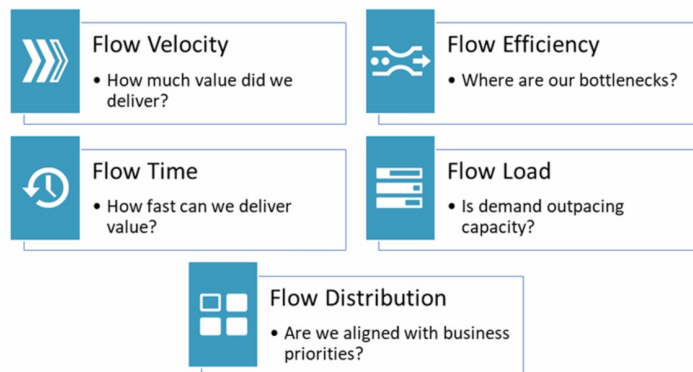
TEAM MORALE

Measures of team-level morale often provide better indicators of job satisfaction. Again, surveys work best, but the questions are not open-ended. Instead, the surveys ask the team members to rate their agreement with the questions on a scale of 1 to 7.

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Step 5 - Identify Lean metrics

We have already seen a few of the agile metrics before, for now let's focus on the ones that bring the focus to FLOW.



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Step 5 - Identify Lean metrics

For our example, we can use these -

Legend

LT (lead time): The total time it takes to complete a task
VA (value add time): The actual time spent completing a task
%C/A (percent complete and accurate): Percent of an output that is correct
Rolled%C/A: Percent of a value stream that doesn't need to be re-worked
Activity ratio: Percent of time spent actually working

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Legend

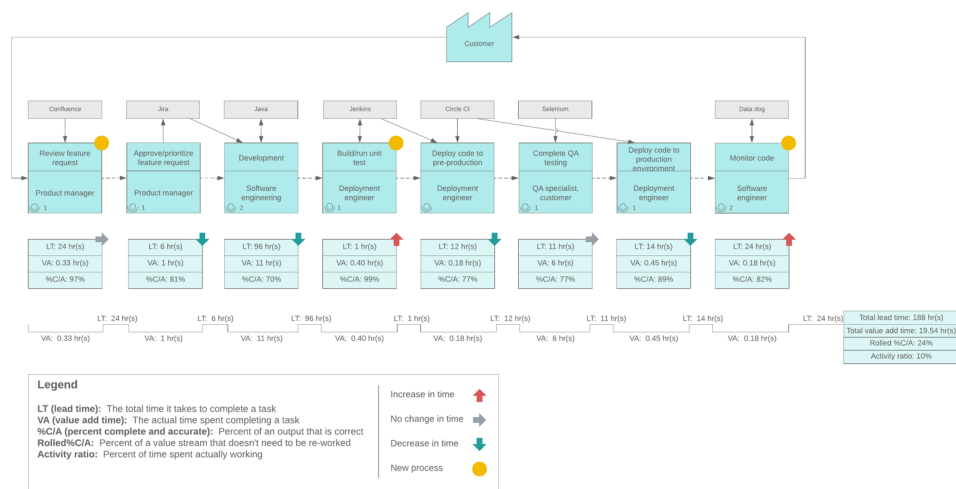
LT (lead time): The total time it takes to complete a task
VA (value add time): The actual time spent completing a task
%C/A (percent complete and accurate): Percent of an output that is correct
Rolled%C/A: Percent of a value stream that doesn't need to be re-worked
Activity ratio: Percent of time spent actually working

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STEP 6 – MAP FUTURE STATE – SAMPLE MAP



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Step 7 - Create Kaizen plans – Monthly Kaizen Schedule Plan

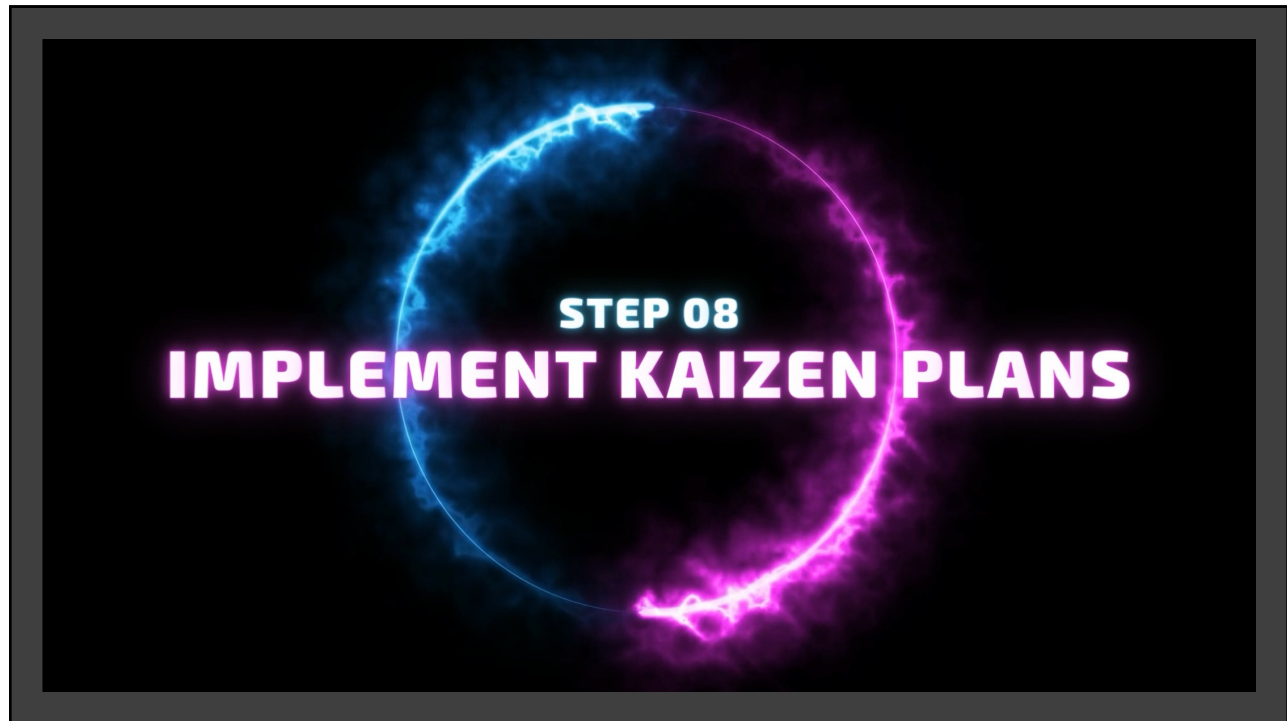
Monthly Kaizen Schedule Plan														
Value Stream:			Date											
Phase	Kaizen Burst	Planned Improvement Change	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Demand														
FLOW														
LEVEL														
Δ = Start Date			📍 = Ongoing Work			▲ = Planned Finish Date								

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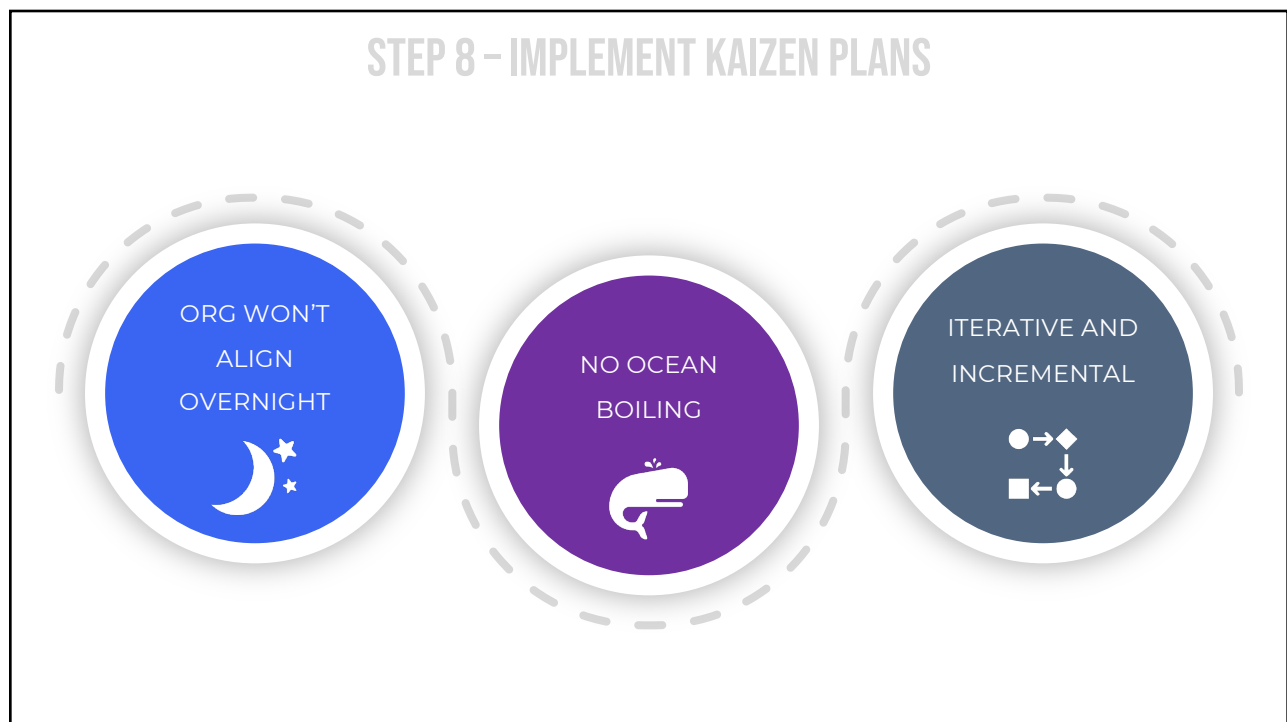
Step 7 - Create Kaizen plans – Chart of VSM Objectives and Measurables

Date:						
VSM Team Lead:						
VS Manager:						
Change Objectives	Measurable Goals	Baseline Metrics	Target Metrics	State of change	Risks	Issues
<input checked="" type="checkbox"/> - Completed	<input type="checkbox"/> - Still Open	<input checked="" type="checkbox"/> - Unsuccessful				

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RECAP – DO THE VSM/D

1

COMMIT
TO LEAN

2

CHOOSE A
VALUE
STREAM

3

LEARN
ABOUT
LEAN

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RECAP – DO THE VSM/D

4

MAP
CURRENT
STATE

5

DETERMINE
LEAN
METRICS

6

MAP
FUTURE
STATE

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RECAP – DO THE VSM/D



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TAKE AWAYS

A N I N T E N S E F O C U S O N V A L U E






Z E A L O U S L Y E L I M I N A T E W A S T E

A H O L I S T I C V I E W O F Q U A L I T Y

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THANK YOU!



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