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Value Added Analysis



- 1. Value Added Analysis: What is it ?
- 2. Value Added Analysis purpose and benefits ?
- 3. Value Added Analysis Approach
- 4. Takeaways



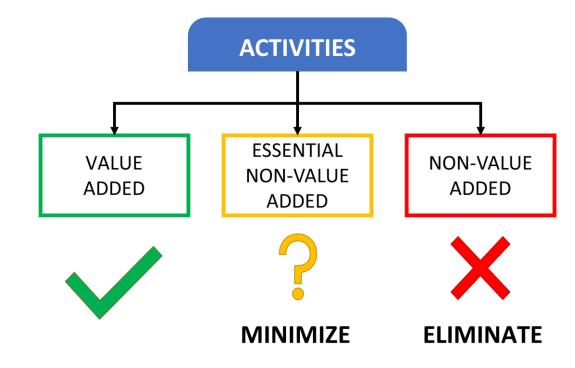


Introduction

What is it ?

A vital part of value stream mapping is to identify what value add is, and what it means to the process.

When looking at any step in a process, it either adds value, or it does not.



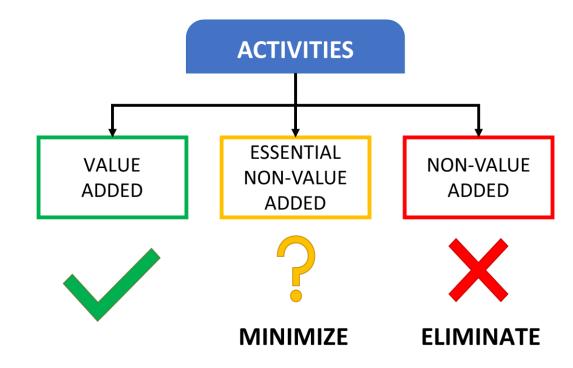


Introduction

What is it ?

If we answer yes to the following questions, then the task is value added:

- a) Do customers want to pay for this operation?
- b) Does this operation produce something the customer wants?





Purpose and Benefits:

DENTIST

Value added activities:

- Injecting the localized area with anesthetic.
- Drilling and cleaning the tooth from decay.
- Filling the tooth with the composite material.
- And setting the composite.





Purpose and Benefits:

DENTIST

Non-Value added activities:

- Preparing for the procedure.
- Cleaning the equipment.
- Loading the client's records.
- Lining up the equipment.
- Mixing the compound.





Purpose and Benefits:

WAREHOUSE

Value added activities:

- The action of picking the product off the shelf.
- Packing and labeling the item.





Purpose and Benefits:

WAREHOUSE

Non-Value added activities:

- Sorting for pick order.
- Searching and walking to find the right location.
- Printing paperwork.
- Inspecting other people's work.
- Moving the items to packing.





Purpose and Benefits:

MANUFACTURING

Value added activities:

- Bending an aluminum part.
- Cutting a wood frame.
- Inserting a label.
- Cooking the product.
- Filling a bottle.





Purpose and Benefits:

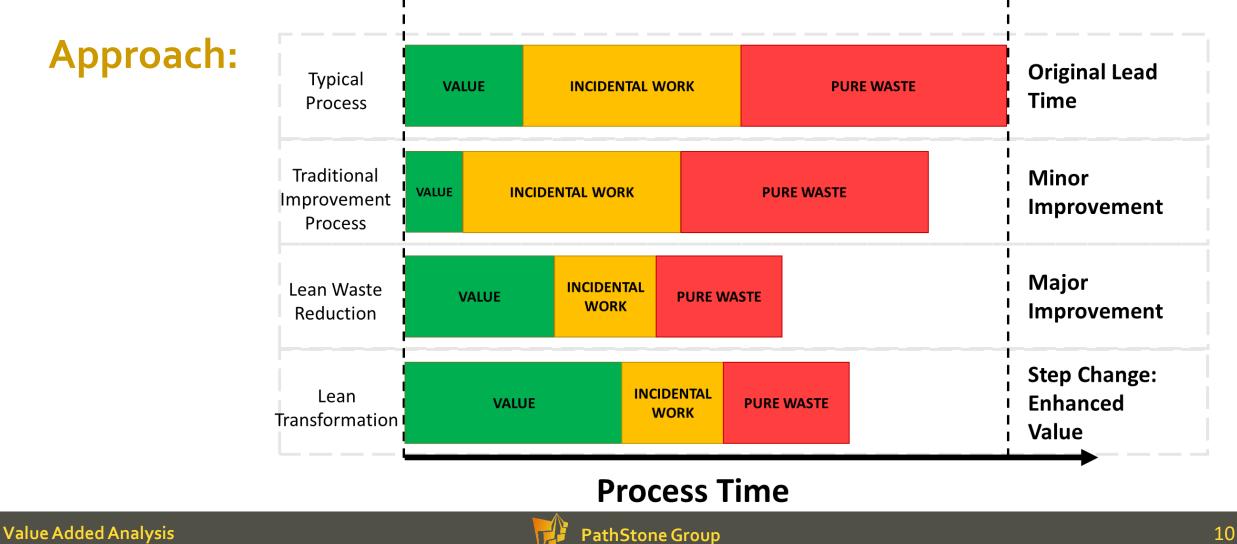
MANUFACTURING

Non-Value added activities:

- Setting up.
- Getting material.
- Checking paperwork.
- Inspecting the product.



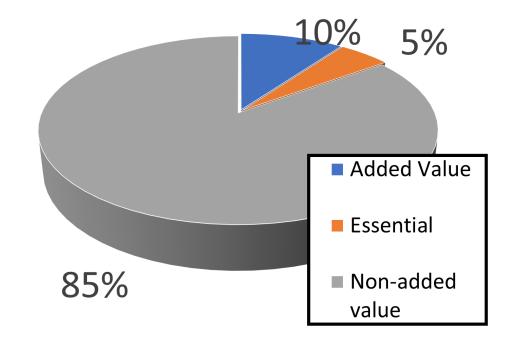




Approach:

- 1. Where there is **pure waste**, remove it from the process. We are now left with essential or business waste and VA.
- 2. Take the **business waste** and convert as much of this as possible to pure waste.
- 3. Repeat step 1. Remove this pure waste.

The more essential waste that is converted to pure waste, the more efficient the process will be, and the bigger step change we will achieve.





Approach:



Value-added activities refer to the activities that increase the worth of a product or service from the customer's perspective.



Essential (or Business) non-value-added activities refer to the activities that add no value and the customer is not willing to pay for them. However, they are necessary for the business because of the current process settings.

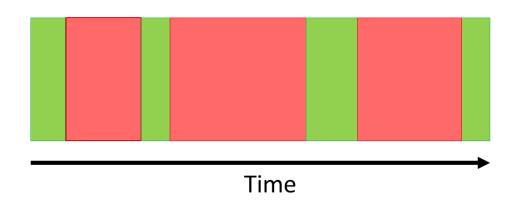


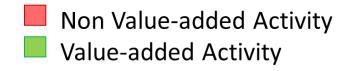
Non-value-added activities refer to the activities that add no value to the product or service and are not required for business operational reasons.



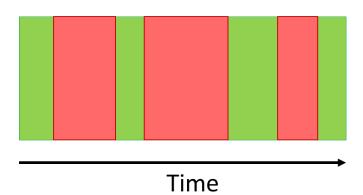
Approach:

Before Improvement





After Improvement





Approach:

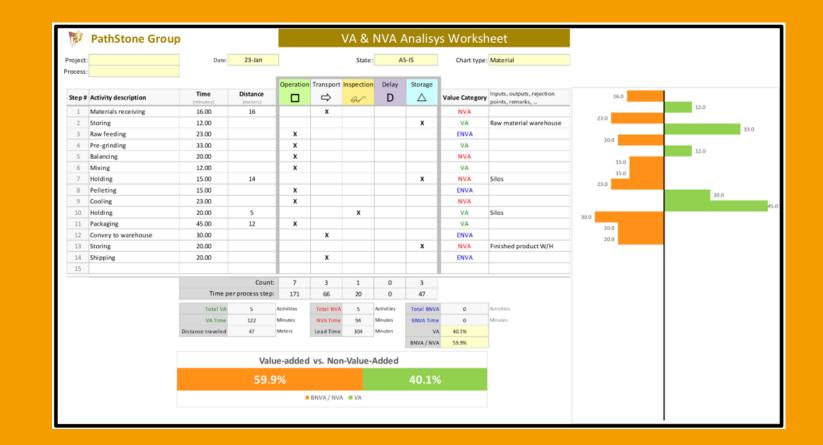
| | | | | Operation | Transport | Inspection | Delay | Storage | | |
|--------|---------------------------------|------------------------|----------------------|-------------------|-----------------------|------------|--------------------|-------------|----------------|--------|
| Step # | Activity description | Time (minutes) | Distance (meters) | | ⇔ | G₽∕^ | D | \triangle | Value Category | (|
| 1 | Enter clinic, reception desk | 0.50 | 3 | | х | | | | ENVA | |
| 2 | Inform arrival | 1.00 | | x | | | | | ENVA | |
| 3 | Wait for file to open in system | 1.50 | | | | | x | | NVA | |
| 4 | Register patient | 3.00 | | x | | | | | ENVA | |
| 5 | Wait in the waiting room | 6.00 | 4 | | | | x | | NVA | |
| 6 | Get and record patient vitals | 3.00 | | | | x | | | VA | |
| 7 | Wait for doctor to arrive | 1.00 | 3 | | | | x | | NVA | |
| 8 | Get examined by the doctor | 9.00 | | | | x | | | VA | |
| 9 | Arrange next appointment | 2.50 | | x | | | | | ENVA | |
| 10 | Exit clinic | 0.50 | 6 | | x | | | | ENVA | |
| 11 | | | | | | | | | | |
| | | | Count: | 1 | 1 | 1 | 2 | 1 | | |
| | | Time per process step: | | 68 | 4 | 34 | 87 | 34 | | |
| | | Total VA | 3 | Activities | Total NVA | 1 | Activities | Total ENVA | 2 | Activ |
| | | VA Time | 146 | Minutes Meters | NVA Time Lead Time | | Minutes Minutes | ENVA Time | | Minute |
| | | Distance traveled | 5 | | | | | VA | | |
| | | | | | | | | ENVA/NVA | 44.1% | |

Value-added vs. Non-Value-Added

44.1% 55.9%

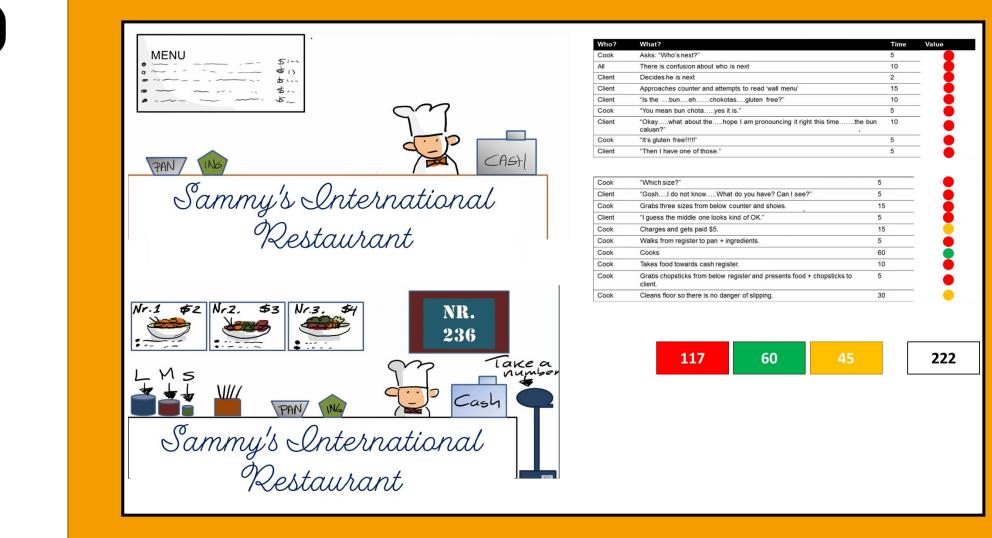


TOOLBOX Value-Added Analysis Worksheet





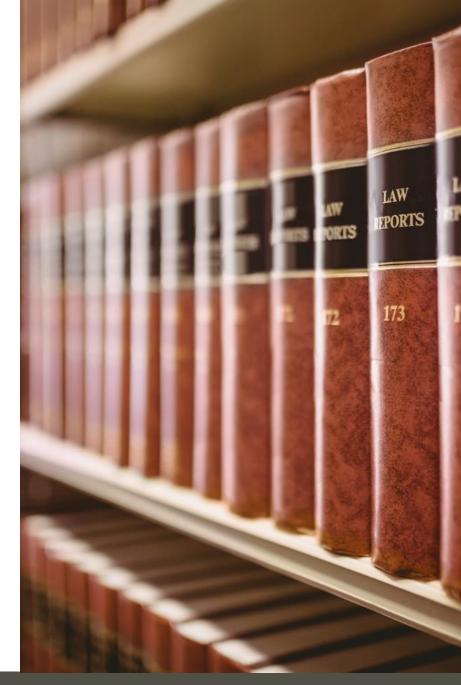






Takeaways

- It is important to understand the ultimate customers' expectations clearly and know exactly what they are willing to pay for.
- Value added activities are typically less than 10 percent of the total process lead time.
- Traditional approach to process improvement is to focus on reducing the time to perform the value added work (normally through capital investment), the Lean approach however focuses on eliminating the root causes of the 90 percent of the non-value added activities.
- Complement the Non-Value added analysis with the 8 Wastes, Process Walks and Process Mapping.





ThankYou





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