Value Stream Mapping Workshop

Hosted at Deakin University
Centre for Intelligent Systems Research

Program Agenda

16:30	Registration
16:45	Welcome
16:50	Workshop
17:30	Break
17:45	Workshop
18:30	Wrap up, Questions, Feedback
18:45	Finish

Geelong Quality Council

Vision

- We aim to contribute to the development of a prosperous Geelong community as a not for profit resource that supports individuals and organisations to achieve operational excellence.

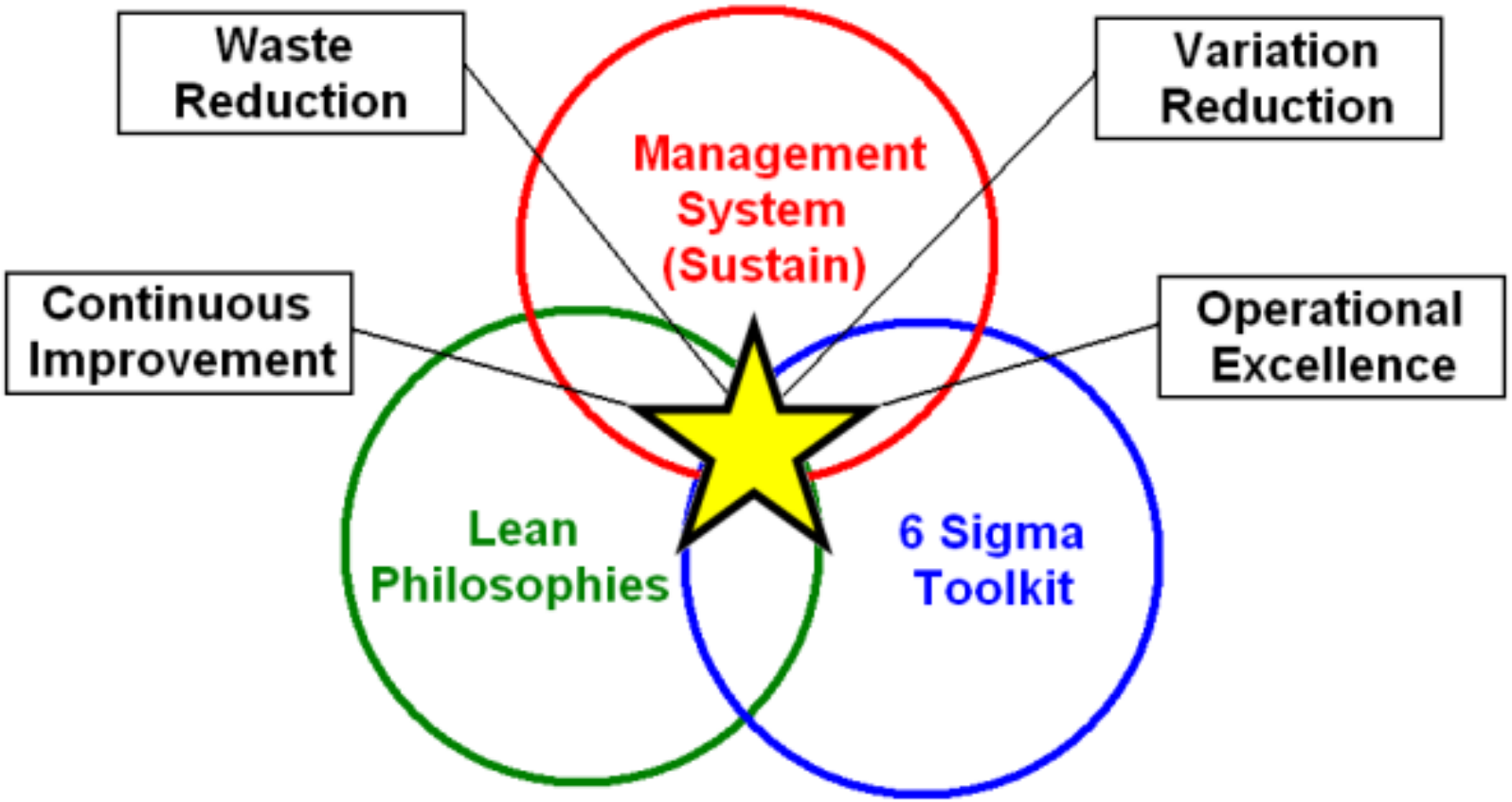
Purpose

- To assist Geelong region organisations achieve *operational excellence* by facilitating information sharing on management systems/sustaining, lean/waste reduction philosophies, 6 sigma /systematic problem solving principles and emerging quality approaches.
  We do this by:
- Arranging regular, low cost, site visits, seminars and workshops focusing on sharing methods and tools that assist in achieving operational excellence.
- Creating a collaborative learning environment where experienced people from a diversity of organisations can share their knowledge and network with others for the benefit of the community.
- Offering experiences for students to learn about operational excellence.

Values

- GQC encourages a respectful open environment where diverse views are welcomed in a manner that accords with ethical business practices.

Goal – Operational Excellence



Events Program Strategy

- Target monthly activities (Feb-Nov)
- Expand audience beyond manufacturing
- Where possible delivery will be 'on location'
- Sessions will cover:
  * Philosophy and Theory - What is the thinking behind the tool?
  * Tools - Practical Application, tools in action

Date	**Philosophy**	**Tool**	**Venue**
14 Jun-13		A3's	TAC
Jul-13		Problem Solving	TBC
Aug-13		Leader Standard Work	Godfrey Hirst
Sep-13		TBA	TBC
Oct-13	6 Sigma		Air Radiators
Nov-13		Data Recording	<…>
		Quality Tracking System	

Value Stream Mapping Workshop

A Recruitment Process Scenario

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Value Stream Mapping

- Adapted by Mike Rother and John Shook (1999) from Toyota's material and information flow diagrams.

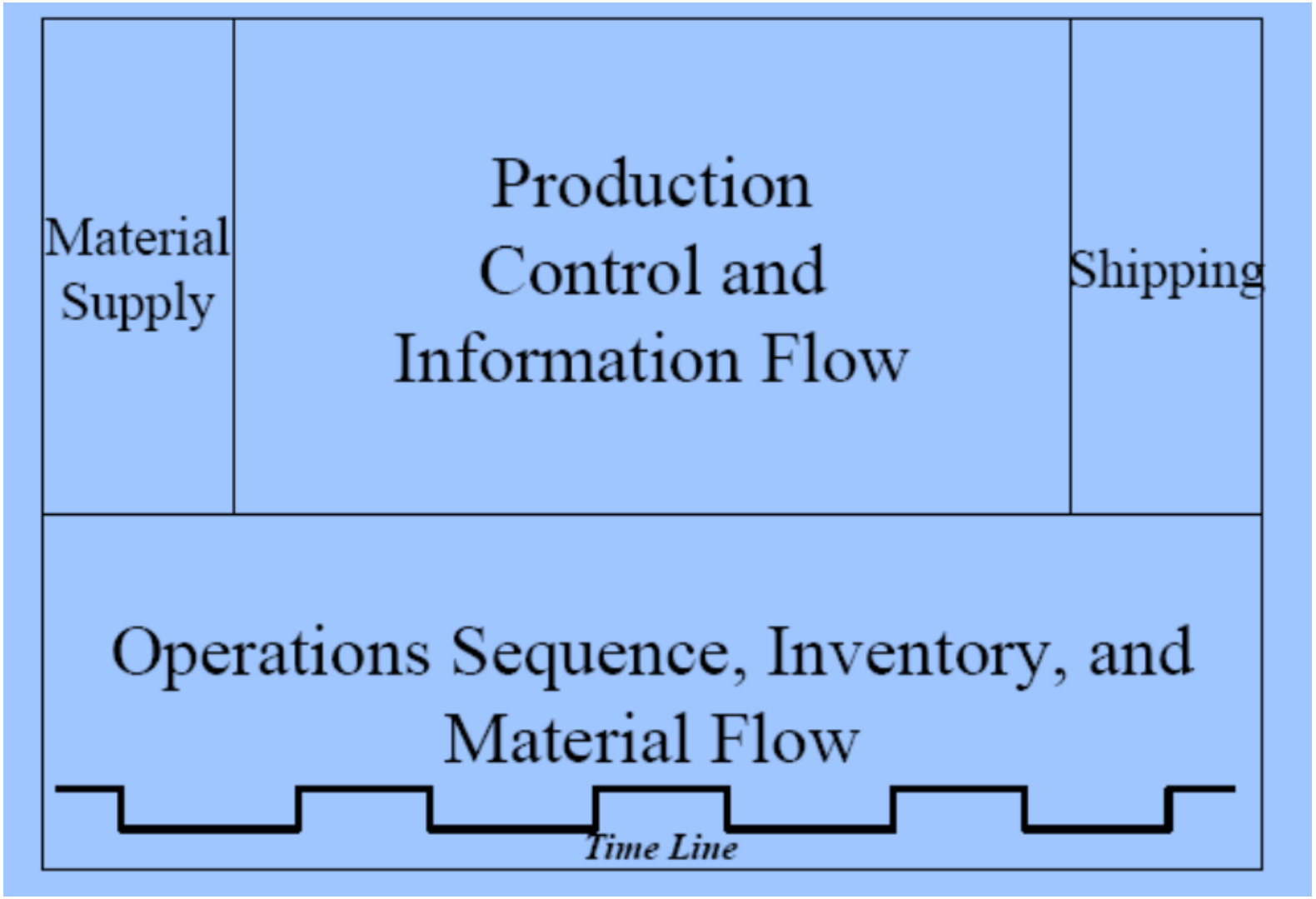
- This technique, allows organisations to quickly assess / map their current situation.

- Then begin to design their future state by removing or reducing the effects of Waste.

VSM

- Maps the flow of work from order to delivery.
- Looks at the big picture not just the parts so helps to optimise the whole
- Includes Process Steps, Material Flows and Information Flows
- Helps identify the Wastes

VSM Map layout



Lean Measurements

Cycle Time (C/T):

- How often a part or product is completed by a process, as timed by observation.
- The time it takes for an operator to go through all of their work elements before they are repeated.

Value adding work (VAW):

- The time of those work elements or processes that, transform the product in a way that the customer is willing to pay for.

Lead Time (L/T):

- The time it takes to move all the way through the value stream from order to delivery.

Takt time:

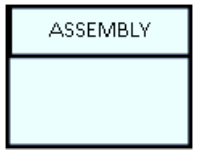
- Is how often you should produce one product, based on the rate of sales to meet customer requirements.

$$\text{Takt time} = \frac{\text{Available working time per day}}{\text{Customer demand rate per day}}$$

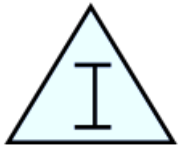
VSM Symbols

Go
See

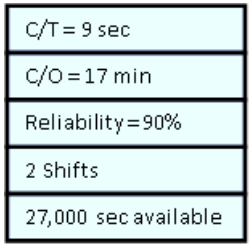
True North Direction
OETIS



Process
Box



Inventory



Data
Box

Customer
Supplier

Shipment

Electronic
information

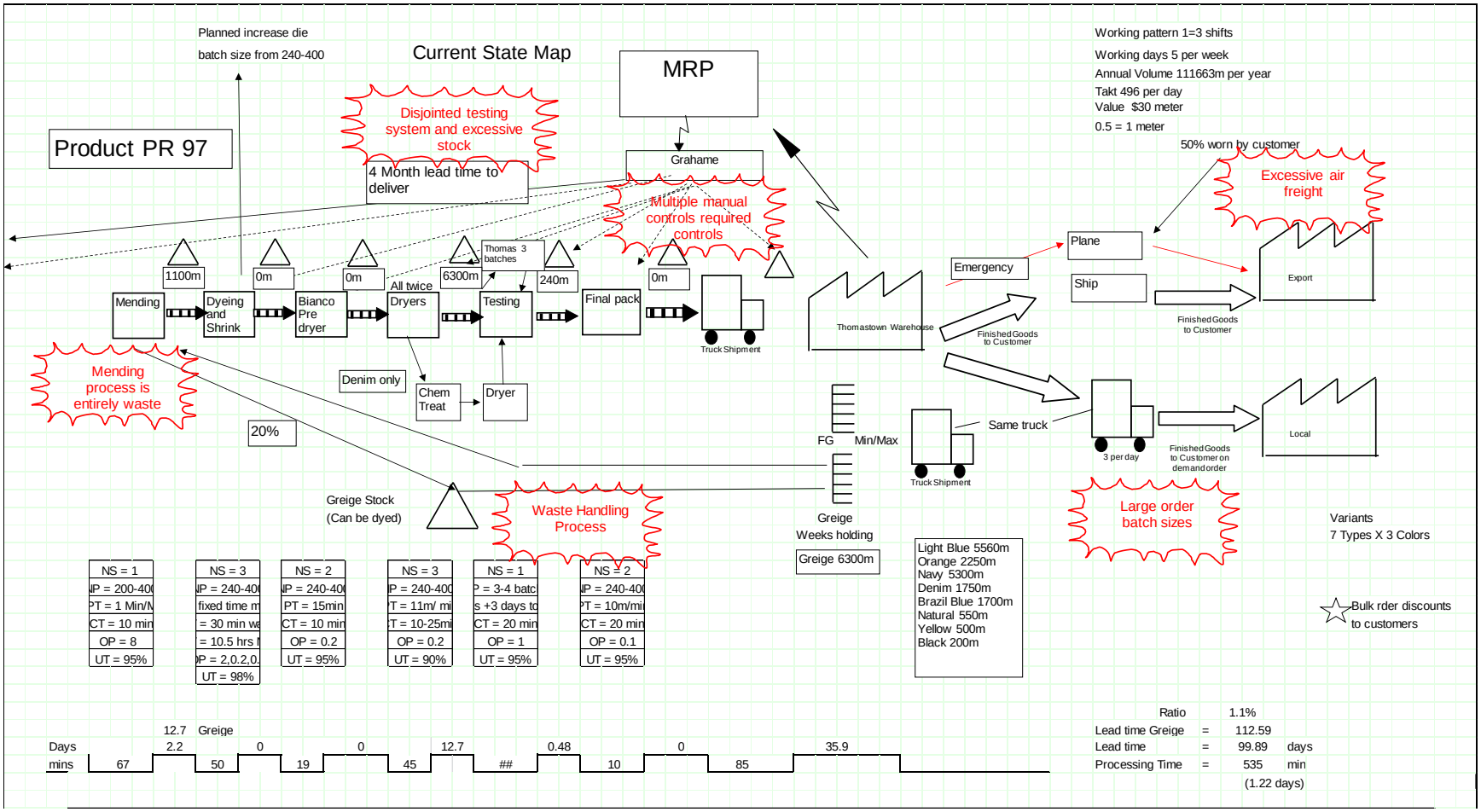
Push
Arrow

Manual
Information

Finished
goods

Angry
Cloud

Current State Example



Preparing the Current State

1. Walk the process
2. Map the high level steps
3. Collect information on each process step
4. Construct the Current State
5. Highlight the Wastes

Remember these Lean Ideals

- One place – everything to do the job
- One piece – complete one, move one
- One pace – time and timing
- One resource – understand demand

When you begin to map the future look to create these

Flow the product
with the Pull of the customer
while pursuing Perfection

The Future State

Helps to:

- Bring together the Lean concepts and techniques
- Forms a blue print for an implementation plan
- Details how your Plant or Process should operate

The Future State Design

Tools to help,

- Spaghetti maps
- Process layouts – cell design
- Pull systems

Pencil, Paper and Eraser

True North Direction
OETIS

What will your future state look like

?

Thank you