# **Mix Processing Maps**

Introduction to eVSM Mix Processing concepts and how to use guide.



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# How to Use this File

This file contains the reading materials and the exercise pages from the course (title on previous page). While the course can only be taken on a computer, this booklet can be useful for note taking and later for refresher training.

This booklet is designed for on screen and print use. For on screen use, we recommend Acrobat Reader with the page display set to "Single Page View". If you are using this booklet on-screen while going through the exercises in eVSM, a second monitor is very helpful.

For hardcopy use, print the file on 8.5x11 or A4, and bind along the long edge.

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# **Mix Processing VSM Concepts**

The eVSM Mix Processing application is for plant level value stream mapping of chemicals, pharma, and food processes. The application includes visuals to represent the flow of materials and information in multi-product value streams and has built in lean analytics for capacity, lead time, human resource, and cost. The maps can leverage eVSM's improvement management framework. In this lesson, we will take a look at the concepts supported by eVSM's Mix Processing stencil.

Before starting this course, you must complete the Fast Draw and the Quick Mix Time courses.



# **Mix Processing VSM Concepts**

# Working with eLeanor

The eLeanor learning system includes a range of useful functions:



# **Important Notes**

- 1. When you complete an exercise, you **MUST** click the "Grade It" button.
- 2. Points are deducted for incorrect attempts.
- 3. If you are stuck on an exercise, check the Hint. If that does not help, go back and review the preceding Readme pages. If you are still unsure, click the Feedback button and ask your question.

# Ideal Setup to work with eLeanor

To run eLeanor, you must have Visio, Excel, eVSM, and an internet connection. See full checklist at <a href="https://evsm.com/eLeanorSetup">https://evsm.com/eLeanorSetup</a> Your PC screen must have a minimum of 1280x720 pixel resolution.

Additionally, you must have a second monitor or a printed copy of the course notes.



### Note

The course notes are included in the downloaded course ZIP file. You can also download a fresh copy by clicking the "See Reference Materials" button in the eLeanor control panel.

# **Mix Processing VSM Concepts**

eVSM's Mix Processing application allows capture of food and chemical manufacturing maps with analysis and visualization of capacity, lead time, and cost and to include all the concepts shown below.



Note that eVSM has a separate application (Mix Manufacturing) and course to support capture of plant level maps for discrete parts and assemblies.

# Mix Processing VSM Primary Mapping Icons

As you learned in the Fast Draw course, many of these icons represent families of shapes. For example, the transport icon can be plane, train, forklift, etc.



### Q. Which ONE of the following visuals does Mix Processing NOT provide for the value stream?

- O A capacity chart that can show bottlenecks and capacity losses
- O A lead time chart
- O A resource balance chart to compare staff allocation to availability
- For online course on O A standard work diagram to show the detailed steps at each station

# **Demand & Net Weight**

Processed products have packaging (bottle, case etc..) and ingredients. eVSM's Mix Processing stencil allows depiction of value streams with production of both ingredients and packaging but with an overall demand specified as the weight of the ingredients only. This is called the Net Weight.

The example below illustrates the customer in the value stream and specifies the customer demand as a Net weight per day

Empty Bottle Weight = 0.5 Kg/Bottle

Contents Weight = 1.5 Kg/Bottle

25 Bottles per Case

Case cardboard Weight = 1Kg



The demand is specified as a NET demand weight over a period. Its important to understand that this is the weight of JUST the contents (the 1.5Kg per bottle) and does NOT include any packaging weight (does not include the empty bottle weight or the case cardboard weight)

In the example above,

Full bottle weight = 0.5 + 1.5 = 2Kg/Bottle

Full Case Weight = 2\*25 + 1 = 51Kg/Case

Number of bottles required per day = 1500 / 1.5 = 1000 bottles per day

# **Activity Capacity Types**

The Mix Processing application allows modeling of many different types of value streams for food and chemical processing. The product may be fluid or solid. The flow may be continuous or discrete. The data may be weight or volume based. It may even be in sheet roller or fiber spool form.

To support this, Mix Processing is equipped with multiple Activity Capacity addons for the Activity Center. The user chooses the type that best characterizes the station operation (Batch, Roll, Weight etc..).



# Notes:

- An Activity Capacity addon is required for each activity center used
- Only one Activity Capacity addon type on each activity may be used at a time
- Activity Capacity addon may be used on different parts of the map
- Time Units may be changed to match the data the user has

The net product customer demand is 1500 Kg / Day. The product is packed in cases that each weigh 100Kg. There are 24 filled bottles in each case and each filled bottle weighs 4Kg. An empty bottle weighs 1 Kg. An empty case weighs 4 Kg



# **Multiple Ingredients & Flow %**

When several ingredients are needed for a process step, you must specify what percent of the incoming weight is represented by each ingredient; this is called the Flow %.

The example below, for every 100Kg of ingredients coming into the process, you need 20Kg of powder and 80 Kg of water. The Flow % values for ingredients must add up to 100. Note that ingredients can be incoming from an upstream process or from inventory.



In this example, if we know how much product needs to come out of the mixer to satisfy the demand from the downstream process, we can calculate how much of each ingredient is needed to go into the mixer based on the Flow % values. eVSM calculates the demand at each step in the value stream by starting with a known customer demand and then working back through each upstream activity and using the Flow % values at each step. The demand calculation takes into account related variables like yield and scrap also.

O,



# Q. If 700 Kg of PreMix are needed per day, how much powder is needed 9 700 Kg/Day 9 210 Kg/Day 300 Kg/Day

# **Ingredients and Packaging**



In some processes that include packaging, there are both incoming ingredients and packaging materials. In this specific situation

The Flow % numbers for JUST the ingredients need to add up to 100%

The Flow % number for any packaging is calculated as

100\* Weight of Packaging Total Weight of Ingredients

For the empty bottles on the left, the Flow % calculation is

 $\frac{100^* \ 0.5}{(0.2+0.8)} = 50\%$ 

Mix Processing calculates the demand for ingredients at the process and uses the Flow % value to understand the demand for bottles coming into the process.



# **Step Yield**



Production processes sometimes involve steps where the incoming weight is changed through the activity. Could be, for example, because of an evaporation aspect to the activity.

In this example, lets say for every 200 Kg of incoming ingredients weight (40 Kg powder, 160 Kg water) the process only yields 150 Kg of product coming out. The step yield at that process would then be  $100^{*}(150/200) = 75\%$ 



Mix	king	
Step Yield	80	%

Q. If the input net weight is 80Kg/Hr into 'mixing', what is output net weight ? weight course course for

() 64 Kg/Hr

() 100 Kg/Hr

() 80 Kg/Hr

() 120 Kg/Hr

# Local "Unit" to measure Output Quantity



Depending on the process it is sometimes convenient to measure in units other than weight. For this we use the 'Type UnitWt' addon for the activity

In this example, it is convenient to measure output in "Bottles". The Unit (local output quantity) is therefore noted as a "Bottle".

The "Weight Per Unit" is the weight of the ingredient per Unit (Bottle) coming OUT of the process step. The capacity is then specified in the new output unit (Bottle/Hr)



# **Max Station capacity**

Process		
Unit =	Bottle	
Max Station Capacity	200	Unit Hr

The Max Station capacity represents the exit rate of the output from the process.

In this example the local output quantity (Unit) is bottles and the process can produce 200 bottles per Hr.

Note that the Max Station capacity value should be the maximum the station is capable off and not the rate that it is currently running.

# **Activity Time**

Proc	cess	
Activity Time	10	Hr Day

The activity time represents the planned production time for a station after lunch, breaks and planned maintenance times are deducted.

The planned production time DOES include changeovers and setups

# OEE

Proc	cess	
Activity Time	10	Hr Day
OEE	90	%

The OEE value represents that percent of planned production time that produces good product after all the station losses due to availability, quality and performance.

So in the example, "good" products are effectively being made for 9 hours per day at the station (10\*0.9)



### You learned:

- That Mix Processing VSM supports mapping of plant level production value streams for food and chemicals
- Some of the key concepts and data on the map that are used to provide value stream analytics



### What's next:

In the next lesson, how to build a value stream model from with the Mix Processing application.

# **Building a Value Stream Model**

This lesson teaches how to build an eVSM Mix model with the Mix Processing application from scratch. A brief overview is followed by descriptions and hands-on exercises to declare a mix of products, draw the flow, specify routings, enter data, check, and solve the model.



# **Building a Value Stream Model**

# **Modeling Process**

You learned how to build an eVSM Mix value stream model in the Mix Time course. If unsure of the process, you should review the notes for lessons 3, 4, and 5. In summary, the process is as follows:



In this lesson, you will practice the above steps to build Mix Processing models.

This is a subset of the main stencil. Useful for new users and for quicker access to

the icons used most frequently

# **Mix Processing Stencils**



### This is the main stencil and contains all icons for Mix Processing

<del>S</del>



The sketch stencils contains only the shapes required to create a flowchart of the value stream. Very useful for capturing wall maps. The sketch shapes have a right-mouse click command to add data shapes if/when data needs to be added to the map

# **Start a Mix Processing Map**

Initiate this page for a Mix Processing map

For online course only

# **Declare Products and Sets with the Mix Manager**

- 1. Initiate this page for a Mix Processing map.
- 2. Use the Mix Manager dialog (not Excel) to enter the following products and sets.
- 3. Exit the Mix Manager dialog and click Draw Sets in the toolbar.
- 4. Click Grade It.

Set Names	Product Names	
Nitrogen fertilizers	Urea Ammonia	5
Phosphorus fertilizers	Diammonium phosphate	]
nine		

# **Edit Products and Sets**

In the Mix Manager dialog, make the following changes. After Editing, click Draw Sets in the toolbar, and then click Grade It in the eLeanor control panel.

### **Current:**

Z000

Customer

1

x.xx

Auto

Day Kg Day

Weight Per Unit

Customer

Demand

Sum Takt Rate

Set Names	Product Names
Set 1	Product 1 Product 2
Set 2	Product 3 Product 4



•	
Set Names	Product Names
Set 1	Product 1
Set 2	Product 5 Product 4
Set 3	Product 2 Product 3

# inecc s1 - Set 1 A0050 1 Set 1 s2 - Set 2 Customer Unit = ? Kg Unit Ρ A0060 Unit

Set 2

p1 - Product 1 (Qty 0) Demand %: 0%

p2 - Product 2 (Qty 0) Demand %: 0%

p3 - Product 3 (Qty 0) Demand %: 0%

p4 - Product 4 (Qty 0) Demand %: 0%

# **Draw and Sequence**

- 1. Initiate the page for a Mix Processing Map
- 2. Draw this Flow with the Sketch Mix Processing stencil. No need to draw the Set centers.
- 3. Add Sequence arrows to show the flow of materials.

4. Grade It



eLeanor | Mix Processing Maps | Lesson 2 | Exercise 5 | page 28

### Adjust the Set gates in the map below to match the image.



# **Specify Routings**

Use Set Gates to configure the routings as shown in the product matrix.

Set ID	Set	Product	Product	Raw	Mix	Treat	Pack	Finished
	Name	ID	Name	Materials				Goods
S1	Set 1	P1	Product 1	Х	Х	Х	Х	Х
S1	Set 1	P2	Product 2	Х	Х	Х	Х	Х
S2	Set 2	Р3	Product 3	Х		Х	Х	Х



# **Routings Exercise**

A0010

Inventory

The Milk and Yogurt sets have already been created in the Mix Manager and are represented by the Set centers on the page.

You need to adjust the set gates to match the product matrix.

Then click Grade It!



# **Data on Sketch Centers**

If the flow has been drawn with a Sketch stencil, then you can automatically turn the flowchart into a data based value stream model. Just right-mouse click on any Sketch Mix Processing shape on the page and use the "Add all data (page)" command.



# Add Data shapes to Sketch



# **Activity Capacity Types**

The Mix Processing application allows modeling of many different types of value streams for food and chemical processing. The product may be fluid or solid. The flow may be continuous or discrete. The data may be weight or volume based. It may even be in sheet roller or fiber spool form.

To support this, Mix Processing is equipped with multiple Activity Capacity add-ons for the Activity Center. The user chooses the type that best characterizes the station operation (Batch, Roll, Weight etc..).



# Notes:

- An Activity Capacity add-on is required for each activity center used
- Only one Activity Capacity add-on type on each activity may be used at a time
- Different Activity Capacity add-ons may be used on different parts of the map
- Time Units may be changed to match the data the user has

# Available ways to specify Activity Capacity



### Type UnitWt

Input production rate per unit item.

Weight Per Unit	x.xx	Kg Unit	$\bigcirc$
Max Unit	N NY	Unit	
Capacity	X.XX	Hr	



Input production rate per batch volume

Batch Volume	x.xx	m3 Btch	
Density	997	Kg m3	
Time per Batch	x.xx	Min Btch	
Batch CO Time	x.xx	Min Btch	
Campaign CO Time	x.xx	Min Cmpn	
Batches per Campaign	1	Btch Cmpn	
Campaign Matl Loss	0	Kg Cmpn	



### Type BatchWt

Input production rate per batch weight

Batch Weight	x.xx	Kg Btch	
Time per Batch	x.xx	Min Btch	
Batch CO Time	x.xx	Min Btch	
Batches per Campaign	1	Btch Cmpn	
Campaign CO Time	x.xx	Min Cmpn	
Campaign Matl Loss	0	Kg Cmpn	



34

### Type Roller

Input production rate for roller based material flow data

Roll Width	x.xx	m	
Roll Length	x.xx	m	$\bigcirc$
Weight Per Unit Area	x.xx	Kg sqm	$\supset$
Roll Feed Speed	x.xx	m Sec	$\supset$
Roll CO Time	x.xx	Min Roll	$\supset$
Rolls per Campaign	хх	Roll Cmpn	$\supset$
Campaign CO Time	хх	Min Cmpn	$\supset$
Campaign Matl Loss	0	Kg Cmpn	$\supset$
Weight Per Roll	Auto	Kg Roll	$\bigcirc$

### Type FlowWT

Input production rate for continuous flow in weight per unit time

Weight Flow	V VV	Kg	
Rate	X.XX	Hr	
Flow Unit	1	Kg	
Weight	L	Unit	

### Type FlowVol

Input production rate for continuous flow in volume per unit time

Donsity	007	Kg	
Density	557	m3	
Volume Flow	<b>V VV</b>	m3	
Rate	X.XX	Hr	
Flow Unit	1	Kg	
Weight	T	Unit	
	Density Volume Flow Rate Flow Unit Weight	Density 997 Volume Flow Rate x.xx Flow Unit Weight 1	Density997Kg m3Volume Flow Ratex.xxm3 HrFlow Unit Weight1Kg Unit



### Type Fiber Spool

Input fiber roll activity to calculate maximum capacity

Fibre Cmpn Length	x.xx	km	
Fibre Cmpn CO	x xx	Sec	
Time		Cmpn	
Fibre Roll	V VV		
Length			
Fibre Roll Feed	<b>V VV</b>	m	
Speed		Sec	
Fibre Roll CO		Min	
Time	x.xx	Roll	
Fibre Roll CO	V VV	m	
Feed Speed	X.XX	Sec	
Roll Speedup	V VV	Soc	
Time		JEC	
Fibre Cmpn	<b>V VV</b>	Soc	
Speedup Time	^.XX	Jec	
Fibre Cmpn	x.xx	m	
Startup Speed		Sec	
Weight Per	× × ×	Kg	
Length	x.xx	km	

100

Hr

Capacity

# **Activity Capacity Add-ons**

Add the Batch Weight (Type BatchWt) capacity add-on to all activities below which do not already have a capacity add-on.



# **Enter Customer Demand**

Enter these demand values as shown in the map below.

- Product 1 = 1000 Kg/Week
- Product 2 = 600 Kg/Week
- Product 3 = 1250 Kg/Week
- Product 4 = 780 Kg/Week



		Week	Year	Week
	Jnits	7	52	168
3	6	Day	Week	Hr

### Enter the Weight per unit and Customer Demand values



# Add Data Values with the List Variables dialog

Use the List Variables dialog to set the number of stations at the Packaging activity to 3.



	Week	Year	Week
Jnits	7	52	168
	Day	Week	Hr

s1 - Set 1

#2

A0040

p1 - Product 1 (Qty 10.00) Demand %: 5

# **Use Flow % to Control ingredient volumes**

The Mix operation needs Powder and Pre-mix ingredients

- Product 1: 10 Kg batch contains 2 Kg powder and 8 Kg pre-Mix
- Product 2: 10 Kg batch contains 4 Kg powder and 6 Kg Pre-Mix



### **Example Map 1**

This example represents the bottling value stream for two products (tablets P1 and P2).

Draw the map shown here including sequence arrows, routings, and data values.



# **Example Map 2**

This example represents the manufacture of 4 products. Product 3 and Product 4 need to go through the Drying process. The other two products do not.

In the exercise on the next page, you will draw the map below from scratch.



### Draw the map shown on the previous page

Include sequence arrows, routings, and data values. No need to Solve.

For your convenience, an image of the previous page is included just above this page.

For online course only.

# Example Map 3

This map will be used in the next exercise.



### Fix any problems reported by the Check function, then Solve this map

For any missing data, see the map on the previous page.



# Example Map 4

This example represents the manufacture of 5 products.

**Product Matrix** 

OpID		Op01	Op02	Op03
Product	Product	Mixing	Decelve	Druing
ID	Name	IVIIXIIIg	Desolve	Drying
P01	Product 1	х	х	х
P02	Product 2	х	х	х
P03	Product 3	х	х	
P04	Product 4	х	х	
P05	Product 5	х		



### **Draw Example Map 4 from Scratch**

- 1. Declare the products and sets in Mix manager
- 2. Draw the Flow
- 3. Add Data
- 4. Solve Map

For your convenience, an image of the previous page is included just above this page.

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### You learned:

- How to declare products and group them into sets.
- How to draw the material flow and specify routings.
- How to add data, check, and solve the map.



### What's next:

In the next lesson, you will learn how to visualize the analyses results on the map, and how to extend the map to cover common what-if scenarios.

# Analyze and Extend the Value Stream Model

In the last lesson you learnt how to how to build a working value stream model with the Quick Mix Processing application.

This lesson covers how to analyze the model for key metrics such us lead time, capacity, cost, etc. You will learn how to visualize the analyses results and how to extend the model for additional calculations.



# Analyze and Extend the Value Stream Model

# **Topics Covered in this Lesson**

- 1. Mix Processing Standard Charts
- 2. General vs Product Specific Inventory
- 3. Mix Processing Add-on Calculations
- 4. What-If Scenario Examples

### **Additional Mix Processing Functions**

There are a number of other functions available in Mix Processing which are not covered in this course. These are covered in the Quick Mix Time course. Download PDF copy at: <a href="https://evsm.com/MixTimeV12">https://evsm.com/MixTimeV12</a>

- Category Function
- Gadgets
- Resource Analyses
- Input data through Excel
- Edit charts

# **Mix Processing Charts**

Mix Processing includes several built in charts.



### **Plotting Charts...**

These charts can only be plotted if the required data is available on the map and after the model has solved successfully.

To plot a chart, simply drop the chart icon on the drawing page, and use the plot command in the right mouse menus of the chart shape. Some charts (e.g. Lead time chart) include a filter to remove unwanted paths from the chart.



For more information on creating new and customizing existing charts, see https://evsm.com/productivity.

### **Capacity Chart**



### **Critical Path**

Which path is the critical path in this model? Plot the Lead Time chart to identify.



### **Capacity Utilization**

Which product is utilizing the majority of the Packaging capacity? Plot the Utilization chart to find out.



Week

5

Units

Year

52

Week

70

# **General vs Product Specific Inventory**



The inventory center allows input of general (total) inventory and product specific inventory.

The two inventory types get added together. So at each inventory center, enter either the general or the product inventory, not both.

### **Examples**



Total Inventory = 250 Kg



Total Inventory = 250 Kg

# Add-ons

Add-ons (the yellow icons in the Quick Mix Processing stencils) facilitate extension of the value stream model to handle additional data and calculations.

The Activity Capacity add-ons (introduced in the previous lesson) are mandatory and you must have one (and only one) of these at every activity center. All the other add-ons are optional. Example uses includes modeling a shared activity, scrap, multi-stations, changeovers, setup, OEE, etc.

Add-ons are attached (glued) to the bottom of the data shapes stack.



# **Add-ons for the Activity Center**

Here are the optional add-ons for the Activity center



### **Activity Changeover**

Activity change over is to show the change over loss used when the capacity type is unit weight



Activity OEE Add-on to calculate the OEE losses



Activity Downtime Downtime in percentage to show the activity is not available



Activity Setup Add-on to show the setup losses



Activity Scrap Add-on to show the scrap percentage



Activity EPEI Add-on to show product intervals



Activity Giveaway

Add-on to show percentage of units that need to be reworked



Activity Rwrk In Add-on to show reworked material coming into activity



Activity NVA Add-on to show non value added % of process lead time



**Activity Time** 

Add-on to use when the available activity time is different from the rest of the value stream time



Activity Rwrk Out Add-on to denote the material requiring rework at the end of activity



Activity Sanitize Time Add-on to show sanitization time

### **Modeling Activity Setups**

Each day, each process undergoes a certain amount of Setup Time (consisting of cleaning, sanitization, preventive maintenance, etc.). The setup times are shown on the right. Add these to the model and then solve the model.

Activity	Setup Time
Make Slurry	60 Min
Stamp Beans	1.5 Hrs
Package	30 Min



	Week	Year	Week
Jnits	5	52	75
5	<b>7</b> Day	Week	Hr

### **Modeling Shared Resources**

The Packaging activity is shared with other value streams and is available for this value stream only 10 hours a day. Can it meet the current customer demand? Modify the model to check.



	Week	Year	Week
Jnits	5	52	75
5	8 Day	Week	Hr

Year

52

Week

Day

Week

75

Hr

### **Increased Demand**

59

If the customer demand for Product 2 increases to 300 Unit/Day, what is the minimum number of hours we need the Packaging activity for?

Change the customer demand and Solve. Try different Available Activity Time values to find the correct answer.



### **Modeling Scrap**

Stamp Beans has a Scrap Rate of 10% and Box Packaging has a Giveaway Rate of 3%. Is the process still capable of meeting demand? How much additional Slurry will be needed per day? Modify the model to check.



	Week	Year	Week
Jnits	5	52	75
6	) Day	Week	Hr

# **Adjusting Capacity**

Is 2 hours overtime enough to relieve the bottle-neck at the Packaging operation?

Modify the model to check.



o <sup>Units</sup>	Week	Year	Week
	5	52	75
	<b>1</b> Day	Week	Hr

### You learned:

- How to work with the Mix Processing standard charts
- How to specify general and product specific inventory
- The scope Mix Processing add-on calculations and how to use them
- Reviewed a number of What-If scenarios the value stream model can be used for

### **Recommended Next Steps:**

- 1. Sketch your first value stream with the Sketch Mix Processing stencil
- 2. Create a value stream model
- 3. Email any questions to support@evsm.com
- 4. Go through the eVSM Improvement Framework course accessed from: https://www.evsm.com/my-skills

### -Useful Links-

eVSM Toolbar Guide eVSM Productivity Guide eVSM Blogs eVSM Support FAQ Download the Latest Version evsm.com/toolbarguide evsm.com/productivity evsm.com/blog evsm.com/support evsm.com/install