This section is a step by step tutorial to build the following map using the Quick Transactional stencil.

Step 1: Start eVSM

1 On your Desktop, click the "Start eVSM" icon.

Recycle Bin

Start eVSM

2 If you see a message like this, you must "Enable" macros.

Microsoft Visio Security Notice

Microsoft Office has identified a potential security concern.

Note: The digital signature is valid, but the signature is from a publisher whom you have not yet chosen to trust.

File Path: C:\Program Files\eVSM\Setup\Solutions\eVSMIcons.vss

Macros have been disabled. Macros might contain viruses or other security hazards. Do not enable this content unless you trust the source of this file.

More information

Show Signature Details

Trust all from publisher | Enable Macros | Disable Macros

4 Click "Trust all from publisher" to avoid the security notice in future.

3 Click to enable macros.

Step 2: Learn eVSM Basics

Open	⊙ Wall Map ⅀Y NUM ▤ List Variables	Tag & Paths	⤳ Sequence ▾ ⁑ Select Paths ⤙ Auto Pipe ▾ ⬚ Auto Tag ▣ Auto Path	Check	⤳ Show Seq. ⤳ Show Pipes ⃠ Clear	Solve	∧ Var Solve
Sketch			Sequence	Validate		Calculate	

Quick Transactional

Sketch Transactional

2 Avoid re-sizing eVSM shapes. Instead grow the drawing page when needed. To resize the page, hold down the "Ctrl" key, and then drag any page edge to the required size. This method works on all four edges of the page.

5 Save your Visio file and then insert a new page via the right-mouse menus on the page-tabs.

VSM   Quick_eVSM

Views
- Gadgets
- Update

Visualize

Kaizen Properties
- Kaizen Export
- Kaizen Import
- Renumber Kaizens

Improve

- Map Copy
- A3 Report

Migrate v7

- Spaghetti
- Event Circle

Extras

Help
- Icon Help
- Icon Search
- Stack Help

Learn

1 eVSM Help resources are available here. Try clicking each help button and learn what it does.

3 Blue icons in the main stencil represent families of shapes. Drag out the Transport icon.

4 Use the shape's right-mouse menus to turn it into a car

TASK LIST

-FIFO-

Step 3: Open the Quick Healthcare stencil

Open	⬛ Wall Map Xy NUM List Variables	Tag & Paths	Sequence ▾ Auto Pipe ▾ Auto Path Select Paths Auto Tag	Check ➕	Show Seq. Show Pipes Clear
Sketch		Sequence		Validate	

Solve · Var Solve · Calculate

Quick Transactional
Sketch Transactional

1 Click the Open button in the toolbar. Select Healthcare and click OK.

2 The Quick and Sketch Transactional stencils will open on the left.

Views	🔢 Gadgets 🔴 Update	Kaizen Properties	✨ Kaizen Export ✨ Kaizen Import ✨ Renumber Kaizens	🖺 Map Copy A3 A3 Report	v7 Migrate	🔲 Spaghetti ⊘ Event Circle	❓ Help	iQ Icon Help 🔍 Icon Search 🗊 Stack Help
Visualize	**Improve**	**Extras**	**Learn**		

Step 4: Initiate the drawing to start your healthcare map

Open	Wall Map	Sequence	Select Paths	Check	Show Seq.	Solve	Var Solve

Sketch — Quick Transactional / Sketch Transactional

Validate — Check, Show Seq., Show Pipes, Clear

Calculate — Solve, Var Solve

Customer Input

Time Center

1 Drag out the two red icons first. This is very important!

Z0030 — all

Incoming Patients

Demand Input	90	Unit / Day

2 Align all new shapes to the grid as you drop them.

3 Enter the demand input here and change the customer name.

4 Enter available hours per day here. This is actual work hours after subtracting break time.

Day
24
Hr

eVSM Data QuickTransactional 7.03.0160.6

Gadgets
Update

Kaizen Export
Kaizen Import
Renumber Kaizens

Map Copy
A3 Report

v7

Spaghetti
Event Circle

Icon Help
Icon Search
Stack Help

TASK LIST

FIFO

Step 5:   Draw the flow and enter data

Sketch
- Open
- Wall Map
- NUM
- List Variables

Sequence
- Tag & Paths
- Sequence
- Auto Pipe
- Auto Path
- Select Paths
- Auto Tag

Validate
- Check
- Show Seq.
- Show Pipes
- Clear

Calculate
- Solve
- Var Solve

Quick Transactional

Sketch Transactional

- Output to Customer
- Queue Center
- Decision Center
- Activity Center
- Wait Center

Z0010 — Incoming Patients (all)

Demand Input	90	Unit / Day

1 Complete the admission process as shown, including annotation and data values.

A0270 — Admit Queue (Q) (1)

Queue	4	Unit

A0250 — Triage (1)

Process Time	20	Min
Delay Time	5	Min

A0240 — Triage Wait (1)

Wait	9	Min

A0260 — Admit or Fast Track (1)

Day
24
Hr

eVSM Data
QuickTransactional
7.03.0160.6

A0280		1
Admission		
Process Time	15	Min
Delay Time	4	Min

Z0020		1
Patient Admitted		
Demand Output	Auto	Unit Day

2 Do not change any blue "Auto" values. These will get calculated automatically later.

Step 6: Complete the flow and enter data

Ribbon toolbar:

- Open | Wall Map | NUM | List Variables — Sketch
- Tag & Paths | Sequence | Auto Pipe | Auto Path | Select Paths | Auto Tag — Sequence
- Check | Show Seq. | Show Pipes | Clear — Validate
- Solve | Var Solve — Calculate

Quick Transactional
Sketch Transactional

Output to Customer

Activity Center

Wait Center

Z0010 — all

Incoming Patients

| Demand Input | 90 | Unit Day |

A0050 — Q — 1

Admit Queue

| Queue | 4 | Unit |

A0020 — 1

Triage Wait

| Wait | 9 | Min |

A0030 — 1

Triage

| Process Time | 20 | Min |
| Delay Time | 5 | Min |

A0040 — 1

Admit or Fast Track

A0080 — 1

Fast Track Wait

| Wait | 15 | Min |

Day
24

eVSM Data QuickTransactional 7.03.0180.6

| Hr |

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Learn

A0060		1
Admission		
Process Time	15	Min
Delay Time	4	Min

Z0020		1
Patient Admitted		
Demand Output	Auto	Unit / Day

A0090		1
Fast Track Treatment		
Process Time	40	Min
Delay Time	15	Min

Z0100		1
Patient Discharged		
Demand Output	Auto	Unit / Day

Step 7: Add Arrows from Main Stencil

	Wall Map	Sequence ▾	Select Paths		Show Seq.		Var Solve
Open	NUM	Auto Pipe ▾	Auto Tag	Check	Show Pipes	Solve	
	List Variables	Auto Path			Clear		
	Sketch	Tag & Paths	Sequence		Validate	Calculate	

Quick Transactional
Sketch Transactional

Z0010 | **all**

Incoming Patients

Demand Input	90	Unit / Day

2 Glue all arrows at both ends

A0050 Q **1**

Admit Queue

Queue	4	Unit

A0030 | **1**

Triage

Process Time	20	Min
Delay Time	5	Min

A0020 **1**

Triage Wait

Wait	9	Min

A0040 **1**

Admit or Fast Track

A0080 **1**

Fast Track Wait

Wait	15	Min

Day
24
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Visualize
Improve
Extras
Learn

A0060		1
Admission		
Process Time	15	Min
Delay Time	4	Min

Z0020		1
Patient Admitted		
Demand Output	Auto	Unit Day

1 Arrow shapes are located in the eVSM Icons Stencil on the right.

A0090		1
Fast Track Treatment		
Process Time	40	Min
Delay Time	15	Min

Z0100		1
Patient Discharged		
Demand Output	Auto	Unit Day

Step 8:   Sequence Arrows

Open | Wall Map | NUM | List Variables
Sketch

Tag & Paths | Sequence | Auto Pipes | Auto Path | Select Paths | Auto Tag
Sequence

Check | Show Seq. | Show Pipes | Clear
Validate

Solve | Var Solve
Calculate

Quick Transactional
Sketch Transactional

2 Click the Sequence button.

1 To sequence the first path on the map, hold down the Shift key and select the green shapes in the order shown here.

Z0010 | all

A

Incoming Patients

| Demand Input | 90 | Unit/Day |

A0050

E

Add Queue

| Queue | 4 | Unit |

A0030 | 1

C

| Process Time | 20 | Min |
| Delay Time | 5 | Min |

A0020 | 1

B

Triage Wait

| Wait | 9 | Min |

A0040

Add Fast

D

| 1 |

A0080 | 1

Fast Track Wait

| Wait | 15 | Min |

| Day |
| 24 |
| Hr |

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A0060		1
A**F**n		
Process Time	15	Min
Delay Time	4	Min

Z0020		1
Patie **G** itted		
Demand Output	Auto	Unit Day

A0090		1
Fast Track Treatment		
Process Time	40	Min
Delay Time	15	Min

Z0100		1
Patient Discharged		
Demand Output	Auto	Unit Day

Step 9: Sequence Arrows for Second Path

Sketch
- Open
- Wall Map
- NUM
- List Variables

Sequence
- Tag & Paths
- Sequence
- Auto Pipe
- Auto Path
- Select Paths
- Auto Tag

Validate
- Check
- Show Seq.
- Show Pipes
- Clear

Calculate
- Solve
- Var Solve

Quick Transactional

Sketch Transactional

Z0010

all

Incoming Patients

Demand Input	90	Unit Day

Route Output %	100	%

1 These Sequence arrows show the first path.

A0050 Q

Admit Queue

Queue	4	Unit

Route Output %	100	%

Route Output %	100	%

A0030 1

Triage

Process Time	20	Min
Delay Time	5	Min

A0020 1

Triage Wait

Wait	9	Min

A0040 Ad...ast **A** 1

A0080 **B** 1

Fast Track Wait

Wait	15	Min

2 For the second path, start again, hold the Shift key and select the green shapes A to D and then click the Sequence button.

Day
24
Hr

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Route Output % | 100 | %

Route Output % | 100 | %

A0060 | 1

Admission

| Process Time | 15 | Min |
| Delay Time | 4 | Min |

Z0020 | 1

Patient Admitted

| Demand Output | Auto | Unit Day |

A0090 | 1

Fast Tr　eatment

C

| Process Time | 40 | Min |
| Delay Time | 15 | Min |

Z0100 | 1

Patient　arged

D

| Demand Output | Auto | Unit Day |

Step 10: Use Auto Path to Generate Path ID's based on Sequence Arrows

Ribbon toolbar:

- Open
- Wall Map
- NUM
- List Variables
- Sketch

- Tag & Paths
- Sequence
- Auto Pipe
- Auto Path
- Select Paths
- Auto Tag
- Sequence

- Check
- Show Seq.
- Show Pipes
- Clear
- Valid...

- Solve
- Var Solve
- Calculate

Quick Transactional
Sketch Transactional

1 Click Auto Path to automatically generate Path numbers based on Sequence arrows.

2 Click Auto Tag to automatically re-number the tags in correct sequence based on Sequence arrows.

4 Enter the Route Output %.

5 Enter the other Route Output %.

3 Note how some centers are on one path only and some on both.

Incoming Patients		
Demand Input	90	Unit/Day

| Route Output % | 100 | % |

A0040	Q	1
Admit Queue		
Queue	4	Unit

| Route Output % | 30 | % |

| Route Output % | 100 | % |

| Route Output % | 70 | % |

| Route Output % | 100 | % |

A0020		2	1
Triage			
Process Time	20	Min	
Delay Time	5	Min	

A0010	🕐	2	1
Triage Wait			
Wait	9	Min	

A0030	Admit or Fast Track	2	1

A0060	🕐	2
Fast Track Wait		
Wait	15	Min

Day
24
Hr

eVSM Data
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Route Output % 100 %

Route Output % 100 %

A0050 · 1

Admission

| Process Time | 15 | Min |
| Delay Time | 4 | Min |

Z0020 · 1

Patient Admitted

| Demand Output | Auto | Unit Day |

Route Output % 100 %

Route Output % 100 %

A0070 · 2

Fast Track Treatment

| Process Time | 40 | Min |
| Delay Time | 15 | Min |

Z0030 · 2

Patient Discharged

| Demand Output | Auto | Unit Day |

Step 11: Perform Calculations

Open	Wall Map, NUM, List Variables	Tag & Paths	Sequence, Auto Pipe, Auto Path, Select Paths, Auto Tag	Check	Show Seq., Show Pipes, Clear
Sketch			Sequence	Validate	Calculate

Var Solve / Solve

Quick Transactional

Sketch Transactional

Z0010 all

Incoming Patients

Demand Input	90	Unit Day

Route Output %	100	%

3 Click the "Check" button and fix any problems flagged.

4 Click the "Solve" button to calculate.

A0050 Q 1

Admit Queue

Queue	4	Unit

Route Output %	30	%

Route Output %	100	%

A0030 2 1

Triage

Process Time	20	Min
Delay Time	5	Min

Route Output %	100	%

Route Output %	70	%

A0020 2 1

Triage Wait

Wait	9	Min

A0040 2 1

Admit or Fast Track

A0080 2

Fast Track Wait

Wait	15	Min

Day
24
Hr

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Route Output % 100 %

Route Output % 100 %

A0060 | 1

Admission

| Process Time | 15 | Min |
| Delay Time | 4 | Min |

Z0020 | 1

Patient Admitted

| Demand Output | Auto | Unit Day |

Z1000 | 1

Summary		
Lead Time	Auto	Hr
Total Value Added	Auto	Min
VA %	Auto	%
First Pass C&A	Auto	%

1 Drag out two Time Summaries.

2 Change this Time Summary to path 2 by double-clicking on the path number.

Route Output % 100 %

Route Output % 100 %

A0090 | 2

Fast Track Treatment

| Process Time | 40 | Min |
| Delay Time | 15 | Min |

Z0030 | 2

Patient Discharged

| Demand Output | Auto | Unit Day |

Z0120 | 2

Summary		
Lead Time	Auto	Hr
Total Value Added	Auto	Min
VA %	Auto	%
First Pass C&A	Auto	%

Step 12: Adding Resource Centers

Open | Wall Map | NUM | List Variables | Sketch
Tag & Paths | Sequence | Auto Pipe | Select Paths | Auto Tag | Auto Path | Sequence
Check | Show Seq. | Show Pipes | Clear | Validate
Solve | Var Solve | Calculate

Quick Transactional
Sketch Transactional

Z0010 — Incoming Patients | all

| Demand Input | 90 | Unit / Day |

2 Drag out the Resource Center and Resource Pipe.

Resource Center

Resource Pipe

Route Output % | 0 | %

A0020 — Triage Wait | 2 | 1

| Wait | 9 | Min |

Route Output % | 100 | %

A0030 — Triage | 2 | 1

| Process Time | 20 | Min |
| Delay Time | 5 | Min |

Route Output % | 100 | %

A0040 — Admit or Fast Track | 2 | 1

Route Output % | 30 | %

A0050 — Admit Queue | Q | 1

| Queue | 4 | Unit |

Resource PT | 7 | Min / Unit |

Route Output % | 70 | %

A0080 — Fast Track Wait | 2 |

| Wait | 15 | Min |

Resource PT | 25 | Min / Unit |

Resource PT | 20 | Min / Unit |

A0130 — RN | all

Resource Quantity	7	RQ
Resource Time	12	Hr / Day
Efficiency	75	%

4 Enter the data on the resource center and each resource pipe.

| Day |
| 24 |
| Hr |

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Route Output % | 100 | %

Route Output % | 100 | %

A0060 | 1

Admission

| Process Time | 15 | Min |
| Delay Time | 4 | Min |

Z0020 | 1

Patient Admitted

| Demand Output | 27.0 | Unit/Day |

Z1000 | 1

Summary		
Lead Time	4.44	Hr
Total Value Added	35.00	Min
VA %	13.14	%
First Pass C&A	100.00	%

3 Glue the Resource Pipe to the Tags of the centers.

1 The calculated values have been solved.

Route Output % | 100 | %

Route Output % | 100 | %

A0090 | 2

Fast Track Treatment

| Process Time | 40 | Min |
| Delay Time | 15 | Min |

Z0030 | 2

Patient Discharged

| Demand Output | 63.0 | Unit/Day |

Z0120 | 2

Summary		
Lead Time	1.73	Hr
Total Value Added	60.00	Min
VA %	57.69	%
First Pass C&A	100.00	%

Resource PT | 20 | Min/Unit

A0140 | all

MD

Resource Quantity	4	RQ
Resource Time	6	Hr/Day
Efficiency	95	%

Step 13:   Unhide Resource Utilization

	Wall Map			Sequence ▾	Select Paths			Show Seq.			Var Solve
Open	NUM		Tag & Paths	Auto Pipe ▾	Auto Tag	Check	Show Pipes	Solve		
	List Variables			Auto Path			Clear			
	Sketch			Sequence			Validate			Calculate

Quick Transactional

Variable Visibility

Center/Addon Name	Variable Name(s)	Visibility
+ Transport Center		
− Resource Center	− Resource Quantity	☑
	Resource Time	☑
	Efficiency	☑
	NVA Utilization	☐
	Required Quantity	☐
	Resource Rate	☐
	Available Resource Time	☐
	Effective Resource Time	☐
	Resource Usage Total	☐
	Resource Utilization	☑
	VA Utilization	☐
− Resource Pipe	− Resource PT	☑
	Resource PT NVA	☐
	Query Resource PT	☐
	Resource Usage	☐
	Resource Usage VA	☐

Default	Hide Auto	Hide All	Show All	Cancel	OK

2 Check the arrow for Resource Utilization. Click OK to apply visibility changes.

A0050 Q 1
Admit Queue
Queue	4	Unit

Route Output % 30 %

mit or Fast Track 2 1

A0080 2
Fast Track Wait
Wait	15	Min

Resource PT	25	Min Unit

A0130 all

RN
Resource Quantity	7	RQ
Resource Time	12	Hr Day
Efficiency	75	%
Resource Utilization	Auto	%

Day
24
Hr

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Route Output % 100 %

Route Output % 100 %

A0060 | 1

Admission

Min

Delay Time | 4 | Min

Z0020 | 1

Patient Admitted

Demand Output | 27.0 | Unit/Day

Z1000 | 1

Summary

Lead Time	4.44	Hr
Total Value Added	35.00	Min
VA %	13.14	%
First Pass C&A	100.00	%

1 Click the Views button to turn the visibility on for Resource Utilization.

Route Output % 100 %

Route Output % 100 %

A0090 | 2

Fast Track Treatment

Process Time | 40 | Min
Delay Time | 15 | Min

Z0030 | 2

Patient Discharged

Demand Output | 63.0 | Unit/Day

Z0120 | 2

Summary

Lead Time	1.73	Hr
Total Value Added	60.00	Min
VA %	57.69	%
First Pass C&A	100.00	%

Resource PT | 20 | Min/Unit

A0140 | all

MD

Resource Quantity	4	RQ
Resource Time	6	Hr/Day
Efficiency	95	%
Resource Utilization	Auto	%

3 Resource Utilization is now visible.

Step 14: Solve again

Ribbon groups:
- Sketch: Open, Wall Map, NUM, List Variables
- Sequence: Tag & Paths, Sequence, Auto Pipe, Auto Path, Select Paths, Auto Tag
- Validate: Check, Show Seq., Show Pipes, Clear
- Calculate: Solve, Var Solve

Quick Transactional
Sketch Transactional

1 Click the Solve button to update all of the changes made.

Z0010 all
Incoming Patients
| Demand Input | 90 | Unit/Day |

| Route Output % | 100 | % |

A0050 Q 1
Admit Queue
| Queue | 4 | Unit |

| Route Output % | 30 | % |

| Resource PT | 7 | Min/Unit |

| Route Output % | 100 | % |

| Route Output % | 100 | % |

| Route Output % | 70 | % |

A0020 2 1
Triage Wait
| Wait | 9 | Min |

A0030 2 1
Triage
| Process Time | 20 | Min |
| Delay Time | 5 | Min |

A0040 2 1
Admit or Fast Track

A0080 2
Fast Track Wait
| Wait | 15 | Min |

| Resource PT | 25 | Min/Unit |

| Resource PT | 20 | Min/Unit |

A0130 all
RN
Resource Quantity	7	RQ
Resource Time	12	Hr/Day
Efficiency	75	%
Resource Utilization	94.3	%

| Day |
| 24 |
| eVSM Data QuickTransactional 7.03.0180.6 | Hr |

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Route Output % | 100 | %

Route Output % | 100 | %

A0060 | 1

Admission

| Process Time | 15 | Min |
| Delay Time | 4 | Min |

Z0020 | 1

Patient Admitted

| Demand Output | 27.0 | Unit/Day |

Z1000 | 1

Summary		
Lead Time	4.44	Hr
Total Value Added	35.00	Min
VA %	13.14	%
First Pass C&A	100.00	%

Route Output % | 100 | %

Route Output % | 100 | %

A0090 | 2

Fast Track Treatment

| Process Time | 40 | Min |
| Delay Time | 15 | Min |

Resource PT | 20 | Min/Unit

Z0030 | 2

Patient Discharged

| Demand Output | 63.0 | Unit/Day |

Z0120 | 2

Summary		
Lead Time	1.73	Hr
Total Value Added	60.00	Min
VA %	57.69	%
First Pass C&A	100.00	%

A0140 | all

MD

Resource Quantity	4	RQ
Resource Time	6	Hr/Day
Efficiency	95	%
Resource Utilization	92.1	%

2 Check and make sure your calculated values are the same.

Step 15: Show the Timeline

Variable Visibility

Center/Addon Name	Variable Name(s)	Visibility
Customer Input	Demand Input	☑
	Start Time	☐
	End Time	☐
	Duration	☐
Output to Customer	Demand Output	☑
	Start Time	☐
	End Time	☐
	Duration	☐
	Rolling C&A	☐
	Cumulative Cost	☐
Activity Center	Process Time	☑
	Delay Time	☑
	Non Value Added	☑
	Value Added	☑
	Activity Cost	☐
	Cumulative Cost	☐
	Effective Process Time	☐

| Default | Hide Auto | Hide All | Show All | Cancel | OK |

2 Check the arrows for NVA and VA to turn visibility on. Click OK to apply visibility changes.

Var Solve
Solve
Calculate

A0050 Q 1
Admit Queue
Queue 4 Unit

213.33 Min

ute 30
Route Output % 70 %

mit or Fast Track 2 1

A0080 2
Fast Track Wait
Wait 15 Min

Resource PT 20 Min/Unit

Resource PT 25 Min/Unit

9.00 Min   5.00 Min   15.00 Min

20.00 Min

A0130 all

RN
Resource Quantity	7	RQ
Resource Time	12	Hr/Day
Efficiency	75	%
Resource Utilization	94.3	%

Day
24
Hr

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Visualize | Improve | Extras | Learn

Route Output % | 100 | %

Route Output % | 100 | %

1 Click the Views button to turn the visibility for the Timeline on.

A0060 | 1

Admission

| | 15 | Min |
| Delay Time | 4 | Min |

Z0020 | 1

Patient Admitted

| Demand Output | 27.0 | Unit/Day |

Z1000 | 1

Summary		
Lead Time	4.44	Hr
Total Value Added	35.00	Min
VA %	13.14	%
First Pass C&A	100.00	%

| 4.00 | Min |
| 15.00 | Min |

Route Output % | 100 | %

Route Output % | 100 | %

A0090 | 2

Fast Track Treatment

| Process Time | 40 | Min |
| Delay Time | 15 | Min |

Z0030 | 2

Patient Discharged

| Demand Output | 63.0 | Unit/Day |

Z0120 | 2

Summary		
Lead Time	1.73	Hr
Total Value Added	60.00	Min
VA %	57.69	%
First Pass C&A	100.00	%

Resource PT | 20 | Min/Unit

| 15.00 | Min |
| 40.00 | Min |

3 Now the Timeline is visible.

A0140 | all

MD

Resource Quantity	4	RQ
Resource Time	6	Hr/Day
Efficiency	95	%
Resource Utilization	92.1	%

Step 16: Adjust the Timeline

Open — Wall Map, NUM, List Variables — Sketch

Tag & Paths — Sequence, Auto Pipe, Auto Path, Select Paths, Auto Tag — Sequence

Check — Show Seq., Show Pipes, Clear — Validate

Solve — Var Solve — Calculate

Z0010 — all

Incoming Patients

Demand Input	90	Unit/Day

Route Output %	100	%

A0050 — Q — 1

Admit Queue

Queue	4	Unit

Route Output %	30	%

213.33 Min

Resource PT	7	Min/Unit

Route Output %	100	%

A0030 — 2 1

Triage

Process Time	20	Min
Delay Time	5	Min

Resource PT	20	Min/Unit

Route Output %	100	%

A0020 — 2 1

Triage Wait

Wait	9	Min

A0040 — 2 1

Admit or Fast Track

Route Output %	70	%

A0080 — 2

Fast Track Wait

Wait	15	Min

Resource PT	25	Min/Unit

9.00 Min   5.00 Min

20.00 Min

15.00 Min

1 If your Timeline is not aligned, right click on a VA or NVA shape and select "Align Timeline"

A0130 — all

RN

Resource Quantity	7	RQ
Resource Time	12	Hr/Day
Efficiency	75	%
Resource Utilization	94.3	%

Day
24
Hr

eVSM Data
QuickTransa
ctional
7.03.0180.6

Visualize | **Improve** | **Extras** | **Learn**

Views — Gadgets, Update
Kaizen Properties — Kaizen Export, Kaizen Import, Renumber Kaizens
Map Copy, A3 Report
Migrate — Spaghetti, Event Circle
Help — Icon Help, Icon Search, Stack Help

Route Output % 100 %

Route Output % 100 %

A0060 1

Admission

Process Time	15	Min
Delay Time	4	Min

Z0020 1

Patient Admitted

Demand Output	27.0	Unit/Day

Z1000 1

Summary		
Lead Time	4.44	Hr
Total Value Added	35.00	Min
VA %	13.14	%
First Pass C&A	100.00	%

4.00 Min
15.00 Min

Route Output % 100 %

Route Output % 100 %

A0090 2

Fast Track Treatment

Process Time	40	Min
Delay Time	15	Min

Z0030 2

Patient Discharged

Demand Output	63.0	Unit/Day

Z0120 2

Summary		
Lead Time	1.73	Hr
Total Value Added	60.00	Min
VA %	57.69	%
First Pass C&A	100.00	%

Resource PT 20 Min/Unit

15.00 Min
40.00 Min

A0140 all

MD

Resource Quantity	4	RQ
Resource Time	6	Hr/Day
Efficiency	95	%
Resource Utilization	92.1	%

2 If the Timeline still isn't in the right place, right click on a VA or NVA shape and choose "Select Timeline," then move the Timeline all at once.

Step 17: Lead Time Chart

Open — Wall Map, NUM, List Variables — *Sketch*

Tag & Paths — Sequence, Auto Pipe, Auto Path, Select Paths, Auto Tag — *Sequence*

Check — Show Seq., Show Pipes, Clear — *Validate*

Solve — Var Solve — *Calculate*

Z0010 — all

Incoming Patients

Demand Input	90	Unit / Day

Route Output %	100	%

A0050 — Q — 1

Admit Queue

Queue	4	Unit

Route Output %	30	%

213.33 Min

Resource PT	7	Min / Unit

Route Output %	100	%

Route Output %	100	%

Route Output %	70	%

A0030 — 2 | 1

Triage

Process Time	20	Min
Delay Time	5	Min

A0020 — 2 | 1

Triage Wait

Wait	9	Min

A0040 — Admit or Fast Track — 2 | 1

A0080 — 2

Fast Track Wait

Wait	15	Min

Resource PT	25	Min / Unit

	20	Min / Unit

1 Drag out the Lead Time Chart, right click and select 'Plot Chart'.

9.00 Min   5.00 Min   15.00 Min

Lead Time Chart

Lead Time Chart

Day
24
Hr

eVSM Data QuickTransactional 7.03.0160.6

Lead Time Chart

0   0.5   1   1.5   2   2.5

A0020 Triage Wait | A0030 Triage | A0050 Admit Queue

4.44

A0020 Triage Wait | A0030 Triage | A0080 Fast Track Wait | A0090 Fast Track Treatment — 2

1.73

Views | Gadgets | Update | Kaizen Properties | Kaizen Export | Kaizen Import | Renumber Kaizens | Map Copy | A3 Report | Migrate | Spaghetti | Event Circle | Help | Icon Help | Icon Search | Stack Help

Visualize | Improve | Extras | Learn

Route Output % 100 %

Route Output % 100 %

A0060 | 1

Admission

| Process Time | 15 | Min |
| Delay Time | 4 | Min |

Z0020 | 1

Patient Admitted

| Demand Output | 27.0 | Unit/Day |

Z1000 | 1

Summary		
Lead Time	4.44	Hr
Total Value Added	35.00	Min
VA %	13.14	%
First Pass C&A	100.00	%

4.00 Min

15.00 Min

Route Output % 100 %

Route Output % 100 %

A0090 | 2

Fast Track Treatment

| Process Time | 40 | Min |
| Delay Time | 15 | Min |

Resource PT | 20 | Min/Unit

Z0030 | 2

Patient Discharged

| Demand Output | 63.0 | Unit/Day |

Z0120 | 2

Summary		
Lead Time	1.73	Hr
Total Value Added	60.00	Min
VA %	57.69	%
First Pass C&A	100.00	%

15.00 Min

Hr

3   3.5   4   4.5

A0060 Admission

1

Legend

■ Non Value Added

■ Value Added

Step 18:   Resource Balance Chart

Quick Transactional

Sketch Transactional

Incoming Patients (Z0010) — all

| Demand Input | 90 | Unit/Day |

Route Output % | 100 | %

Admit Queue (A0050) — Q — 1

| Queue | 4 | Unit |

Route Output % | 30 | %

213.33 Min

Resource PT | 7 | Min/Unit

Route Output % | 100 | %

Route Output % | 100 | %

Route Output % | 70 | %

Triage (A0030) — 2 | 1

| Process Time | 20 | Min |
| Delay Time | 5 | Min |

Resource PT | 20 | Min/Unit

Triage Wait (A0020) — 2 | 1

| Wait | 9 | Min |

Admit or Fast Track (A0040) — 2 | 1

Fast Track Wait (A0080) — 2

| Wait | 15 | Min |

Resource PT | 25 | Min/Unit

Resource Balance Chart

9.00 Min

15.00 Min

1 Drag out the Resource Balance Chart, right click and select 'Plot Chart'.

Resource Balance

RN (A0130) — all

Resource Quantity	7	RQ
Resource Time	12	Hr/Day
Efficiency	75	%
Resource Utilization	94.3	%

| Day |
| 24 |
| Hr |

eVSM Data QuickTransactional 7.03.0180.6

Views

Gadgets
Update

Kaizen Properties

Kaizen Export
Kaizen Import
Renumber Kaizens

Map Copy
A3 Report

Migrate

Spaghetti
Event Circle

Help

Icon Help
Icon Search
Stack Help

Visualize | Improve | Extras | Learn

Route Output % 100 %

Route Output % 100 %

A0060 1

Admission

| Process Time | 15 | Min |
| Delay Time | 4 | Min |

Z0020 1

Patient Admitted

| Demand Output | 27.0 | Unit/Day |

Z1000 1

Summary		
Lead Time	4.44	Hr
Total Value Added	35.00	Min
VA %	13.14	%
First Pass C&A	100.00	%

4.00	Min
15.00	Min

Route Output % 100 %

Route Output % 100 %

A0090 2

Fast T...

Process T...
Delay Ti...

Z0030 2

...t Discharged

| ...d ...t | 63.0 | Unit/Day |

Z0120 2

Summary		
Lead Time	1.73	Hr
Total Value Added	60.00	Min
VA %	57.69	%
First Pass C&A	100.00	%

2 The Resource Balance Chart plots how each resource is being used and if it is over-utilized.

Resource PT 20 Min/Unit

15.00	Min
40.00	Min

A0140 all

MD

Resource Quantity	4	RQ
Resource Time	6	Hr/Day
Efficiency	95	%
Resource Utilization	92.1	%

Resource Balance Chart

(Min/Day)

- Fast Track Treatment
- Admission
- Triage
- Fast Track Treatment

A0130 — RN
A0140 — MD

- - - Effective Resource Time
▢ Resource Usage VA

Legend