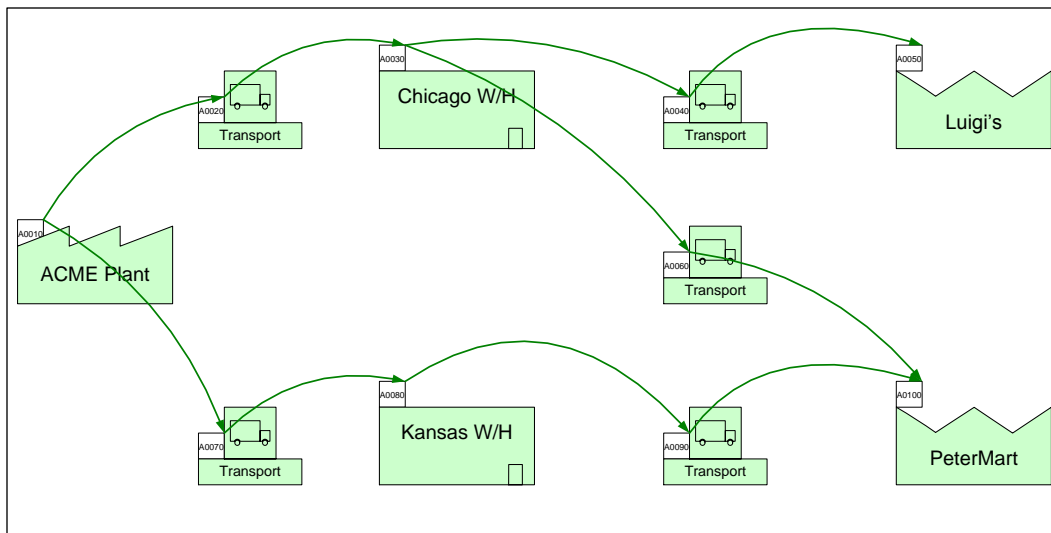


Quick Processing Network Tutorial

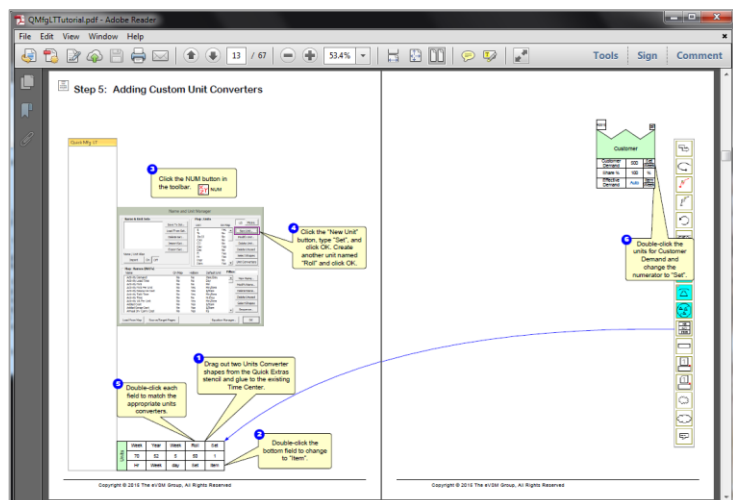
This tutorial will guide you through the steps to draw a simple map, perform common calculations, and plot charts using the Quick Processing Network stencil.



Viewing/printing eVSM Tutorial:

This tutorial is designed for two page layout. If printing, you will need double-sided print.

For on-screen viewing, save the PDF file to your PC and then open it in Acrobat Reader (not in a web browser). In the Acrobat menus, click "View>Page Display", make sure "Show Cover Page in Two Page View" is checked and then select "Two Page View".



Step 1: Start eVSM

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

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

3 Click to enable macros.

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

Recycle Bin

Start eVSM

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

Step 2: Learn eVSM Basics

Quick Processing Network

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.

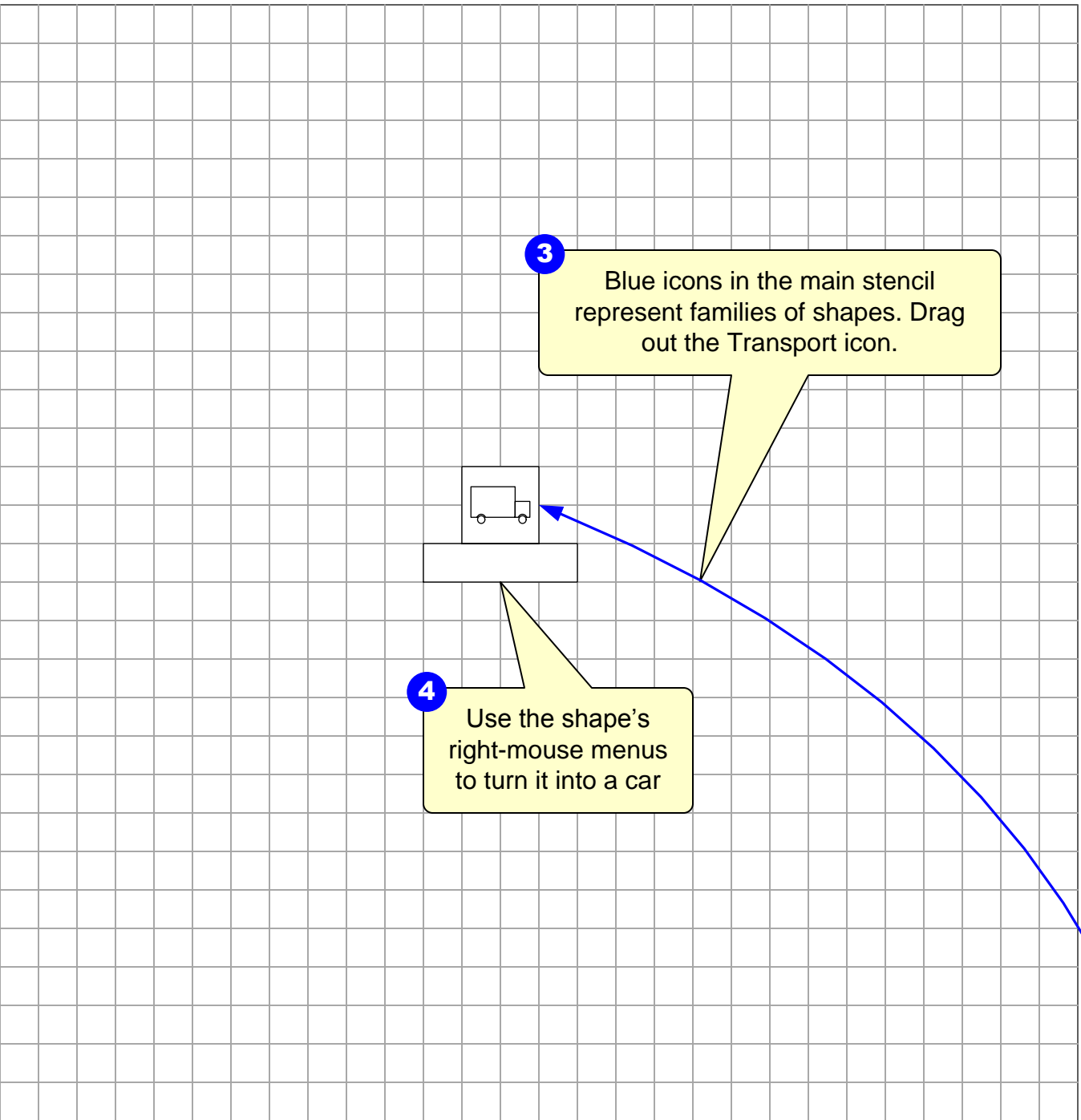
5

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

VSM

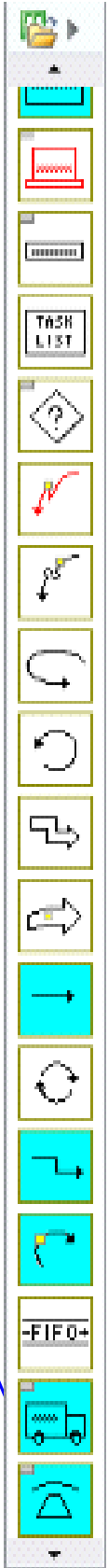
Quick_eVSM

1 eVSM Help resources are available in the Learn module. Hover over each one to see what they do.

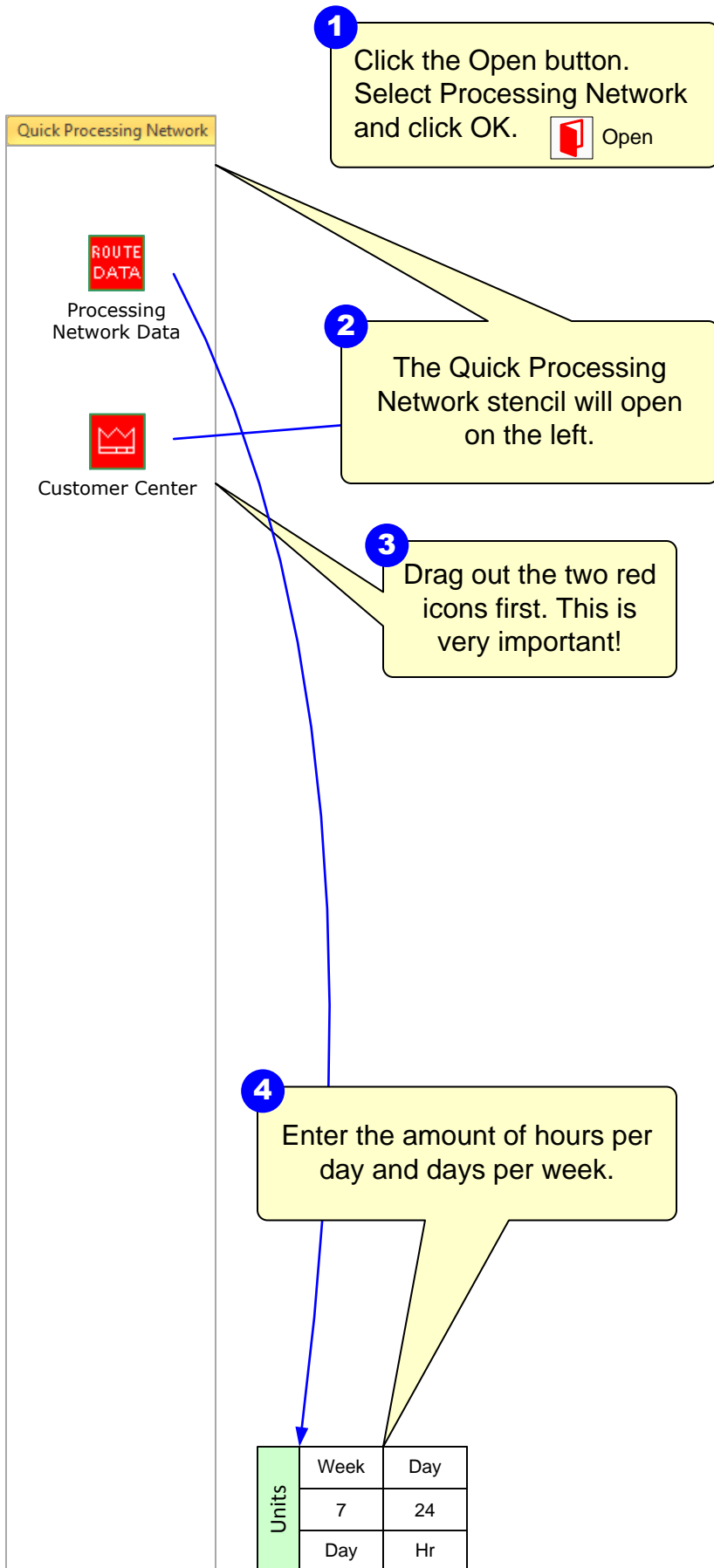


3 Blue icons in the main stencil represent families of shapes. Drag out the Transport icon.

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



Step 3: Initiate the map for Quick Processing Network



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

5 Enter customer demand here.

A008 0			all
Luigi's			
Customer Demand	4200	MTon	Week
Cumulative Avg Cost	Auto	\$	MTon
Cumulative Avg Time	Auto		Week

Step 4: Draw the flow

1 The green shapes are called "Centers". Use the centers to represent the flow.

Quick Processing Net



Plant Center



Warehouse Center



Transport Center

A017 0			P		
ACME Plant					
Added Cost	10	\$	MTon		
Inventory	2000		MTon		
Utilization	0		%		
Share	100		%		
Demand	Auto		MTon	Week	
Cumulative Avg Cost	Auto		\$	MTon	
Inventory Time	Auto		Day		
Inventory Value	Auto		K\$		
Cumulative Avg Time	Auto		Week		

A015 0			P		
Transport					
Added Cost	0.2	\$	MTon		
Transport Time	2		Hr		
Transport Frequency	1		Trip	Week	
Transport Inventory	Auto		MTon		
Demand	Auto		MTon	Week	
Cumulative Avg Cost	Auto		\$	MTon	
Inventory Value	Auto		K\$		
Cumulative Avg Time	Auto		Week		


A013 0			P		
Chicago W/H					
Added Cost	2	\$	MTon		
Inventory	800		MTon		
Utilization	0		%		
Share	100		%		
Demand	Auto		MTon	Week	
Cumulative Avg Cost	Auto		\$	MTon	
Inventory Time	Auto		Day		
Inventory Value	Auto		K\$		
Cumulative Avg Time	Auto		Week		

A016 0			P		
Transport					
Added Cost	0.3	\$	MTon		
Transport Time	8		Hr		
Transport Frequency	1		Trip	Week	
Transport Inventory	Auto		MTon		
Demand	Auto		MTon	Week	
Cumulative Avg Cost	Auto		\$	MTon	
Inventory Value	Auto		K\$		
Cumulative Avg Time	Auto		Week		

A014 0			P		
Kansas W/H					
Added Cost	2	\$	MTon		
Inventory	2000		MTon		
Utilization	0		%		
Share	100		%		
Demand	Auto		MTon	Week	
Cumulative Avg Cost	Auto		\$	MTon	
Inventory Time	Auto		Day		
Inventory Value	Auto		K\$		
Cumulative Avg Time	Auto		Week		

Units	Week	Day
	7	24
	Day	Hr

Step 5: Sequence Arrows


2 Click the Sequence button.  Sequence

1 Sequence arrows are needed for upstream and downstream calculations. To add them, hold down the Ctrl key and select the green shapes in the order shown here.

A017 0			P		
AC A ant					
Added Cost	10	\$	MTon		
Inventory	2000	MTon			
Utilization	0	%			
Share	100	%			
Demand	Auto	MTon/Week			
Cumulative Avg Cost	Auto	\$/MTon			
Inventory Time	Auto	Day			
Inventory Value	Auto	K\$			
Cumulative Avg Time	Auto	Week			

A015 0			P		
B					
Transport					
Added Cost	0.2	\$	MTon		
Transport Time	2	Hr			
Transport Frequency	1	Trip/Week			
Transport Inventory	Auto	MTon			
Demand	Auto	MTon/Week			
Cumulative Avg Cost	Auto	\$/MTon			
Inventory Value	Auto	K\$			
Cumulative Avg Time	Auto	Week			

A013 0			P		
Chi C W/H					
Added Cost	2	\$	MTon		
Inventory	800	MTon			
Utilization	0	%			
Share	100	%			
Demand	Auto	MTon/Week			
Cumulative Avg Cost	Auto	\$/MTon			
Inventory Time	Auto	Day			
Inventory Value	Auto	K\$			
Cumulative Avg Time	Auto	Week			

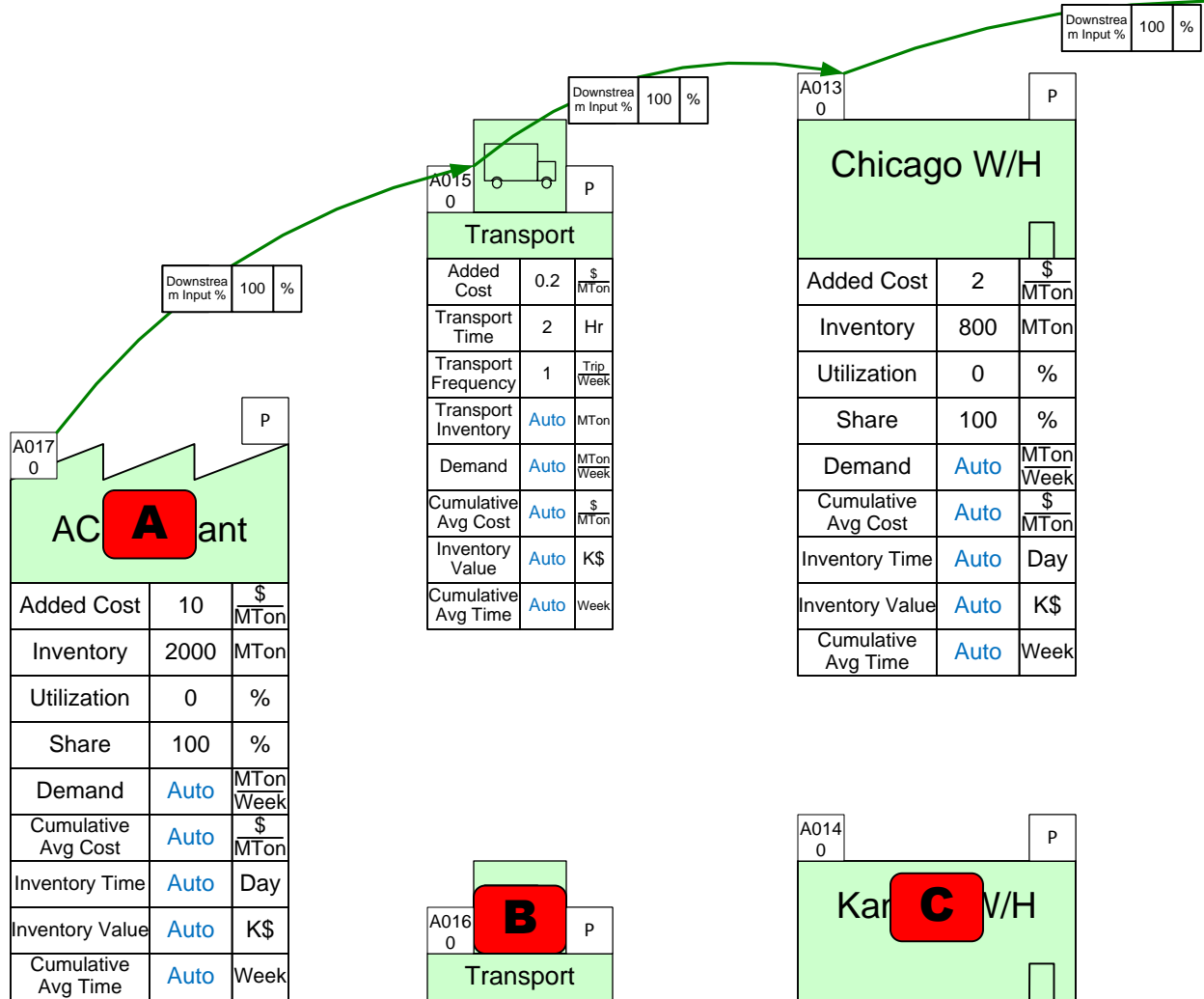
A016 0			P		
					
Transport					
Added Cost	0.3	\$	MTon		
Transport Time	8	Hr			
Transport Frequency	1	Trip/Week			
Transport Inventory	Auto	MTon			
Demand	Auto	MTon/Week			
Cumulative Avg Cost	Auto	\$/MTon			
Inventory Value	Auto	K\$			
Cumulative Avg Time	Auto	Week			

A014 0			P		
Kansas W/H					
Added Cost	2	\$	MTon		
Inventory	2000	MTon			
Utilization	0	%			
Share	100	%			
Demand	Auto	MTon/Week			
Cumulative Avg Cost	Auto	\$/MTon			
Inventory Time	Auto	Day			
Inventory Value	Auto	K\$			
Cumulative Avg Time	Auto	Week			

Units	Week	Day
	7	24
	Day	Hr

Step 6: Sequence Arrows part 2

Quick Processing Network



AC A ant		
Added Cost	10	\$ / MTon
Inventory	2000	MTon
Utilization	0	%
Share	100	%
Demand	Auto	MTon / Week
Cumulative Avg Cost	Auto	\$ / MTon
Inventory Time	Auto	Day
Inventory Value	Auto	K\$
Cumulative Avg Time	Auto	Week

Transport		
Added Cost	0.2	\$ / MTon
Transport Time	2	Hr
Transport Frequency	1	Trip / Week
Transport Inventory	Auto	MTon
Demand	Auto	MTon / Week
Cumulative Avg Cost	Auto	\$ / MTon
Inventory Value	Auto	K\$
Cumulative Avg Time	Auto	Week

Chicago W/H		
Added Cost	2	\$ / MTon
Inventory	800	MTon
Utilization	0	%
Share	100	%
Demand	Auto	MTon / Week
Cumulative Avg Cost	Auto	\$ / MTon
Inventory Time	Auto	Day
Inventory Value	Auto	K\$
Cumulative Avg Time	Auto	Week

B		
Transport		
Added Cost	0.3	\$ / MTon
Transport Time	8	Hr
Transport Frequency	1	Trip / Week
Transport Inventory	Auto	MTon
Demand	Auto	MTon / Week
Cumulative Avg Cost	Auto	\$ / MTon
Inventory Value	Auto	K\$
Cumulative Avg Time	Auto	Week

Kar C V/H		
Added Cost	2	\$ / MTon
Inventory	2000	MTon
Utilization	0	%
Share	100	%
Demand	Auto	MTon / Week
Cumulative Avg Cost	Auto	\$ / MTon
Inventory Time	Auto	Day
Inventory Value	Auto	K\$
Cumulative Avg Time	Auto	Week


Units	Week	Day
	7	24
	Day	Hr

1 Sequence arrows have been added for the first path. Hold down the Ctrl key and select the green shapes in the order shown here for the next path.

A010		P
0		
Transport		
Added Cost	0.5	\$ / MTon
Transport Time	4	Hr
Transport Frequency	1	Trip / Week
Transport Inventory	Auto	MTon
Demand	Auto	MTon / Week
Cumulative Avg Cost	Auto	\$ / MTon
Inventory Value	Auto	K\$
Cumulative Avg Time	Auto	Week

Downstream Input %	100	%
--------------------	-----	---

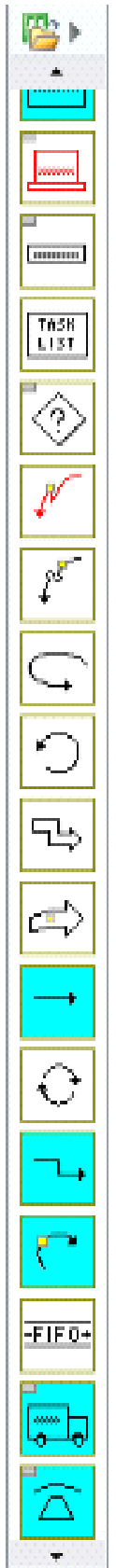
A008		all
0		
Luigi's		
Customer Demand	4200	MTon / Week
Cumulative Avg Cost	Auto	\$ / MTon
Cumulative Avg Time	Auto	Week

2 Click the Sequence button.  Sequence

A011		P
0		
Transport		
Added Cost	0.9	\$ / MTon
Transport Time	12	Hr
Transport Frequency	1	Trip / Week
Transport Inventory	Auto	MTon
Demand	Auto	MTon / Week
Cumulative Avg Cost	Auto	\$ / MTon
Inventory Value	Auto	K\$
Cumulative Avg Time	Auto	Week

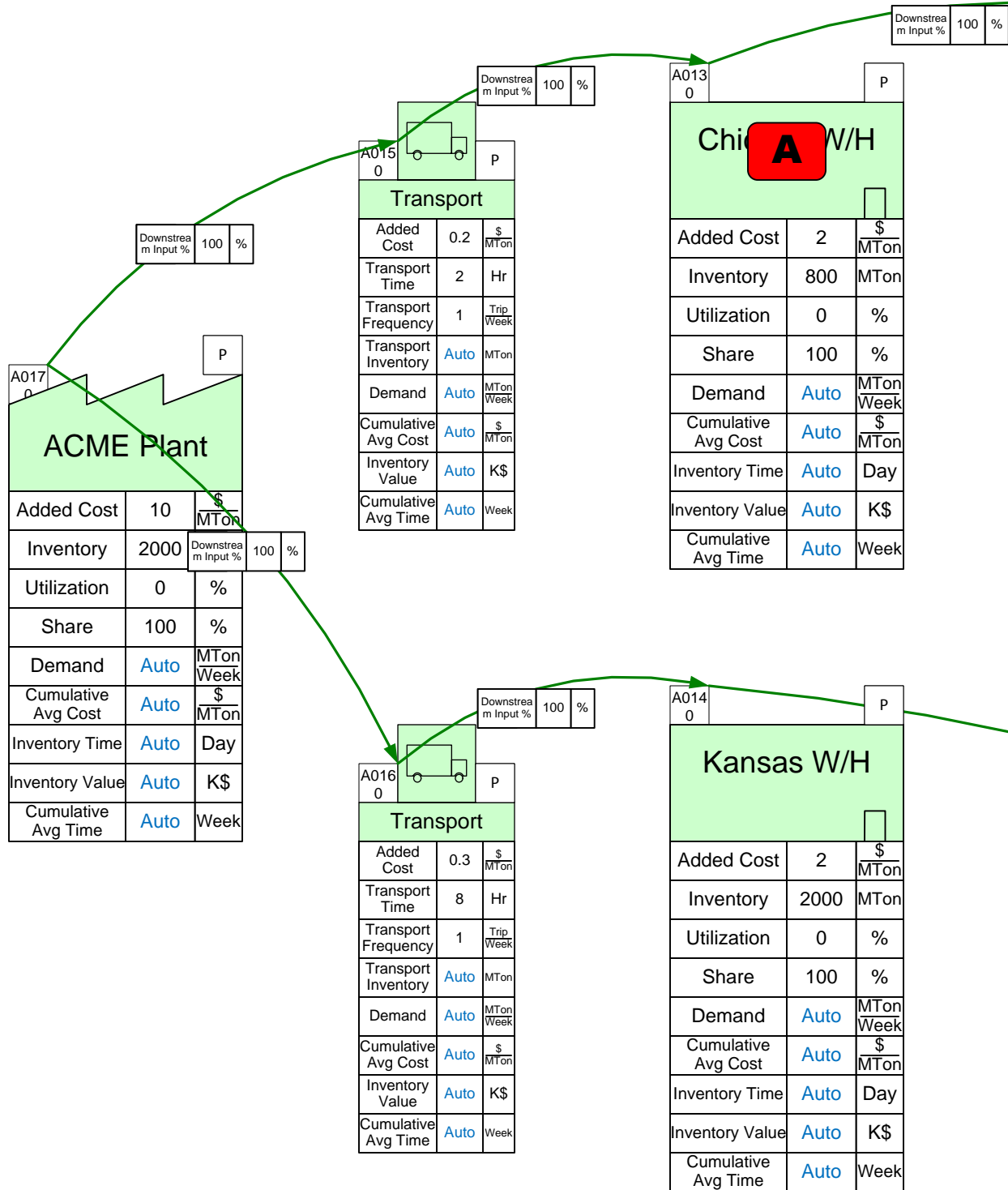
A009		all
0		
Peart		
Customer Demand	3500	MTon / Week
Cumulative Avg Cost	Auto	\$ / MTon
Cumulative Avg Time	Auto	Week

A012		P
0		
Transport		
Added Cost	0.2	\$ / MTon
Transport Time	3	Hr
Transport Frequency	1	Trip / Week
Transport Inventory	Auto	MTon
Demand	Auto	MTon / Week
Cumulative Avg Cost	Auto	\$ / MTon
Inventory Value	Auto	K\$
Cumulative Avg Time	Auto	Week



Step 7: Sequence Arrows part 3

Quick Processing Network



Units	Week	Day
	7	24
	Day	Hr

A0100		P
Transport		
Added Cost	0.5	\$ / MTon
Transport Time	4	Hr
Transport Frequency	1	Trip / Week
Transport Inventory	Auto	MTon
Demand	Auto	MTon / Week
Cumulative Avg Cost	Auto	\$ / MTon
Inventory Value	Auto	K\$
Cumulative Avg Time	Auto	Week

Downstream Input % 100 %

A0080		all
Luigi's		
Order	4200	MTon / Week
Investment	Auto	\$ / MTon
Revenue	Auto	Week

1 Sequence arrows have been added for the second path. Hold down the Ctrl key and select the green shapes in the order shown here for the next path.

2 Click the Sequence button. Sequence

A0110		P
Transport		
Added Cost	0.9	\$ / MTon
Transport Time	12	Hr
Transport Frequency	1	Trip / Week
Transport Inventory	Auto	MTon
Demand	Auto	MTon / Week
Cumulative Avg Cost	Auto	\$ / MTon
Inventory Value	Auto	K\$
Cumulative Avg Time	Auto	Week

Downstream Input % 100 %

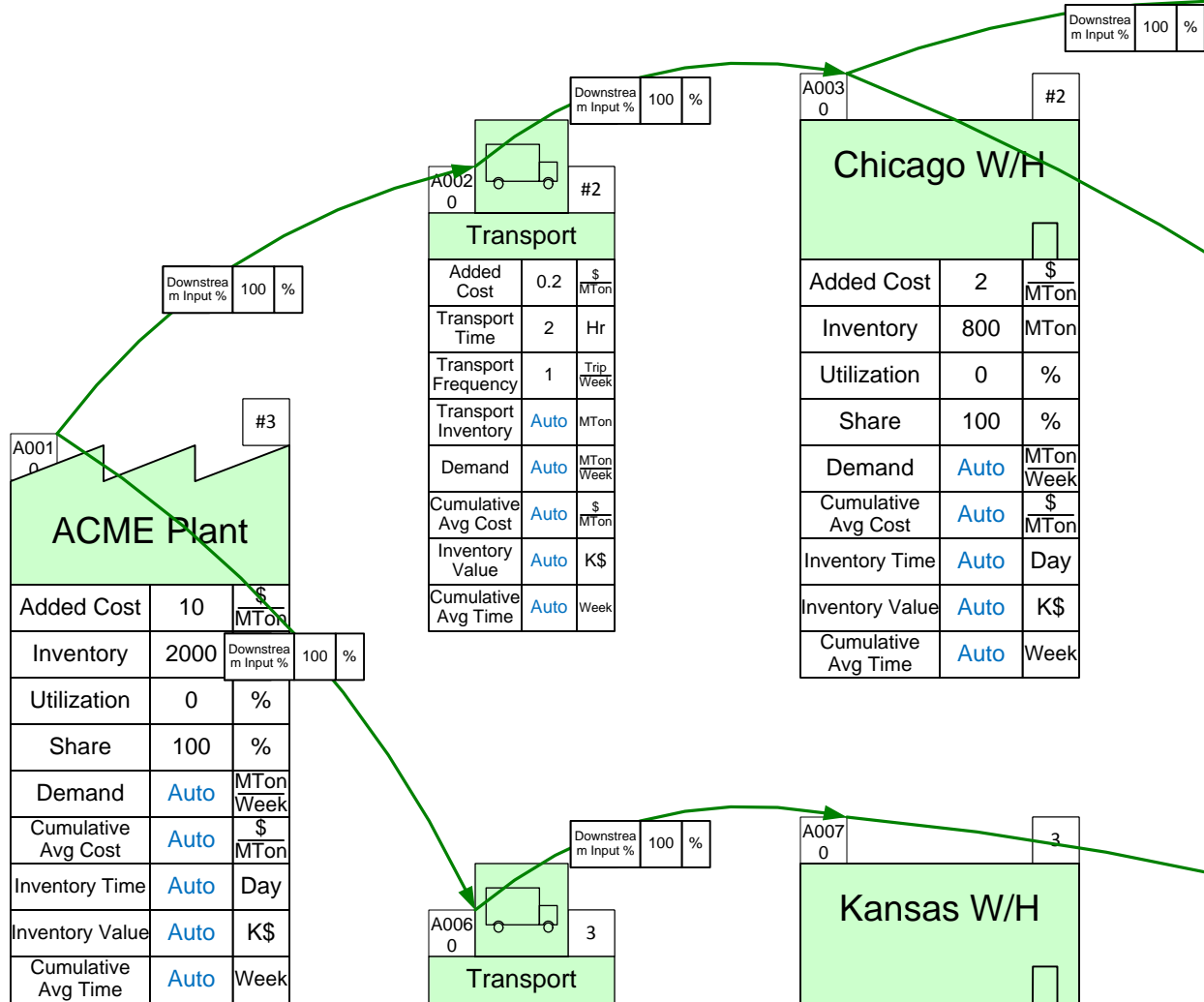
Downstream Input % 100 %

A0090		all
Peart		
Customer Demand	3500	MTon / Week
Cumulative Avg Cost	Auto	\$ / MTon
Cumulative Avg Time	Auto	Week

A0120		P
Transport		
Added Cost	0.2	\$ / MTon
Transport Time	3	Hr
Transport Frequency	1	Trip / Week
Transport Inventory	Auto	MTon
Demand	Auto	MTon / Week
Cumulative Avg Cost	Auto	\$ / MTon
Inventory Value	Auto	K\$
Cumulative Avg Time	Auto	Week

Step 8: Auto Path and Auto Tag

Quick Processing Network



Units	Week	Day
	7	24
	Day	Hr

1

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



Auto Path

2

Click AutoTag again to re-order the tags based on the new sequence arrows.



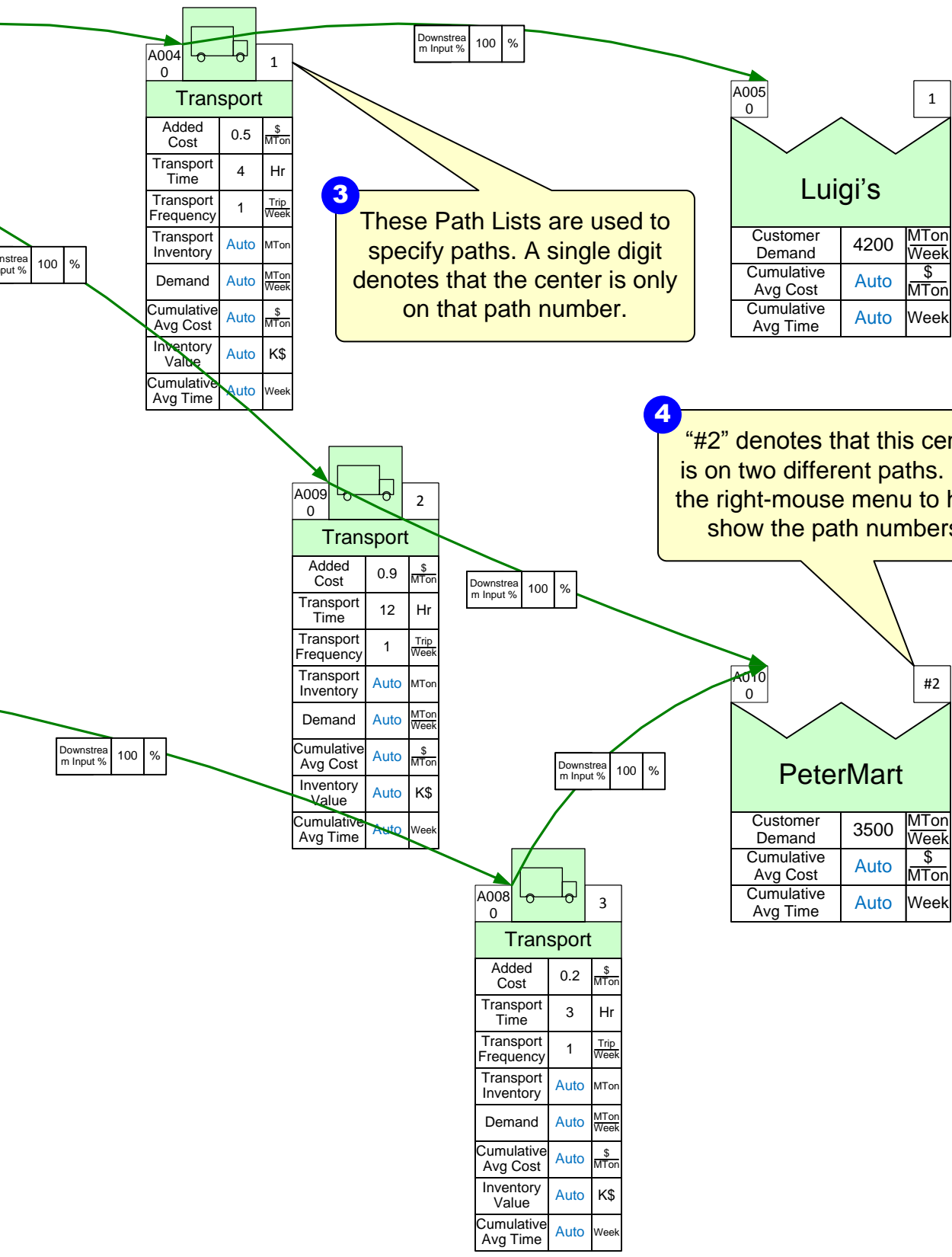
Auto Tag

3

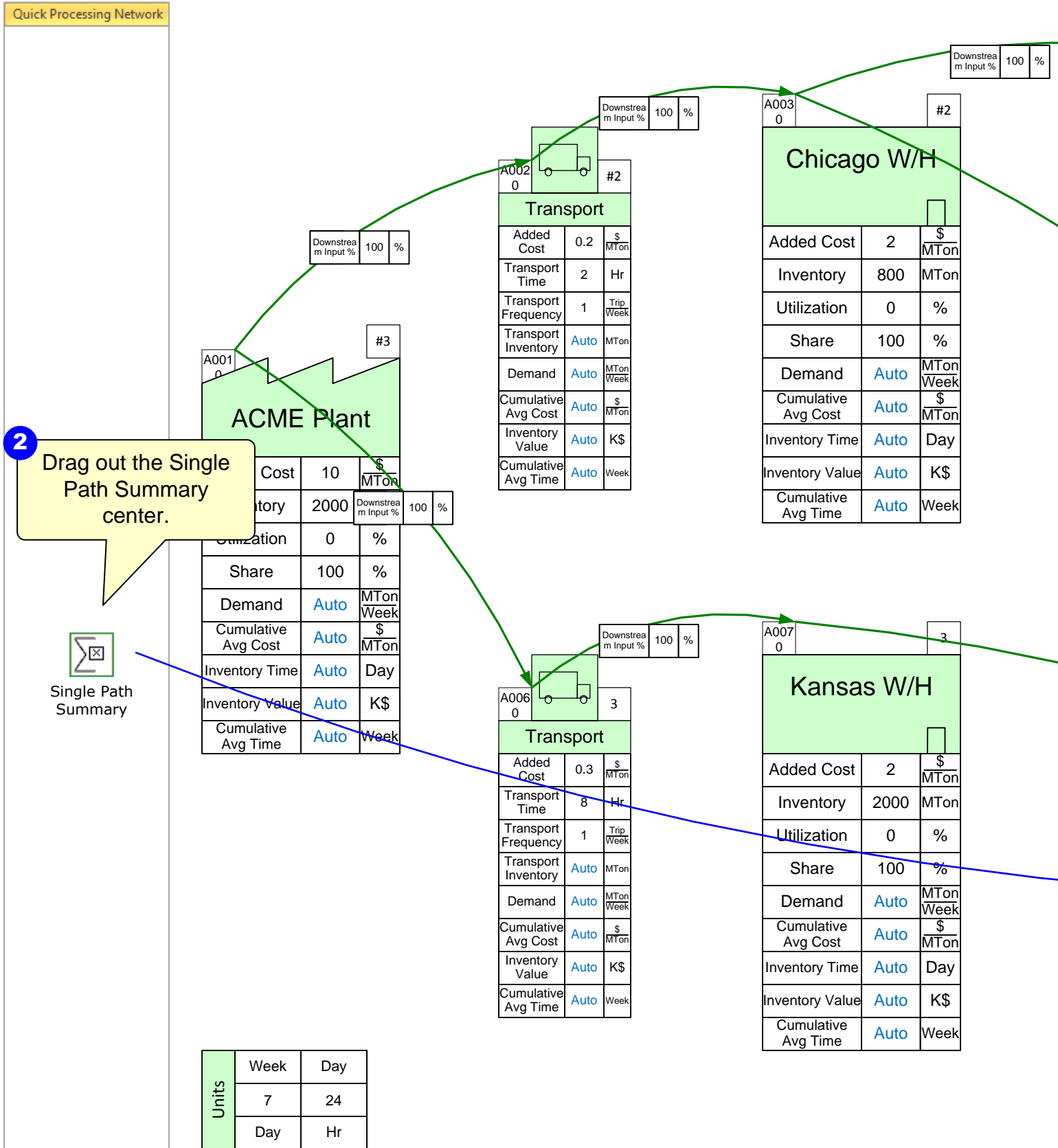
These Path Lists are used to specify paths. A single digit denotes that the center is only on that path number.

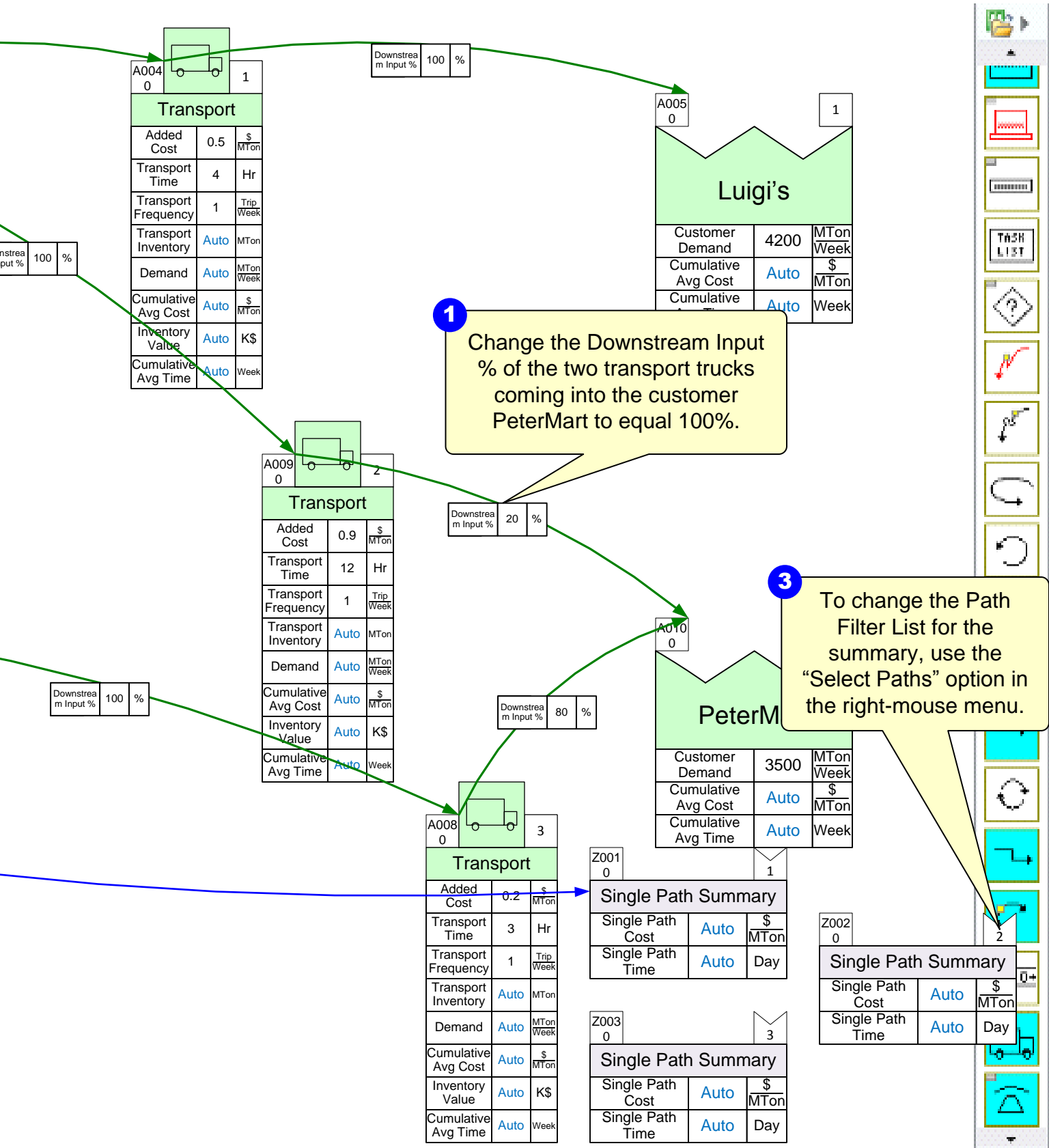
4

"#2" denotes that this center is on two different paths. Use the right-mouse menu to hide/show the path numbers.



Step 9: Downstream Input %





A004	0	1
Transport		
Added Cost	0.5	\$ MTon
Transport Time	4	Hr
Transport Frequency	1	Trip Week
Transport Inventory	Auto	MTon
Demand	Auto	MTon Week
Cumulative Avg Cost	Auto	\$ MTon
Inventory Value	Auto	K\$
Cumulative Avg Time	Auto	Week

Downstream Input %	100	%
--------------------	-----	---

A005	0	1
Luigi's		
Customer Demand	4200	MTon Week
Cumulative Avg Cost	Auto	\$ MTon
Cumulative Avg Time	Auto	Week

1 Change the Downstream Input % of the two transport trucks coming into the customer PeterMart to equal 100%.

A009	0	2
Transport		
Added Cost	0.9	\$ MTon
Transport Time	12	Hr
Transport Frequency	1	Trip Week
Transport Inventory	Auto	MTon
Demand	Auto	MTon Week
Cumulative Avg Cost	Auto	\$ MTon
Inventory Value	Auto	K\$
Cumulative Avg Time	Auto	Week

Downstream Input %	20	%
--------------------	----	---

A010	0	1
PeterM		
Customer Demand	3500	MTon Week
Cumulative Avg Cost	Auto	\$ MTon
Cumulative Avg Time	Auto	Week

3 To change the Path Filter List for the summary, use the "Select Paths" option in the right-mouse menu.

Downstream Input %	100	%
--------------------	-----	---

Downstream Input %	80	%
--------------------	----	---


A008	0	3
Transport		
Added Cost	0.2	\$ MTon
Transport Time	3	Hr
Transport Frequency	1	Trip Week
Transport Inventory	Auto	MTon
Demand	Auto	MTon Week
Cumulative Avg Cost	Auto	\$ MTon
Inventory Value	Auto	K\$
Cumulative Avg Time	Auto	Week


Z001	0	1
Single Path Summary		
Single Path Cost	Auto	\$ MTon
Single Path Time	Auto	Day

Z002	0	2
Single Path Summary		
Single Path Cost	Auto	\$ MTon
Single Path Time	Auto	Day

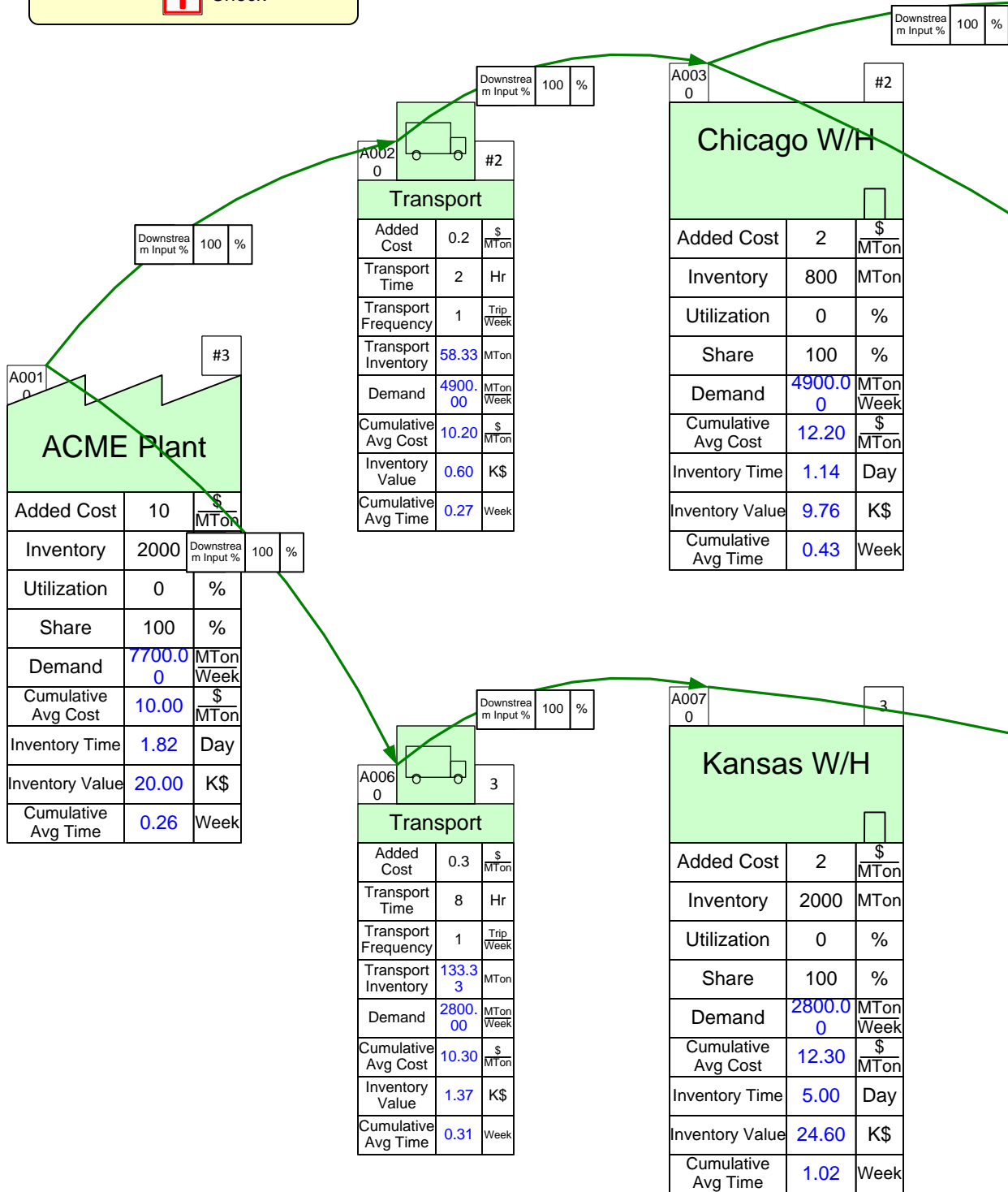
Z003	0	3
Single Path Summary		
Single Path Cost	Auto	\$ MTon
Single Path Time	Auto	Day

Step 10: Perform Calculations

1 Click the "Check" and button fix any problems flagged  Check

2 Click the "Solve" button to calculate  Solve

Quick Processing Network



Units	Week	Day
	7	24
	Day	Hr

