Quick Supply Network Stencil

Quick Supply Network is one of eVSM’s Quick Stencils and is a specialized supply network stencil designed to visualize and play “what-if” games to help improve the cost and lead time aspects of the network. It is designed for broad usage and with minimal training.

Benefits:
- Easily visualize, communicate and discuss the supply network for a product family and geographic region.
- Input time/cost data for each leg of the network and automatically generate lead time and cost charts.
- Do “what-if” studies with alternate routes for cost and time improvements or to reduce risk.
- Overlay maps onto geographic detail from any source and perhaps including mapping of adverse events like earthquakes or tornadoes.

The technical concepts addressed by the Quick Supply Network stencil are shown below.
Quick Supply Network Example Map

**Quantity Convertors**
Understand supplier parts and assembly quantities

**Cash River**
See the costs per period from different sources building to the delivered cost

**Demand Management**
Map impact of demand of sub-components and final products on value stream

**BFG Innovation Supply Chain Design**

**Alternate Supplier**
Map alternate supplier strategies

**Path Naming**
Lead time chart can be filtered by path numbers

**Data Visibility**
Use hide/show to simplify the map but support the necessary analytics

**Utilization**
What-if studies to see what suppliers may become bottlenecks

**Lead Times**
Understand lead times and responsiveness
Quick Manufacturing is one of eVSM’s Quick Stencils and supports plant level mapping of discrete parts and assemblies in industries like automotive, electro-mechanical, and medical equipment. It provides easy, fast, and focused mapping as shown below:

Quick Manufacturing is actually a compatible set of 3 stencils as shown below.

Sketch: Simple sketch shapes, no data blocks
Lite: + data blocks + equations + charts ideal for most maps
Pro: + cost, space, energy concepts that increase map leverage.

Quick stencils are popular because of their capability and also because of the excellent deployment materials available. These include example maps, publications, and learning options.

4x mapping speed and quantified improvements with a well designed set of icons, variables, macro shapes, equations, and charts.

The technical concepts addressed by the Quick Manufacturing stencil are shown below.

An example map drawn in Quick Mfg is shown overleaf.
OEE Measures
Activities comprehend OEE, downtime, scrap, etc

Multi-Lane Maps
Filter charts and summaries by path numbers to handle multi-lane maps

Demand by Customer
Record demand for one or more customers

Wall Map Capture
Capture wall maps easily and quickly using the Sketcher components

Kaizen
Kaizen bursts can be applied, detailed and prioritized toward a future state value stream

Shared Resources
Shared activities can be modeled by adjusting demand or available time

Timeline
Automatically build and calculate the timeline

Charts
Automatically plot Capacity and Lead Time charts

Quick Manufacturing Example Map with Features
Quick Processing is one of eVSM’s Quick Stencils and supports plant-level mapping of chemicals or food processing. It combines speed, ease of use, and power as shown below:

4x mapping speed and quantified improvements with a well-designed set of icons, variables, macro shapes, equations, and charts.

Quick Processing is actually a compatible set of 2 stencils as shown below.

Quick stencils are popular because of their capability and also because of the excellent deployment materials available. These include example maps, publications, and learning options.

The technical concepts addressed by the Quick Processing stencil are shown below.

An example map drawn in Quick Processing is shown overleaf.
Co-Products
Value streams can include two or more co-products.

Local Quantities
Quantities at each activity can be measured in local units most easily.

Separation
Output from an activity can be multiple materials by weight percent.

Merge
Ingredients can be merged by weight percent.

Quick Processing Example Map with Features

Step Yield
Activities have a step yield measure to balance input and output weight.

Byproducts
Byproducts from the value stream can be mapped in addition.

Weight Balance
Sequence arrows and a weight balance calculation connects customer demand(s) to required production in local quantities at any activity.
Quick Transactional Pro Stencil

Quick Transactional Pro is one of eVSM’s Quick Stencils and supports transactional value streams and includes concepts of decisions, loops, splits, merges, shared resources across activities, resource balancing charts, and activity based costing. It provides easy, fast, and focused mapping as shown below:

Quick Transactional Pro is actually a compatible set of 2 stencils as shown below.

Sketch: Simple sketch shapes, no data blocks

Pro: + additional concepts that increase map leverage.

Quick stencils are popular because of their capability and also because of the excellent deployment materials available. These include example maps, publications, and learning options.

4x mapping speed and quantified improvements with a well designed set of icons, variables, macro shapes, equations, and charts.

The technical concepts addressed by the Quick Transactional Pro stencil are shown below.

- Number of Iterations
- Linking activities
- First Time & Repeat Demand

Iterative Processes

Lead Time

- Process Time
- Delay Time
- Process NVA Time

Divergent Flows

- Decision Points
- Automated demand calculation

Swim Lane Mapping

- Horizontal Swim Lanes
- Vertical Swim Lanes
- Departmental Views

Quick Transactional Pro

Resources

- Resource Utilization
- Resource capacity
- Resource usage and balancing

Cost

- Activity based cost
- Resource cost

An example map drawn in Quick Transactional Pro is shown overleaf.
Linkage between high level and detailed maps

Automated demand calculation at each activity based on routing percentage

Support for dedicated and shared resource pools

Resource balance charts and FTC calculation

Automatic charts for lead time, capacity, and cost

Support for activity overlap

Hide/show data capability to simplify maps for printing and communication

Decision-based routing with percentage input for each route

Critical path support and summary calculation for each value stream path

Support for multiple lanes, multiple outcomes

Quick Transactional Pro Example Map with Features
Quick MCT Stencil

*Quick MCT* is one of eVSM’s *Quick Stencils* and supports the MCT mapping and calculation within the QRM (Quick Response Manufacturing) methodology. Its applicable to manufacturing, services and healthcare processes from detailed to enterprise levels. It provides easy, fast, and focused mapping as shown below:

Quick MCT has a small set of drag & drop shapes and a set of units converters that allows data to be input in production, office or calendar units and then converts values to calendar units for consistent output. It has been designed to complement the MCT Quick Reference Guide by Rajan Suri.

The multiple paths associated with MCT maps are visually handled via a set of sequence arrows (see next page). The “critical path” provides the MCT number and this is seen visually with its gray and white space components on the MCT chart.

The visual approach to creating and editing the map and the automated MCT chart is considerably easier than past approach’s based on spreadsheets alone and is a better communication tool overall.

4x mapping speed and quantified improvements with a well designed set of icons, variables, macro shapes, equations, and charts.

The shapes and concepts addressed by the Quick MCT stencil are shown below.

An example map drawn in Quick MCT is shown overleaf.
Customer Journey Stencil

**Customer Journey** is one of eVSM’s **Quick Stencils** and supports journey mapping to understand in depth the customer experience related to a product or service and to design new experiences that lead to higher satisfaction rates.

**Benefits:**
- Easily create personas and map customer journeys
- Identify key touch points
- Indicate the processes that are being reworked
- Identify frustrations and highlights of customer experience and emotions
- Create and prioritize improvement ideas
- Show the interaction between provider and customer in a simple visual fashion for easy communication
- Develop related underlying business/service model with eVSM’s transactional pro stencil to connect customer and provider perspectives
- Design and add metrics to the journey with summary calculations and charts

The concepts addressed by the Customer Journey stencil are shown below.

**Standardized icons**
- Snap & Glue behaviour

**Touchpoints**
- In-Construction steps
- Customer rating
- Criticality / Moment of Truth

**Journey steps**
- Drag & Drop mapping
- Customer Journey Mapping

**Digital Capture**
- Wall map capture tool
- Real time capture

**Ideas**
- Ideas
- Pains
- Properties
- Prioritization

**Biz Model**
- Decision Tree
- Business Process
- Metrics

**Quick Trans Pro**
- eVSM Data
- eVSM Pro 10.12.0030.0
Character description. Making the person "real"

Overall journey segment container

Touchpoint with criticality indicator

Customer satisfaction at this touchpoint

Customer pain and lean waste icon

Provider, interaction methods and initiator

Pains prioritized by impact and ease of solution

Priority Matrix

Customer Journey Example Map