Evaluation / What is it?

What Is Digital Mix VSM?

The purpose of Value Stream Mapping (VSM) has always been to provide a high-level, metrics-based view of a production process, analyze it from a lean perspective, redesign it to improve flow, and then help select, prioritize, and sequence improvements.

Let's demonstrate alignment and show how leaders' desire for world-class processes is supported by Digital VSM with the eVSM Mix software.

What do leaders want?

Leaders want world-class production processes to meet business goals, and a built-in improvement culture that solves problems by making them visible and applies corrective actions in a systematic way.

What part does lean play?

Lean is a widely respected methodology for continuous process improvement.

What is value stream mapping in lean?

Central to the lean method is a way to see the overall process that delivers value to the customer to identify the waste within, which could be removed for a business benefit. Value stream mapping can provide a metrics-based, bird's-eye view of the current state, and an ability to then redesign it, using lean principles, to a desired future state.

When is Value stream mapping hard to use?

When producing a variety of product versions, manually calculating critical metrics is tedious and difficult, making it difficult for a value stream mapping to fulfill its role in a lean deployment. Decisions that were intended to be made on a metrics basis fall back to relying on intuition.

What is difficult about mapping mixed model production?

Managing different demands, routings, and operational values can make mapping mixed model production challenging. If attempted manually or in a simple flowcharting tool, it's tedious, time-consuming, and prone to error.

How does eVSM Mix help?

eVSM is beneficial because it makes VSM with analytics easy and automated for mixed model production. It extends the applicability of VSM from traditional high-volume/low-mix lines to low-volume/high-mix lines (Fig 1.1). Digital maps are "living" and can be used on an ongoing basis to help with "what-if" changes around production (Fig 1.2).
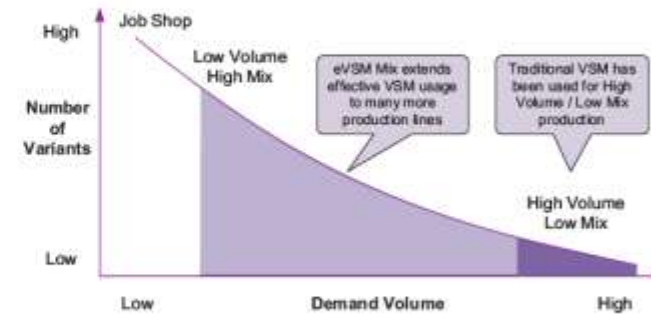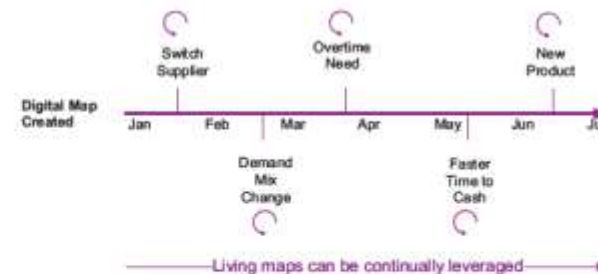

Fig 1.1: eVSM Mix extends applicability of VSM

Fig 1.2: eVSM Mix maps can be continually leveraged