

Value Stream Mapping

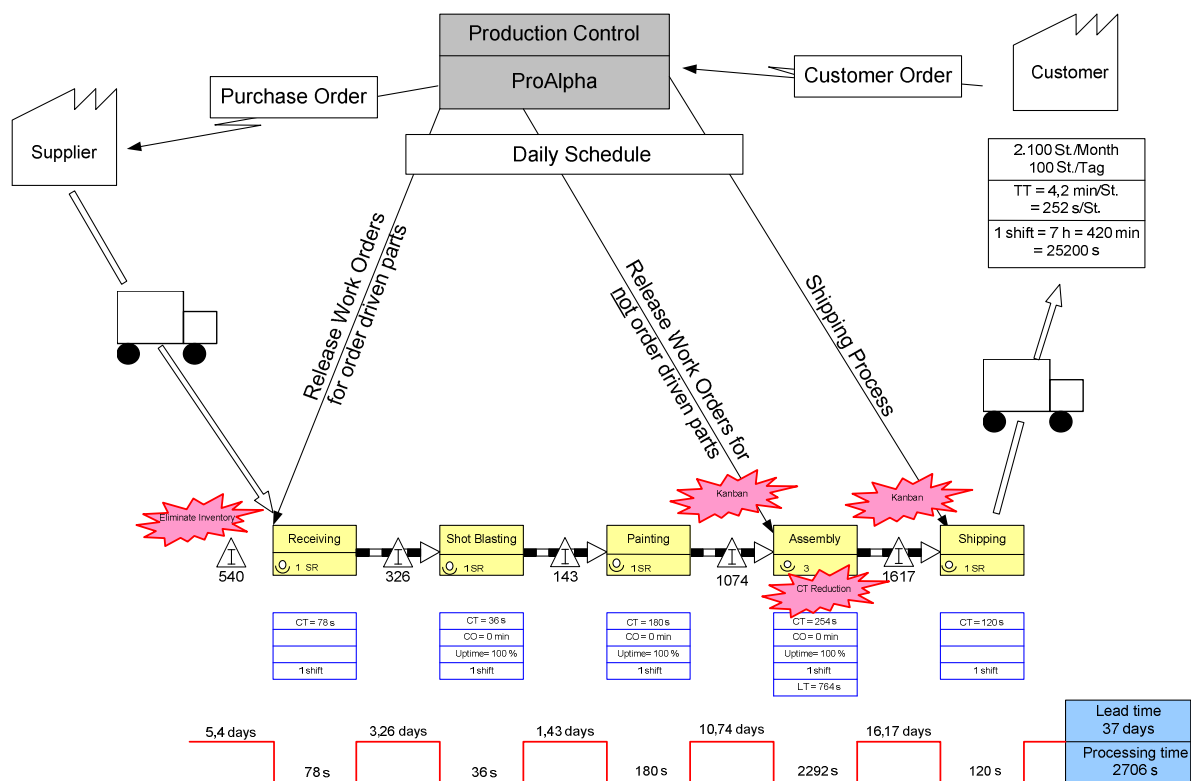
Value Stream Mapping shows the material- and information flow in order to produce a product (or service) from raw material to shipment in one diagram.

The value stream mapping process is a description of different states. The first state describes the current situation of a (production) system and is named „current state map“. The current state is the base for finding improvement possibilities along the process chain. These improvement possibilities find their way into a “future state map” and an improvement plan. The objective is always the implementation of a “lean” (production) system with

- Establishing of flow principles,
- Elimination of waste and
- Concentration on the value added part of the process.

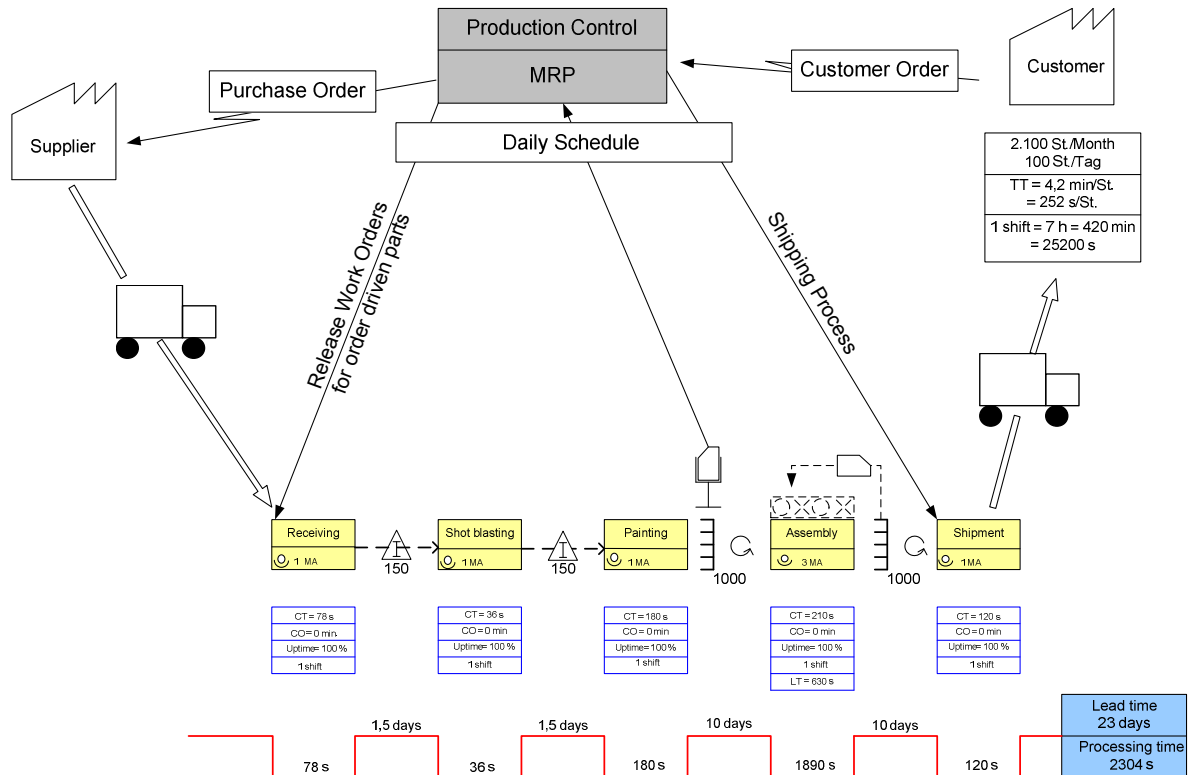
Based on a product matrix (or a service matrix) all process steps to build a product (or service) are shown in a diagram.

Current-State-Map for a sample product



Customer requirements trigger the so called „Takt-Time“ of the product, which is the period of time the process has to satisfy customer needs. The accumulated delivery time and process time are determined. Mostly there is a big gap between them which indicates waste in the process.

Future-State-Map for a sample product



In most cases the delivery time could be reduced drastically, the process steps could be optimized regarding the "Takt-Time". Material- and Information flow could be changed dramatically to a leaner system with the Implementation of KANBAN control cycles.

After the appearance of the book „Learning to See“ from Mike Rother and John Shook 1999 the value stream design was recognized beyond the world of "Toyota Production System". At first deployed on shop floor in manufacturing companies to improve their own processes and to implement lean methods today Value Stream Mapping is used across companies or organizations in order to integrate the supplier stronger in the whole process.

2004 the book „The Complete Lean Enterprise“ from Beau Keyte und Drew Locher was published and gave a good guideline for adopting the technique of Value Stream Mapping successfully in office and administrative areas.

Our services regarding value stream analysis and design are:

- Project selection and design
- Value Stream Mapping Workshop (3 to 4 days)
- Training for employees and manager
- Coaching of employees and manager
- Execution of projects and/or support for project teams