Glossary

Product-Process Matrix The vertical axis of the Product/Process matrix represents the type of production process in the company. In the questionnaire, it was asked what proportion of the products are produced in a unit production process, in small, medium or large batches, and in a continuous flow process.

Work Content The total amount of work required to produce a unit of output
Work-in-process (WIP) Amount of customers/products in the process
Throughput time (TH) The time for WIP to move through the process
Cycle time (CT) The average time between units of output emerging from the process

Process Tasks	Process Flows	Variety	Volume
Diverse/Complex	intermittent	high	low
Ι	I	I	I
I	I	I	I
I	I	I	I
Repeated/Divided	Continuous	Low	high

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Prototype Process

V

Jobbing Processes

V

Batch Processes

V

Mass (line) processes

V

Continuous Processes

(Highly capital-intensive and automated

Difficult and expensive to start/stop

the process. E.g. Nuclear facility/glass

burning oven.)

V

Professional service
(Clients spend a considerable time in the service process. There are high levels of customisation)

V

Service Shops
(Medium levels of volumes of customers
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Medium levels of customer contact, levels of customisation and staff discretion.)
Mass Service
(High levels of volumes of customers, low levels of customer contact, customisation and staff discretion.)

Low Volume production processes allow higher diversity and complexity of the product being produced as well as higher intermittence. The higher the volume, the greater the decrease in complexity, skills needed for the job and the nature turns to being a repeated process with divided tasks and continuous process flow. Examples could be seen in the comparison between a factory belt item such as Nutella vs a luxury item such as a Hèrmes bag. The differences are clear, one product's process tasks are standardised and repeated while having great process flow throughput, where as the other product requires lots of skilled, labour-intensive complex work and thus also takes longer.

A professional Service would classify as a low-volume, high-variety. Where as a Mass service would be the opposite. In the medium, we see the service shop class.

Deviating from the natural diagonal on the product-process matrix Has consequences for cost and flexibility

Deviating from the 'natural' diagonal on the product–process matrix has consequences for cost and flexibility

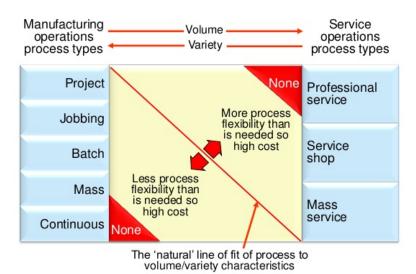


Figure 1: Classifying Products & Processes with the product-process matrix

Deviating from the 'natural' diagonal on the product-process matrix has consequences for cost and flexibility (Continued)

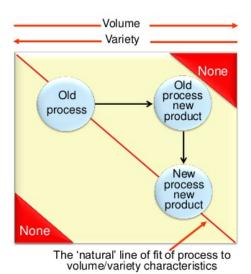


Figure 2: Changing the Products & Processes and seeing their effect in the product-process matrix