# izertis

**infor**

# MANUFACTURING MODELS

**Manufacturing systems can be characterised by a number of factors**: the number of resources or machines, their characteristics and configuration, the level of automation, the type of material handling system, etc.

In a manufacturing model, a resource is often referred to as a "machine"; a task to be performed on a machine is often referred to as a "job". In a production process, a job can be a single operation or a set of operations to be performed on several different machines.

**At present, we can cite the common use of 5+1 manufacturing models:**

| | | |
|---|---|---|
| Repetitive manufacturing | Discreet manufacture | Shop fabrication |
| Process manufacturing (continuous) | Process manufacturing (discontinuous) | 3D printing |

## Indicators Operational Performance

According to Verne Harnish(https://www.growthinstitute.com/es/faculty/verne-harnish/): "The only way to grow and to know if you have a healthy company is to have the Key Performance Indicators or KPIs at hand".

At shop floor level we need to understand the interactions between indicators in the main plant:

| | | |
|---|---|---|
| Count of goods/actual production | Availability (%) | Performance Teams (%) |
| Quality (%) | Overall Equipment Effectiveness (OEE) | Delay on Planning (%) |
| Lead time | Throuput | Stopped |