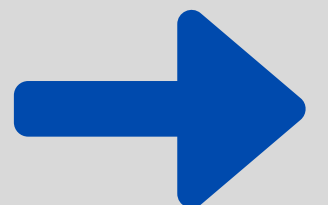
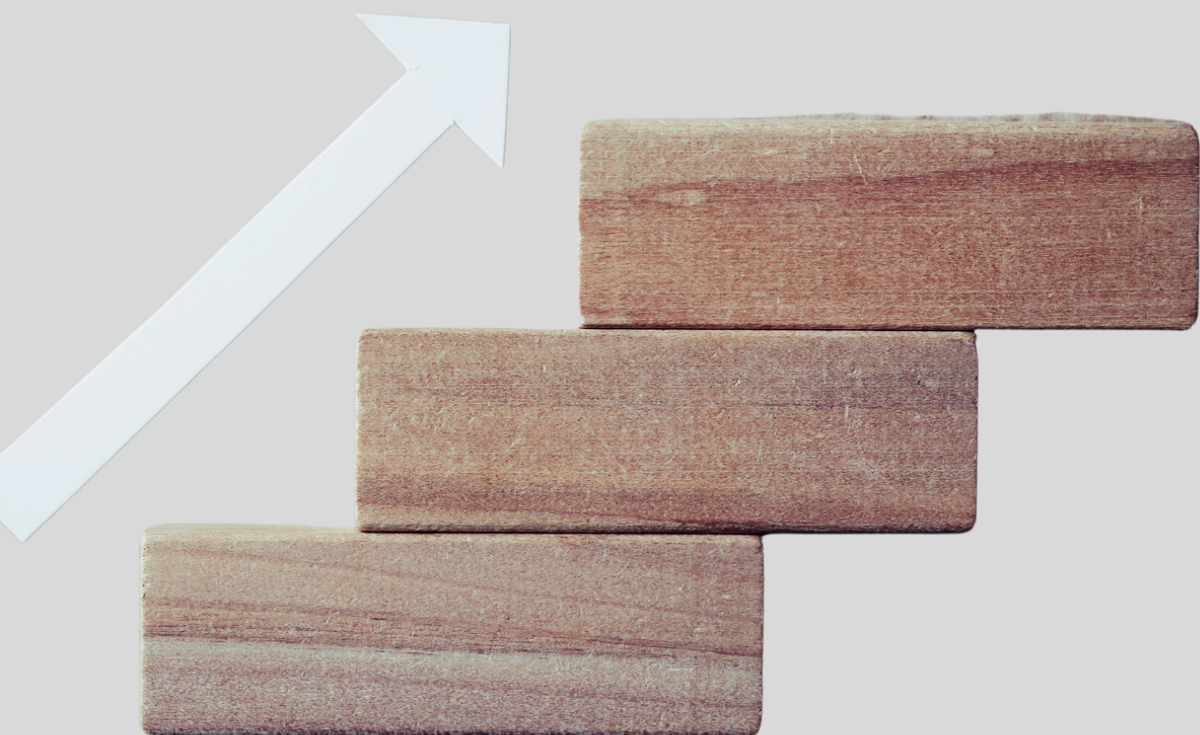


Produce more...

Or produce better?

LEAN PRODUCTION:

A short guide to a business method
that has been infallible for more than
70 years

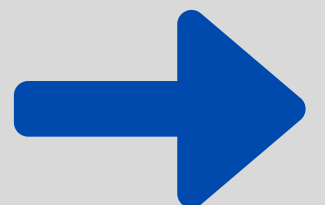


How was lean production born?

It all began in Japan, in the 1950's at the **Toyota** factories:

Engineer **Taiichi Ohno** was looking for an *alternative* organisation method, which would allow him to **produce more** with the **fewest possible resources...**

... contrasting with the classic one "mass production" used in Ford plants.

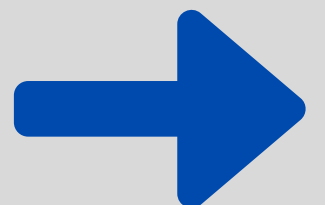
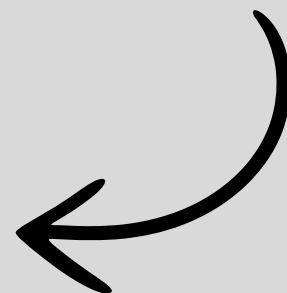


Ohno's method, the **Toyota Production System** (TPS), was successful, preventing the Japanese automotive sector from being overwhelmed by the foreign one.

It was precisely this system that inspired what is now known as **Lean Production**.



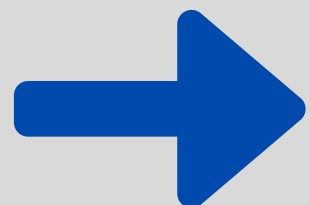
Taiichi Ohno



The objectives of lean production

The fundamental pillars of Lean are:

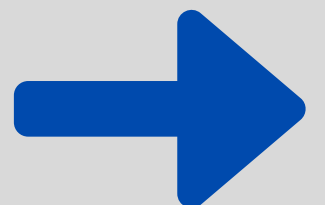
- Map and optimise **processes** (“Just in Time”)
- Identify the **value** for the customer: not all the production processes are involved, so in fact, create value!
- Eliminate **waste**
- Continually **improve**



What is "Just in time"?

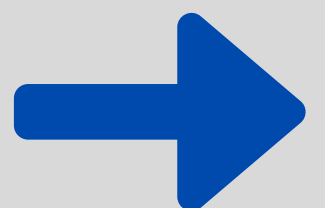
This concept, introduced by Ohno, established the **production of only what was really necessary**, when requested by the customer and **only in the quantities requested**.

... contrary to **mass production**, which instead causes over production, producing ahead of demand, with the risk of too many stored stocks and greater waste.



In essence, Lean is based on the **PULL** principle, as opposed to the concept of **PUSH**.

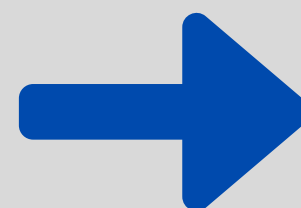
In Pull production, **the customer must be the first to produce the goods**, unlike push production which is based on demand forecasts and estimates increasing the risk of surpluses and waste.



What to avoid

In addition to overproduction and excessive inventory holding, the other most common errors that lead to inefficiencies are:

- The **stalemate** of raw materials
- **Moving** materials and personnel (involves time and energy)
- **Not involving all the workers**, who should instead be encouraged to share ideas for improvement
- A **messy** work environment



From us

Our company has been operating for years following the Lean Production system.

A model that has allowed us to **produce twice as much as our competitors** in the same spaces as before, as well as opening a second factory and effectively managing more than 50% of foreign demand.