# SEJA BEM VINDO AO





#### **AGRIBUSINESS**















#### **SAÚDE**



•Médico Hospitalar/ Farmacêutico

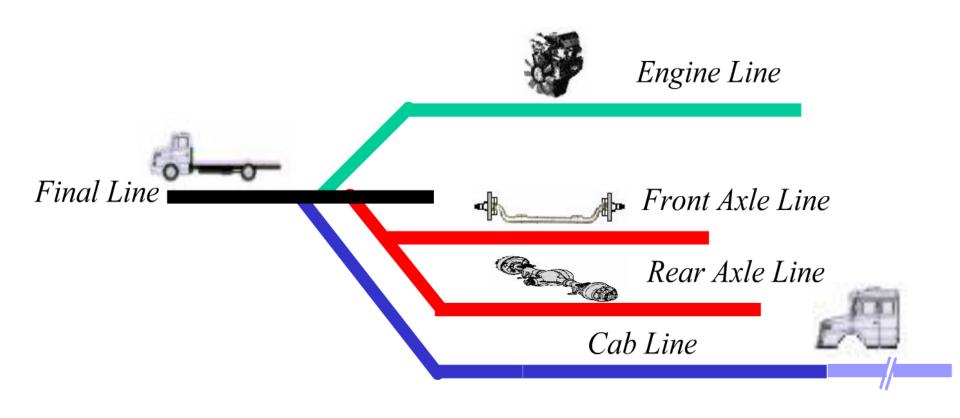
#### **FOOD SERVICE**





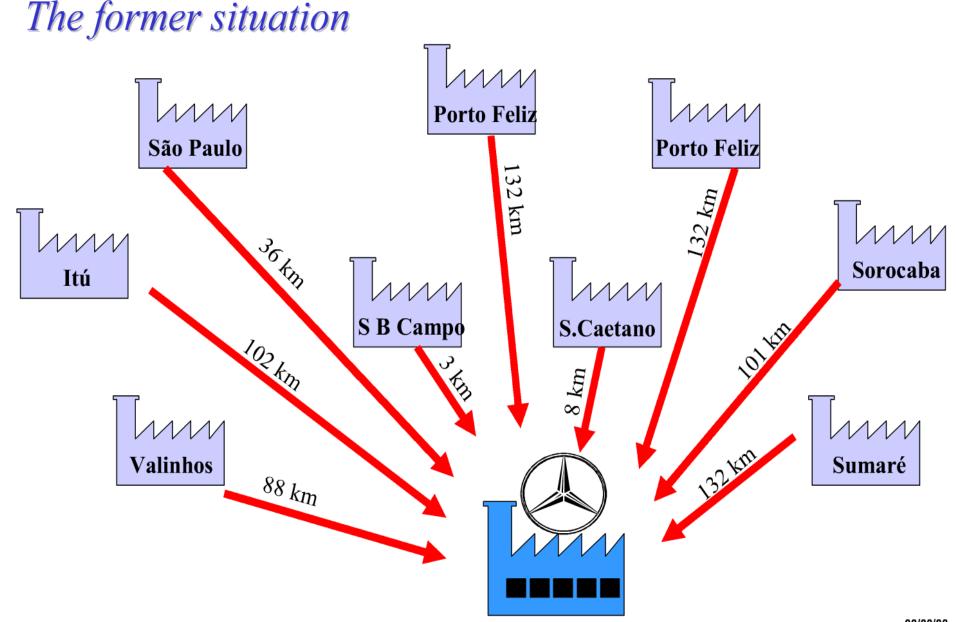


#### Mercedes-Benz Production System

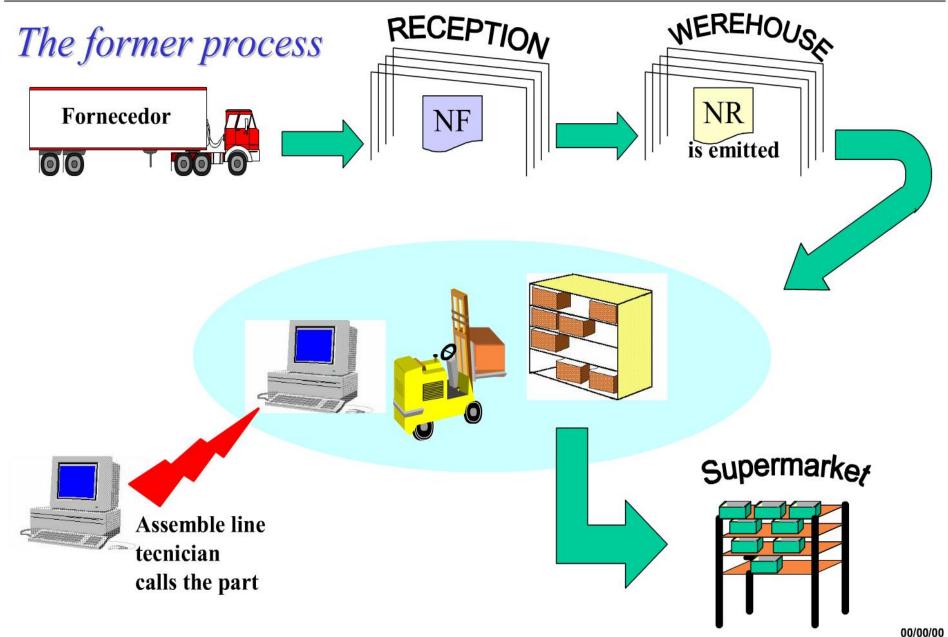


Fishbone flow diagram





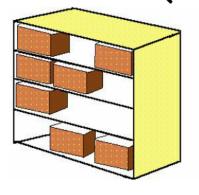


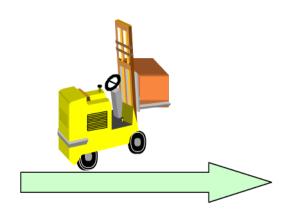




## Supermarket concept:





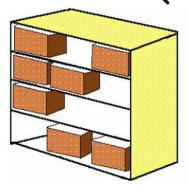


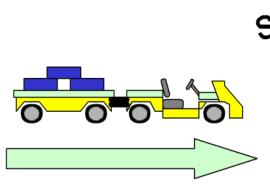


Assemble Line









Small Assemble containers Line

Supermarker

Spiderman



## The former feeding

① Supplier driver let the NF in the office

②a)Fork lift driver gets parts from truck and put them on receive area b) Fork lift driver checks parts and stamps the identification card.

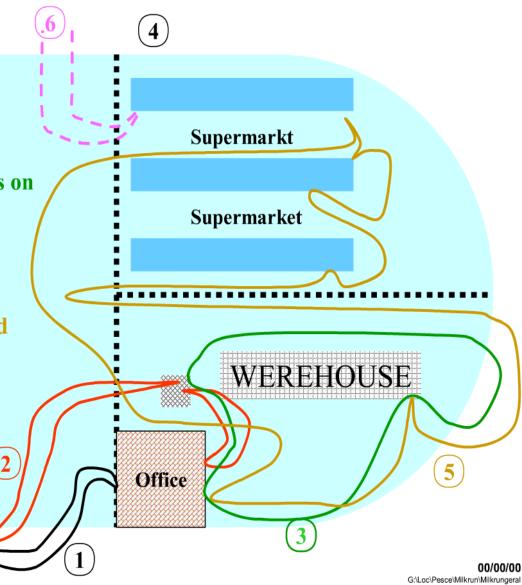
**3 Warehouse reception clerk put the parts on carts leave them in a space labeled for (average 3 trips)** 

**4** Assemble line tecnician calls for parts

The assemble line feeding clerk received the call, goes to the stock keeps the specific part and move it on to supermarket (many trips). The empty boxes are leaved in container area

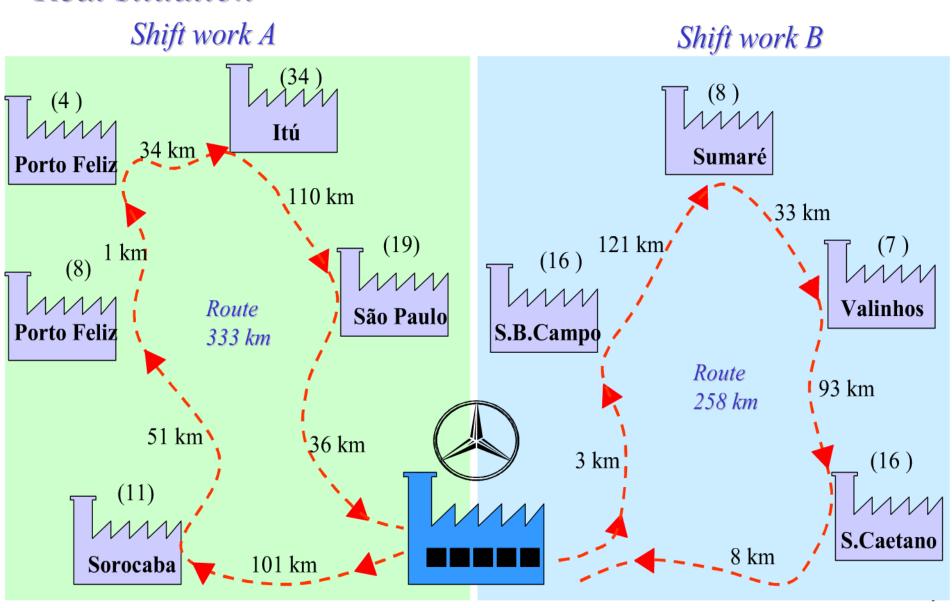
Supplier

**6** Spiderman

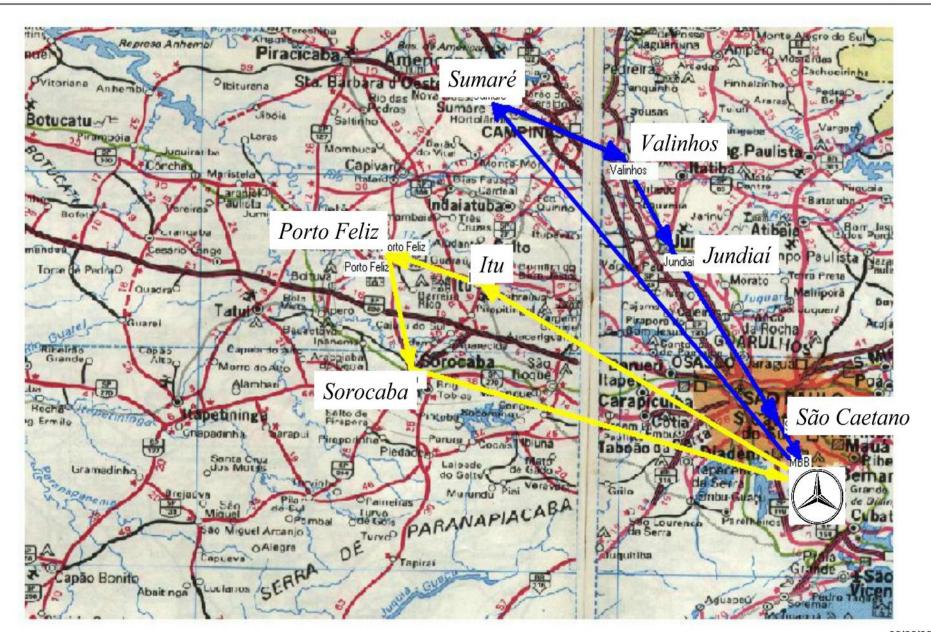




## Real situation







## Real situation of assemble line feeding

Nearby 800m<sup>2</sup> of area was disposed to production

① The Milk-man leaves NF in reception and goes right to supermarket.

The truck is unload by putting the parts on a cart and places the parts in a space labeled in supermarket

2 Spider-man

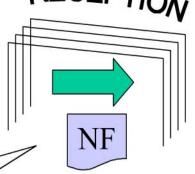


AREA FREED TO es-Benz **GEAR BOX** ASSEMBLY LINE Supermercado Supermercado Carts Shelves



#### Real situation







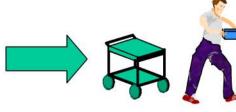
The reception area scanned the NF and automatically the inventory register the deliver and the dispatch to production (JIT). There isn't a emission of NR

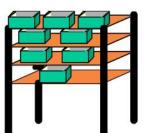
> The milk-man leaves the parts at supermarket

The spider-man gets the parts to the kit to assemble line





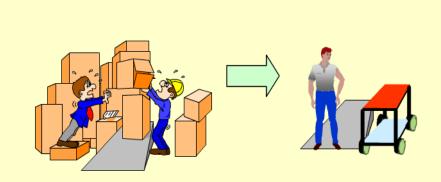






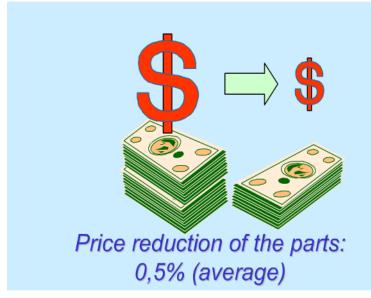


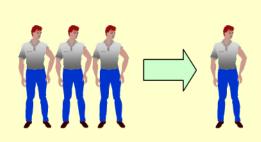
#### The gain with Milk Run



Save warehouse area: 100%







Labor saved: 2,6 blue-collar workers (transferred to new functions)



The additional advantages with Milk Run



Reduction of inventory containers in plant



Save space in the containers shipment area

Save the transportation to containers shipment area



#### The additional advantages with Milk Run



The containers draw back rightly at supermarket or assemble line



Information follow up is optimized



Cycle time is reduced when the workers only assemble parts



The internal traffic is optimized