

## MRP II Scheduler & Master Production Schedule

Main theatre - 10/06/2016

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# 1

## Introduction

Translating a <u>business plan</u> into a comprehensive product manufacturing schedule that covers <u>what is to be</u> <u>assembled or made</u>, <u>when</u>, with <u>what materials acquired when</u> ...

Business Dictionary

### People.

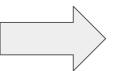
Various departments are involved in the preparation of this master production schedule due to the variety of inputs and decisions to be taken.

- Salesperson.
- Demand Planner.
- Manufacturing Lead.
- Purchase Lead.
- Logistics Manager.



Suppliers.

Subcontractors.



#### Context.

This strategic procurement plan will be put into place for two main reasons:

- Lengthy lead times for raw materials purchasing as well as for semi-finished or finished products manufacturing
  - Cannot wait for the generation of the demand
  - Make-to-order is not an option
- Seasonal demand due to specific market conditions
  - Cannot establish a fixed amount of stock
  - Minimum stock rules is not an option

### MPS

MTO

**MTS** 

Forecast

Actual Demand

Actual Demand

Indirect Link

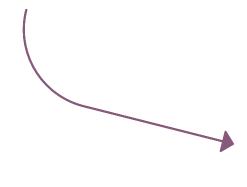
Direct Link

Indirect Link

- 1:x (security stock)
- 1:1 (lean)

• 1:x (security stock)

- Lengthy Lead Times
- Short Lead Times
- Moderate Lead Times



A new addition to the already powerful set of procurement methods in Odoo.

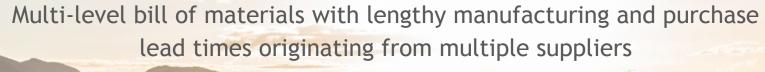
#### MPS in Main Warehouse

Mouse, Wireless by Unit(s)		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Starting Inventory		0.00	-220.00	-185.00	-200.00	-270.00	-240.00	-290.00	-240.00	-190.00	-140.00	-90.00	-40.0
- Demand Forecast		220.00	0.00	45.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
- Indirect Demand		50.00	15.00	20.00	20.00	20.00	100.00	0.00	0.00	0.00	0.00	0.00	0.0
+ To Supply / Produce	0 << 50	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.0
= Forecasted Inventory	<b>♀</b> 15	-220.00	-185.00	-200.00	-270.00	-240.00	-290.00	-240.00	-190.00	-140.00	-90.00	-40.00	10.0
Computer SC234 by Unit(s)		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Starting Inventory		0.00	-10.00	5.00	5.00	-15.00	5.00	105.00	105.00	105.00	105.00	105.00	105.0
- Demand Forecast		60.00	0.00	20.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
- Indirect Demand													
+ To Supply / Produce	0 << 20		15.00	20.00	20.00	20.00	100.00	0.00	0.00	0.00	0.00	0.00	0.0

Add a Product

# 2 Use Cases

### **Electric Car Production**





### Cascading Supply Chain.

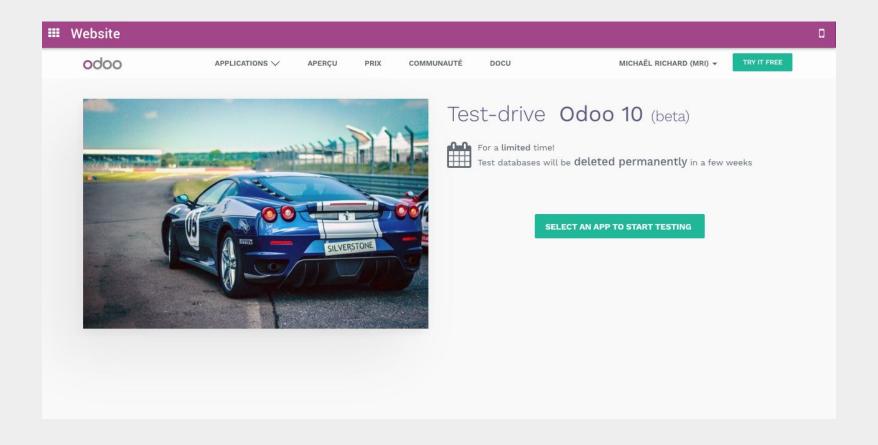


# 3

## Configuration

#### I invite you to go on

## odoo.com/page/start10 and create your own database



### Steps to configure MPS.

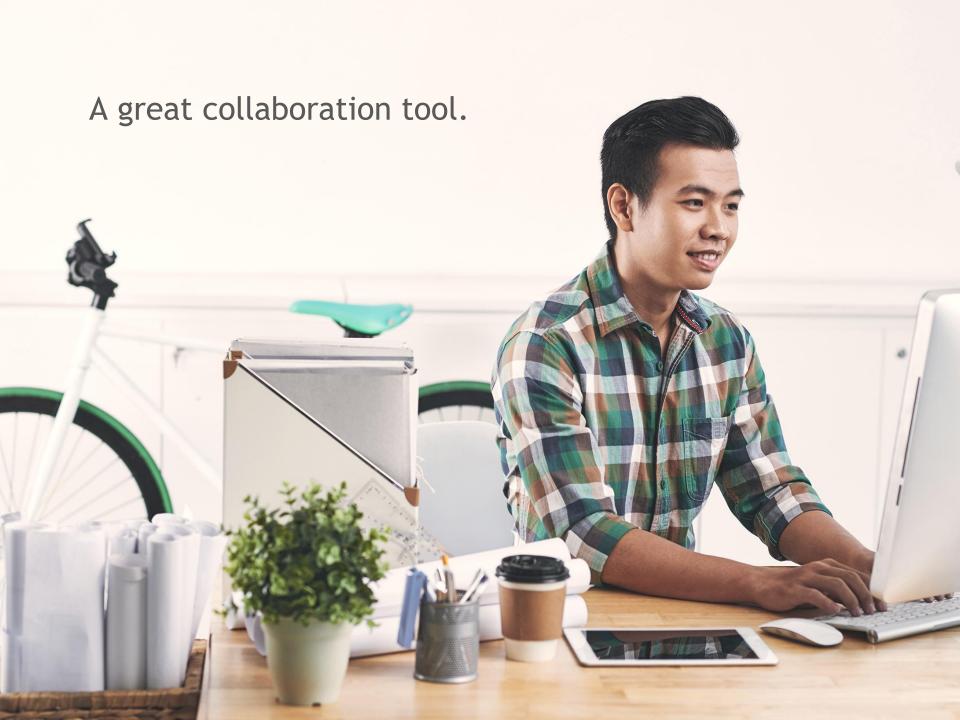
- Install the Manufacturing app.
- Activate the Master Production Schedule in the settings.
- Install the Purchase app.
- Add vendors.
- Add purchased products and specify their purchase lead time.
- Add manufactured products and specify their manufacturing lead time.
- Specify the bill of materials for each manufactured product.
- Add the configured products into the MPS dashboard.
- Have fun!

# 4

## Demonstration

# **(5)** C

## Conclusion



A great addition to the existing set of procurement tools in Odoo.



## 6 Q&A



## Thank you.



#odooexperience

## References.

- http://www.businessdictionary.com/definition/master-productionscheduling-MPS.html
- Supply Chain Management Sunil Chopra / Peter Meindl
- https://pstest-mps-oexp.odoo.com/web#home