Last Update: December 19th 2017

Manufacturing **Extended Game**

FORECAST SALES

HEC MONTREAL ERPSIMULATION GAME

Manufacturing Game

Create Planned Indep. Reg. (MD61)

Select Product group, then enter: \$\$-F



Enter forecasted quantities in the 2nd date column



The quantity corresponds to the replenishment level

CALCULATE REQUIREMENTS

MRP Run (MD01)



Click once again on **Enter**

1

In the pop-up window, click



PURCHASING

Automatic Gen. of POs (ME59N)





Purchase orders are created



RELEASE PRODUCTION

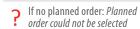
Password: **ERPSIM**

\$1 to **\$9**

Coll. Conversion of Pld Orders (CO41)



User:



Select orders

Click on Convert. Message confirms the conversion.

If conversion fails, click on to see loa

MARKETING EXPENSE

Marketing Expense Planning (ZADS)

Enter the daily amount of marketing for each product and each area.

To apply your marketing expense plan

CHANGE PRICE

Condition Maintenance: Change (VK32)

Open prices folder and double click on Price list

In *Distribution channel*, enter 10, 12 or 14

3



Enter your prices



FINANCIAL STATEMENT

Financial Statements (F.01)

In company code, enter your company code (\$\$)

Select ALV Tree control (optional)



Liquidity Planning (ZFF7B)

Displays an estimate of your cashflow for the coming weeks.

STOCK LEVELS

Inventory Report (ZMB52)

Shows all stock levels

PO TRACKING

Purchase Order Tracking (ZME2N)

Shows for each purchase order, the issue, arrival and payment dates.

Vendor Pricing (ZME13)

Shows material prices for each vendor.

PRODUCTION SCHEDULE

Production Schedule (ZCOOIS)

Shows released production orders, past and future. For each order the time released, started and finished (or to start and finish if incomplete).

Target Qty > Conf. Qty means still pending.

PRODUCTION COST

Product Cost Analysis (ZCK11)

For each product, it shows variable and fixed costs.

SALES AND MARKET DATA

Sales Order Report (ZVA05)

Shows sales transactions: time, sales revenues, boxes sold and price per box.

Summary Sales Report (ZVC2)

Aggregates the daily sales orders by product.

Price Market Report (ZMARKET)

Shows market sales for lagging 5 days - revenues, units, and average price.

CHANGE PRODUCT DESIGN

Modify BOM (ZCS02)

In Material, enter the product to redesign: \$\$-F##



Change quantities



If prompted the "incorrect recipe" message, click on oto modify it

LOAN REPAYMENT

Enter G/L Account (FB50)

Enter current date (F4) in Document Date

2	1st Line	2 nd Line
Account	113300	113101
D/C	Credit	Debit
Amount	???	???





SETUP TIME REDUCTION

Enter G/L Account (FB50)

Enter current date (F4) in **■** Document Date

2	1 st Line	2 nd Line
Account	113300	478000
D/C	Credit	Debit
Amount	???	???

4





INCREASE CAPACITY

Enter G/L Account (FB50)

Enter current date (F4) in **■** Document Date

2	1 st Line	2 nd Line
Account	113300	11000
D/C	Credit	Debit
Amount	???	???

4





Last Update: December 19th 2017



Product Design

Nut 500g \$\$-F01 \$\$-F11 1kg

20% wheat* 30% oat* 20% nut* 1 box / 1 bag*

*minimum



Blueberry

\$\$-F02 500g 1kg \$\$-F12

20% wheat* 30% oat* 20% blueberry* 1 box / 1 bag*

*minimum



Strawberry

500g \$\$-F03 \$\$-F13 1kg

20% wheat* 30% oat* 20% strawberry* 1 box / 1 bag*

*minimum



Raisin

500g \$\$-F04 \$\$-F14 1kg

20% wheat* 30% oat* 20% raisins* 1 box / 1 bag*

*minimum



Original

20% wheat* 30% oat* 1 box / 1 bag*

*minimum



Mixed

\$\$-F06

20% wheat* 30% oat* 30% fruits & nuts**

1 box / 1 bag*

*minimum

**At least some of all fruits/nut

CUSTOMERS



DC 10: Hypermarkets

Payment Time: 20 **Approximate Market Size**

€90 000 per team per week



DC 12: Grocery Chains

Payment Time: 10-20

Approximate Market Size €220 000 per team per week

DC 14: Independant Grocers

Payment Time: 1-20 **Approximate Market Size** €130 000 per team per week

SUPPLIERS		
Lead time (days)	1-5	
Payment time (days)		

STORAGE CAPACITY AND COSTS

	Product type	Current space	Cost per additional 50,000 units*
F	inished product	250,000 boxes	€500/day
	Raw materials	250,000 kg	€1 000/day
(k	Packaging	750,000 units	€100/day

*Billed automatically

FIXED COSTS (€ paid each 5 days)*

Direct labor	20 000
Factory overhead	15 000
S, G & A	40 000
Depreciation (Building)	1250
Depreciation (Equipment)	50 000**

*Billed automatically

PRODUCTIO	ON CAPACITY
Capacity (units/day)	24,000
Additional Capacity (€ per 1,000 units)	1 000 000**

**Investing in additional capacity will increase equipment depreciation costs

SETUP TIME		
Setup time (hours)	Investment (€)	
8	-	
7	50 000	
6	125 000	
5	250 000	
4	500 000	
3	1 250 000	