



# Week 13:

## **MIS 3537: Internet and Supply Chains**

### Global Supply Chain Simulation

# End of Class Schedule

- Today: Global Supply Chain Simulation
- April 21:
  - *Extra Credit Assignment Due*
  - Global SC Simulation Debrief
  - Summary Lecture – What did you learn?
  - Some Personal Insights (Free? Advice)
- April 28: Exam 2
  - Similar in format to Exam 1
  - Focus on content since Exam 1

# Global SC Sim: Learning Objectives

- Real World (*uncertain*) like simulation of Supply Chain Decisions
- Evaluate forecasting methods and interpret dynamics of a forecasting team
- Learn trade-offs of Supply Chain flexibility, cost, benefits and profitability
- Evaluate and learn from process performance measures

# Grading

- Thoughtful Decision Making
- Integration of Lessons Learned from the Course
- Continual learning, Improvement over 4 year span of the simulation
- Long Term Results (Profitability)

# Other

- Two (2) Person teams – One (1) grade
- Submission: *Deadline: Thursday April 21 5:30 pm*
  - Global SC Sim Student Record Sheet
  - Global SC Sim Table
- Goal: complete year One (1) in class today
- Complete following years today / before Next Thursday
- Help:
  - e-Mail me anytime
  - Office Hours Monday 2 – 4 (e-Mail me for location)



# Information goods are different

## Global Supply Chain Management Simulation

enspire  
learning

### Year

1 Introduction

2 Design Room

3 Forecasting Room

4 Production Room

5 Board Room

### Scorecard

Year One

Profit: \$0K

Votes:

Year Two

Profit: \$0K

Votes:

Year Three

Profit: \$0K

Votes:


Year Four

Profit: \$0K

Votes:

## Introduction

Whether it is electronics, apparel, or decorative and protective coatings, an exploding variety of product options has made predicting and fulfilling customer demand more complex than ever. This game illustrates how a few key decisions can improve the ability of a company to accurately predict and fulfill demand. Click on the link below to view a short introduction to the problems facing supply chain managers today.

 [The Problems Facing Supply Chain Managers](#)

The game puts you in charge of managing the production of two new lines of mobile phones. It uses a stylized design and production process in which you can make key decisions and see the impact of your decisions on the performance of your company.

 [How to Play the Game](#)

Continue 



## Year

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## Scorecard

Year One

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Votes:

Year Two

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Votes:

Year Three

Profit: \$0K

Votes:

Year Four

Profit: \$0K

Votes:

# Design Room

Each year, you will produce two new models of cell phones, Model A and Model B. Before you begin production, you will need to finalize a design for the two cell phone models.

Click on the link below to meet your design and forecasting team and hear what they have to say about the models and options.



[Meet the Team](#)

To summarize, you will be given four options that you can include in your design. To assist you, each member of your forecasting team will give you an individual opinion about each option and an estimate of its impact on demand. Then the team will develop a consensus forecast for each option.



[Enter Design Room](#)



[Back](#)







### Year

- 1 Introduction
- 2 Design Room
- 3 Forecasting Room
- 4 Production Room
- 5 Board Room

### Scorecard

Year One
Profit: \$0K
Votes:
Year Two
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Votes:
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Votes:
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To summarize, you will be given four options that you can include in your design. To assist you, each member of your forecasting team will give you an individual opinion about each option and an estimate of its impact on demand. Then the team will develop a consensus forecast for each option.

 [Enter Design Room](#)


 [Back](#)

X



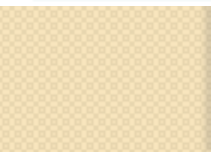
**Tim**

Good morning, boss.

Next 

Good morning, boss. We are ready for our annual design and forecasting meeting, and all the numbers are ready for you. Allow us to introduce ourselves, I am 'slim' Tim Soyaman.

No Audio



Year

- 1 Introduction
- 2 Design Room
- 3 Forecasting Room
- 4 Production Room
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Scorecard

- Year One  
Profit: \$0K  
Votes:
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Votes:
- Year Three  
Profit: \$0K  
Votes:
- Year Four  
Profit: \$0K  
Votes:



## Select Option

To select an option, click on the white fields to the left of the text

**WiFi**  
 View Discussion

**Color**  
 View Discussion

**Stylish**  
 View Discussion

**Infrared**  
 View Discussion

**Submit Options**

### Estimated Model Demand Without Options, Monthly Units (K)

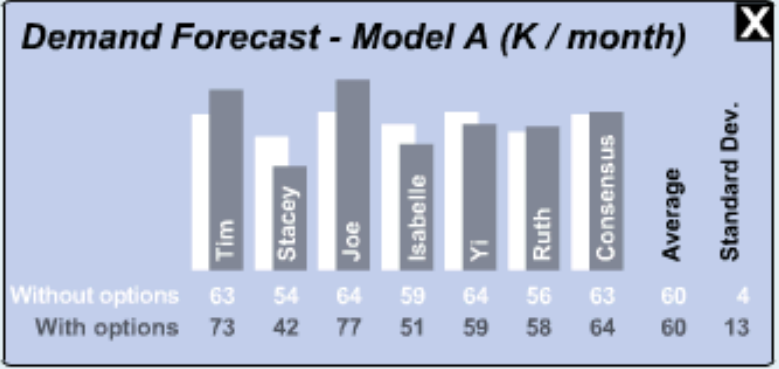
Forecaster	Tim	Stacey	Joe	Isabelle	Yi	Ruth	Consensus
Model A	63	54	64	59	64	56	<b>63</b>
Model B	36	18	38	28	38	22	<b>33</b>

### Estimated Impact Of Selected Options on Demand (K)\*

\* Impact of option is same for both models

Monthly Impact Est.

- Tim: 10 K
- Stacey: -12 K
- Joe: 13 K
- Isabelle: -8 K
- Yi: -5 K
- Ruth: 2 K
- Consensus: **1 K**



### Estimated Impact of Selected Options on Per-unit Profit (\$)

	Base Model A	Base Model B	Impact Per Unit * * Same for both models	Model A with option	Model B with option
Price	\$ 200	\$ 240	\$ 30	\$ 230	\$ 270
Cost	\$ 130	\$ 150	\$ 30	\$ 160	\$ 180
<b>Profit</b>	<b>\$ 70</b>	<b>\$ 90</b>	<b>\$ 0</b>	<b>\$ 70</b>	<b>\$ 90</b>

Year

1 Introduction

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Scorecard

Year One

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Year Two

Profit: \$0K

Votes:

Year Three

Profit: \$0K

Votes:

Year Four

Profit: \$0K

Votes:



# Select Option

To select an option, click on the white fields to the left of the text



WiFi



View Discussion



Color



View Discussion



Stylish



View Discussion



Infrared



View Discussion

Submit Options →

## Estimated Model Demand Without Options, Monthly Units (K)

Forecaster	Tim	Stacey	Joe	Isabelle	Yi	Ruth	Consensus
Model A	63	54	64	59	64	56	<b>63</b>
Model B	36	18	38	28	38	22	<b>33</b>

Please write a short statement about the strategy you employed in this room.

Submit ▶

	Model A	Model B	Same for both models	Model A with option	Model B with option
Price	\$ 200	\$ 240	\$ 30	\$ 230	\$ 270
Cost	\$ 130	\$ 150	\$ 30	\$ 160	\$ 180
Profit	\$ 70	\$ 90	\$ 0	\$ 70	\$ 90

Year

- 1 Introduction
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## Select Option

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- Color**  
 View Discussion
- Stylish**  
 View Discussion
- Infrared**  
 View Discussion

Submit Options →

### Estimated Model Demand Without Options, Monthly Units (K)

Forecaster	Tim	Stacey	Joe	Isabelle	Yi	Ruth	Consensus
Model A	63	54	64	59	64	56	<b>63</b>
Model B	36	18	38	28	38	22	<b>33</b>

Please write a short statement about the strategy you employed in this room.

Submit

	Model A	Model B	Model A with option	Model B with option
Price	\$ 200	\$ 240	\$ 30	\$ 230
Cost	\$ 130	\$ 150	\$ 30	\$ 180

## Record Sheet, Year 1

As you make each decision, jot down a brief record of your reasons for the choices you made each year.

**Please submit this record sheet to your instructor after completing the simulation. Thanks!**

Design Room: Which options did you choose this year?

Option	Chosen?	Rationale for Selection
1. WAP	Y / N	Blah, Blah
2. Color	Y / N	Yucky Blah, Blah
3. Stylish	Y / N	~
4. Infrared	Y / N	Answer

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Votes:

Year Four

Profit: \$0K

Votes:

# Forecasting Room

Congratulations, the design options for the two mobile phone lines have been specified. You will now have to predict the total demand for each product line.

Your forecasting team members have come up with a consensus for what they believe demand will be for the mobile phone lines.

However, the board of your company is interested in your personal estimates as well.

The numbers you will forecast after entering the forecasting room will not affect your production schedule, but they will help you later as you determine where and how to source your products.

 Enter Forecasting Room

 Back



## Forecasting Room

### Unit Data with Options as Chosen\*

\* costs are an estimate from our lowest-cost contract manufacturer

	Model A	Model B
Unit Price	\$ 230	\$ 270
Unit Cost	\$ 160	\$ 180
<b>Unit Profit</b>	<b>\$ 70</b>	<b>\$ 90</b>
Markdown Price*	\$ 144	\$ 54
Monthly holding cost	\$ 3.2	\$ 3.6

\* At the end of the year, all models left in stock will be sold to a consolidator at this price.

### Monthly Estimated Demand May-Dec.

	Model A	Model B	
Tim	73 K	46 K	<b>Model A:</b>
Stacey	42 K	6 K	
Joe	77 K	51 K	Std.Dev.: 13 K
Isabelle	51 K	20 K	<b>Model B:</b>
Yi	59 K	33 K	
Ruth	58 K	24 K	Std.Dev.: 17 K
<b>Consensus</b>	<b>64 K</b>	<b>34 K</b>	

### Enter Your Demand Estimates\*

Model A

60

K

Model B

30

K

Submit

\* This is your forecast for what monthly demand will be each month from May through December. There is no demand expected prior to May.

Year

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Scorecard

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# Forecasting Room

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However, the bo interested in you well.

The numbers yo entering the fore affect your produ will help you late where and how t

## Forecasting Room

Unit Data

	Model A	Model B
Unit Price	\$ 230	\$ 270
Unit Cost	\$ 160	\$ 180
Unit Profit	\$ 70	\$ 90

	Model A	Model B
Own Price*	\$ 144	\$ 54
Shipping cost	\$ 3.2	\$ 3.6

\* This is the price for the year; all models left in stock will be sold to this price.

May-Dec.

	Model A:
Average:	60 K
Std.Dev.:	13 K

	Model B:
Average:	30 K
Std.Dev.:	17 K

Please write a short statement about the strategy you employed in this room.

..

Submit

Model A	Model B
60 K	30 K

Submit

\* This is your forecast for what monthly demand will be each month from May through December. There is no demand expected prior to May.

Back

forecast room: what was your forecast for each model, and how did you derive that forecast?

Model	Fcst.	Rationale for Forecast
Model A	60	Guess Blah, Blah
Model B	30	Guess B, Blah, Blah

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Votes:

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# Production Room

Congratulations. You have successfully given the board your demand estimates. You now need to make some key decisions on how to fulfill this demand.

To increase production flexibility, management has decided to outsource all manufacturing, and you have identified four contract manufacturers.

 [Talk to Procurement](#)

You can place orders with one or more of the four suppliers. As you consider which suppliers to choose, consider lead times, set-up costs, and capacities.

Keep a watchful eye on inventory levels, as it will cost you to carry units that are not sold in the same month, and excess inventory at the end of the year is liquidated below cost.

 [Enter Production Room](#)

 [Back](#)



**Carey Holder**  
*Procurement*

 [Pause](#)

[Next](#) 

Welcome to the Procurement Office. I'm Carey and I run procurement for you, Boss. We have received price quotes from four potential contractors that can manufacture our mobile phones, and they all look pretty good. Let's quickly walk through them and go over their strengths and weaknesses.

No  
Audio

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## Production Room

Choose the suppliers that you want to engage below

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

	Lead Time	Capacity	Set-up Cost	Unit Cost
FarFar Away <input type="checkbox"/>	4 mth	60 K	\$ 1000 K	\$ 160 \$ 180
Far Away <input type="checkbox"/>	3 mth	60 K	\$ 2000 K	\$ 160 \$ 180
Pretty Close <input type="checkbox"/>	0 mth	35 K	\$ 1000 K	\$ 170 \$ 190
Ve-Ri-Fas <input type="checkbox"/>	0 mth	40 K	\$ 2000 K	\$ 170 \$ 190

*Projections*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Model A</b>												
Product Receipt (K)	0	0	0	0	0	0	0	0	0	0	0	0
Est. / Actual Demand (K)*	0	0	0	0	60	60	60	60	60	60	60	60
Est. / Actual Inventory (K)*	0	0	0	0	-60	-60	-60	-60	-60	-60	-60	-60
<b>Model B</b>												
Product Receipt (K)	0	0	0	0	0	0	0	0	0	0	0	0
Est. / Actual Demand (K)*	0	0	0	0	30	30	30	30	30	30	30	30
Est. / Actual Inventory (K)*	0	0	0	0	-30	-30	-30	-30	-30	-30	-30	-30

\*Numbers are estimates for months preceding the current month



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Year Three

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Votes:

Year Four

Profit: \$0K

Votes:



FarFar  
Away

Far  
Away

Pretty  
Close

Ve-Ri-  
Fas

Model A

Product Receipt (K)  
Est. / Actual Demand (K)  
Est. / Actual Inventory (K)\*

Model B

Product Receipt (K)  
Est. / Actual Demand (K)  
Est. / Actual Inventory (K)\*

\*Numbers are estimates for  
months preceding the current  
month



Carey Holder

Procurement

Please tell me how much you would like to order from  
this supplier:

Model A  K / month

Model B  K / month

Next

0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	-60	-60	-60	-60	-60	-60	-60	-60	-60
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	30	30	30	30	30	30	30	30	30
0	0	0	0	-30	-30	-30	-30	-30	-30	-30	-30	-30

	Lead Time	Capacity	Set-up Cost	Unit Cost
	4 mth	60 K	\$ 1000 K	\$ 160 \$ 180
	3 mth	60 K	\$ 2000 K	\$ 160 \$ 180
	0 mth	35 K	\$ 1000 K	\$ 170 \$ 190
	0 mth	40 K	\$ 2000 K	\$ 170 \$ 190

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- Votes:



FarFar Away

Far Away

Pretty Close

Ve-Ri-Fas

Model A

Product Receipt  
Est. / Actual Demand (K)  
Est. / Actual Inventory

Model B

Product Receipt  
Est. / Actual Demand (K)  
Est. / Actual Inventory (K)\*

\*Numbers are estimates for months preceding the current month

Back

Next

0	0	0	0	-30	-30	-30	-30	-30	-30	-30	-30
0	0	0	0	-30	-30	-30	-30	-30	-30	-30	-30



## Carey Holder



## Carey Holder

Procurement

Please tell me when you would like to start production for this supplier:

Starting Month

- January
- February
- March
- April
- May
- June

Lead Time	Capacity	Set-up Cost	Unit Cost
4 mth	60 K	\$ 1000 K	\$ 160
			\$ 180
3 mth	60 K	\$ 2000 K	\$ 160
			\$ 180
0 mth	35 K	\$ 1000 K	\$ 170
			\$ 190
0 mth	40 K	\$ 2000 K	\$ 170
			\$ 190

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# Production Room

Choose the suppliers that you want to engage below

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Lead Time	Capacity	Set-up Cost	Unit Cost
FarFar Away	<input checked="" type="checkbox"/> <span style="border: 1px solid black; padding: 2px;">Change</span>	Model A	40	40	40	40	40	40	40					4	60	\$ 1000	\$ 160
		Model B	20	20	20	20	20	20	20					3	60	\$ 2000	\$ 180
Far Away	<input type="checkbox"/>													0	35	\$ 1000	\$ 170
Pretty Close	<input type="checkbox"/>													0	40	\$ 2000	\$ 190
Ve-Ri-Fas	<input type="checkbox"/>													0	40	\$ 2000	\$ 190

Projections

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Model A</b>												
Product Receipt (K)	0	0	0	0	40	40	40	40	40	40	40	40
Est. / Actual Demand (K)*	0	0	0	0	60	60	60	60	60	60	60	60
Est. / Actual Inventory (K)*	0	0	0	0	-20	-20	-20	-20	-20	-20	-20	-20
<b>Model B</b>												
Product Receipt (K)	0	0	0	0	20	20	20	20	20	20	20	20
Est. / Actual Demand (K)*	0	0	0	0	30	30	30	30	30	30	30	30
Est. / Actual Inventory (K)*	0	0	0	0	-10	-10	-10	-10	-10	-10	-10	-10

\*Numbers are estimates for months preceding the current month

ADVANCE ONE MONTH →



## Gwyneth

*Marketing  
Department*

Good morning. I am Gwyneth from the Marketing department. We have an exciting opportunity coming up that I need your decision on.



## Carey Holder

*Procurement*

Each month, I will update the demand estimate and projected inventory numbers for the rest of the year with new numbers based on the average of the actual data that we have observed.



## Carey Holder

*Procurement*

I will put some exclamation points below the inventory numbers whenever demand exceeds supply. I'll put anywhere from one to three exclamation points below the numbers, depending on the severity of the stockout that we are experiencing.

Next

Back

Next



# Production Room

Choose the suppliers that you want to engage below

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Lead Time mth	Capa- city K	Set-up Cost K	Unit Cost
FarFar Away <input checked="" type="checkbox"/> <a href="#">Change</a>	Model A	40	40	40	40	40	40	40					4	60	\$ 1000	\$ 160
	Model B	20	20	20	20	20	20	20								\$ 180
Far Away <input type="checkbox"/>													3	60	\$ 2000	\$ 160
																\$ 180
Pretty Close <input type="checkbox"/>													0	35	\$ 1000	\$ 170
																\$ 190
Ve-Ri-Fas <input type="checkbox"/>													0	40	\$ 2000	\$ 170
																\$ 190

## Projections

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Model A</b>												
Product Receipt (K)	0	0	0	0	40	40	40	40	40	40	40	40
Est. / Actual Demand (K)*	0	0	0	0	50	50	50	50	50	50	50	50
Est. / Actual Inventory (K)*	0	0	0	0	out	-10	-10	-10	-10	-10	-10	-10
					!!							
<b>Model B</b>												
Product Receipt (K)	0	0	0	0	20	20	20	20	20	20	20	20
Est. / Actual Demand (K)*	0	0	0	0	38	38	38	38	38	38	38	38
Est. / Actual Inventory (K)*	0	0	0	0	out	-18	-18	-18	-18	-18	-18	-18
					!!!							

\*Numbers are estimates for months preceding the current month

**ISSUE CHANGE ORDER**   
Cost: \$2 million

**ADVANCE ONE MONTH** 

## YtD Profit / Loss (\$K)

<b>A</b>	Revenue	9,200
	Markdn Rev	0
	Cost	6,400
	Invnry Cost	0
<b>B</b>	Revenue	5,400
	Markdn Rev	0
	Cost	3,600
	Invnry Cost	0
	Set-up Cost	1,000
	Celldex Cost	0
	Change Order	0
	<b>Gross Margin</b>	<b>3,600</b>

YtD Curr. Calc

### YtD Profit / Loss (\$K)

A	Revenue	70,150
	Markdn Rev	0
	Cost	48,800
	Invntry Cost	0
B	Revenue	47,250
	Markdn Rev	0
	Cost	31,500
	Invntry Cost	0
	Set-up Cost	1,000
	Celldex Cost	0
	Change Order	2,000
	<b>Gross Margin</b>	<b>34,100</b>

YtD

Curr.

Calc

### Curr Month P & L (\$K)

A	Revenue	8,050
	Markdn Rev	0
	Cost	5,600
	Invntry Cost	0
B	Revenue	6,750
	Markdn Rev	0
	Cost	4,500
	Invntry Cost	0
	Set-up Cost	0
	Celldex Cost	0
	Change Order	0
	<b>Gross Margin</b>	<b>4,700</b>

YtD

Curr.

Calc

### Helpful Calculations

*(Costs of stockouts and excess inventory per unit)*

#### Model A

Stockout Cost	\$ 70
Markdown Rev.	\$ 144
Markdown Loss	\$ 16
Mthly Inv Cost	\$ 3
Expect Dec Inv	out

#### Model B

Stockout Cost	\$ 90
Markdown Rev.	\$ 54
Markdown Loss	\$ 126
Mthly Inv Cost	\$ 4
Expect Dec Inv	out

YtD

Curr.

Calc



# Production Room

Choose the suppliers that you want to engage below

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Lead Time mth	Capa- city K	Set-up Cost K	Unit Cost
FarFar Away <input checked="" type="checkbox"/> <a href="#">Change</a>	Model A	40	40	40	40	40	40	40					4	60	\$ 1000	\$ 160
	Model B	20	20	20	20	20	20	20								\$ 180
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																\$ 190

How did you allocate production for the two models between your suppliers, and why?

Supplier	Model A Production	Model B Production	Month Production Started	Changes/Other decisions
1. <del>FarFarAway</del>	40	20	January	Blah, Blah
2. <del>FarAway</del>				
3. <del>PrettyClose</del>	20	10	May	Blah, Blah
4. <del>Ve-Ri-Fas</del>				

	Sep	Oct	Nov	Dec
	40	40	40	40
	50	50	50	50
	-10	-10	-10	-10
	20	20	20	20
	38	38	38	38
	-18	-18	-18	-18

YtD Profit / Loss (\$K)	
A	Revenue 9,200
	Markdn Rev 0
	Cost 6,400
	Invnry Cost 0
B	Revenue 5,400
	Markdn Rev 0
	Cost 3,600
	Invnry Cost 0
	Set-up Cost 1,000
	Celldex Cost 0
	Change Order 0
	<b>Gross Margin 3,600</b>
	YtD Curr. Calc

Did you issue a production change order this year? If so, why? If not, why not?

Est. / Actual Demand (K)\* 0 0 0 0 38  
 Est. / Actual Inventory (K)\* 0 0 0 0 out

\*Numbers are estimates for months preceding the current month

ISSUE CHANGE ORDER Cost: \$2 million

ADVANCE ONE MONTH

## Year

1 Introduction

2 Design Room

3 Forecasting Room

4 Production Room

5 Board Room

## Scorecard

Year One

Profit: \$34,100K

Votes:

Year Two

Profit: \$0K

Votes:

Year Three

## Board Room

Congratulations. You have made it through a year of production. To review your financial performance, click below.



Review Financial Performance

You will now be able to watch the board members of your company discuss your performance. Each board member has a particular area of interest and will give you some advice in that area.



Enter Board Room

It pays to listen to your board members, as they will give valuable advice and look for improvements each year.



## Financial Results\*

	Model A	Model B	Total
<b>Revenues*</b>			
Production Rev.	\$ 70,150	\$ 47,250	\$ 117,400
Markdown Rev.	\$ 0	\$ 0	\$ 0
<b>Total Rev.</b>	<b>\$ 70,150</b>	<b>\$ 47,250</b>	<b>\$ 117,400</b>
<b>Costs*</b>			
Production Cost	\$ 48,800	\$ 31,500	\$ 80,300
Inventory Cost	\$ 0	\$ 0	\$ 0
<b>Total Cost</b>	<b>\$ 48,800</b>	<b>\$ 31,500</b>	<b>\$ 80,300</b>
	Setup Cost	\$ 1,000	
	Celldex Cost	\$ 0	
	Change Order Cost	\$ 2,000	
	<b>Total Costs</b>	<b>\$ 83,300</b>	
<b>Gross Margin*</b>			
	Gross Margin	\$ 34,100	
	Gross Margin %	\$ 29 %	

\*All percentages in \$K

Board Room Results: Did you receive a vote from the board member? What was your annual net profit?

Annual Net Profit: \$ 34,100

Board Member	Vote?	Comments?
Betty	Y / N	Wrong Reasons??
Doug	Y / N	Forecasting difference???
Meryl	Y / N	Production Planning???
Paul	Y / N	Production Allocation???
Yvonne	Y / N	Overproduce???

Other comments:



# Board Room

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Meryl Simmons



Chair of the Board

Next

Good evening, my name is Meryl Simmons, Chair of the Board. The purpose of this meeting is to review your performance.

No Audio

# BOARD ROOM

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It pays to listen to your board members, as they will give valuable advice and look for improvements each year.

Betty



Think more about it.

Back

Next

I have already given you my opinion on your performance this year. To repeat, think more about where the consensus number comes from and how believable it is.

No Aud

Board Room Results: Did you receive a vote from the board member? What was your annual net profit?

Annual Net Profit:	\$ 34,100	
Board Member	Vote?	Comments?
Betty	Y / N	Wrong Reasons??
Doug	Y / N	Forecasting difference???
Meryl	Y / N	Production Planning???
Paul	Y / N	Production Allocation???
Yvonne	Y / N	Overproduce???

Other comments:

- Questions!