

Week 13:

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

#### **Global Supply Chain Simulation**





## End of Class Schedule

- Today:
  - Extra Credit Assignment Due
  - Global Supply Chain Simulation:
    - Introduction
    - Year One (1)
- May I
  - Global Supply Chain Simulation Due
  - Guest Lecture: Ray Adams from SAP Americas
  - Student Feedback Forms (time to complete in class)
  - Global SC Simulation Debrief





## End of Class Schedule

- May 8: Exam 2
  - Similar in format to Exam I
    - Via Blackboard In Class
    - Various Question formats
    - Some Questions relate to mini-case (available prior)
  - Focus on content since Exam I
  - Not Open Book 6 pages of notes allowed (whatever format)



# **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) or Three (3) Person teams One (1) grade
- Submission: Deadline: Thursday May 1 5:30 pm
  - Global SC Sim Student Record Sheet
  - Global SC Sim Table
- Goal: complete year One (1) in class Today
- Complete following years in class today or before Next Thursday
- Help:
  - e-Mail me anytime (609.206.9783)
  - Office Hours Monday 2 4 (e-Mail me for location)



## Challenge

When companies provide extensive product options, it makes predicting and fulfilling customer demand highly complex.

This simulation illustrates how a few key decisions can improve the ability of a company to accurately predict and fulfill demand.

You have just been hired as the Supply Chain Manager responsible for production of two new lines of mobile phones. You will be able to make key decisions and see the impact of your decisions on the performance of your company over the span of 4 years.





# Your Objectives

- You are in charge of releasing two models of mobile phones:
  - Model A: a base model
  - Model B: a high end model
- Decide which features to include and with whom to outsource the work.

### Important Info:

- Sales season is May through December—there is no demand before May or after December
- Demand is anticipated to be consistent over these months















## Design Room

- Add up to four options to the base model
- \*Pay attention to the estimated change in demand created by each option, its impact on profit per unit, and other variables





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	<b>N</b>
4. Infrared	Y / N	Answer

### 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.

Model A: Monthly Estimated Demand May-December in thousands per month



in thousands per month Average: 30 Standard Dev: 15

Model B: Monthly Estimated Demand May-December



Unit Data with Options as Chosen costs are an estimate from the lowest-cost contract manufacturer

	Model A	Model B	
Unit Price	\$230.00	\$270.00	
Unit Cost	\$160.00	\$180.00	
Unit Profit	\$70.00	\$90.00	
Markdown Price*	\$144.00	\$54.00	

\$4.60

\$5.40

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

#### **Enter Your Demand Estimates**

Monthly Holding Cost

This is your forecast for what monthly demand will be each month from May through December. There is no demand expected from January through April.

Model A	k/month
Model B	k/month

\*Please write a short statement about the strategy you employed in this room:

## Forecasting Room

HARVARD

BUS

Predict the demand of the two phone models for each year

\*Remember, demand is spread out evenly across all months from May to December.





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### Forecasting Room

Forecast Room: What was your forecast for each model, and how did you derive that forecast?

л	cast Room.	W Hat wa	s your to coast to	i cacil model,	and now and you act	Ive that forecast	11
	Model	Ecst	Rationale for	Forecast			
	Model A		Guess Blah, H	Blah			
	Model B		Guess B. Bla	ı, Blah			



Yearly Planning												
Actual Demand   Proje	ections											
,	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Model A												
Product Receipt	0	0	0	0	0	0	0	0	0	0	0	0
Actual / Est. Demand	0	0	0	0	36	36	36	36	36	36	36	36
Actual / Est. Inventory	0	0	0	0	-36	-36	-36	-36	-36	-36	-36	-36
Model B												
Product Receipt	0	0	0	0	0	0	0	0	0	0	0	0
					26	2.6	24	26	24	26	2.6	26
Actual / Est. Demand	0	0	0	0	36	36	36	36	36	36	36	36
Actual / Est. Inventory	0	0	0	0	-36	-36	-36	-36	-36	-36	-36	-36
Suppliers												
SUPPLIER UNIT	5 / MON1	гн		BEGIN	PRODUCT	ION						
FarFarAway A		в	k		A Month							
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PRODUCTION HISTORY Jan Feb Mar Apr	May		Aug	Sep	Oct Nov	Dec		T LEAD	D TIME	CAPACI	TY	ETUP OSTS
							UNIT COS A \$160 B \$180		D TIME	CAPACI <sup>®</sup> 60k	C	
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### **Production Room**

- After choosing suppliers you will advance month by month and observe the accuracy of your forecasts
- You will be able to change your production schedule as the months progress, but this will require a significant payment to your suppliers



#### Yearly Planning Actual Demand | Projections in thousands per month Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Production Model A 0 0 0 Product Receipt 0 0 0 0 Room Actual / Est. Demand 36 36 36 36 36 0 36 Actual / Est. Inventory 0 0 0 -36 -36 -36 -36 -36 -36 -36 -36 0 Model B Product Receipt 0 0 0 0 0 0 0 0 0 Actual / Est. Demand 36 36 36 36 36 36 36 36 0 Actual / Est. Inventory 0 -36 -36 -36 -36 -36 -36 -36 -36 Suppliers SUPPLIER FarFarAway t A Month 🔻 SETUP UNIT COST LEAD TIME CAPACITY **PRODUCTION HISTORY** in thousands per month COSTS Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Α 0 0 0 0 0 0 0 0 0 0 0 0 0 A \$160 + w did you allocate production for the two models between your suppliers, an 60k 0 0 0 0 0 0 0 0 B 0 0 0 0 B \$180 Supplier Model A Model B Month Changes SUPPLIER Production Production Production Select A Month 🔻 FarAway Started **PRODUCTION HISTORY** in thousands per month 1. EarFarAway 40 20 January Blah, Bla Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 0 0 0 0 0 0 0 0 0 0 0 0 0 2. EarAway A \$160 А 3 mo 60k 0 B \$180 0 0 0 0 0 0 0 0 В 0 0 0 PrettyClose. 20 10 May Blah, Bla 4 Ve-Ri-Fas SUPPLIER PrettyClose Select A Month 🔻 Did you issue a production change order this year? If so, why? It not why the **PRODUCTION HISTORY** in thousands per month Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 0 0 0 0 0 0 0 0 0 0 0 0 0 A \$170 А 0 mo B \$190 В 0 0 0 0 0 0 0 0 0 0 0 0 SUPPLIER VeryClose Select A Monte **PRODUCTION HISTORY** in thousands per month Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 A \$170 0 mo 40k \$2m B \$190 B 0 0 0 0 0 0 0 0 0 0 0 0 0





#### **Board Review**

Your company's board will now discuss your performance. Each board member has a particular area of interest and will give you some advice in that area.

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



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

Mia













## **Board Room**

- Review your financial performance
  - See how well your strategic choices have played out over the year based on Board Member feedback.



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### **Board Review**



Ankit

Next >



#ard Room Results: Did you reckive a vote from the board member? What was your annual net profit? Annual Net Profit: \$ 34 100

Board Member Vote? Comments? Wrong Reasons?? Betty Y/N Y/N Forecasting difference??? Doug Meryl Y/N Production Planning??? Production Allocation??? Y/N Paul Y/N Overproduce 2?? Yvonne

Other comments:





### **Financial Results**

ard 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 2??

Other comments:





### Continue On

- When the board meeting ends, return to the Design Room to start the next year
- You will repeat the cycle of design, forecasting, production, and board evaluation for four years
- Remember that you can track your progress using the scorecard on the lefthand side of the screen
- You can refer to previous decisions you made by clicking on the Decision History section.



#### Introduction

#### YEAR 3

- 🖍 Design Room
- Forecasting Room
- Heroduction Room
- 📌 Boardroom

#### 🛧 Scorecard

Year 1 Profit: \$1,560,000 Votes:

Year 2 Profit: \$20,899,200 Votes: ★★★★

Year 3 Profit: \$4,462,360

Votes: 🛨 🛨

Decision History

#### • Questions!

