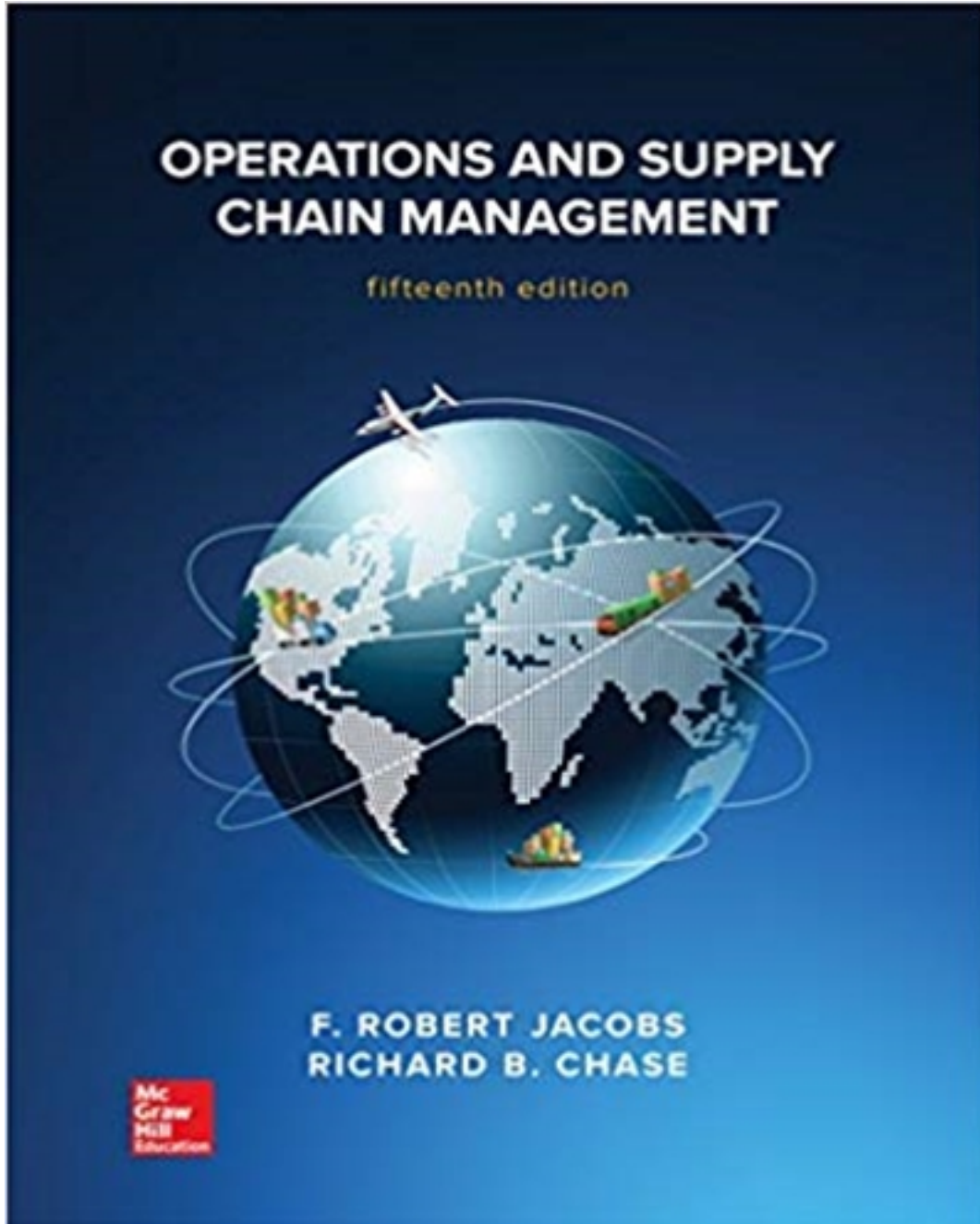


Solutions for Operations and Supply Chain Management 15th Edition by Jacobs

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Solutions

CHAPTER 2

STRATEGY AND SUSTAINABILITY

Discussion Questions

1. What is meant by triple-bottom-line strategy? Give an example of a company that has adopted this type of strategy.

A triple-bottom-line strategy places emphasis on a company's environmental and social responsibilities as well as the traditional bottom line of economic prosperity. It recognizes that the long-term health of the firm is interdependent with the health of the environment and the betterment of society. There are many examples – an interesting one is Ben & Jerry's, famous for their all natural ice cream. Do a search "Ben & Jerry's Corporate Social Responsibility" to find their current statements related to this.

2. Find examples where companies have used features related to environmental sustainability to win new customers.

Car companies use environmental concerns in marketing ads. The development of hybrid and flex-fuel cars is one way they have operationalized those concerns. Consumer goods companies display the "made with recycled material" logo on the packaging. Bottled water manufacturers are using and advertising bottles made with less plastic.

3. What are the major priorities associated with operations and supply chain strategy? How has their relationship to each other changed over the years?

The four major imperatives are cost, quality, delivery, and flexibility. In the sixties, these four imperatives were viewed from a tradeoffs perspective. For example, this meant that improving quality would result in higher cost, and in many cases that was true. However, advances in manufacturing and information technologies since then have reduced the size of those tradeoffs, allowing firms to improve on several or all of these imperatives simultaneously, gaining greater competitive advantage than was possible 50 years ago. The problem now becomes one of prioritizing and managing towards orderly improvement.

4. Why does the proper operations and supply chain strategy keep changing for companies that are world-class competitors?

The top three priorities have generally remained the same over time: make it good, make it fast, and deliver it on time. Others have changed. Part of this may be explained by realizing that world class organizations have achieved excellence in these three areas and are, therefore, focusing attention on some of the more minor areas to gain competitive advantage. The changes in the minor priorities may result from recognizing opportunities or from changes in customer desires or expectations.

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5. What do the expressions *order winners* and *order qualifiers* mean? What was the order winner(s) for your last purchase of a product or service?

Order winners are dimensions that differentiate the product or service or services of one firm from another. Order qualifiers are dimensions that are used to screen a product or service as a candidate for purchase. Order qualifiers get a company's "foot in the door." Order winners are what make the sale. Obviously, answers will vary for the order winners from your last purchase.

6. Pick a company that you are familiar with and describe its operations strategy and how it relates to winning customers. Describe specific activities used by the company that support the strategy.

Student answers will vary widely based on their experiences and views. It might be helpful for a classroom exercise to assign certain companies to a number of students/teams and compare their answers in class.

7. At times in the past, the dollar showed relative weakness with respect to foreign currencies, such as the yen, mark, and pound. This stimulated exports. Why would long-term reliance on a lower valued dollar be at best a short-term solution to the competitiveness problem?

This approach is dependent on economic policies of other nations. This is a fragile dependency. A long-term approach is to increase manufacturing and service industry productivity in order to regain competitive advantage. At a national level, solutions appear to lie in reversing attitudes. At a firm level, competitive weapons are consistent quality, high performance, dependable delivery, competitive pricing, and design flexibility.

8. Identify an operations and supply chain - related disruption that recently impacted a company. What could the company have done to have minimized the impact of this type of disruption prior to it occurring?

The March 2011 tsunami that struck Japan was geographically concentrated but had global impact on multiple firms, many of which had no physical presence at all in the affected area. Examples include firms that had sole source agreements with suppliers in the affected area. The tsunami left these companies scrambling to find new suppliers to feed into their supply chains. These firms could have reduced the impact of the tsunami by having a few high-quality, dependable suppliers located in different geographical regions. There are many other examples that could be taken from this one event. A simple Internet search will provide plenty of material for discussion.

9. What do we mean when we say productivity is a relative measure?

For productivity to be meaningful, it must be compared with something else. The comparisons can be either intra-company as in the case of year-to-year comparisons of the same measure, or intercompany as in the case of benchmarking. Intercompany comparisons of single factor productivity measures can be somewhat tenuous due to differences in accounting practices (especially when comparing with foreign competitors) and the balance of labor to capital resources. Total factor productivity measures are somewhat more robust for comparison purposes.

Chapter 02 - Strategy and Sustainability

Objective Questions

1. Shell Oil Company's motto "People, Planet and Profit" is a real-world implementation of what OSCM concept?

Triple bottom line

2. A firm's *strategy* should describe how it intends to create and sustain value for what entities?

its current shareholders

3. What is the term used to describe individuals or organizations that are influenced by the actions of a firm?

Stakeholders

4. How often should a company develop and refine the operations and supply chain strategy.

At least yearly

5. What is the term used to describe product attributes that attract certain customers and can be used to form the competitive position of a firm?

Competitive dimensions

6. What are the two main competitive dimensions related to product delivery?

Delivery speed and delivery reliability

7. What are the two characteristics of a product or service that define quality?

Design quality and process quality

8. What is the diagram that shows how a company's strategy is delivered by a set of supporting activities?

activity-system map

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9. In implementing supply chain strategy, a firm must minimize its total cost without compromising the needs of what group of people?

Customers

10. What is defined as the likelihood of disruption that would impact the ability of a company to continuously supply products or services?

Supply chain risk

11. Risks caused by natural or manmade disasters, and therefore impossible to reliably predict, called?

Disruption risks

12. Match the following common risks with the appropriate mitigation strategy.

<u>E</u> Country risks	A: Detailed tracking, alternate suppliers
<u>D</u> Regulatory risk	B: Careful selection and monitoring suppliers
<u>A</u> Logistics failure	C: Contingency planning, insurance
<u>C</u> Natural disaster	D: Good legal advice, compliance
<u>B</u> Major quality failure	E: Currency hedging, local sourcing

13. What is the term used to describe the assessment of the probability of a negative event against the aggregate severity of the related loss?

Risk mapping

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14. As Operations Manager, you are concerned about being able to meet sales requirements in the coming months. You have just been given the following production report.

	JAN	FEB	MAR	APR
Units Produced	2300	1800	2800	3000
Hours per Machine	325	200	400	320
Number of Machines	3	5	4	4

Find the average monthly productivity (units per machine hour).

To answer this we need to realize that the measure of hours given is per machine, so we have to multiply that by the number of machines in each period to get the total machine hours in each period. Those figures are used in the calculations below.

Average productivity: $(2300/975 + 1800/1000 + 2800/1600 + 3000/1280)/4$

Average productivity $(2.36+1.80+1.75+2.34)/4= 2.06$ units per machine hour

15. Sailmaster makes high-performance sails for competitive windsurfers. Below is information about the inputs and outputs for one model, the Windy 2000.

Units sold	1,217
Sale price each	\$1,700
Total labor hours	46,672
Wage rate	\$12/hour
Total materials	\$60,000
Total energy	\$4,000

Calculate the productivity in **sales revenue/labor expense**.

We have to do some interim calculations here. Sales revenue is calculated by multiplying units sold by the unit sales price. Labor expense is calculated by multiplying labor hours by the wage rate.

$$(1217*1700) / (46672*12) = 3.69$$

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16. *Live Trap Corporation* received the data below for its rodent cage production unit. Find the **total** productivity?

Output	Input	
50,000 cages	Production time	620 labor hours
Sales price: \$3.50 per unit	Wages	\$7.50 per hour
	Raw materials (total cost)	\$30,000
	Component parts (total cost)	\$15,350

Total productivity could be expressed two ways here based on how you express output: in units sold, or dollars of sales.

Units sold:

$$50,000 / ((620 * \$7.50) + 30,000 + 15,350) = 1.00 \text{ units sold per dollar input}$$

Dollars of sales:

$$(50000 * 3.5) / ((620 * \$7.50) + 30,000 + 15,350) = 3.5 \text{ dollars in sales per dollar input}$$

17. Two types of cars (Deluxe and Limited) were produced by a car manufacturer last year. Quantities sold, price per unit, and labor hours follow. What is the labor productivity for each car? Explain the problem(s) associated with the labor productivity.

	QUANTITY	\$/UNIT
Deluxe car	4,000 units sold	\$8,000/car
Limited car	6,000 units sold	\$9,500/car
Labor, Deluxe	20,000 hours	\$12/hour
Labor, Limited	30,000 hours	\$14/hour

Labor Productivity – units/hour

Model	Output in Units	Input in Labor Hours	Productivity (Output/Input)
Deluxe Car	4,000	20,000	0.20 units/hour
Limited Car	6,000	30,000	0.20 units/hour

Labor Productivity – dollars

Model	Output in Dollars	Input in Dollars	Productivity (Output/Input)
Deluxe Car	4,000(\$8,000)= \$32,000,000	20,000(\$12.00)= \$240,000	133.33
Limited Car	6,000(\$9,500)=	30,000(\$14.00)=	135.71

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\$57,000,000	\$420,000
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The labor productivity measure is a conventional measure of productivity. However, as a partial measure, it may not provide all of the necessary information that is needed. For example, increases in productivity could result from decreases in quality, and/or increases in material cost.

18. A U.S. manufacturing company operating a subsidiary in an LDC (less-developed country) shows the following results:

	U.S.	LDC
Sales (units)	100,000	20,000
Labor (hours)	20,000	15,000
Raw materials (currency)	\$20,000	FC 20,000
Capital equipment (hours)	60,000	5,000

- a. Calculate partial labor and capital productivity figures for the parent and subsidiary. Do the results seem misleading?

Labor Productivity

Country	Output in Units	Input in Hours	Productivity (Output/Input)
U.S.	100,000	20,000	5.00 units/hour
LDC	20,000	15,000	1.33 units/hour

Capital Equipment Productivity

Country	Output in Units	Input in Hours	Productivity (Output/Input)
U.S.	100,000	60,000	1.67 units/hour
LDC	20,000	5,000	4.00 units/hour

Yes. You might expect the capital equipment productivity measure to be higher in the U.S. than in a LDC. Also, the measures seem contradictory. Each plant appears to be far more productive than the other on one measure, but much worse on the other.

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- b. Compute the multifactor productivity figures for labor and capital together. Do the results make more sense?

Multifactor – Labor and Capital Equipment

Country	Output in Units	Input in Hours	Productivity (Output/Input)
U.S.	100,000	20,000 + 60,000 = 80,000	1.25 units/hour
LDC	20,000	15,000 + 5,000 = 20,000	1.00 units/hour

Yes, labor and equipment can be substituted for each other. Therefore, this multifactor measure is a better indicator of productivity in this instance.

- c. Calculate raw material productivity figures (units/\$ where \$1 = FC 10). Explain why these figures might be greater in the subsidiary.

Raw Material Productivity

Country	Output in Units	Input in Dollars	Productivity (Output/Input)
U.S.	100,000	\$20,000	5.00 units/\$
LDC	20,000	FC 20,000/\$10 = \$2,000	10.00 units/\$

The raw material productivity measures might be greater in the LDC due to a reduced cost paid for raw materials, which is typical of LDC's, especially if there are local sources for the raw materials.

19. Various financial data for the past two years follow. Calculate the total productivity measure and the partial measures for labor, capital, and raw materials for this company for both years. What do these measures tell you about this company?

		<u>Last Year</u>	<u>This Year</u>
Output:	Sales	\$200,000	\$220,000
Input:	Labor	30,000	40,000
	Raw materials	35,000	45,000
	Energy	5,000	6,000
	Capital	50,000	50,000
	Other	2,000	3,000

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Total Productivity

Year	Output in Dollars	Input in Dollars	Productivity (Output/Input)
Last Year	\$200,000	\$30,000 + 35,000 + 5,000 + 50,000 + 2,000 = \$122,000	1.64
This Year	\$220,000	\$40,000 + 45,000 + 6,000 + 50,000 + 3,000 = \$144,000	1.53

Partial Measure – Labor

Year	Output in Dollars	Input in Dollars	Productivity (Output/Input)
Last Year	\$200,000	\$30,000	6.67
This Year	\$220,000	\$40,000	5.50

Partial Measure – Raw Materials

Year	Output in Dollars	Input in Dollars	Productivity (Output/Input)
Last Year	\$200,000	\$35,000	5.71
This Year	\$220,000	\$45,000	4.89

Partial Measure – Capital

Year	Output in Dollars	Input in Dollars	Productivity (Output/Input)
Last Year	\$200,000	\$50,000	4.00
This Year	\$220,000	\$50,000	4.40

The overall productivity measure is declining, which indicates a possible problem. The partial measures can be used to indicate cause of the declining productivity. In this case, it is a combination of declines in both labor and raw material productivity, which were somewhat offset by an increase in the capital productivity. Further investigation should be undertaken to explain the drops in both labor and raw material productivity. An increase in the cost of both of these measures, without an accompanying increase in the selling price might explain these measures.

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20. An electronics company makes communications devices for military contracts. The company just completed two contracts. The navy contract was for 2,300 devices and took 25 workers two weeks (40 hours per week) to complete. The army contract was for 5,500 devices that were produced by 35 workers in three weeks. On which contract were the workers more productive?

Contract	Output in Units	Input in Hours	Productivity (Output/Input)
Navy	2300	$25(2)40 = 2000$	1.15
Army	5500	$35(3)40 = 4200$	1.31

The workers were more productive on the Army contract.

21. A retail store had sales of \$45,000 in April and \$56,000 in May. The store employs eight full-time workers who work a 40-hour week. In April the store also had seven part-time workers at 10 hours per week, and in May the store had nine part-timers at 15 hours per week (assume four weeks in each month). Using sales dollars as the measure of output, what is the percentage change in productivity from April to May?

Month	Output in Dollars	Input in Hours	Productivity (Output/Input)	Percentage Change
April	\$45,000	$(8(40)+7(10))*4 = 1560$	28.85	
May	\$56,000	1820	30.77	$(30.77-28.85)/28.85 = 6.66\%$

22. A parcel delivery company delivered 103,000 packages last year, when its average employment was 84 drivers. This year the firm handled 112,000 deliveries with 96 drivers. What was the percentage change in productivity over the two years?

Year	Output in Packages	Input in Drivers	Productivity (Output/Input)	Percentage Change
Last	103,000	84	1226.2	
This	112,000	96	1166.7	$(1166.7 - 1226.2)/1226.2 = - 4.85\%$

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23. A fast-food restaurant serves hamburgers, cheeseburgers, and chicken sandwiches. The restaurant counts a cheeseburger as equivalent to 1.25 hamburgers and chicken sandwiches as 0.8 hamburger. Current employment is five full-time employees who each work a 40-hour week. If the restaurant sold 700 hamburgers, 900 cheeseburgers, and 500 chicken sandwiches in one week, what is its productivity? What would its productivity have been if it had sold the same number of sandwiches (2,100), but the mix was 700 of each type?

Part	Output in Hamburger Equivalents	Input in Hours	Productivity (Output/Input)
700 Hamburgers			
900 Cheeseburgers (1.25)	2225	200	11.125
500 Chicken Sandwiches (.80)			
700 Hamburgers			
700 Cheeseburgers (1.25)	2135	200	10.675
700 Chicken Sandwiches (.80)			

Timbuk2¹

You can have a lot of fun with this case. Start off by logging on to the Timbuk2 website and explore what is going on there. If you have a little money in a teaching account you might actually order a custom bag and give it away or raffle it off in class, this will really get their attention. You make a big deal of it all when the bag comes in and you give it to the lucky student. This also helps to reinforce the topic with the students.

1. Consider the two categories of products that Timbuk2 makes and sells. For the custom messenger bag, what are the key competitive dimensions that are driving sales? Are their competitive priorities different for the new laptop bags sourced in China?

This is one of the “other dimensions” and in this case it is the customization of the bag. Other than being able to get the colors they prefer, the customer also get pockets that meet the unique needs the customer has in mind. They can be successful with standardizing the laptop bags since the purpose here is pretty well defined.

2. Compare the assembly line in China to that in San Francisco along the following dimensions: (1) volume or rate of production, (2) required skill of the workers, (3) level of automation, and (4) amount of raw materials and finished goods inventory.

Dimension	China	San Francisco
Volume/rate of production	High	Low
Required skill of workers	Low	High
Level of automation	High	Low
Raw materials and finished good inventory	Low raw materials, but may have finished goods	High raw materials, virtually no finished goods

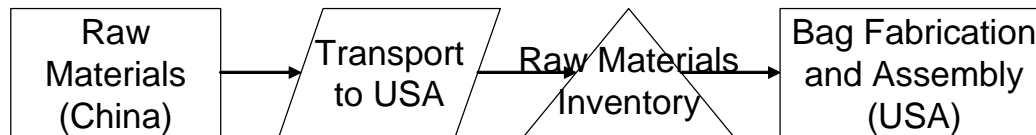
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3. Draw two diagrams, one depicting the supply chain for those products sourced in China and the other depicting the bags produced in San Francisco. Show all the major steps including raw material, manufacturing, finished goods, distribution inventory, and transportation. Other than manufacturing cost, what other costs should Timbuk2 consider when making the sourcing decision?

Bag Fabrication and Assembly in China



Bag Fabrication and Assembly in USA



The big cost other than manufacturing is the cost to transport material to the USA versus the cost of transporting the completed bags to the USA. Here we assume that the material would be sourced in China. This is probably not a bad assumption.

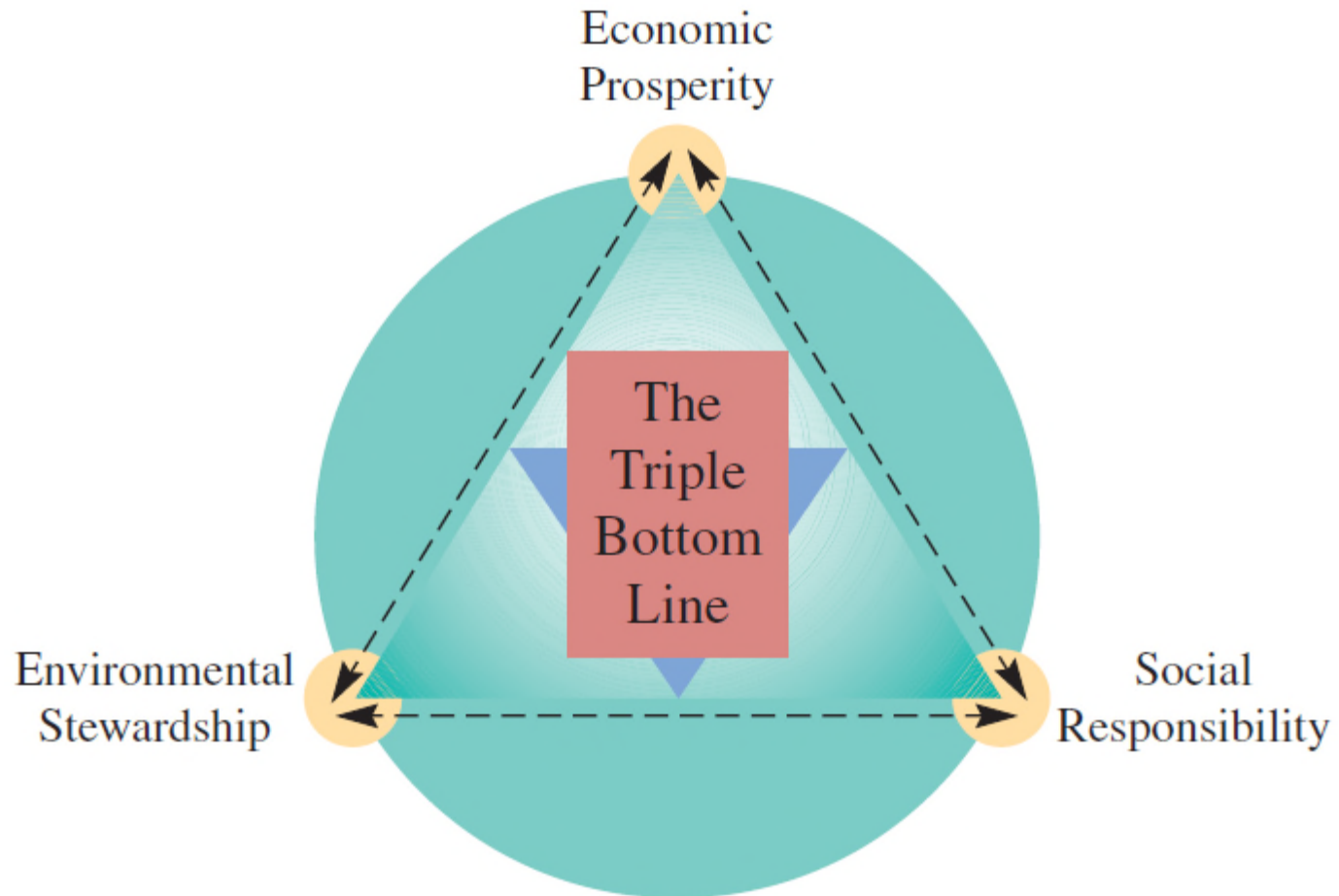
Chapter 2 Strategy

- LO2–1: Know what a sustainable business strategy is and how it relates to operations and supply chain management.
- LO2–2: Define operations and supply chain strategy.
- LO2–3: Explain how operations and supply chain strategies are implemented.
- LO2–4: Understand why strategies have implications relative to business risk.
- LO2–5: Evaluate productivity in operations and supply chain management.

Sustainable Strategy

- The firm's strategy describes how it will create and sustain value for its current shareholders
 - Shareholders – individuals or companies that legally own one or more shares of stock in the company
 - Stakeholders – individuals or organizations who are directly or indirectly influenced by the actions of the firm
- Adding a sustainability requirement means meeting value goals without compromising the ability of future generations to meet their own needs
- Triple bottom line – evaluating the firm against social, economic, and environmental criteria

Triple Bottom Line



Triple Bottom Line Continued

- **Social responsibility:** this pertains to fair and beneficial business practices toward labor, the community, and the region in which a firm conducts its business
- **Economic prosperity:** the firm is obligated to compensate shareholders who provide capital
- **Environmental stewardship:** this refers to the firm's impact on the environment

What is Operations and Supply Chain Strategy?

- **Operations and supply chain strategy:** setting broad policies and plans for using the resources of a firm – must be integrated with corporate strategy
 - Corporate strategy provides overall direction and coordinates operational goals with those of the larger organization
 - Can be viewed as part of a planning process that coordinates operational goals with those of the larger organization
- **Operations effectiveness:** performing activities in a manner that best implements strategic priorities at a minimum cost

Formulating an Operations and Supply Chain Strategy



Competitive Dimensions

Price

- Make the product or deliver the service cheap

Quality

- Make a great product or delivery a great service

Delivery Speed

- Make the product or deliver the service quickly

Delivery Reliability

- Deliver it when promised

Coping with Changes in Demand

- Change its volume

Flexibility and New-Product Introduction Speed

- Change it

Other Product-Specific Criteria: “Support It”

Technical liaison and support

- A supplier may be expected to provide technical assistance for product development

Meeting a launch date

- A firm may be required to coordinate with other firms on a complex project

Supplier after-sale support

- An important competitive dimension may be the ability of a firm to support its product after the sale

Environmental impact

- This dimension is related to environmental/green criteria

Other dimensions

- These typically include such factors as colors available, size, weight, location of the fabrication site, customization available, and product mix options

Trade-Offs

- Management must decide which parameters of performance are critical and concentrate resources on those characteristics
- For example, a firm that is focused on low-cost production may not be capable of quickly introducing new products
- Straddling: seeking to match a successful competitor while maintaining its existing position
 - It adds features, services, or technology to existing activities
 - Often a risky strategy

Order Winners and Order Qualifiers

- **Order qualifiers:** those dimensions that are necessary for a firm's products to be considered for purchase by customers
 - Features customers will not forego
- **Order winners:** criteria used by customers to differentiate the products and services of one firm from those of other firms
 - Features that customers use to determine which product to ultimately purchase

Strategies are Implemented Using Operations and Supply Chain Activities

- All operations activities relate to one another
- To be efficient, the firm must minimize total cost without compromising customers' needs
- Consider IKEA
 - Targets young, low cost buyers
 - Uses a self-service model showing furniture in familiar settings
 - Designs its own low-cost, modular, ready-to-assemble furniture
 - Stores stock the products in boxes
 - Customers pick their own boxes from inventory
 - Offers in-store child care and extended hours

Supply Chain Risk Examples

- Japanese Tsunami (March 2011)
- In 1996 General Motors experienced an 18-day labor strike at a brake supplier factory
 - This strike idled workers at 26 assembly plants and led to an estimated \$900 million reduction in earnings
- In 1997 a Boeing supplier's failure to deliver two critical parts led to a loss of \$2.6 billion
- In 2000, a 10-minute fire at a Phillips plant that supplied integrated circuits led to a \$400 million loss

Assessing Risk Associated with OSCM Strategy

- All strategies have an inherent level of risk
 - Uncertainty in the environment causes supply chain planners to evaluate the relative riskiness of their strategies
- **Supply chain risk:** the likelihood of a disruption that would impact the ability of a company to continuously supply products or services
 1. Supply chain coordination risks are associated with the day-to-day management of the supply chain
 2. Disruption risks are caused by natural or manmade disasters

Risk Mitigation Framework

1. Identify the sources of potential disruptions
 - Focus on highly unlikely events that would cause a significant disruption to normal operations
2. Assess the potential impact of the risk
 - Here the goal is to quantify the probability and the potential impact of the risk
 - Could be based on financial impact, environmental impact, ongoing business viability brand image/reputation, potential human lives, and so on
3. Develop plans to mitigate the risk
 - A detailed strategy for minimizing the impact of the risk could take many different forms, depending on the nature of the problem

Risk Mitigation Strategies

Risk	Risk Mitigation Strategy
Natural disaster	Contingency planning (alternate sites, etc.) insurance
Country risks	Hedge currency, produce/source locally
Supplier failure	Use multiple suppliers
Network provider failure	Support redundant digital networks
Regulatory risk	Up-front and continuing research; good legal advice, compliance
Commodity price risks	Multisource, commodity hedging

Risk Mitigation Strategies Continued

Risk	Risk Mitigation Strategy
Logistics failure	Safety stock, detailed tracking and alternate suppliers
Inventory risks	Pool inventory, safety stock
Major quality failure	Carefully select and monitor suppliers
Loss of customers	Service/product innovation
Theft and vandalism	Insurance, security precautions, knowledge of likely risks, patent protection, etc.

Risk Assessment Matrix

	Natural/ manmade disasters	Country risks	Supplier failure	Network provider failure	Regulatory risk	Commodity price risks	Logistics failure	Inventory risks	Quality risks
Outsourcing									
Sole sourcing									
Lean practices									
Distribution hubs									

High impact	Moderate impact
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Productivity Measurement

- Productivity is a measure of how well resources are used
- $Productivity = \frac{Outputs}{Inputs}$
- Productivity is a relative measure
 - Must be compared to something else to be meaningful
 - Operations can be compared to each other
 - Firms can be compared to other firms or themselves over time
- Partial productivity measures compare output to a single input
- Multifactor productivity measures compare output to a group of inputs
- Total productivity measures compare output to all inputs

Productivity Calculation

Partial measure	$\frac{\text{Output}}{\text{Labor}}$ or $\frac{\text{Output}}{\text{Capital}}$ or $\frac{\text{Output}}{\text{Materials}}$ or $\frac{\text{Output}}{\text{Energy}}$
Multifactor measure	$\frac{\text{Output}}{\text{Labor} + \text{Capital} + \text{Energy}}$ or $\frac{\text{Output}}{\text{Labor} + \text{Capital} + \text{Materials}}$
Total measure	$\frac{\text{Output}}{\text{Inputs}}$ or $\frac{\text{Goods and services produced}}{\text{All resources used}}$
Input and Output Production Data (\$1,000)	
Productivity Measure Examples	
Output	
1. Finished units	\$10,000
2. Work in process	2,500
3. Dividends	1,000
Total output	\$13,500
Total measure	
$\frac{\text{Total output}}{\text{Total input}} = \frac{13,500}{15,193} = 0.89$	
Multifactor measures:	
$\frac{\text{Total output}}{\text{Labor} + \text{Material}} = \frac{13,500}{3,153} = 4.28$	
$\frac{\text{Finished units}}{\text{Labor} + \text{Material}} = \frac{10,000}{3,153} = 3.17$	
Input	
1. Labor	\$ 3,000
2. Material	153
3. Capital	10,000
4. Energy	540
5. Other expenses	1,500
Total input	\$ 15,193
Partial measures:	
$\frac{\text{Total output}}{\text{Energy}} = \frac{13,500}{540} = 25$	
$\frac{\text{Total output}}{\text{Energy}} = \frac{13,500}{540} = 25$	

Partial Measures of Productivity

Business	Productivity Measure
Restaurant	Customers (meals) per labor hour
Retail store	Sales per square foot
Chicken farm	Pounds of meat per pound of feed
Utility plant	Kilowatt hours per ton of coal
Paper mill	Tons of paper per cord of wood

Summary

- A strategy that is sustainable needs to create value
- Shareholders are equity owners in the company
- Stakeholders are individuals and organizations that are influenced by the firm
- Operations and supply chain strategy involves setting the broad policies for using a firm's resources
 - Coordinates operational goals with those of the larger organization
- Strategies are implemented through a set of activities designed to deliver products and services in a manner consistent with the firm's overall business strategy
- Operations and supply chain strategies need to be evaluated relative to their riskiness
- Supply chain disruptions are unplanned and unanticipated events that disrupt the normal flow of goods and materials
 - Supply chain coordination risks and disruption risks
- Productivity measures are used to ensure that the firm makes the best use of its resources

Practice Exam

1. A strategy that is designed to meet current needs without compromising the ability of future generations to meet their needs
2. The three criteria included in a triple bottom line
3. The seven operations and supply chain competitive dimensions
4. It is probably most difficult to compete on this major competitive dimension
5. This occurs when a company seeks to match what a competitor is doing while maintaining its existing competitive position

Practice Exam Continued

6. A criterion that differentiates the products or services of one firm from those of another
7. A screening criterion that permits a firm's products to be considered as possible candidates for purchase
8. A diagram showing the activities that support a company's strategy
9. A measure calculated by taking the ratio of output to input