

CHAPTER ONE

Introduction to Managing Operations Across the Supply Chain

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| Where We Are Now | | | | | | |
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| Chapter | Relationships | Sustainability | Globalization | Organizational Culture/Ethics | Change Management | 1 |
| Part 1 Supply Chain: A perspective for Operations Management | | | | | | |
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Objectives

- 1. Explain operations management and its role in businesses and society
- 2. Describe operations decisions managers must make
- 3. Explain the role of processes and 'process thinking'
- 4. Explain supply chain and viewing operations from a 'supply chain perspective'
- 5. Identify operations management partners and groups that work together
- 6. Define operational activities across the supply chain

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Operations Management (OM) is everywhere

PRODUCTS: Everything you wear, eat, sit on or in, use, read, or knock about on a sports field comes to you courtesy of operations.

SERVICES: Every book you borrow from the library, every medical treatment you receive, every lecture you attend at a university, every service you receive comes to you courtesy of operations.



Definitions

- Operations Management (OM): is the management of processes used to design, supply, produce, and deliver valuable goods and services to customers
- Supply Chain (SC): the global network of organizations and activities involved in designing, transforming, consuming and disposing of goods and services.
- Supply Chain Management (SCM): is management of the processes and relationships in a supply chain

Why study OM and SCM?

- OM involves using resources and managing organizational relationships
- When done well, effective OM and SCM can:
 - -Use resources more efficiently
 - -Improve business processes effectiveness
 - -Improve relationships between business entities
 - -Help meet strategic goals
 - -Increase customer service

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SCM Decisions

- What needs to be done to give customers what they want?
- How are we going to do what we need to do, and measure our performance?
- When should activities be carried out?
- Where should activities occur?
- **Who** should do the activities?



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Characteristics of Goods and Services

Goods

Services

- Tangible
- Can be inventoried
- Little customer contact
- Long lead time
- Often capital-intensive
- Quality easily assured
- Material is transformed
- Intangible
- · Cannot be inventoried
- Extensive customer contact
- · Short lead time
- Often labor intensive
- Quality harder to assess
- Information or customer is transformed

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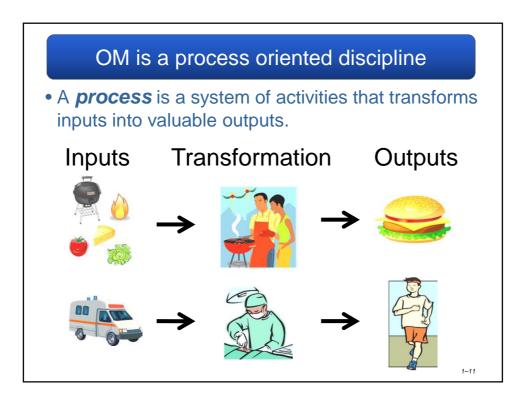
Activity

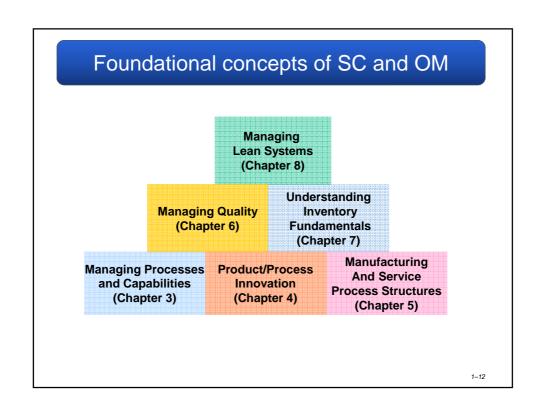
Think of the last time you visited an amusement park...

- How many different 'pure goods' did you encounter?
- How many different 'pure services' did you encounter?
- How many were both a good and a service?
- How many were pre-prepared or prepared just as you ordered?



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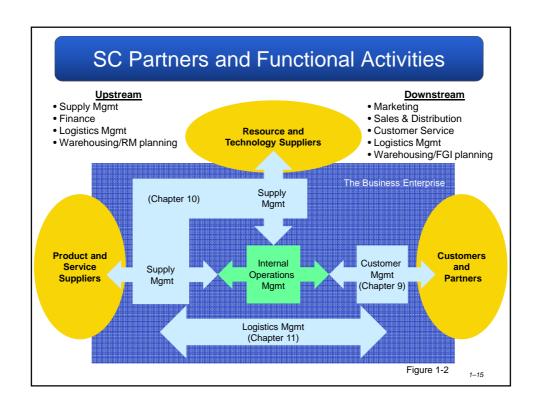
From OM to SCM

- Changes in the following have moved us from an OM to a SCM focus:
 - Technology and Infrastructure: especially in communications and transportation
 - Barriers to trade: shifting economies, governmental control and societal expectations
 - Core capabilities: organizations focusing on their unique skills that create competitive advantage
 - Collaborative networks: greater influence of, and reliance upon, business partners

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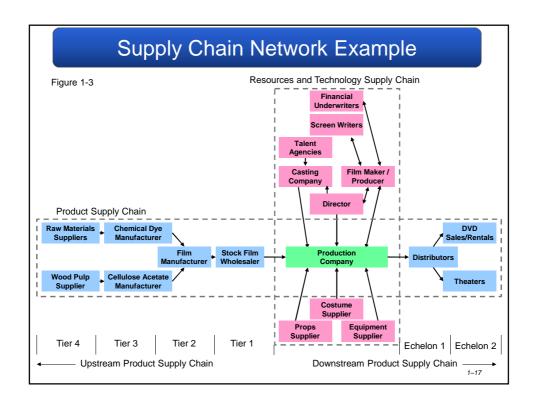
OM Partners

- Customers use or consume output
- Suppliers provide inputs
- **Stakeholders** have an interest in organizational well being and performance



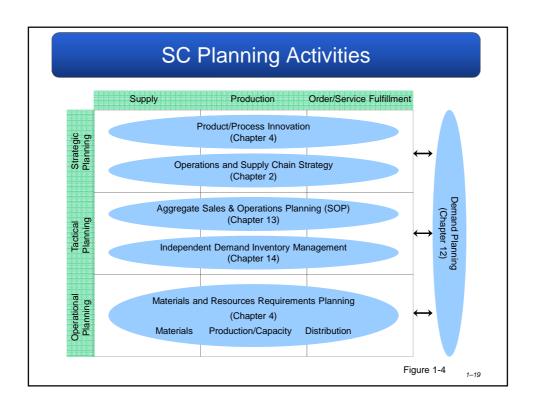
OM Relationships

- Customer Management: interfaces with customers and order processing and fulfillment
- Supply Management: processes to identify, acquire and administer inputs
- Logistics Management: movement of materials and information within, into and out of the firm



Levels of Planning

- **Strategic Planning**: long term decisions defining the objectives and capabilities
- Tactical Planning: intermediate term decisions defining how capacity is used to meet demand
- *Operational Planning*: short term priorities and schedules for resource allocation



Introduction to Operations Management Summary

- 1. Operations helps deliver superior products to a firm's targeted customers.
- Operations manages inputs through transformation processes into outputs. OM systems include customer relationship management, internal OM, supply management and logistics.
- 3. OM's partners include customers, suppliers, stakeholders and other business functions within the firm.
- 4. OM decisions determine firm capabilities and success
- 5. OM is managing processes, SCM is managing flow and relationships
- 6. OM is dynamic