

Sloan School of Management Massachusetts Institute of Technology

Customer Service Operations Analysis Prof. Charles Fine

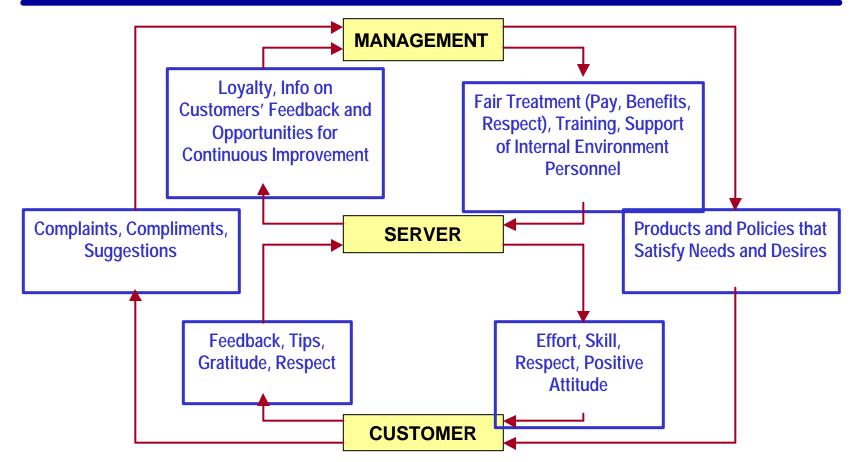
Adapted from material compiled by Prof. Gabriel R. Bitran

Some Characteristics of Services

Intangibility - explicit and implicit intangibles

- "We manufacture perfume; we sell hope."
- Perishability an hour of non-production is an hour lost
 - Airplane w/o spare part costs > \$10K/hr
- Heterogeneity inherent variability of service
 - Each doctor's bedside care is unique
- Simultaneity services are simultaneously produced and consumed
 - A poor attitude by the server cannot be recalled

Dynamic Interactions



Citibank-call center-consumer

Ford-dealer-consumer

McDonalds-server-consumer

Hospital-nurse-consumer Unilever-Walmart-consumer Dell-Service call center-consumer

Some elements of the Encounter

• The concept of the Script

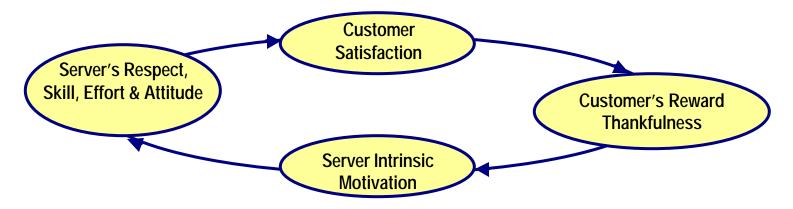
How well can you anticipate customer needs?

- Two factors that contribute to the inherent difficulty of managing high contact services:
 - Heterogenety of human behavior (performance)
 - ✓ Variability of the service demanded
- Due to the variability of the service demanded, training alone is not sufficient. At some point there is the need for an underlying value system to guide the proper behavior.

Solution Section Se

Some elements of the Encounter (cont.)

 Customer satisfaction is highly dependent on the attitude of the server



- Server's <u>perceived</u> status can be directly related to customers (customers want to wait in line even if others are shorter)
- Servers <u>derive</u> status from the status of their customers ("Ladies & Gentlemen serving Ladies & Gentlemen")

Some elements of the Encounter (cont.)

- The intangibility of services makes it difficult to <u>concept test</u>
- The simultaneity of production and consumption limit <u>test marketing</u> because the entire production, including backroom, may have to be created
- The variability of service delivery also affects the ability to <u>test market</u> since customer reactions will vary and controlled simulation will be difficult to achieve

Phases of the Service Encounter

What are the phases for each encounter?

- Access -- call, visit, website
- Check-in -- welcome, first impression
- ∠ Diagnose -- need identification
- Service -- satisfaction provision
- Check-out -- conclusion, last impression
- Second Section Confirmation, feedback for future improvement

Concepts of power and control

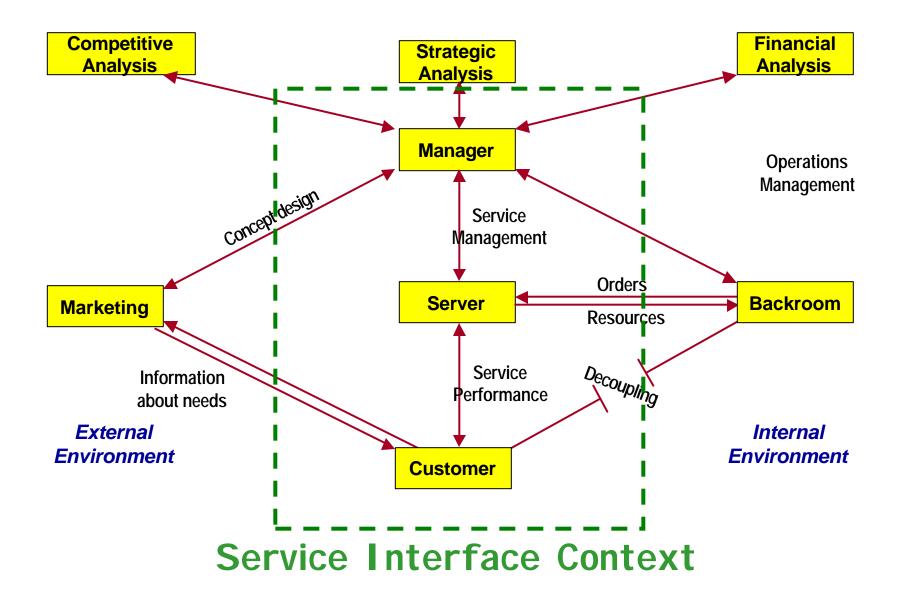
- Supply Chain level & Service Encounter Level
- Real and apparent control
- Customers not only influence servers but also attempt to control them

Strategies servers use to assert control

- **Ignoring** the customer (waiter, AOL)
- <u>Rejecting</u> the customer (bank)
- <u>Replying</u> to a customer's attempt to control (airline attendant)
- <u>Reacting</u> (other than verbally) to a customer's attempt to control
- Engaging the customer so that he/she does not try to seek control (Microsoft source code not provided)

The formulation of communities of servers (unions, buying groups)

External and Internal Environment



External Environment

The Outside Context to which the Business must Respond both Proactively and Reactively

- Historical and Cultural Setting
- Economic Trends
- Social Trends
- Technological Developments
- Competitive Environment

Concept Design

Identification of a Service which

- 1. will Satisfy a Specific Customer Need,
- 2. in a Target Market,
- 3. in a Way that Adds Value,
- 4. for which Customers Will Pay Enough to Produce Profits

The Organizational Context which Contains and Supports all the Activities within the Business

- History/Life Cycle
- Founder's/Leaders' Style and Values
- Corporate Culture
- Organizational Design
- Resource Constraints Human and Capital

Breakthrough Concepts for Achieving Quality Objectives

Critical Thinking

Breakthrough Concepts Statistical Process Control (6 sigma) Just-In-Time Design for Manufacturability Cycle Time Reduction

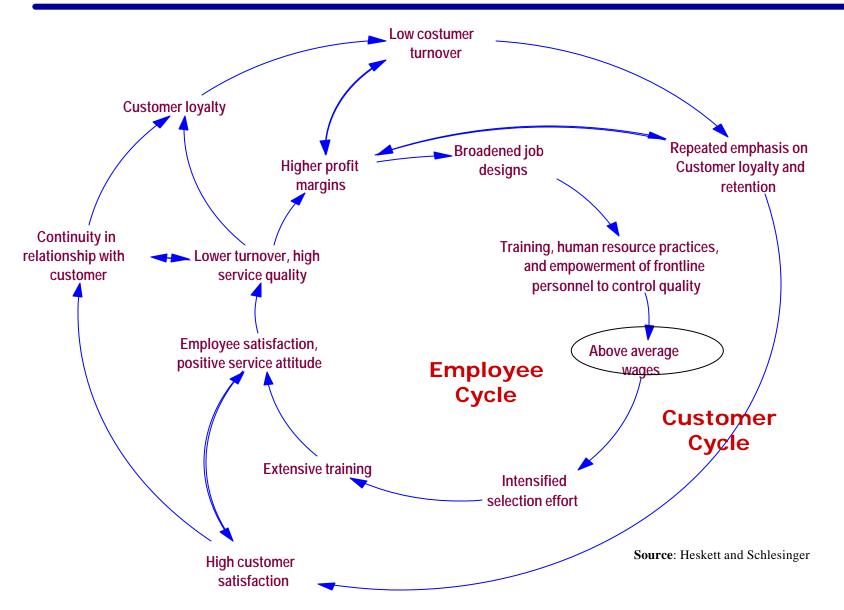
<u>Objectives:</u> Drive out variability Conform to requirements (costumer and supplier) Zero Defects Breakthrough Concepts Values Empowerment Extraordinary Guarantee Experimental Development

Objectives: Do whatever it takes Total Satisfaction Zero Defections (customer and employees)

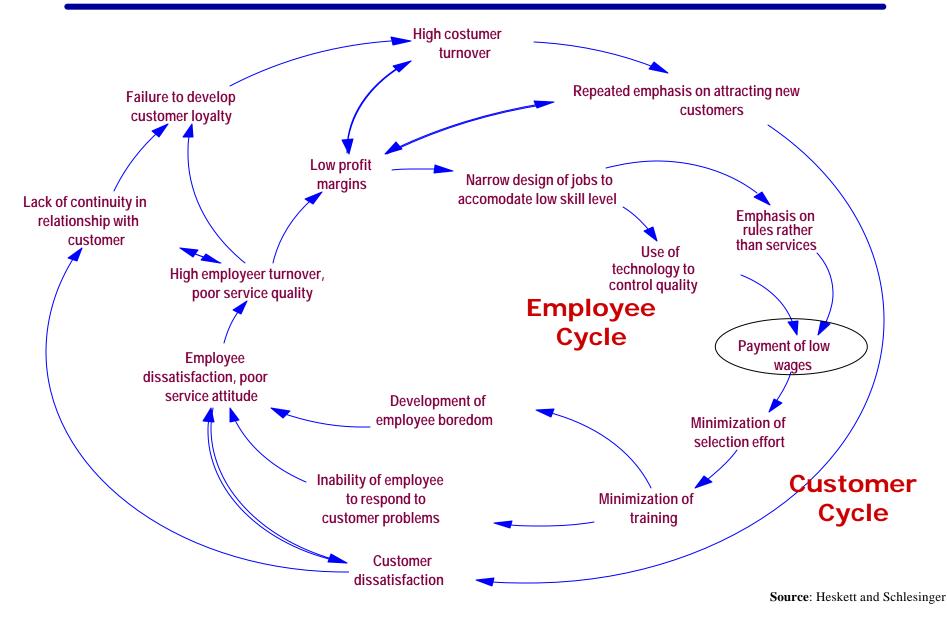
Creative Thinking

Adapted from: D. Hart

High Performance Model: Cycle of Success



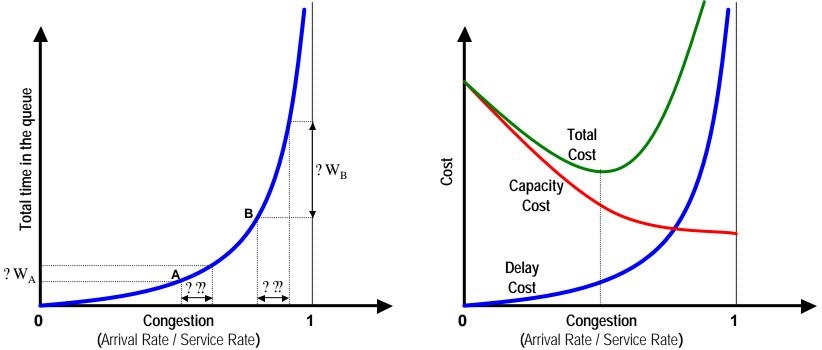
Low Performance Model: Cycle of Failure



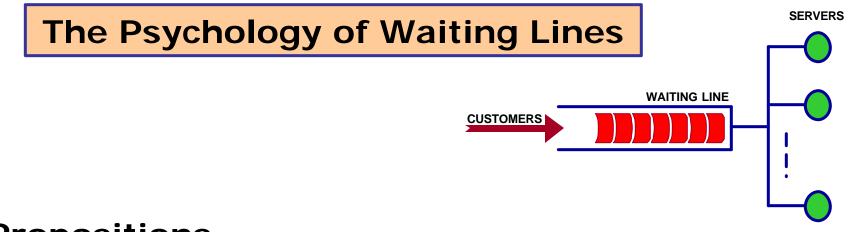
Management of Queues

The Physics of Waiting Lines

- Mumber and type of servers
- ✓ Waiting time, service time, and system time
- Z Queue discipline
- Mumber of people in queue
- System utilization



Management of Queues



Propositions

- 1. Unoccupied time feels longer than occupied time
- 2. Process waits feel longer than in process waits
- 3. Anxiety makes waits seem longer
- 4. Uncertain waits seem longer than known, finite waits
- 5. Unexplained waits are longer than explained
- 6. Unfair waits are longer than equitable waits
- 7. The more valuable the service, the longer the customer will wait
- 8. Solo waits feel longer than group waits

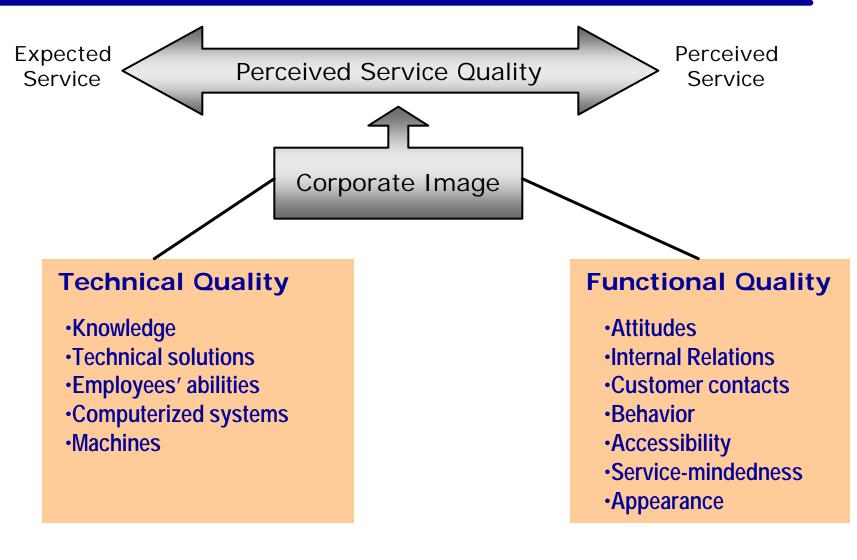
Quality Control

• Simultaneity

∠ Eliminates ability of filter for quality

- Almost impossible to inspect even explicit characteristics of products prior to delivery
- Integration of functions of marketing and production hinders translation of consumer perceptions into more quantifiable production terms
- Instill quality by specification, standardization, training, and motivation (keep in mind the "heterogeneity" property of some services)

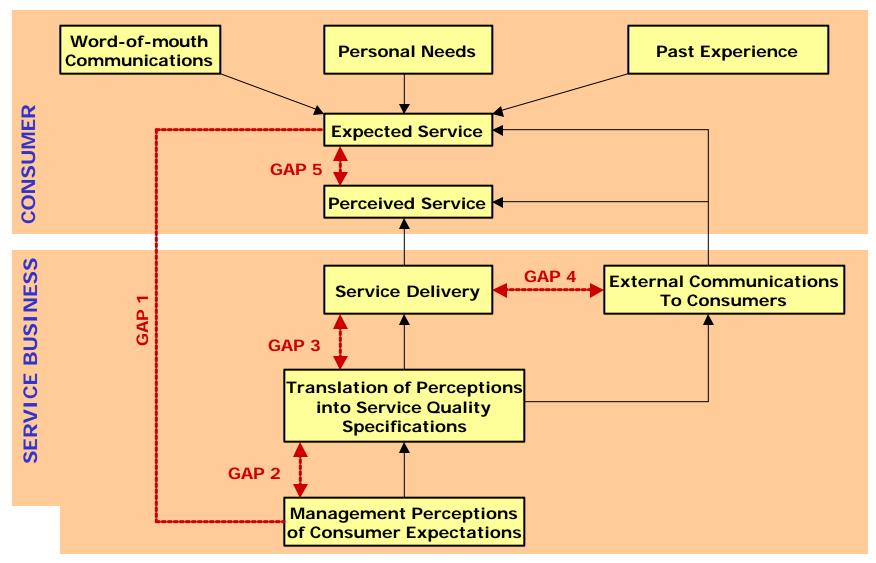
Quality Control: Perceived Service Quality



WHAT?

HOW?

Quality Control: The Service Quality Model



Quality=Perception-Expectation

Source: Zeithaml and Bitner

Service Guarantees

- Characteristics
- Attitudes
- What a guarantee does
- Higher benefits

A good service guarantee is:

- **SUnconditional**
- *∝*Meaningful
- Easy to understand and communicate
- Easy and painless to invoke
- ✓Easy and quick to collect
- *∝***Credible**

Negative

"How do I minimize warranty costs while maximizing marketing punch?"

Positive

- "The guarantee is the single most reliable way to identify operational areas needing improvement; Guarantees not acted upon are data not collected."
- Money spent on the guarantees is an investment in customer satisfaction and loyalty."

Source: D. Hart

What a guarantee does

- Service guarantee forces an organization to explicitly define its customers needs
- A service guarantee forces an organization to understand all the elements of its service-delivery process
- A service guarantee forces an organization to determine the root causes of its operational problems
- A service guarantee forces a sense of urgency on an organization
- A service guarantee forces an examination of vendor quality

Higher benefits

The benefit of a service guarantee is higher when

- The price of the service is high
- The customer ego is on the line
- The level of the customer expertise with the service is low
- The negative consequences of service failure are high
- Customer's image of service quality in the industry is low
- The company depends on a high rate of customer repurchase

Conclusions

Service Design and Management is a critical competence for the firm

- Concept Design & Customer Needs
- ∠ Delivery system design
- **KHRM:** Design, Selection, Training, Motivation
- Consistency and Quality Control
- Financial and Operational Control
- Continuous Improvement
- Breakthrough Innovations