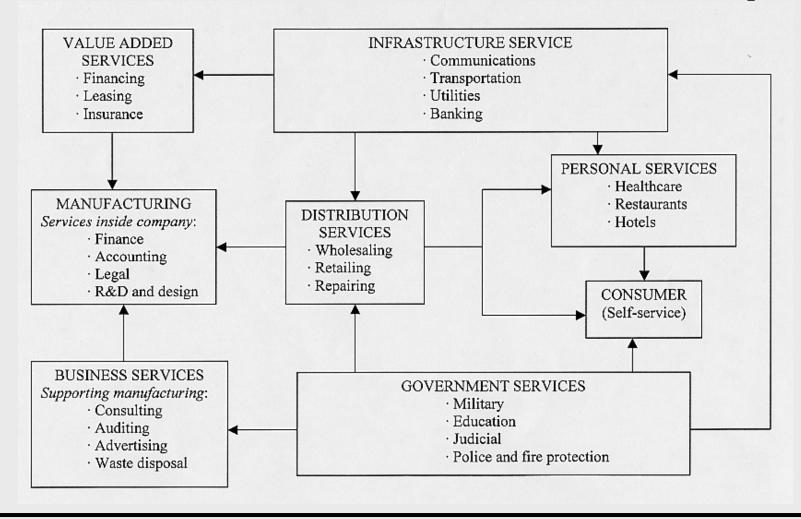
#### Lecture #3

Prof. John W. Sutherland

**January 13, 2006** 



### Service Process Relationship





### **Evolution of Services in an Economy**

Infrastructure Services



**Support Services** 



**Recreational and Leisure Services** 



**Time Saving Services** 



## Some More Thoughts on Classification

#### **v** Definitions:

- q Interaction: a mutual or reciprocal action.
- **q** Customization: making or altering to individual or personal specifications.
- Labor: productive work (especially physical work done for wages);



# Service Classification: Interaction vs. Labor

		Degree of Interaction and Customization		
		Low	High	
Degree of Labor Intensity	Low	Service factory:	Service shop:	
		<ul><li>Airlines</li></ul>	<ul><li>Hospitals</li></ul>	
		<ul><li>Trucking</li></ul>	<ul><li>Auto repair</li></ul>	
		<ul><li>Hotels</li></ul>	<ul> <li>Other repair services</li> </ul>	
		<ul> <li>Resorts and recreation</li> </ul>		
	High	Mass service:	Professional service:	
		<ul> <li>Retailing</li> </ul>	<ul> <li>Physicians</li> </ul>	
		<ul> <li>Wholesaling</li> </ul>	<ul><li>Lawyers</li></ul>	
		<ul> <li>Schools</li> </ul>	<ul> <li>Accountants</li> </ul>	
		<ul> <li>Retail aspects of</li> </ul>	<ul><li>Architects</li></ul>	
		commercial banking		

Source: Schmenner 1986



# Service Classification: Nature of the Service Act

		Direct recipie	nt of the service
		People	Goods
Nature of the service act	Tangible actions	Services directed at people's bodies:	Services directed at goods and other physical possessions:
	Intangible actions	Services directed at people's minds:	Services directed at intangible assets:



# Service Classification: Relationship with Customers

		Type of relationship between service organization and its customers		
		"Membership" relationship	No formal relationship	
Degree of labor intensity	Continuous delivery of service	<ul> <li>Insurance</li> <li>Telephone subscription</li> <li>Electric utility</li> <li>Banking</li> </ul>	<ul><li>Radio station</li><li>Police protection</li><li>Lighthouse</li><li>Public highway</li></ul>	
	Discrete transactions	<ul> <li>Long-distance phone calls</li> <li>Transit pass</li> <li>Airline frequent flyer</li> <li>Theater series tickets</li> </ul>	<ul> <li>Toll highway</li> <li>Pay phone</li> <li>Movie theater</li> <li>Public transportation</li> <li>Restaurant</li> </ul>	



# Service Classification: Customization and Judgment

	Extent to which service characteristics are customized		
	High	Low	
o which r contact l exercise n meeting n High	<ul><li>Surgery</li><li>Taxi service</li><li>Gourmet restaurant</li></ul>	<ul> <li>Education (large classes)</li> <li>Preventive health programs</li> <li>Family restaurant</li> </ul>	
Extent t custome personne judgment i Low	<ul><li>Telephone service</li><li>Hotel services</li><li>Retail banking</li><li>Cafeteria</li></ul>	<ul> <li>Public transportation</li> <li>Movie theater</li> <li>Spectator sports</li> <li>Institutional food service</li> </ul>	



### Service Classification: Nature of Demand and Supply

		Extent of demand fluctuations over time		
		Wide		Narrow
Extent to which supply is constrained	Peak demand can usually be met without major delay	•	Electricity Telephone Hospital maternity unit Police emergencies	<ul><li>Insurance</li><li>Legal services</li><li>Banking</li><li>Laundry</li></ul>
	Peak demand regularly exceeds capacity	•	Tax preparation Passenger transportation Hotels and motels	<ul><li>Fast-food restaurant</li><li>Movie theater</li><li>Gas station</li></ul>



# Service Classification: Method of Service Delivery

		Availability of service outlets		
		Single site	Multiple sites	
e of interaction between er and service organization	Customer travels to service firm	<ul><li>Theater</li><li>Barbershop</li></ul>	<ul><li>Bus service</li><li>Fast-food chain</li></ul>	
	Service provider travels to customer	<ul><li>Pest control service</li><li>Taxi</li></ul>	<ul><li>Mail delivery</li><li>AAA emergency repairs</li></ul>	
Nature customer	Transaction is at arm's length	<ul><li>Credit card company</li><li>Local TV station</li></ul>	<ul><li>National TV network</li><li>Telephone company</li></ul>	

Source: Schmenner 1986



#### **Performance Measures**

V	Speed/efficiency	V
V	<b>Profitability</b>	V
V	Perceived value	V
V	Sustainability	V
V	Other?	V
V		
V		
V		
V		∨ We will revisit this



V

topic next week

#### **Customer Value**

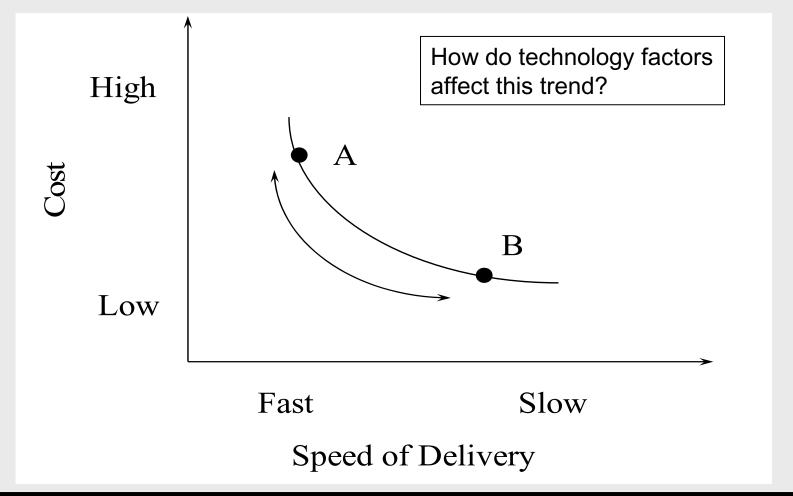
# Perceived Customer Value = Total Benefits / Total Costs

Perceived Customer Value =
Total Benefits - Total Costs

Other??

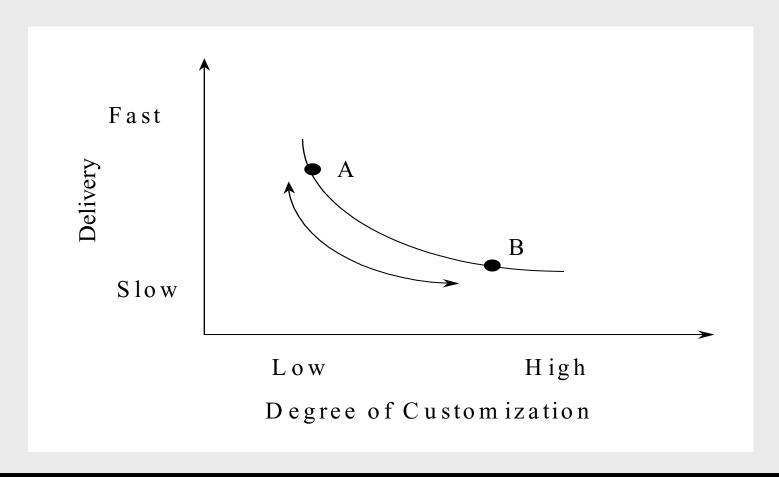


### Traditional Trade-off between Speed of Delivery and Cost



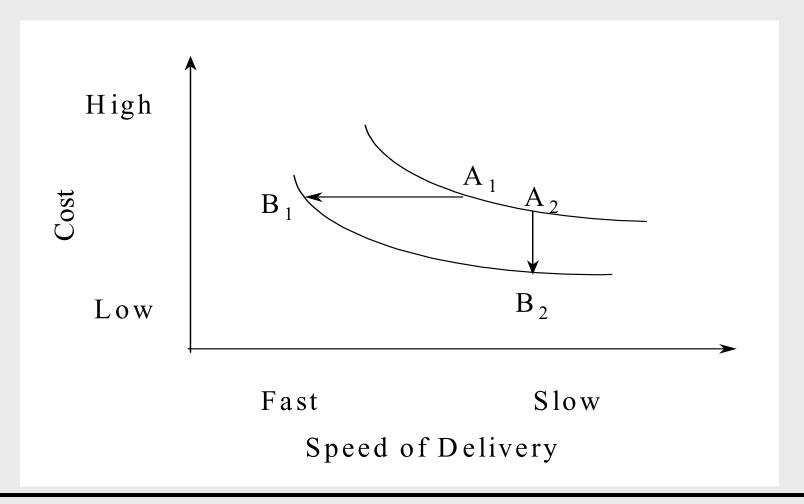


### Traditional Trade-off between Degree of Customization and Speed of Delivery





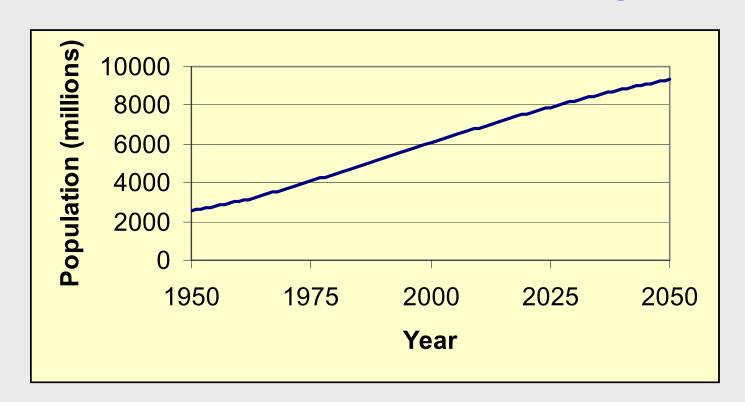
### Creating Value by Moving to a Superior Performance Curve





# Sustainability????? Where are we Heading?

√ Global population is increasing...

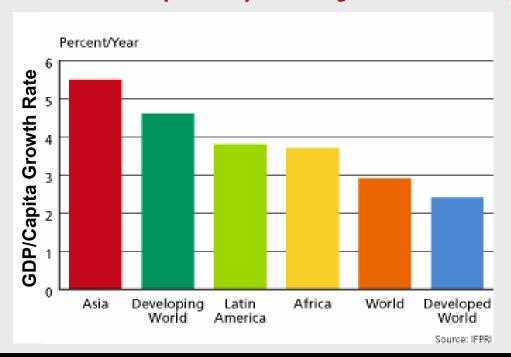




### Population – Not the Whole Story

#### √ Economic Growth (GDP/Capita)

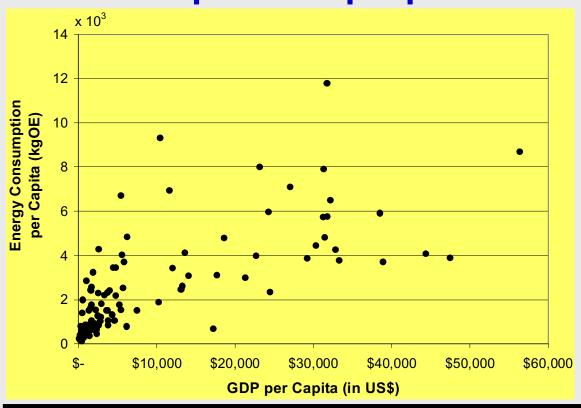
- q U.S. (3%) may be ~\$100k by 2050
- India & China (6-8%) may be \$50k by 2050





#### Resources and GDP

Resource use, wastes, and energy consumption all proportional to GDP

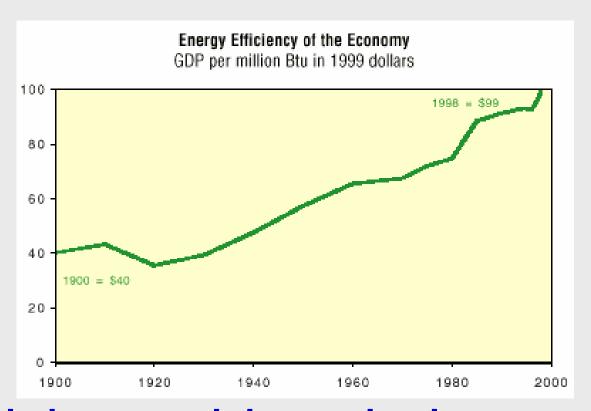


Master Eqn. I=N·E·η



#### **Are We Sustainable?**

- √ In 50 years
  - **q** 2x Population
  - g 5-10xeconomicgrowth
  - q 10-20x Earth Demand/Impact



∨ Can we meet this increased demand using business as usual? NO!!



### Many Sustainability Challenges

- **▽** Energy
- ▼ Take-back / Demanufacturing
- Manufacturing / Remanufacturing
- v Dematerialization / Servicizing
  - The selling of a service or function rather than a product. May include operating leases and tradeins. Actual ownership of the product remains with the supplier customers pay for use/maintenance. Examples: carpet leasing, office equipment leasing, outsourcing of onsite chemical management, and office furniture supply, maintenance, and moving services.