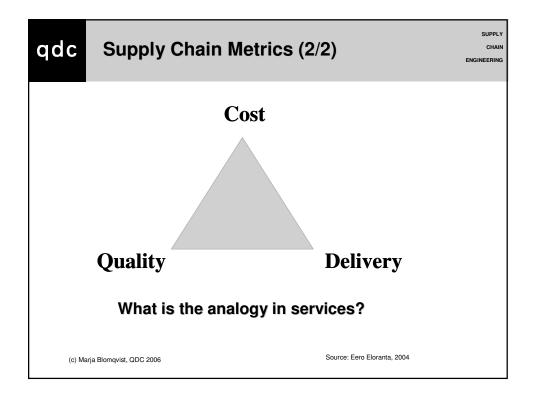
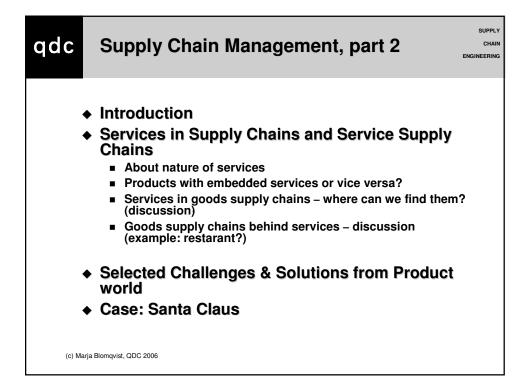
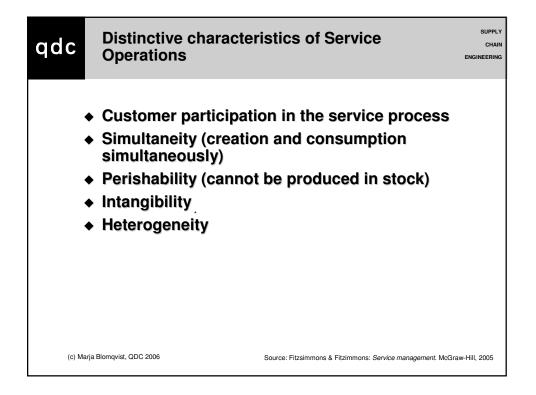


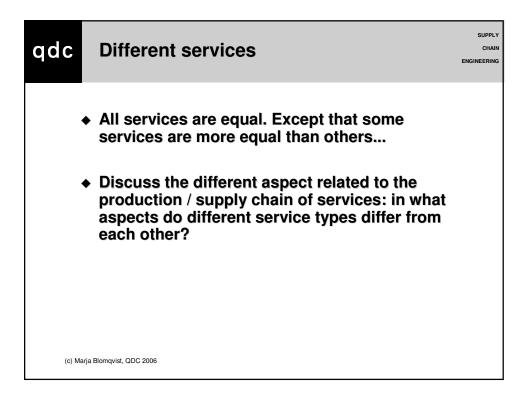
Measurement target	Primary metrics	Diagnostics metrics
Customer Satisfaction	Complete delivery	DOT = Delivery on time
Quality	Customer satisfaction Product quality	Warranty costs, reclamations and returns Reaction time to customer question
Time	Delivery time	Procurement and production lead times Reaction time of the supply chain Fulfillment of production plan
Costs	Total costs of the supply chain	Productivity
Tied capital	Cash-to-Cash –cycle	Forecast accuracy
	DOS = Days of supply	Inventory costs
	ROI = Return on investment	Capacity utilization









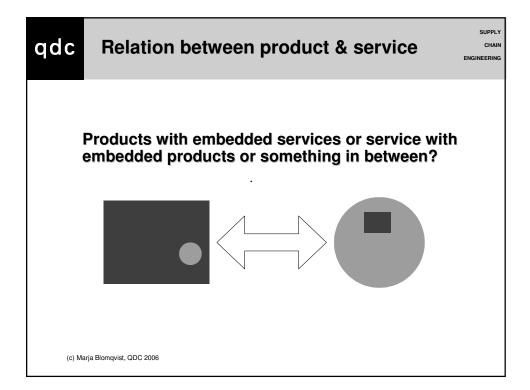


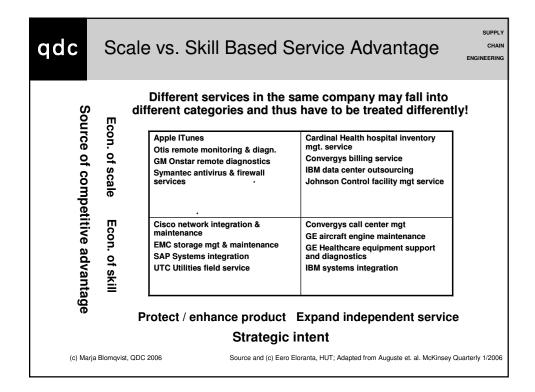
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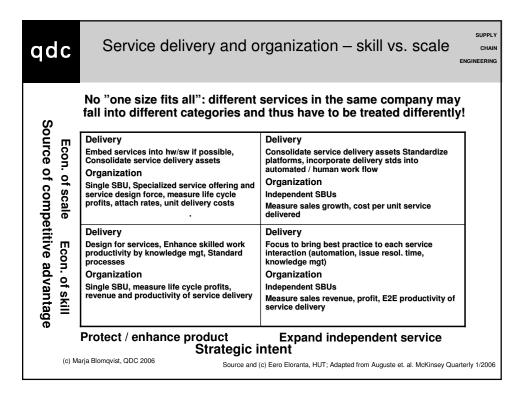
## Taxonomy of service processes

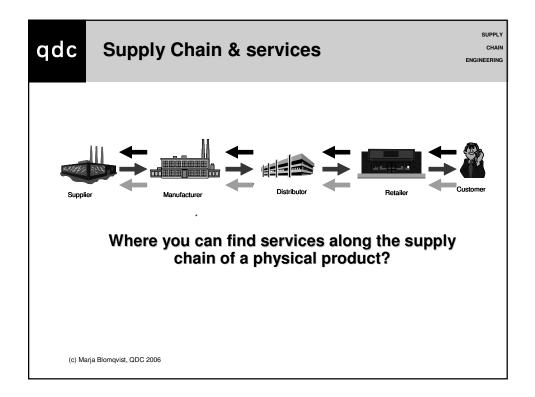
SUPPLY CHAIN ENGINEERING

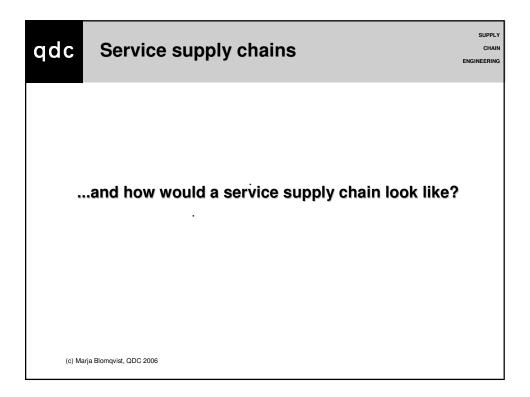
Degree of Customer		Low Divergence (Standardized Service)			High Divergence (Customized Service)		
Contact		Processing of Goods	Processing of Information or Images	Processing of people	Processing of Goods	Processing of Information or Images	Processing of people
No customer contact		Dry cleaning Restocking a vending machine Restockang Billing for a credit card			Auto repair Tailoring a suit	Computer programming Designing a building	
Indirect customer contact			Ordering groceries from a home computer			Supervision of a landing by an air	
			* Phone-based account balance verification			controller	
Direct custo- mer contact	custo- mer service- contact vorker interaction (self-service) Customer- service- se	Sampling food at a buffet dinner Bagging of groceries	Documenting medical history at a clinic Searching for invormation in a library	Driving a rental car Using a hea club facility			
		Handling routine	public transportation Providing mass	Home carpet cleaning Landscaping services	Potrait painting Counceling	Haircutting Performing a surgical operation	

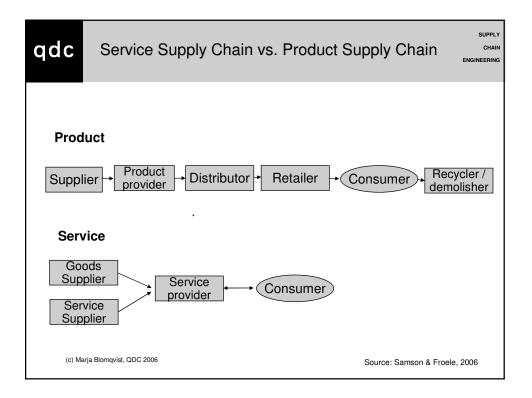












Classical ControlSupple: After Market vs. ProductSuppleSupply ChainENGINEERING					
Parameter		Manufacturing Supply Chain	Afer sales supply chain		
Nature of dema Required respo # SKUs Product portfo Delivery netwo Invenory mgt in Reverse logist Performance me DOS	onse olio ork ntent tics	Predictable, can be forecast Standard, can be scheduled Limited Homogenious Depends on products, multiple Max velocity of resources . No Fill rate 7-60	Unpredicable, sporadic ASAP 15-20 times more Heterogenious Depends on services, single Preposition resources Returns, repair, disposal Uptime 120-360		
(c) Marja Blomqvist, C	QDC 2006		Source: Cohen, HBR, 2006		

