Operator strategy, pricing and Introduction to the MOB game

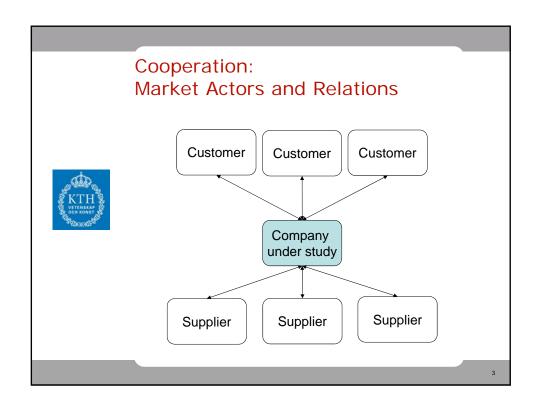


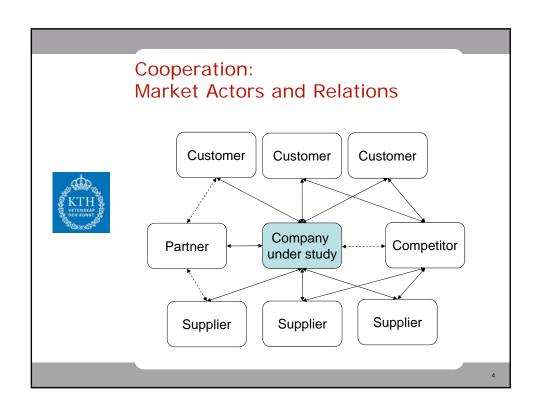
Jan Markendahl November 28, 2011

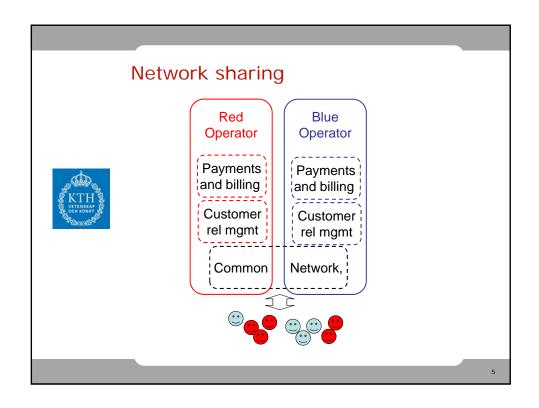
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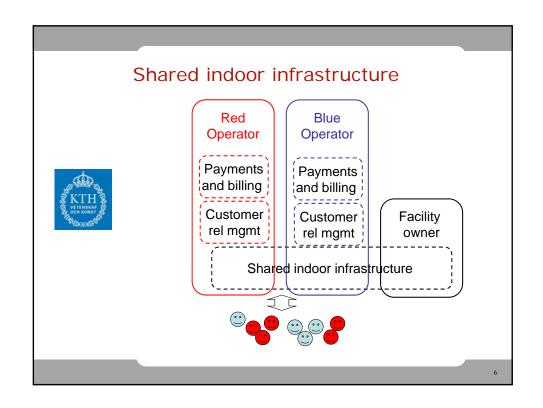
Today

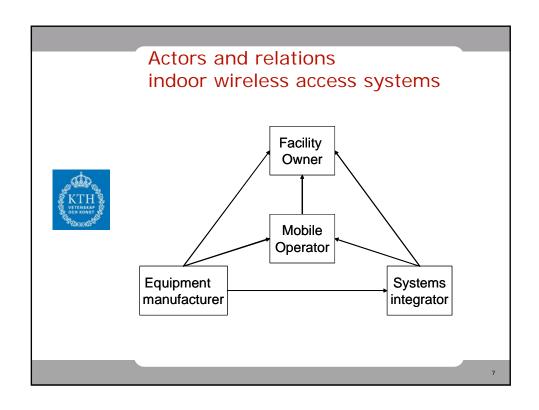
- The first hour
 - Operator strategy
 - Introduction to the MOB game
 - Game preparation and summary reports
 - Notes about pricing and offers
- The second hour
 - Guest Lecture by Greger Blennerud, Ericsson

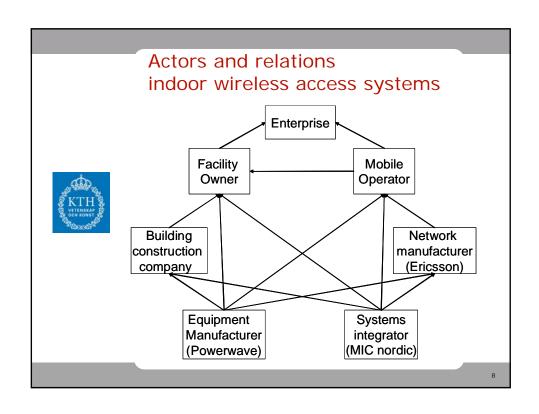


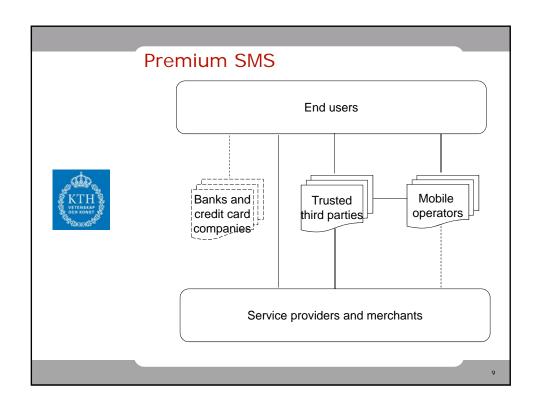


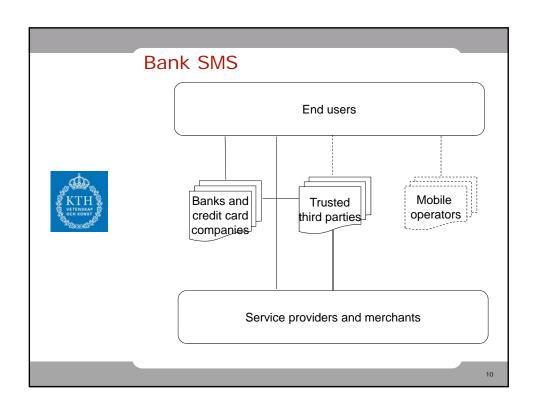


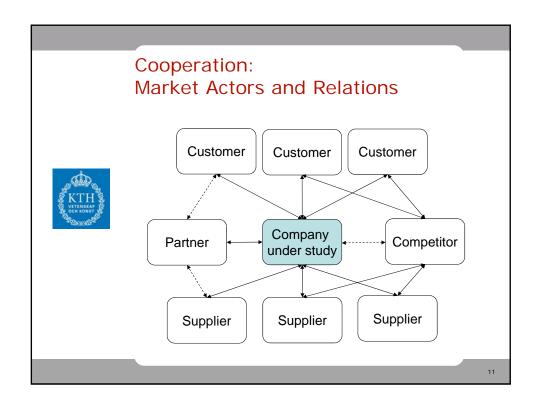


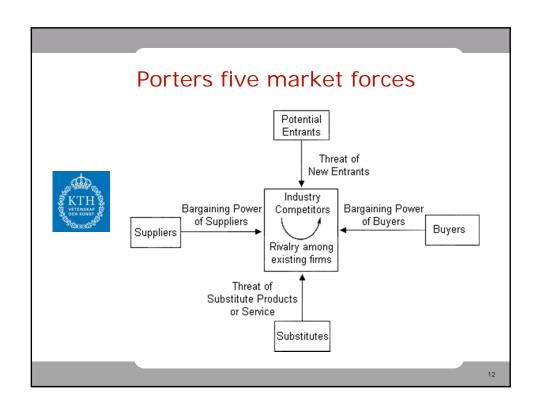


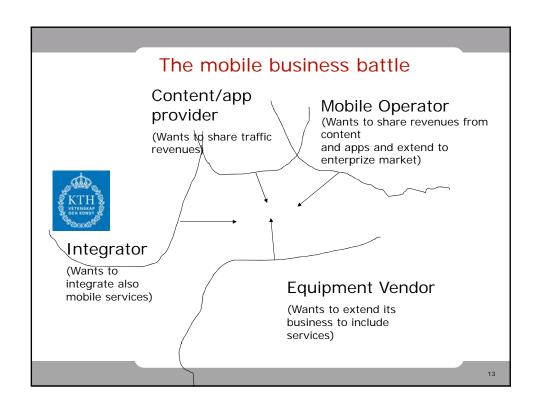


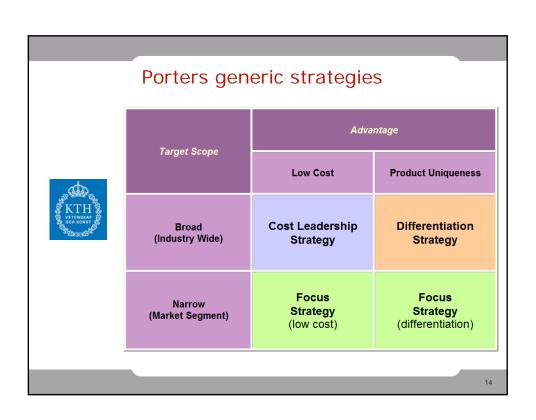












Porter and the MOB game

According to Porter, there are three fundamental ways through which a company can achieve sustainable competitive advantage.

Porter's three generic strategies are as follows:



- A cost leadership strategy
- A differentiation strategy
- A focus strategy

Choose ONE strategy for the MOB game Prepare activities in order to implement the strategy

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Schedule for MOB game and preparations

- Preparation
 - Comparison of operator strategies largest difference of HW2 strategies (-> Nov. 22, 15:00)
 - Preparation of strategy for the MOB game chose a "Porter" type of strategy (-> Nov. 29, 16:00)



- During the game day, November 30
 - 08:15-15:00 The "game"
 - 15:00-16:00 Preparation of summary report
 - 16:00-17:00 Presentation of summary reports

Schedule for MOB game and preparations

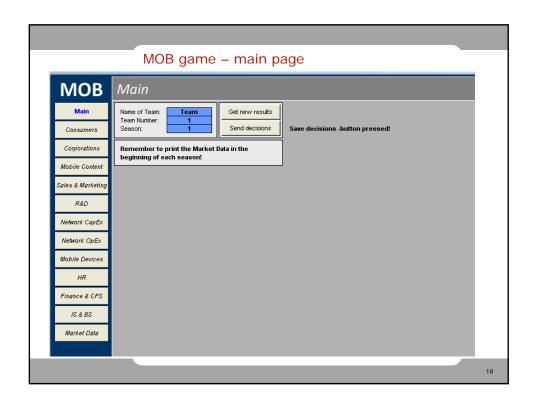
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Team summary report

- -Initial strategy
- -What happened?
- -How did you manage?
- -Lessons learned?
- -Who did win?



MOB game – the market

- Western European country before 2005
- Still some new voice users to attract
- Only low data rate services are available
- KTH VETENSKAP OCH KONST
- The big mobile data growth to come
- Business intelligence data is available in the end of the player instructions

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Several rounds (seasons)



Player decisions

The decisions are made for incoming financial year. Time for decisions ~15 min – 1h 15 min



Simulation of next round parameters

MOB simulates the parameters for next financial year based on the players' decisions. Time for simulation ~10 15 min

To input

- Services
 - Consumer segment
 - prices for voice, data and messages
 - Enterprise segment (corporations)
 - prices etc
 - Sales & marketing and customer care
 - Content services (Mobile content*)
- Sales and marketing
 - For consumers only
- Handsets*
 - Subsidies and prices

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To input (continued)

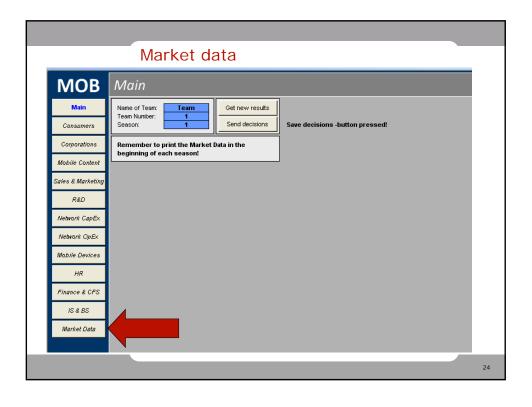
- Networks
 - "R&D" invest in knowledge in order to deploy
 - "CAPEX" (build capacity to match demand)
 - "OPEX" (maintain networks, ensure quality)



- Human Resources*
 - Salaries
 - Competence devlopment
- Finance
 - Increase or decrease debt

Schedule for MOB game activities

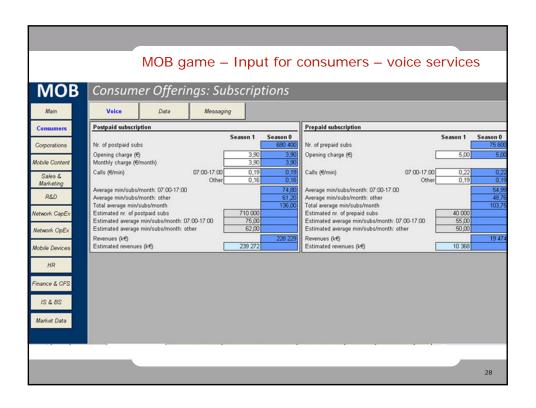
- During the game day
 - 08:15 Start of the game
 - 09:45 Deadline for input season 1
 - 11:00 Deadline for input season 2
 - 12:00 Deadline for input season 3
 - 13:15 Deadline for input season 4
 - 14:00 Deadline for input season 5
 - 14:45 Deadline for input season 6
 - 15:00 End of Game (lunch)
 - 15-16 Preparation of summary report slides
 - 16-17 Team presentation of summary reports



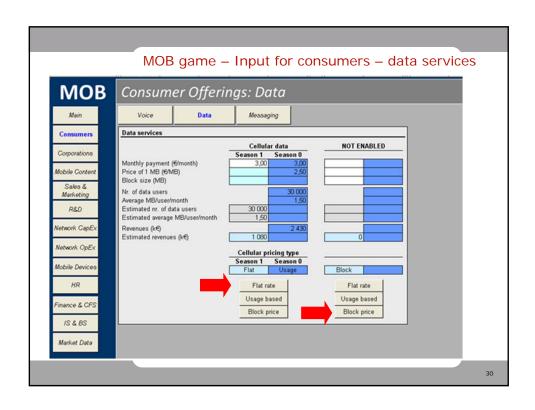
age 1/4 Season: 1						
ncome statement (k€)						
	Team1_	Team2_	Team3_	Team4		
Revenues						
Consumer postpaid voice	198 554	247 792	236 276	249 73		
Consumer prepaid voice	20 656	21 631	21 204	20 32		
Consumer data	1 281	1 291	5 693	1 16		
Consumer messaging	39 336	38 379	34 606	39 81		
Mobile content	355	549	474	54		
Corporate voice	118 242	114 863	115 441	115 41		
Corporate data	12 960	12 830	11 757	12 54		
Total	391 384	437 333	425 451	439 53		
Expenses						
Marketing	78 288	78 288	80 288	88 28		
Mobile content	8 000	8 000	6 500	8 00		
Corporate customer aquisition and relations	25 100	24 200	22 630	22 50		
R&D	90 000	105 000	60 000	50 50		
Maintenance	21 255	19 255	19 355	19 25		
Handset business	0	0	0			
Personnel	62 166	59 862	59 308	58 84		
Total	323 947	338 338	290 626	291 34		
EBITDA	67 437	98 996	134 825	148 19		
Depreciation from fixed assets	55 529	50 000	50 486	56 35		
EBIT	11 908	48 996	84 339	91 84		
Financial expenses	24 000	24 000	24 000	24 00		
Taxes (26%)	0	6 499	15 688	17 63		
Profit	-12 092	18 497	44 651	50 20		

Assets Fixed assets Cash and cash equivalents Total Liabilities & equity Equity Share capital	Team1_ 638 588 73 731 712 320	Team2_ 575 000 193 497	Team3_ 580 592 213 941	Team4 _
Fixed assets Cash and cash equivalents Total Liabilities & equity Equity	638 588 73 731	575 000 193 497	580 592	648 059
Fixed assets Cash and cash equivalents Total Liabilities & equity Equity	73 731	193 497		
Cash and cash equivalents Total Liabilities & equity Equity	73 731	193 497		
Total Liabilities & equity Equity				1.50.50
Liabilities & equity Equity	712 320			150 733
Equity		768 497	794 533	798 791
Share capital				
	250 000	250 000	250 000	250 000
Previous years profits	-100 000	-100 000	-100 000	-100 000
Profits for this year	-12 092	18 497	44 651	50 203
Total equity	137 908	168 497	194 651	200 204
Liabilities				
Short term dept	0	0	0	(
Long term dept	575 000	600 000	600 000	600 000
		600 000	600 000	600 000
Total liabilities	575 000	600 000		
Short term dept Long term dept		600 000	600 000	_

ge 3/4 ubscriber amounts & market sha	Season: 1			
Consumers:	Team1_	Team2_	Team3_	Team4_
Postpaid voice (subscribers)	693 818	661 667	653 707	636 808
Postpaid voice (subscribers)	26%	25%	25%	24%
Prepaid voice (subscribers)	71 317	74 720	72 146 25% 79 068	75 818
Prepaid voice (%)	24%	25%		26% 9 470
Cellular data (subscribers)	9 622	9 839		
WLAN data (subscribers)	0	0	0	0 47.0
SMS (active users)	711 026	687 366	606 621	712 626
MMS (active users)	68 620	70 047	70 188	67 144
Corporations:				
SME voice (%)	25%	25%	25%	25%
NAT voice (%)	25%	25%	25%	25%
INT voice (%)	26%	26%	24%	24%
PA voice (%)	25%	26%	25%	25%
SME data (subscribers)	15 686	15 654	15 840	15 460
NAT data (subscribers)	15 761	15 614	15 709	15 556
INT data (subscribers)	13 180	12 792	12 094	12 046
PA data (subscribers)	7 965	7 960	7 713	7 683







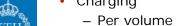
Pricing, offers and subscriptions



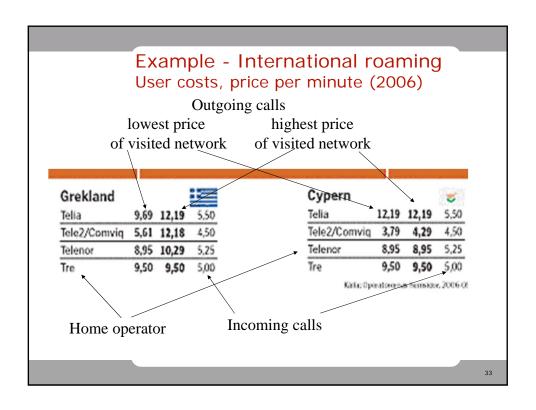
Jan Markendahl November 28, 2011

Payments and charging

- Payments
 - Pre-paid
 - Post-paid
- Charging



- Flat rate
- Flat rate with upper limit



International roaming

- One "regulated market"
 - Origination and termination of international calls
- Status
 - All operators have roaming agreements, globally more than 25 000 bi-lateral agreements
 - International calls have been very expensive,
 - 0,3€ 2€ per minute for international calls
 - compare 0,05 0,2 € for national calls
 - EU have stated maximum prices for mobile calls
 - 0,5€ outgoing calls and 0,2€ for incoming calls
- It is still VERY expensive for mobile data!!

Costs for mobile data abroad

Sms:a, mms:a och surfa

För muspekaren över roamingzonen för att se vilka länder och operatörer som ingår i zonen eller se <u>version för utskrift</u>. Priserna gäller från 1 apr 2008 och anges i SEK/meddelande för sms och mms samt SEK/MB för surfa. Priserna är inklusive moms.

SEK/MB

Zoner	Skicka sms	Ta emot sms	Skicka mms	Ta emot mms	Surfa**
<u>Zon 1</u>	2,50	0	5	3,50	25
Zon 2a - UOp	3	0	8	6,50	40
Zon 2a	3	0	8	6,50	85
Zon 2b	3	0	9	7,50	120
Zon 3	4	0	10,50	9	145
<u>Zon 4</u>	4	0	9	7,50	120
<u>Zon 5</u>	4	0	10,50	9	145
Övriga länder	*	0	10,50	9,50	145

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1 minute question

- How many MB can you use in each country before the cost for the data usage exceeds the average price for the airline ticket?
 - Germany 4€ per MB
- Japan 14€ per MB KTH

KTH VETENSKAP OCH KONST

Components in Mobile broad band offers

For the "dongle" business

- Price
- · Length of contract
- Fee for dongle or not
- Data rate
- Amount of data
- · Conditions when data limit is exceeded

Smartphones?

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Subsidies and "lock in" periods

- Handset subsidies are a large part of the operator costs for customer acquisition
- There are differences between countries
 - In Finland it has not been used (until recently)
 - In Denmark the lock in period is max 6 month
 - In Sweden the lock in period is max 24 month



Price for wireless Internet access and mobile broad band access

- Telia Homerun -2006
 - Hot spot WLAN service
 - 150 € per month
- 3 Mobile broad band 2006
 - UMTS 3G card for laptop
 - 40 € per month
- Telia ConnectPro 2007
 - WLAN, GPRS, UMTS
 - 30 55 € per month
- Mobile Broad band 2011
 - Super 3G, Turbo 3G, 4G,
 - 5 50 € per month

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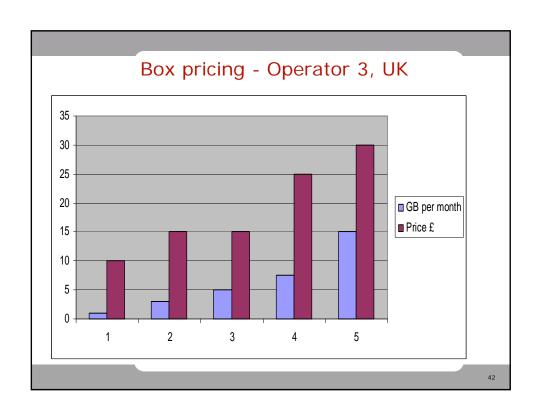
Prices Internet access

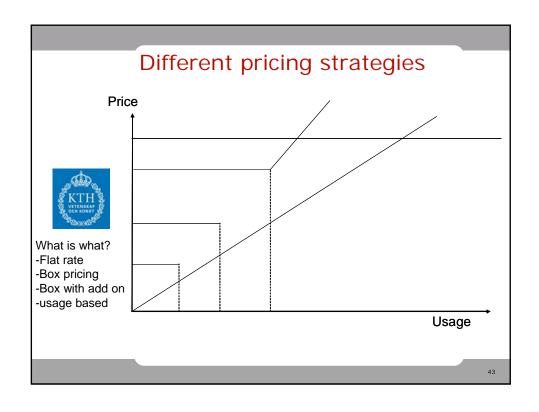
- Fixed broadband to homes
 Flat rate 10 30 € per month; up to 100 Mbps
- Wireless broad band business hot spots
 10 € per hour or 30 € per 24 hours
- Wireless broad band "consumer" hot spots
 For free of included in other service
- Wireless broad band cellular
 Flat rate 10 30€ per month; 0,5 16 Mbps
 Flat rate 50€ (30€); up to 80 Mbps

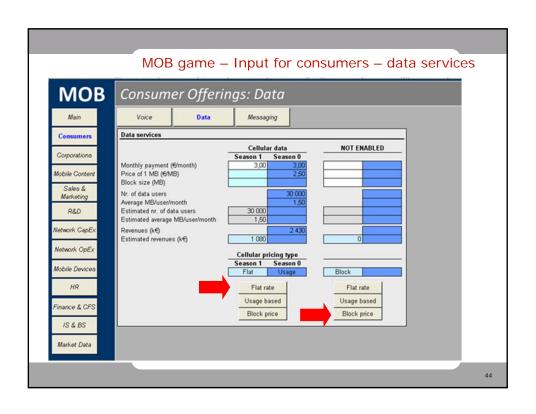












Paper by Alf Westelius, ITS Conference Budapest, 2011

- Title:
 - From industry norms on full costing to ecologies on pricing principles in telecom



- About principles
 - Full costing
 - Marginal costing
 - Value based
 - Based on competition
- About ecologies
 - Iphone
 - Skype
 - Google