

The impact of the expansion of Dubai International Airport and Emirates on international airline competition.

Dr. Christoph Brützel

The impact of Emirates' growth strategy on the Europe-Asia market

– the view from Europe –

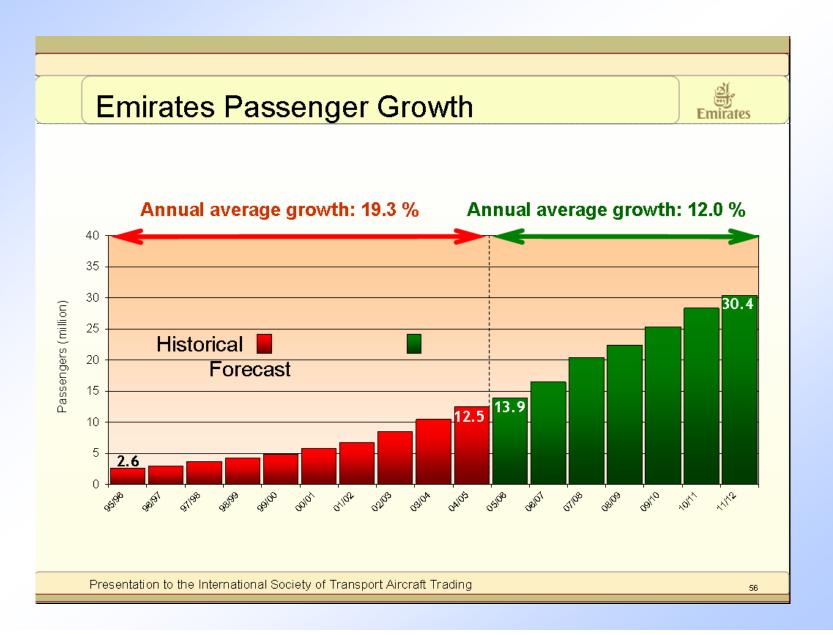
Amsterdam Bilderberg Garden Hotel April 7, 2006

Summary

- Emirates has set ambitious growths targets
- EMIRATES growth is based on its favorite unit cost
- How does growth work in airline passenger markets?
- EMIRATS' fleet and growth strategy focuses on large aircraft
- To place capacities, EMIRATES will have to follow aggressive pricing strategies
- EMIRATES regional growths targets focus on Europe, the Americas and Africa
- How will it hurt?
- Who will suffer most?



Emirates is planning for an ambitious growth track.





EMIRATES proudly presents Dubai's unstoppable growth ...

Unstoppable growth of Dubai



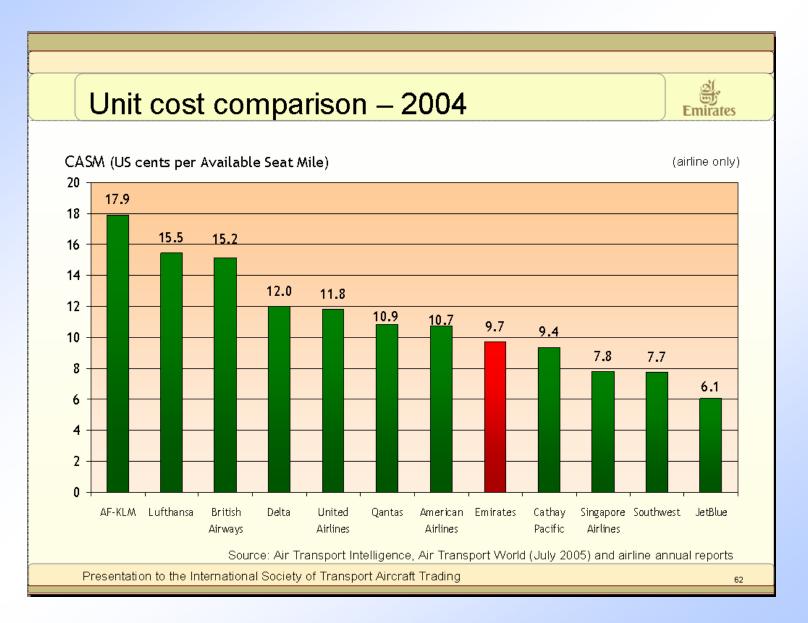
	2004	2010
Home population	1.3 million	4.0 million
Hotel guests	5.4 million	15 million
Hotel beds	38,300	117,300
Dubai Airport passenger traffic	21.7 million	60 million
Emirates passengers	12.5 million	28.4 million

Source: Department of Tourism and Commerce Marketing (DTCM), Dubai Civil Aviation (DCA)

Presentation to the International Society of Transport Aircraft Trading



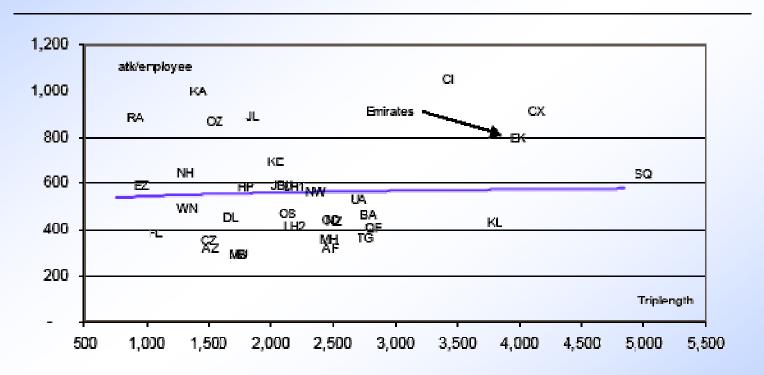
... and its unit cost position ...





... based on high labour productivity ...

Chart 14: Overall labour productivity, FY 03*

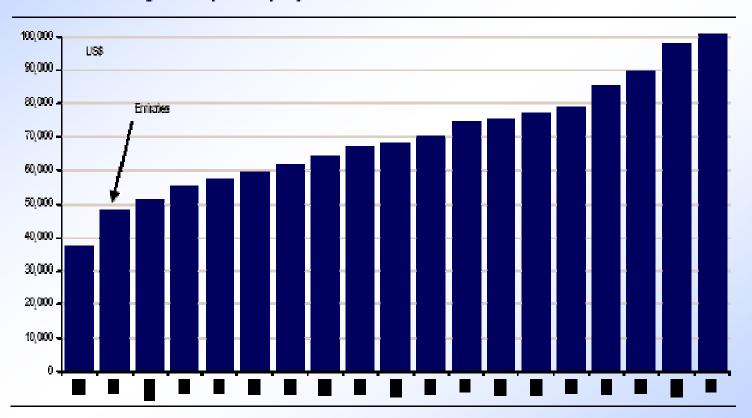


Source: Company data, UBS estimates * Emirates to year-end March 2004



... low labor unit cost ...

Chart 15: Average cost per employee, FY 03*



Source: Company data, UBS estimates. * Emirates to year-end March 2004

Source: UBS Investment Research: What does Emirates mean for Europe?, Jan. 2005



... and low airport charges at its hub.

Dubai Airport Charges scheme

Landing Charges

Basis

Maximum permissible take-off weights as shown in the certificate of airworthiness.

Rates

Aircraft weighing

Not exceeding 4,500 KG

Exceeding 4,500 KG but not exceeding 45,000 KG

Exceeding 45,000 KG

Rates per landing

AED 10.00 per 1000 KG or part thereof

AED 11.60 per 1000 KG or part thereof

AED 12.70 per 1000 KG or part thereof

Rules

The payment of the landing charge entitles the aircraft to:

- 1. the use of all maneuvering areas on the airport,
- 2. all navigational approach and lighting aids,
- 3. all emergency services and all briefing and meteorological services,
- 4. the services of the aerodrome personnel, if available, for manual assistance in guiding, housing or parking the aircraft,
- 5. the provision of local air traffic services

Parking Charges

Basis

Fees will be charged according to the length of the aircraft multiplied by the span. For the first 500 square feet AED 2.75For each additional 100 square feet or part thereof 0.55 Fils.

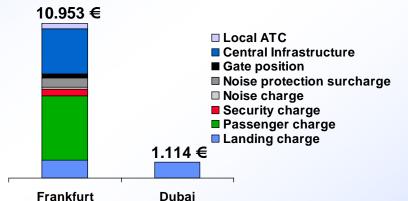
Rules

No Parking fee will be charged for the first six hours after landing. After the six hours and for each period of 24 hours, or part thereof, fees will be charged as above.

Other Charges

- Passenger service charges: Nil.
- · Security charges: None specified.
- · Noise related charges: None specified.

Example: Turnaround Airport charges B747-400



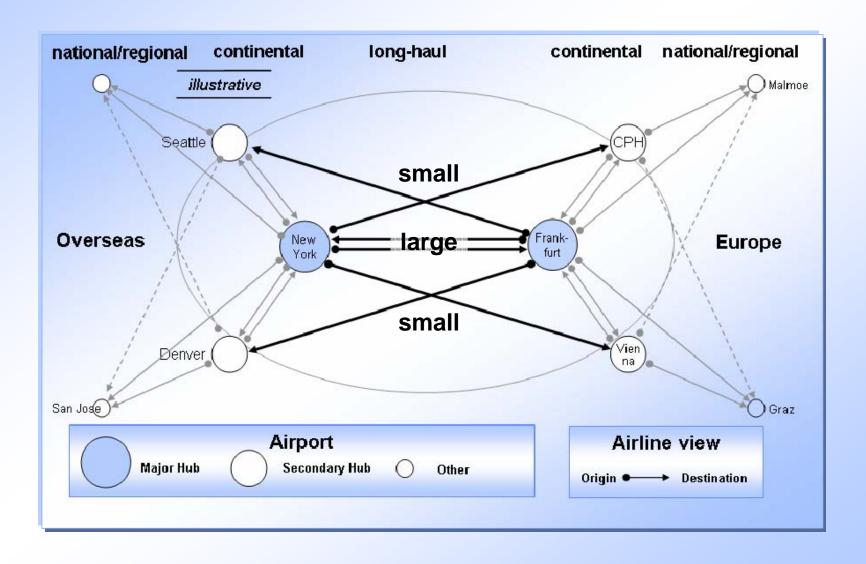
AC type	B747-400
MTOW	396 to.
Passengers	320
Cargo (to)	10

Charge item	Frankfurt	Dubai	
Landing charge	1.261 €	1.114€	
Passenger charge	4.560 €	- €	
Security charge	476 €	- €	
Noise charge	150 €	- €	
Noise protection surcharge	648 €	- €	
Gate position	275 €	- €	
Central Infrastructure	3.222 €	- €	
Local ATC	362 €	- €	
Total	10.953 €	1.114 €	
Per Passenger	34,23 €	3,48 €	

Source: http://www.dubaiairport.com

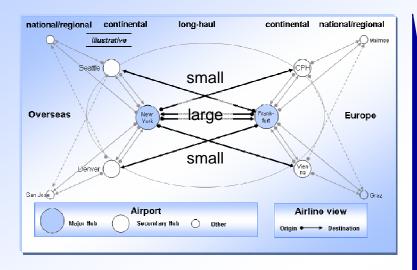


How does growths work in the global markets?

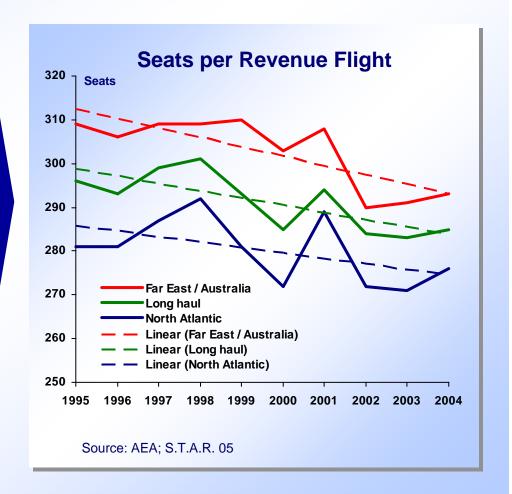




How does growths work in the global markets?



- ETOPS reduced economies of size in long haul operation
- B 787 and A 350 will further do so
- Customers prefer non stop
- Cost per O&D passenger of non stop operation is lower than that of hub & spoke operation
- Growing demand allows for increasing non stop services between major hubs and secondary hubs





EMIRATES growth strategy focuses on large aircraft.

Emirates Passenger Fleet development

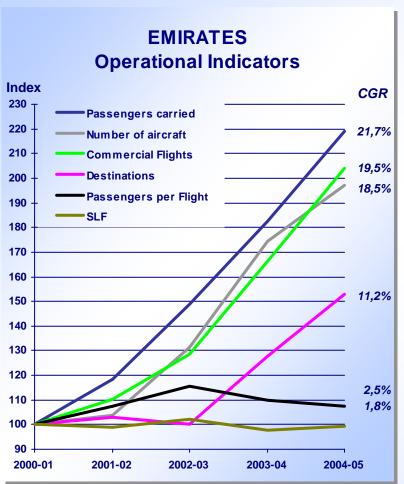
Aircraft	2004	2010	Seats /	Seats 2004	Share	Seats 2010	Share
A330-200	29	29	237	6.873	38,6%	6.873	11,5%
A340-500	4	10	258	1.032	5,8%	2.580	4,3%
A340-300	6	8	267	1.602	9,0%	2.136	3,6%
B777-200	9	9	303	2.727	15,3%	2.727	4,6%
A340-600	0	10	370	0	0,0%	3.700	6,2%
B777-300ER	1	30	386	386	2,2%	11.580	19,4%
B777-300	12	12	434	5.208	29,2%	5.208	8,7%
A380-800	0	45	550	0	0,0%	24.750	41,6%
Total	61	153	2004: 292 2010: 389	17.828	100,%	59.554	100%

+ 33 %

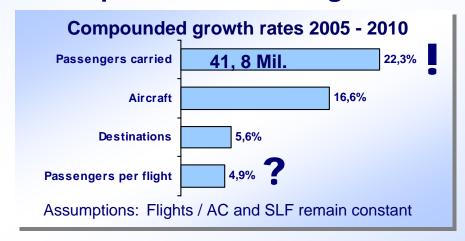
+ 234 %

Major challenge will be to outperform own targets and to overcome market paradigms.

History



Implications of fleet growth





CGR: Compounded growth rateSource: EMIRATES Annual reports



EMIRATES will have to and will fill incremental capacity at incremental yields

- Placing capacities in the market will follow the »Frankfurt potato theorem «*)
- As F-/C-Class compartments of existing aircraft can well be expanded to serve additional high yield demand, additional A 380 seat capacity potential is economy class potential only.
- Economy class market is highly price sensitive
- Long range economy class capacity of network carriers is oversized anyway and offered at extremely discounted rates to fill seats.

To fill capacities EMIRATES will have to follow a most aggressive pricing strategy.

^{*)} Frankfurt potato theorem: Once potatoes are on the table, they are going to be eaten.



Emirates Route Map Today ...

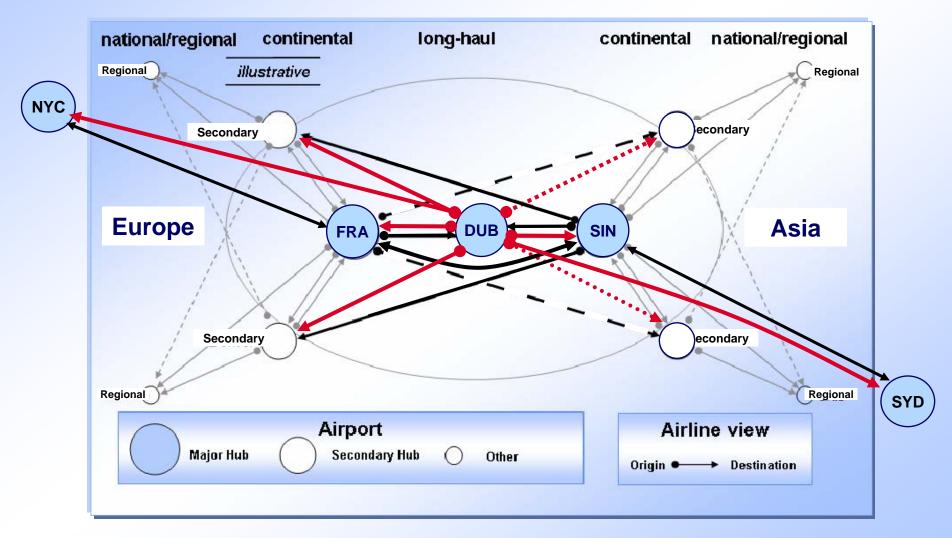




Emirates' network expansion targets are Europe, the Americas and Africa

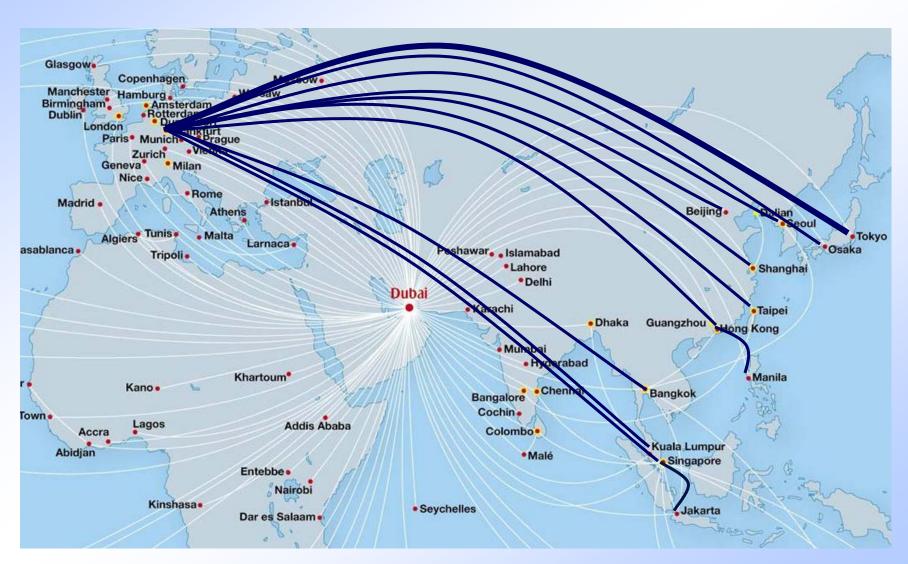


EMIRATES is in the middle of the game





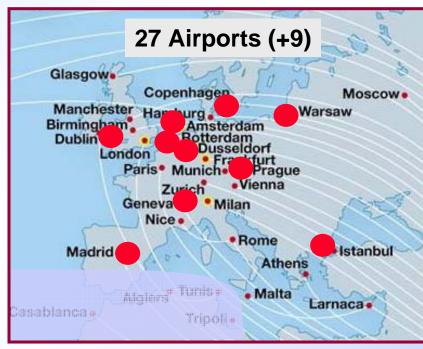
EMIRATES connecting products can hardly match non stop services between European major hubs and Asia, but ...





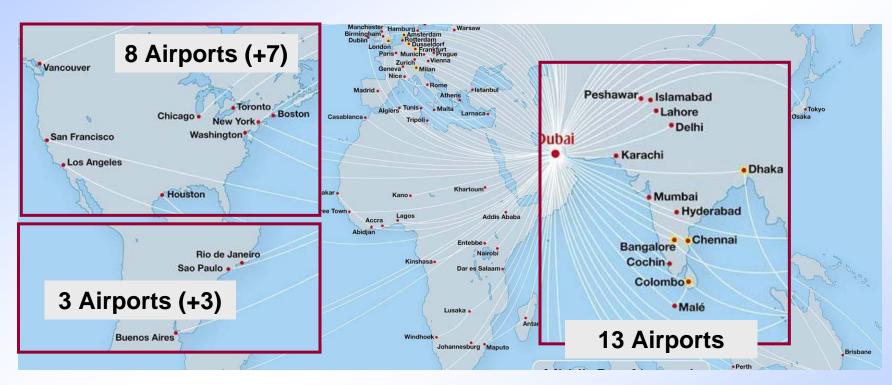
... Emirates expansion into secondary European hubs and regional airports with strong catchment areas will hurt.





- Secondary regional airports warmly welcome EMIRATES as an attractive long haul carrier in their portfolio non regarding that most passengers will then only change the place of transfer.
- European Global Network Carriers (AF/KL, BA, LH) operating A 380 / B 747 will be challenged by low yield offers in their hubs and loose high value feed from secondary airports.
- Secondary Network Carriers (i,e, AZ, IB, OS, SK) will not be cost competitive. Their anyway hardly profitable operations into Asia will be ruined.

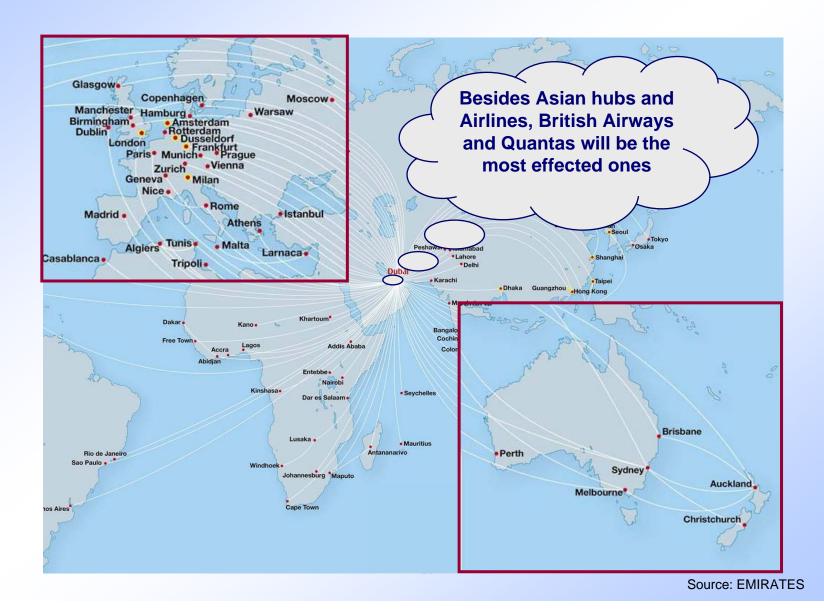
Attracting high value passenger flows between US and India EMIRATES will additionally cannibalize traditional European hub carriers' grounds.



- O&Ds between the Americas and India provided so far most valuable traffic for European hub carriers.
- EMIRATES will challenge them and European hubs with immediate competition.



EMIRATES' one-stop-connections between Europe and Australia will be a most attractive alternative to the market.





Growths strategies of both, airlines and airport are driven by the vision to create local value added rather than by a short term ROI appraisel.



Facts

- Growth targets extremely aggressive
- Required increase of passengers per flight question market paradigms
- A 380 to be operated from / to major hubs, mostly in direct competition to non stops
- Feeder cost at network origin and destination hubs

Jebel Ali International Airport City

Planning

- 10 times the size of Dubai Airport
- 140 square kilometres
- 6 concourses and 2 terminals
- 6 parallel runways
- 120 million passengers p.a.
- 12 million tonnes of cargo p.a.
- Estimated investment of US\$8.2b
- Encircled by an Airport City



Of the major hub carriers' networks, Lufthansa's and KLM's are the most exposed



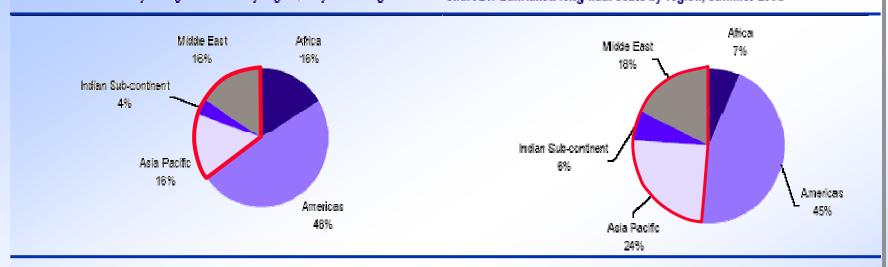
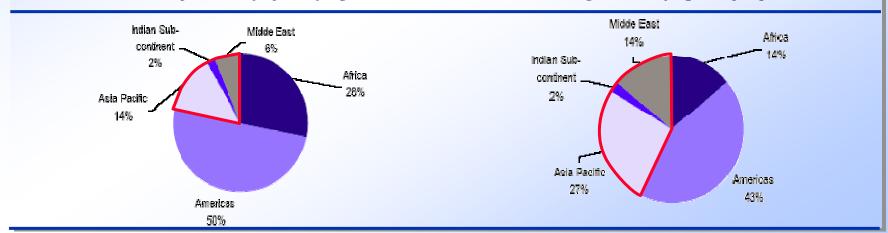


Chart 22: Air France long-haul seats by region, May-August 2005

Chart 23: KLM long-haul seats by region, May-August 2005





In conclusion

- Emirates growth targets are very ambitious own fleet projections require even more passengers.
- Exploding capacities and large size of aircraft will ruin markets
 EMIRATES will fill seats at lowest yields.
- Return on invest seems questionable particularly at market cost standards
- Major European hub carriers will remain competitive in nonstop-markets to Asia, but suffer from EMIRATES cannibalizing their feeders from Europe and the Americas into India
- European regional airports with strong catchment areas will benefit from EMIRATES' pressure to gain critical mass beyond major hubs
- Secondary hub carriers will not be in the position to serve Asian markets profitably.