



Vienna, October 24, 2005

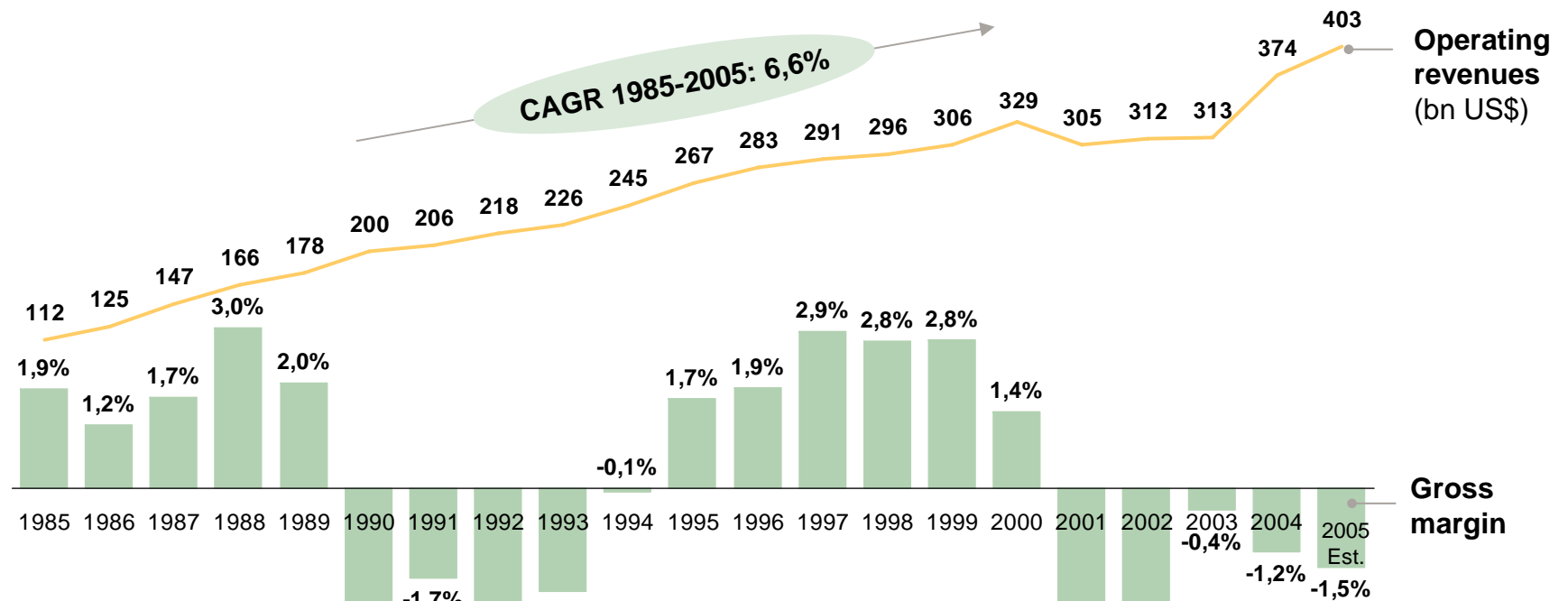
Profitable Growth Strategies in the Airport Business

Prepared for: GARS Conference Vienna



Even though global aviation represents a growth market, for the airline industry in total it has been a no profit business

Worldwide airline industry: Revenues and profitability



Source: ICAO, IATA, Mercer Analysis
 Remark: 2005 estimate as of Aug. 31, 2005

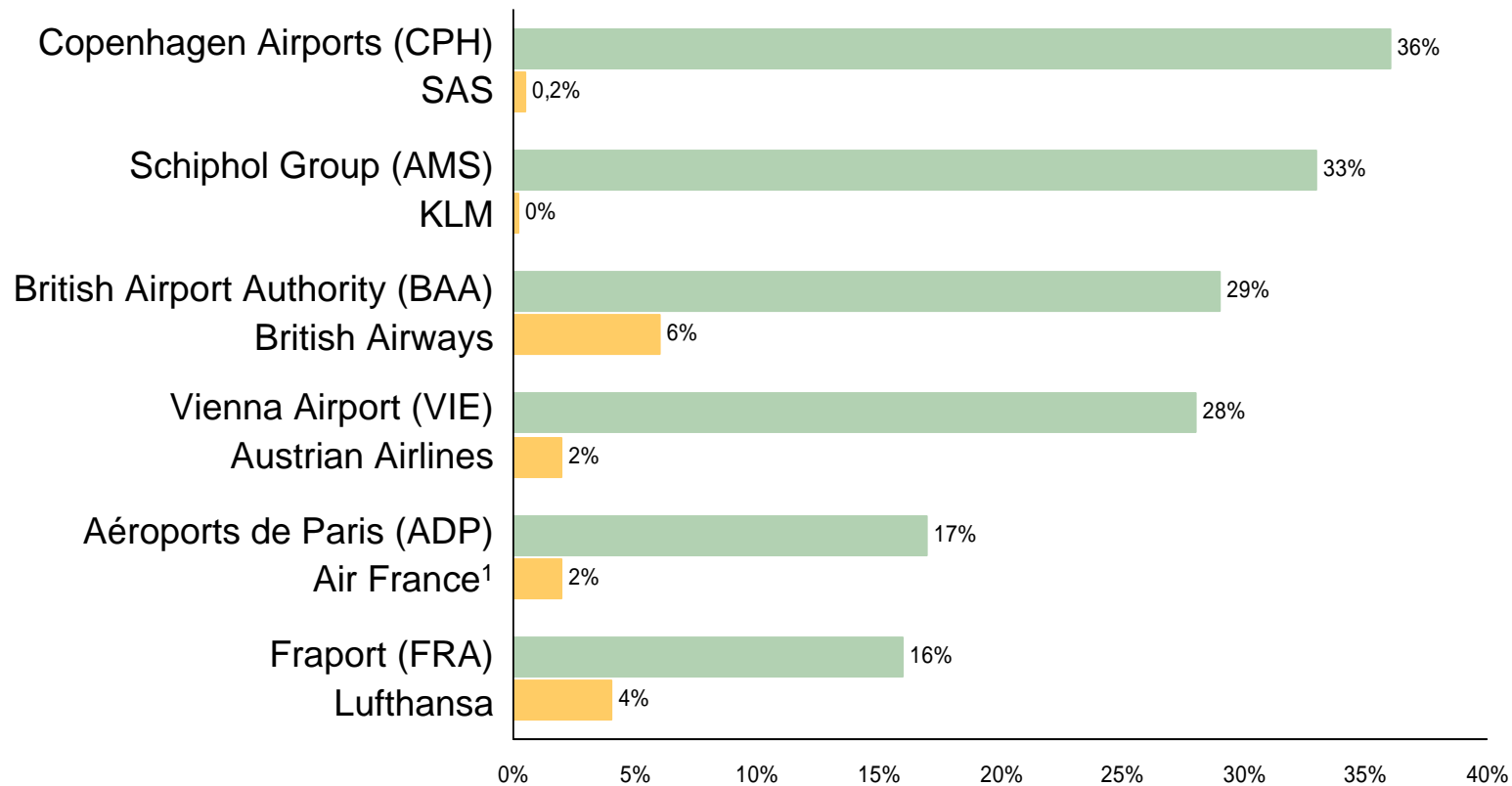
**Gulf war
1990/91**

**Sept. 11
2. Gulf war
SARS**

While most airlines have struggled to achieve acceptable profit margins, airports in general have been in a much more comfortable situation

Selected airlines /
home airports

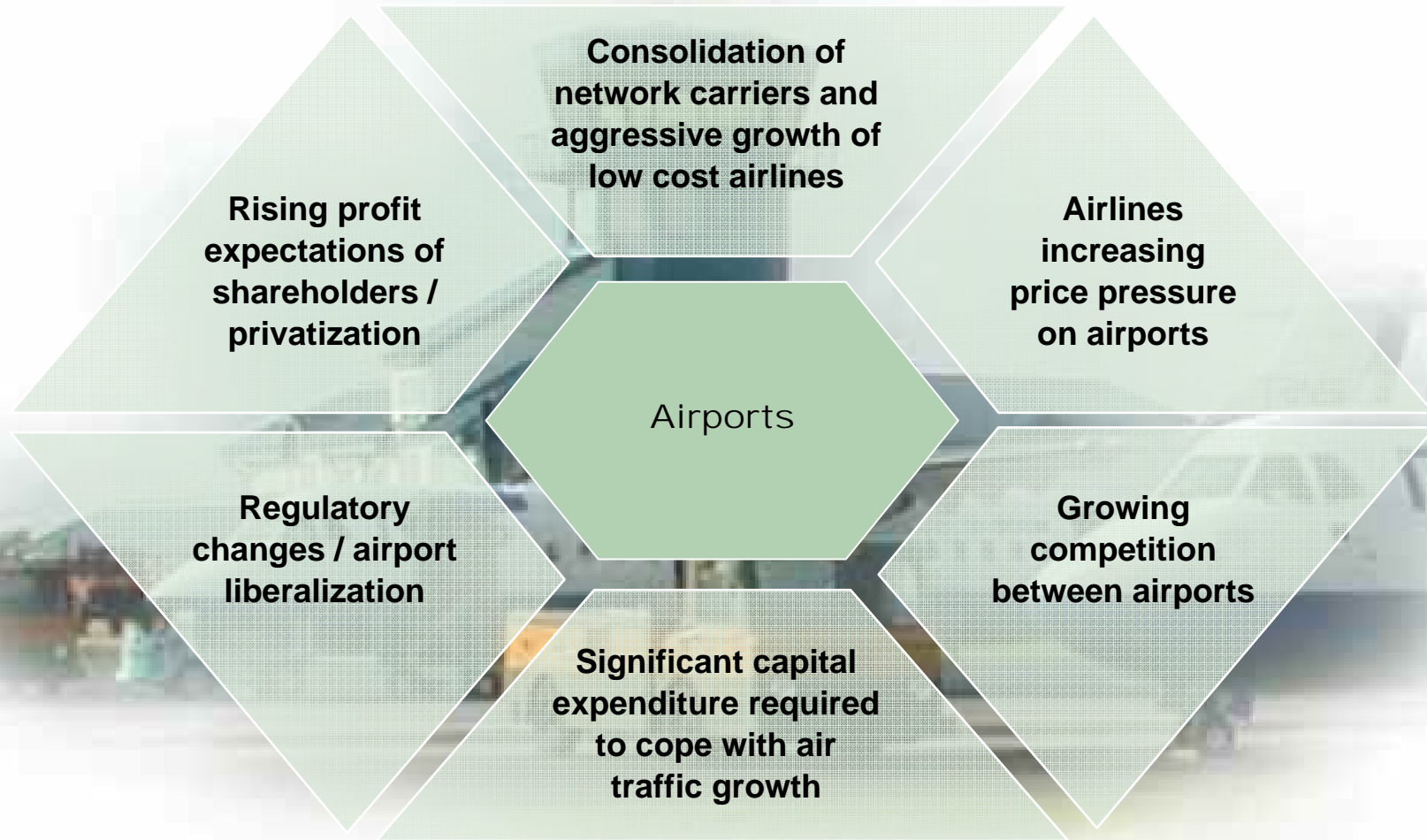
5 year average EBIT-margin
2000 - 2004 in %



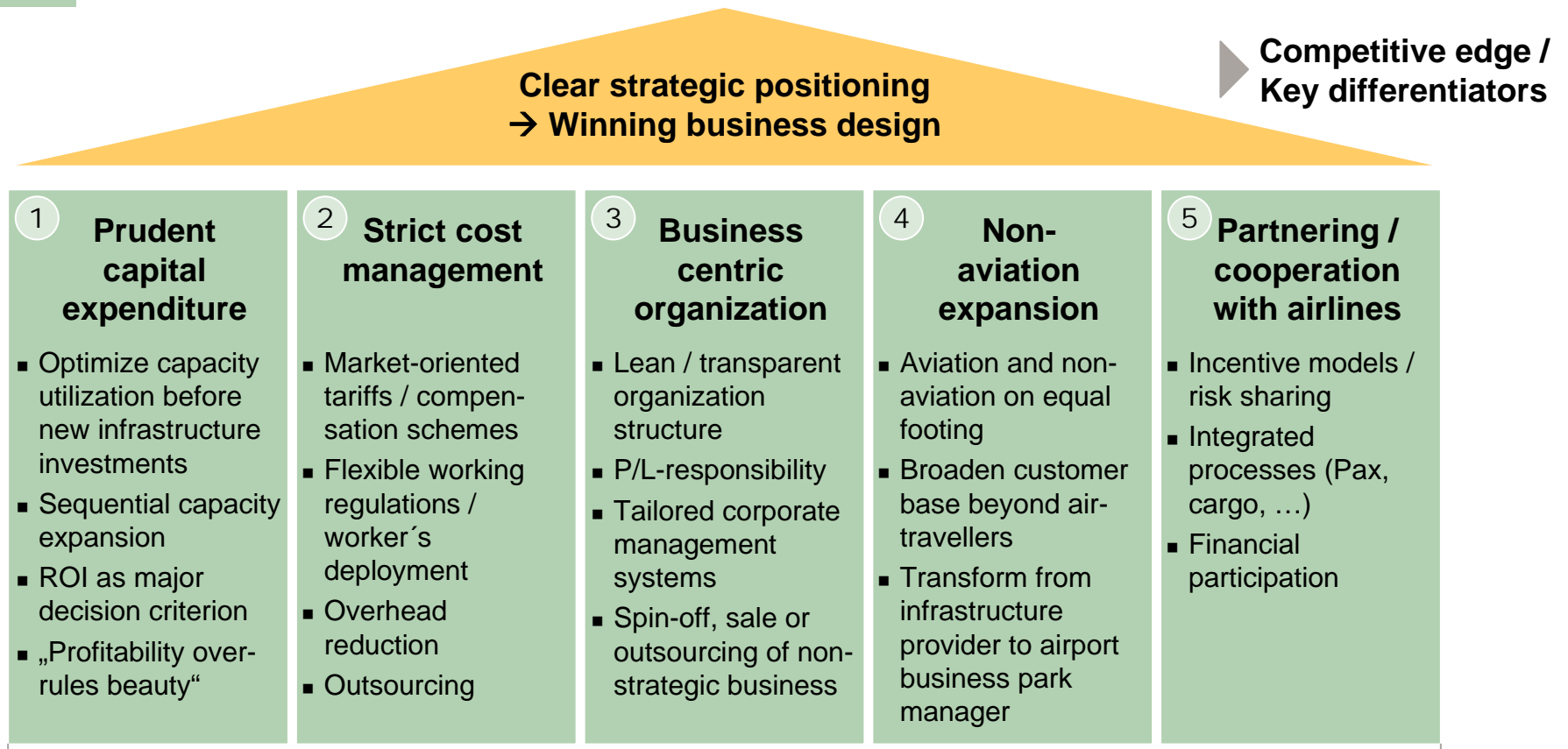
1 2004 incl. KLM
2 Until 2000 SAirlines, From 2001 Swiss International Airlines
Source: Mercer Analysis

Airport
Airline

However, due to fundamental changes in the market and competitive landscape, pressure on airports will increase significantly



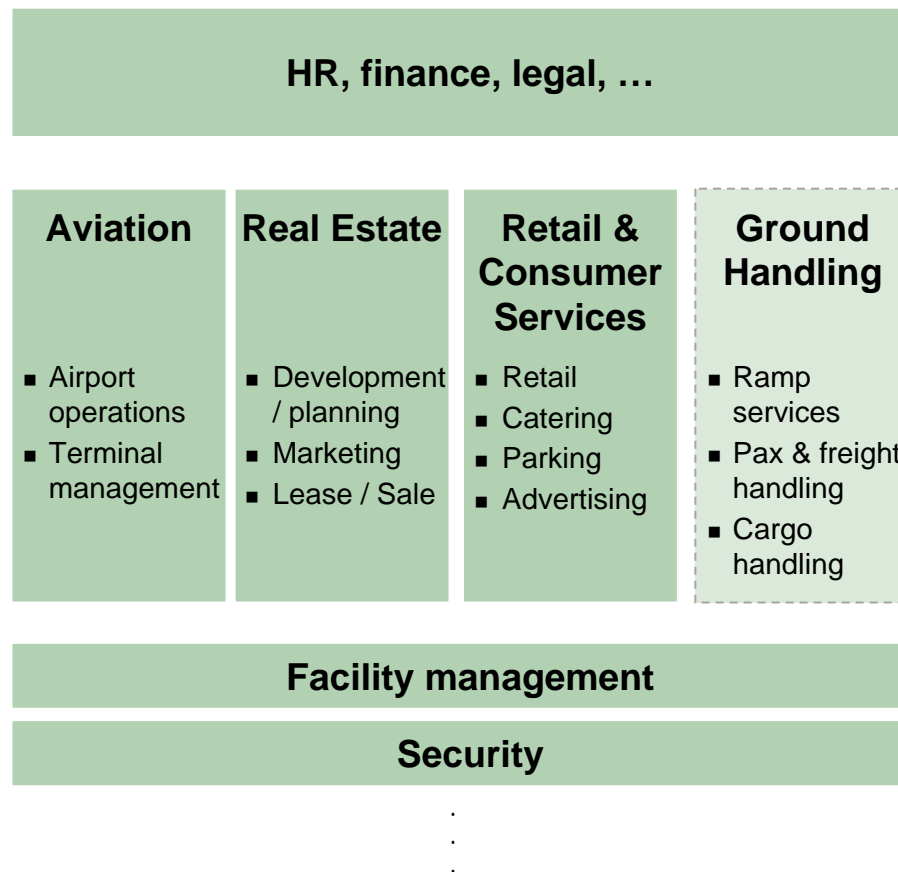
Profitable growth in the airport industry requires a sound business design and is based on fulfilling five key success factors



▶ Key success factors:

- Foundations of profitable growth - prerequisite for all airports
- Particular characteristics to be tailored towards specific strategic positioning

3 Airports have to move towards transparent management structures with an explicit focus on the core business and clear accountability



- ▶ **Corporate functions:**
 - Focus on corporate development / strategy, risk management, controlling and policy / standard setting

- ▶ **Strategic business units (SBU)**
 - Represent airport's core business
 - Address clearly defined, distinct market / customer segments
 - Full P&L responsibility at SBU level
 - Marketing and sales integrated in SBUs

- ▶ **Service units:**
 - Provide (internal) services for SBUs
 - Market-oriented offering and pricing based on benchmarks / service level agreements
 - Pursue profitable external business
 - Could be subsidiaries with / without external partners

- 4 A good example for an increased emphasis on the non-aviation business is the development of the „Düsseldorf Airport City“

Case Example: Düsseldorf Airport City



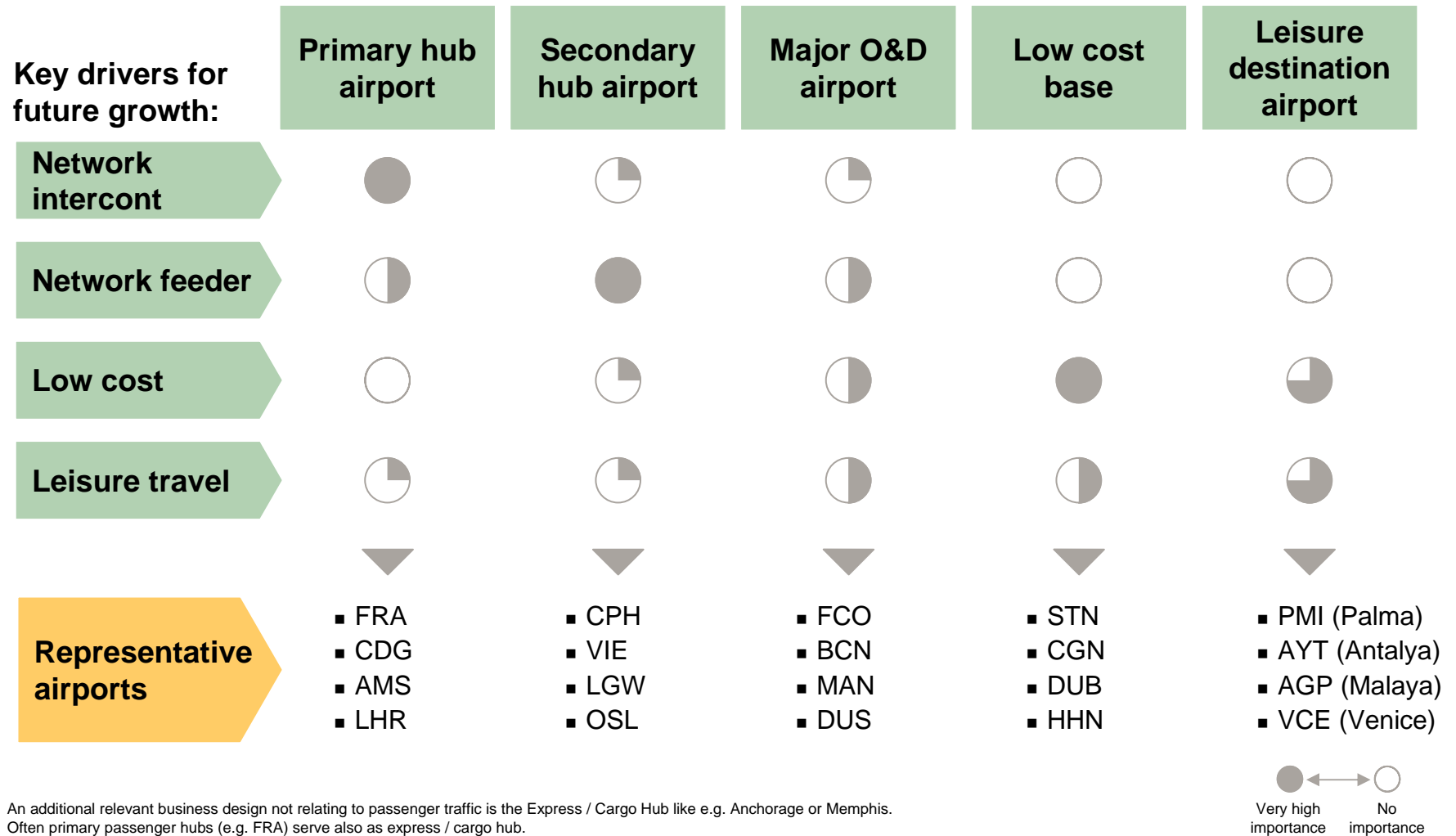
- Airport subsidiary „Flughafen Düsseldorf Immobilien“ (FDI) acquired 230.000 m² area previously occupied by Rhine army barracks
- FDI develops business park and office center gradually until 2013
- Airport City located next to the airport with a direct link
- Project status:
 - Underground car park with 1800 parking slots has been opened in September
 - Maritim 4 star conference hotel - to be opened mid 2007 - will serve as anchor project (530 rooms and conference capacity of 5.000 participants)
 - VDI headquarter (Jan. 2008) – VDI is one of the largest organizers of conferences in Europe and will use the Maritim facilities

- ▶ ■ **Synergies between airport and business park / office center will be leveraged**
- **Dependency on cyclical / volatile aviation industry is reduced**

Source: Company publications

Mercer has identified five sustainable business designs for airports, which are tailored towards the key drivers of future passenger growth

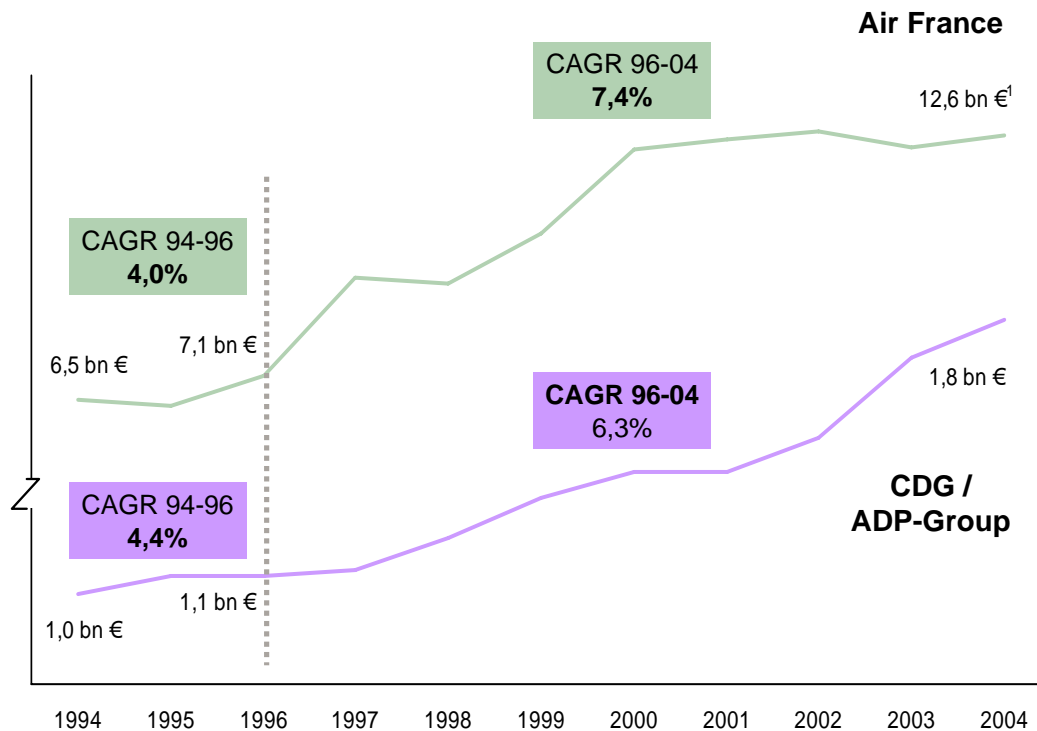
Sustainable business designs¹:



¹ An additional relevant business design not relating to passenger traffic is the Express / Cargo Hub like e.g. Anchorage or Memphis. Often primary passenger hubs (e.g. FRA) serve also as express / cargo hub.

CDG benefited significantly from becoming a primary hub for Air France in the mid 90s ...

CDG / ADP Group and Air France Revenue development (bn €)



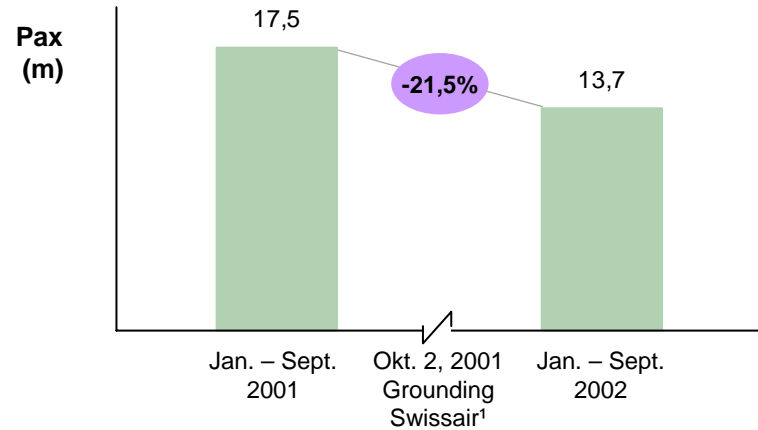
Source: Annual reports, Mercer analysis
 1 Only Air France, without KLM
 2 Based on seats offered

Comments

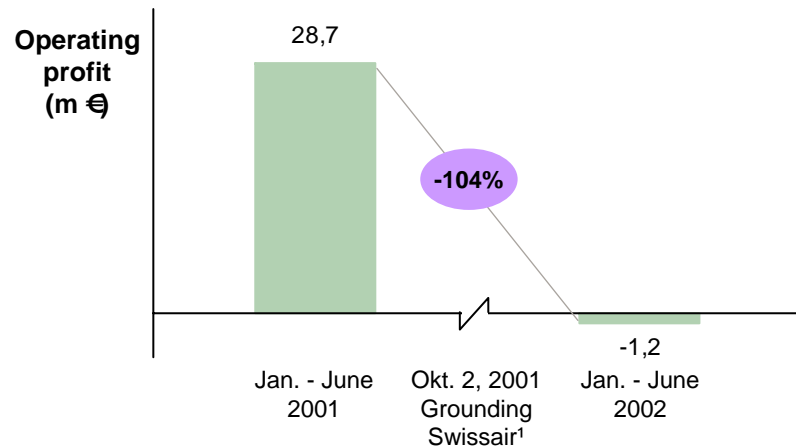
- In the mid 90s, Air France established CDG as its primary hub
- Air France / Skyteam dominate CDG with a market share of 56% / 63%² in 2004, up 3 percentage points from 2000
- CDG has been the fastest growing primary hub in Europe between 1996 and 2004:
 - CAGR pax: +6,2 %
 - CAGR freight: +8,3%
- CDG's transfer ratio remained stable at ~ 35%
- Intercont traffic has grown disproportionately from 35% to 40% passenger share

... however, failing in becoming a primary hub results in a hard landing

ZRH passenger volume 2001 - 2002



Unique operating profit 2001 - 2002

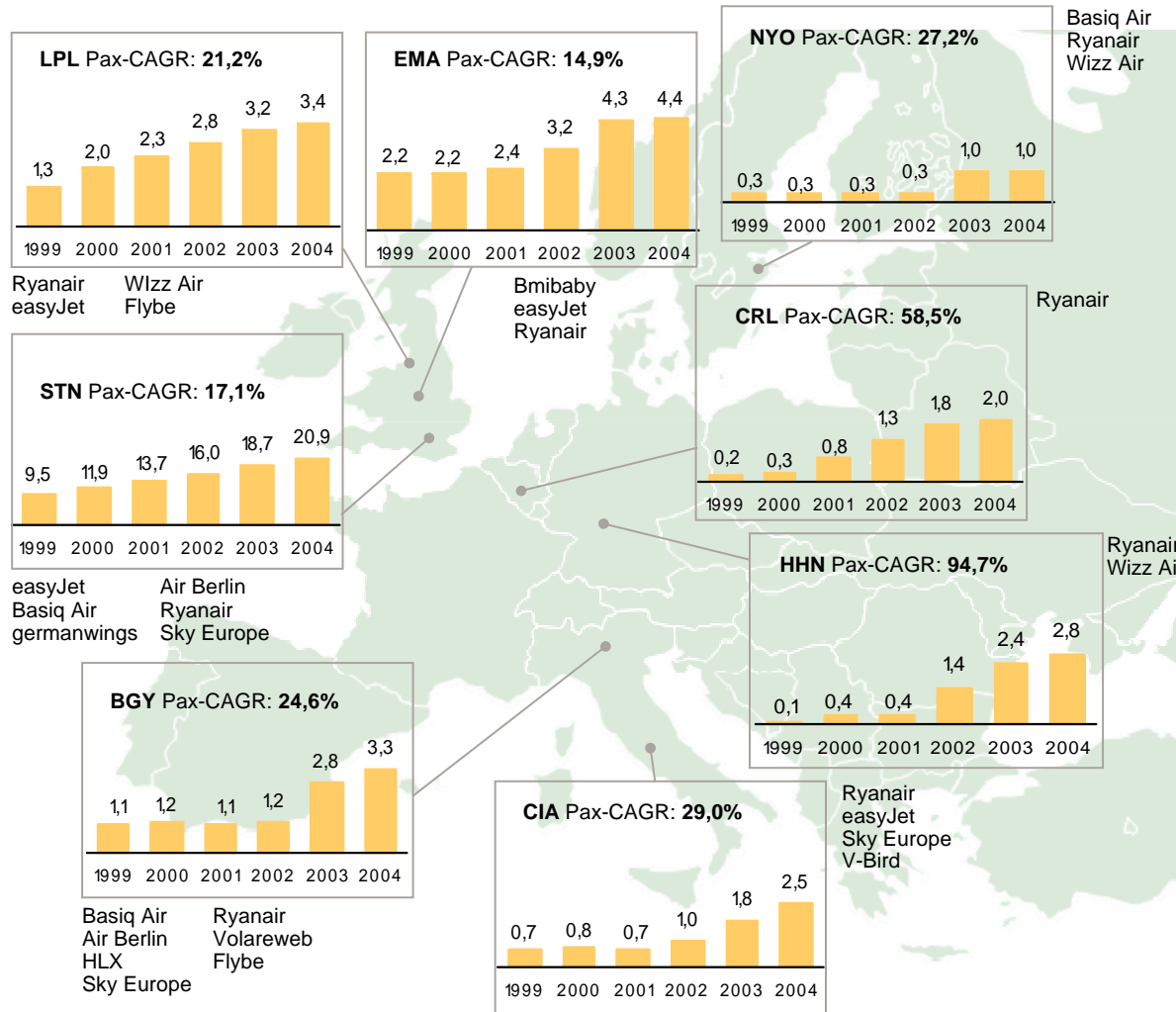


¹ Swissair officially went bankrupt on March 31, 2002

Comments

- From 2000 to 2003 passenger and freight volumes decreased by 25% and 27% respectively
- 2004 allowed for a 1.8% / 5,6% increase
- From 2000 to 2004 ZRH lost track of becoming a major hub:
 - Transfer passenger ratio: 44% → 28%
 - Intercont passenger share: 27% → 25%
 - Low cost passenger share: 1% → 9%
 - Swissair / Swiss market share: 61% → 51%
- Despite a moderate rebound in 2005, the future role of ZRH in the Lufthansa / Star Alliance network remains unclear

Especially for regional airports low cost has been a driver of enormous growth ...

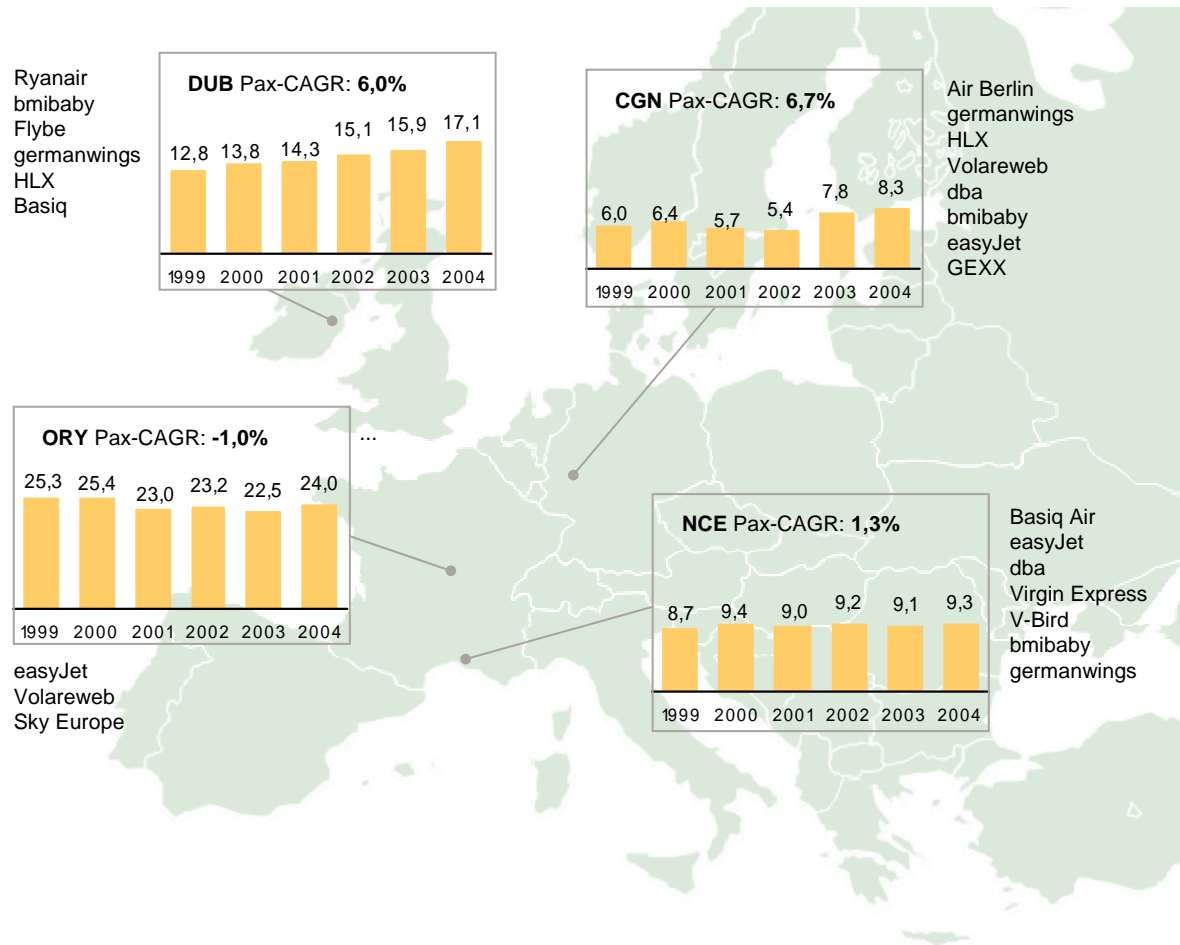


- For regional airports low cost is the only significant growth opportunity
- Low cost airlines:
 - Stimulate growing demand for air travel
 - Draw existing traffic from other airlines / airports and other means of transportation
- Low cost bases are often located in the periphery of a larger catchment area
- In general, after a period of rapid growth, saturation is reached within a few years
- This is also reflected e.g. by Ryanair's stable average base size of 2.5 m pax

Source: Albatross database, ACI, Mercer analysis

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... and also medium sized airports have benefited from the low cost boom















- For medium sized airports low cost:
 - Spurs growth (e.g. DUB, CGN) and / or
 - Mitigates the decline of charter and network travel (e.g. ORY)
- Even in a short timeframe low cost often becomes the most important airline segment (e.g., LC market share 2004 at CGN: 57%)
- Maintaining an acceptable profitability level is key challenge
- E.g. at CGN, EBIT margin dropped from 23% to 10% between 2002 and 2003

Source: Albatross database, ACI, Mercer analysis

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Customer requirements differ significantly for hub airports and low cost bases

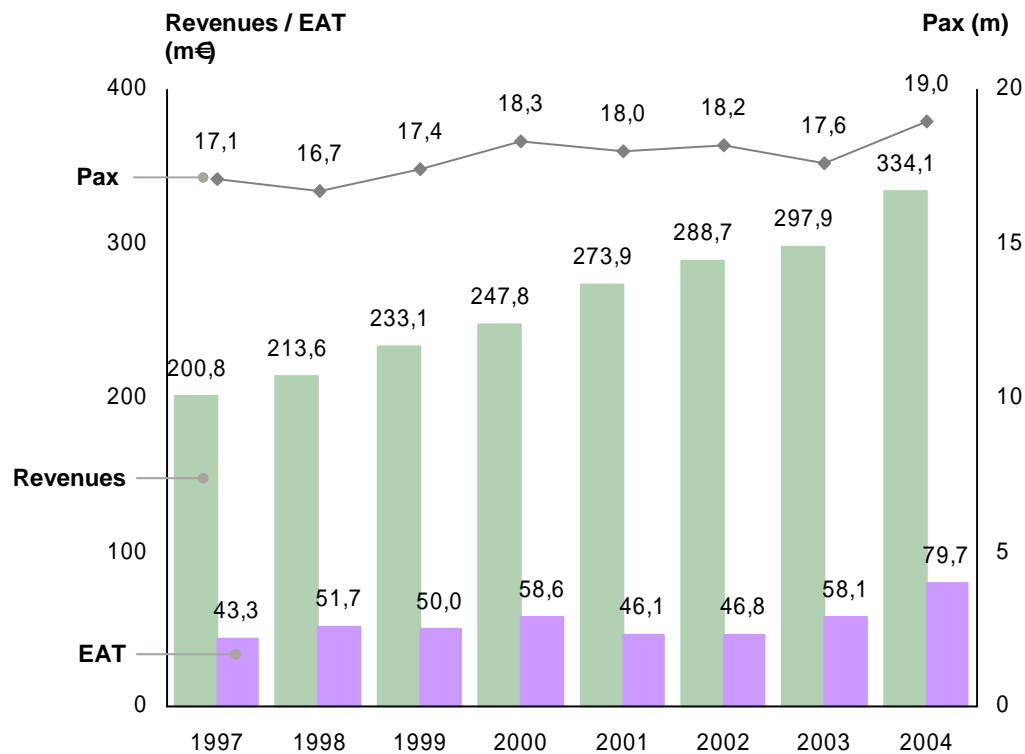
Criteria	Hub airport	Low cost base
Capacity and growth potential	 <ul style="list-style-type: none"> Long term capacity reserves (for more than 50m passengers) Tailored terminal design 	 <ul style="list-style-type: none"> Cost efficient infrastructure Limited capacity requirements (max. 5 - 10 m passengers)
Efficiency of offering	 <ul style="list-style-type: none"> Fast / convenient transfers Efficient hub operations (delays, lost baggage, turn around) 	 <ul style="list-style-type: none"> Basic offering tailored to particular needs of airlines Minimum turn-around time
Flexibility / speed	 <ul style="list-style-type: none"> Well-established business processes Joint planning (medium / long term) 	 <ul style="list-style-type: none"> High degree of flexibility Processes ad hoc adjusted to specific requirements
Fees	 <ul style="list-style-type: none"> Good value for money Growth fuels unit cost reduction 	 <ul style="list-style-type: none"> Minimum fees „We only pay for what we need“
Service integration	 <ul style="list-style-type: none"> Fully integrated services: Customs, security, ground handling 	 <ul style="list-style-type: none"> Simple, reliable services Collaboration with service providers / outsourcing
Regional connection	 <ul style="list-style-type: none"> Proximity to finance and business centers Intermodal integration / LD train 	 <ul style="list-style-type: none"> Passengers accept significant ground travel time to / from airport

► **Airport business design has to be tailored towards the needs of the key airline customers**

Importance for key customers:  Very high Irrelevant

CPH has been very successful in establishing itself as a secondary hub for the Star Alliance

CPH: Pax, revenues and EAT 1997 – 2004



Comments

- Star Alliance market share at CPH: ~62%¹
- Clear positioning as Star Alliance regional hub for Northern Europe:
 - Northern Europe: 40% of seats offered
 - Intercont: Only 8% of seats offered
- Outstanding financial performance despite moderate 11% traffic growth between 1997 and 2004
 - Revenue: +66%
 - EAT: +84%
 - Revenue / pax: +49% (11,8 € → 17,6 €)
 - Average profit margin (EAT): 21%

Source: Annual reports, Mercer analysis
 1 Based on seats offered

The next years will be exciting and challenging ...

- Due to fundamental changes in the market and competitive landscape, **pressure on airports will increase significantly** over the next years
- Profitable growth in the airport industry requires a sound business design and is based on **five key success factors**: Prudent capital expenditure, strict cost management, establishing a business centric organization, expansion of the non-aviation business and partnering / cooperation with airlines
- Adopting a **clear strategic positioning** is indispensable in order to benefit from the continued growth of particular passenger air travel segments: Only **five business designs** provide the basis for **value creation**
- **Primary hub airports** will leverage the growth of network intercont traffic, a limited number of **secondary airports** will be able to position themselves as regional feeder hubs
- By closely **collaborating with their leading network airline**, those airports must provide **seamless travel** for interconnecting passengers
- In order to take advantage of their large catchment area, **major O&D airports** will have to tailor their offering to distinct customer segments (Network feeding, low cost, charter)
- **Low cost bases** will benefit from the LC boom, however, achieving sustained profitability requires a complete alignment towards highly efficient low cost operations
- **Leisure destination airports** must attempt to stabilize / increase the attractiveness of their region