Secondary Slot Trading

Presentation to

Airneth Annual Conference



The Hague 12th April 2007



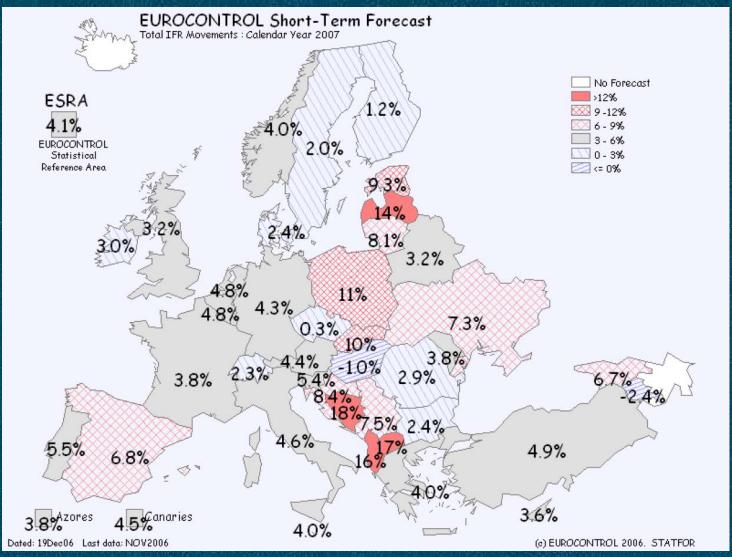
Agenda

- The problem
- Study objectives
- Different experience
- Analysis
- Findings
- Summary
- Questions



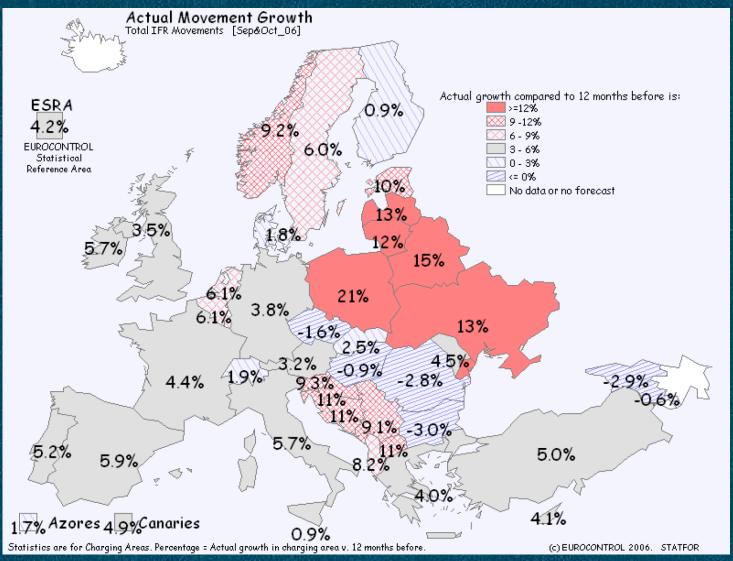
The problem!

IFR movement forecast for 2007 in Europe



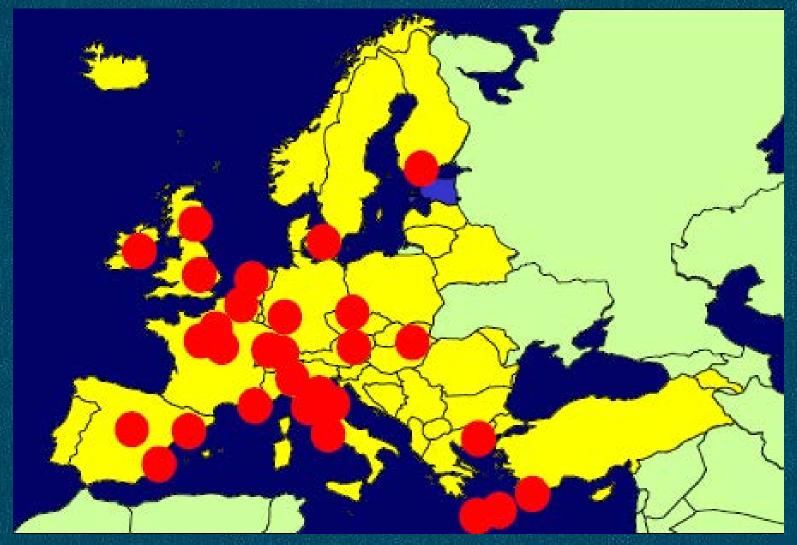


European Air Traffic will continue to grow at high rate



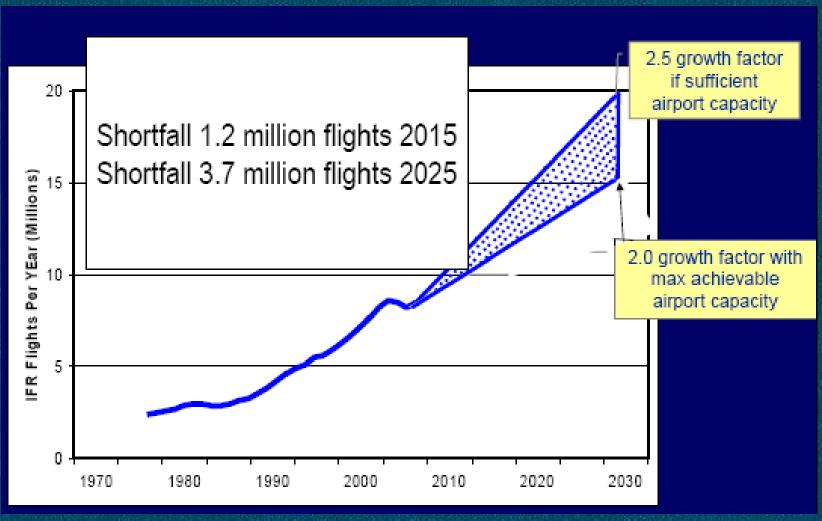


Airport capacity problems in Europe



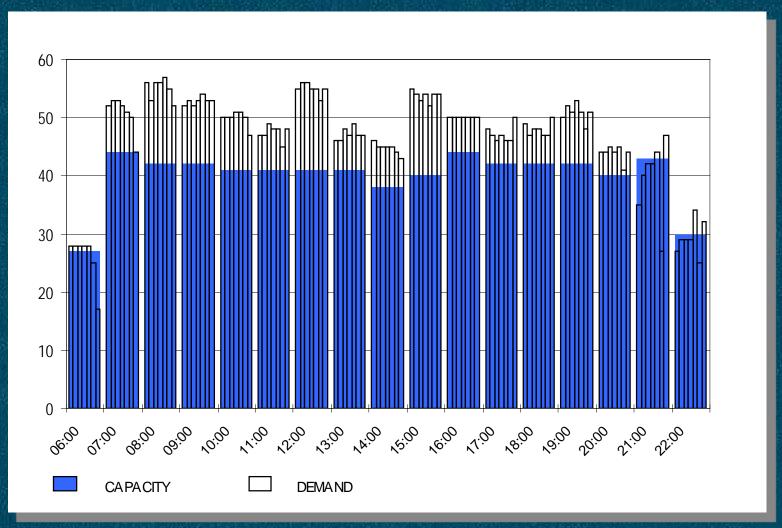


European airport capacity shortfall





Heathrow Summer Demand DEPARTURE MOVEMENTS (Typical week - all times local time)



Source: Airport Coordination Limited (ACL)



Objectives of the Commission

The purpose of the study was to:

Assess the likely effects of the introduction of secondary slot trading.

The Commission's other primary objectives were:

- To ensure mobility of slots and 'efficient' transport for passengers and cargo
- To strengthen competition at Community airports
- To match secondary trading with the overall EU (air) transport policy
- To ensure compatibility of secondary slot trading with world-wide procedures



US Experience of secondary Slot Trading

- It has led to a liquid and flexible market in slots
- It has fostered new entry
- It is supported by the industry and generated activity
- The regime works well with minimal regulatory intervention
- Liquidity has been facilitated by a high incidence of slot leasing
- Direct competitors already trade slots with each other
- Slots have been used as security in financings
- The regulatory approach has been adapted to the characteristics of each specific airport



UK Experience of secondary slot trading (1)

- It has led to a liquid and flexible market in slots
- It has fostered new entry
- It is supported by the industry and generated activity
- The regime has permitted slot leasing
- Direct competitors are prepared to trade slots with each other
- Regulatory approach identical at all UK airports
- Use of slots as security in financings has not developed



UK Experience of secondary slot trading (2)

- Key developments:
 - To date BA have been the largest purchaser of slots,
 - Other short-haul carriers have been the main sellers of slots at London-Heathrow.
 - New long-haul entrants have purchased slots.
 - Slot efficiency in ASKs per slot has significantly improved :
 - small short haul aircraft replaced by large long haul aircraft.



Secondary trading in other markets

- There are parallels in other markets:
 - range of market participants;
 - information publication;
 - range of transfers allowed;
 - competition issues.
- Six examples analysed:
 - Capacity rights for the UK–Europe natural gas interconnector
 - Capacity rights for the England–France electricity interconnector
 - Gas entry capacity rights for the UK gas transmission system
 - EU Emission Trading Scheme
 - Spectrum trading
 - Water abstraction rights in the UK
- Key findings
 - Majority of forms of secondary trading are bilateral. Occasional auctions
 - Rights differ according to the nature of the market e.g.:
 - Gas single day to 17 years.
 - Spectrum rights held indefinitely.
 - Water rights held indefinitely, or for shorter terms.



Trends in airport capacity and slot demand

- Commercial flights replace general aviation and other ad hoc flights
- Scheduled passenger flights replace cargo and passenger charter flights
- Aircraft size increases
- The average distance of flights increases
- General trend most evident at congested airports
- Demand for slots is likely to grow at a compound rate of 3.1% a
 year to 2025

Slots are used more efficiently at congested airports - even without secondary trading.



Total Flights at 30 European Airports, 1993 and 2005

Airport category	Uncongested	Partially	Heavily	Total	
		congested	congested		
Year	14	10	6	30	
1993	1,582,026	1,681,929	1,460,502	4,724,457	
2005	2,801,333	2,773,710	1,779,217	7,354,260	
Total Growth	77.1%	64.9%	21.8%	55.7%	
AAGR %	4.9%	4.3%	1.7%	3.8%	



Non-Commercial Flights at 30 European Airports, 1993 and 2005

Airport category	Uncongested	Partially	Heavily	Total	
		Congested	Congested		
Year	14	10	6	30	
1993	260,729	127,411	79,738	467,878	
% total movt	(16.5%)	(7.6%)	(5.5%)	(9.9%)	
	Pass Mills				
2005	307,605	97,992	70,078	475,675	
% total movt	(11.0%)	(3.5%)	(3.9%)	(6.5%)	
	APAGE MARKET		在於根据的		
Total Growth	18.0%	- 23.1%	-12.1%	1.7%	
AAGR %	1.4%	- 2.2%	- 1.1%	0.1%	
	30015年的6世間7世纪5月	而14年的支持。10年1月1日			



Air Transport Movements at 30 European Airports, 1993 and 2005

Airport category	Uncongested	Partially	Heavily	Total
		Congested	Congested	
Year	14	10	6	30
1993	1,321,297	1,554,518	1,380,764	4,256,579
2005	2,493,728	2,675,718	1,709,139	6,878,585
Total Growth	88.7%	72.1%	23.8%	61.6%
AAGR %	5.4%	4.6%	1.8%	4.1%



Average Passengers per PATM for 19 European Airports, 1993 and 2005

Airport category	Uncongested	Partially	Heavily	Total	
		Congested	Congested		
Year	7	6	6	19	
1993	62.2	75.8	109.2	86.9	
2005	77.0	100.4	120.1	100.4	
Growth – pax/flt	14.8	24.6	10.9	13.5	
Growth - %	23.8%	32.4%	10.0%	15.6%	
AAGR %	1.8%	2.4%	0.8%	1.2%	

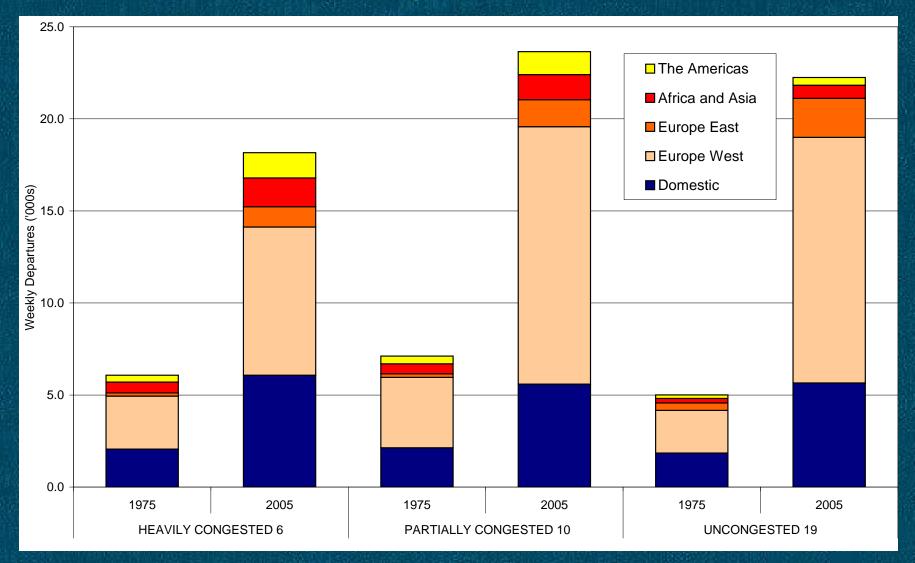


Growth Rates by Destination by Airport Category, 1975 to 2005

Airport category	Uncongested	Partially	Heavily	Total
		Congested	Congested	
Destination	19	10	6	35
Domestic	3.81%	3.52%	2.18%	3.18%
Europe West	6.00%	4.83%	2.90%	4.66%
Europe East	5.72%	7.16%	6.21%	6.23%
Africa and Asia	3.57%	3.14%	3.25%	3.27%
The Americas	2.72%	3.70%	4.48%	3.86%
Total	5.10%	4.40%	2.97%	4.18%

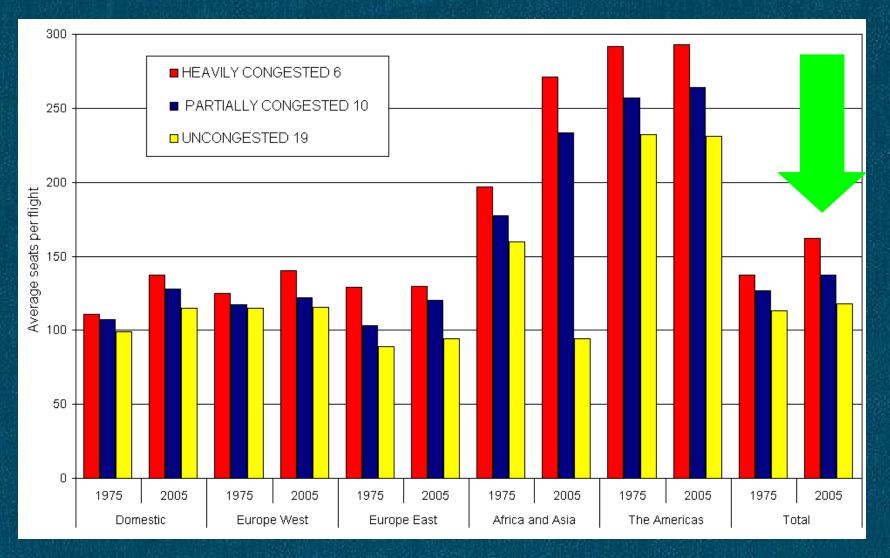


Weekly departures by region, 1975 - 2005



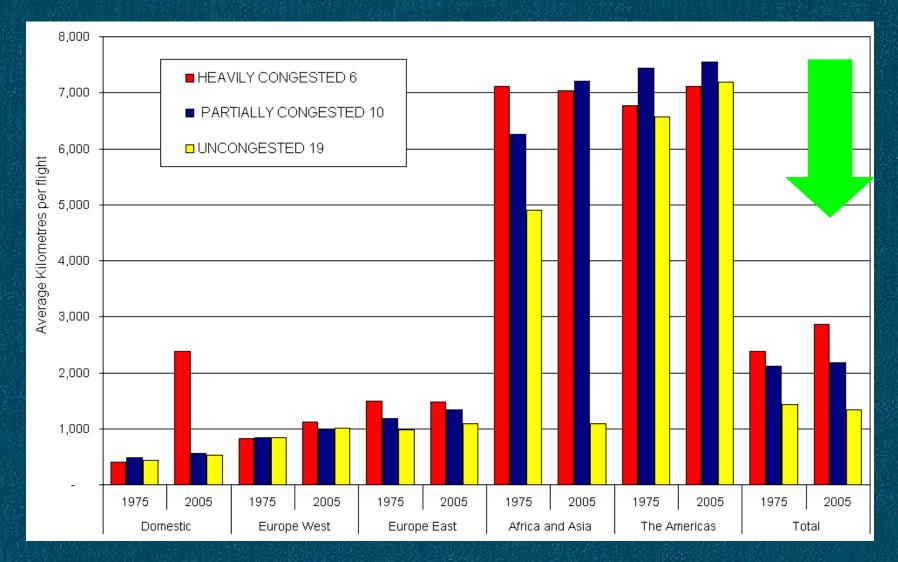


Average seats per flight, by region





Average kilometres per flight, by region





Industry Expectations of the Impact of Secondary Trading

The industry recognises that allowing trading will accelerate the trend towards larger aircraft travelling longer distances.

It is generally agreed that:

- long-haul new entrants and dominant hub carriers will benefit most
- smaller regional carriers and routes to peripheral destinations will suffer most
- short-haul competition may diminish
- long-haul competition is expected to increase.



Statistical Assessment of Impact of Secondary Slot Trading

- Secondary trading at European airports is forecast to:
 - Increase passenger numbers by 7.2%
 - Increase revenue passenger kilometres by17.1%
 - Lead to an extra 51.6 million passengers at congested European airports in 2025.



Economic and Environmental Impact Assessment

The study also looked at the effects on

- producer and consumer welfare;
- the degree of competition between airlines and between airport hubs;
- the effect on thin community routes;
- airport finances;
- local and wider economic costs and benefits;
- CO2, NOx and noise emissions.



Consumer Welfare Outcomes Resulting from Introducing Secondary Trading (€m)

Airport	London-	London-	Porio Orbi	Paris-C. de	Ametaulan	Durandalari	Frankfust	Milan-Linate	Total Eight	FUTatal
Flight Category	Heathrow	Gatwick	Paris-Orly	Gaulle	Amsterdam	Dusseldorf	Frankfurt	Willan-Linate	Airports	EU Total
Long-haul	4,418	1,639	187	5,941	4,198	203	3,168	0	19,754	32,594
Dominant incumbent	2,728	518	0	2,596	1,665	0	1,163	0	8,670	14,306
Other incumbent	603	252	78	786	0	0	0	0	1,719	2,837
New entrant	1,087	868	109	2,560	2,533	203	2,005	0	9,365	15,452
Short-haul >100 seats	-404	192	624	194	296	116	-28	-1	989	1,632
Dominant incumbent	75	-	-100	130	231	0	73	14	362	597
Other incumbent	-479	fg7	272	-175	0	0	-203	-19	-407	-672
Low-cost	0	-85	26	-54	-97	0	0	-15	-224	-370
New entrant	0	141	426	293	161	116	102	18	1,258	2,076
Short-haul <100 seats	-9	-6	-18	-43	-78	-8	-45	-2	-209	-345
Dominant incumbent	0	-6	-14	0	-48	0	-10	0	-77	-128
Other incumbent	-9	0	-4	-43	-27	-8	-36	-2	-129	-213
Low-cost	0	0	0	0	0	0	0	0	0	0
New entrant	0	0	0	0	-3	0	0	0	-3	-5
Charter	0	-46	-9	-101	-49	-24	0	0	-229	-378
Cargo	0	-84	0	-867	-398	0	-262	0	-1,611	-2,658
Total	4,006	1,696	784	5,124	3,969	287	2,832	-4	18,694	30,845



Summary of Economic and Environmental Impacts from Slot Trading

Parameter	Impact
Consumer welfare	€31 bn
Producer welfare	0 to €1.2 bn
Competition	Neutral to slight negative
CO ₂	- €1.3 bn to - €6.7 bn
NO _X	- €50 mn to - €134 mn
Noise	Neutral
Local economy	Neutral to slight positive
Thin community routes	Slight negative



Secondary Slot Trading – The Effects

- Secondary trading would support the Commission's objective of 'ensuring mobility of slots and efficient transport for passenger and cargo':
- It will increase the mobility of slots
- Improve the ability of airlines to trade and to respond to market demand
- But may be limited once a new equilibrium is reached so may not lead to a continuing high turnover of slots.
- New entrants, especially intercontinental carriers, will find it easier to gain access to congested hubs
- Other airlines with small slot shares will have an improved mechanism enabling them to grow.



Objective to strengthen competition at Community airports

- Existing dominant hub carriers at congested airports increase their share of slots from average 47% to 49%
- Significant network benefits Competition between major European hubs will increase in line with major carrier hub dominance.
- Competition will increase for long-haul flights and reduced on intra-EU flights as slots are traded.
- Routes to peripheral regional airports may be lost from congested hub airports
- Possible increasing role for Public Service Obligations [PSOs] protection.



Objective - Match the secondary trading with the overall EU (air) transport policy

- It increases consumer welfare some €31 bn in 2025 and producer welfare by some €1.2 bn.
- It improves the finances of major airports by 7%
- It increases the broader economic contribution of major hub airports.
- The direct environmental impacts of congested airports will be marginally worsened, despite significant increases in throughput
- The broader environmental impact of specific airports may be more considerable, reflecting the expansion of long-haul services, and the transfer of short-haul services



Consistency with other EC Policies

- Trade EC / US Open Skies
- Regional development
- Environmental
- Competition



Primary Slot Allocation Issues

The Commission also asked the study to conduct initial analysis of three areas of the current Primary Slot Allocation regulations that could be amended:

- Amending the 80/20 rule on slot usage to a higher percentage
- Auctioning any large tranches of new slots at an airport (though without specifying which party would receive the revenues)
- Withdrawing a set percentage of 'historic' slots on an annual basis, for reallocation to the highest bidder
- The study concluded that there would be no benefits in amending the current 80/20 rule.
- It also recommended that the US policy in relation to New York-LaGuardia be closely monitored - the FAA has proposed withdrawing all (domestic) slots over a ten year period, for auctioning to the highest bidder for a period of ten years.



Summary of secondary slot recommendations

- Secondary slot trading was recommended for broader use throughout Europe
- The general approach should be similar to that currently adopted by the U.K.
- In addition, it is recommended that coordinators regularly publish details of all slot trades, but excluding the price paid
- Following US domestic practice, although currently against IATA
 Guidelines, it was recommended that further consideration be given to allowing any party to purchase and own slots, not just airlines



Questions

Thank you

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