

InterVISTAS

AVIATION TRANSPORTATION TOURISM



TURKISH AVIATION ACADEMY



Airline Business and Financial Planning

Istanbul Technical University

Air Transportation Management, M.Sc. Program

Aviation Economics and Financial Analysis

Module 8

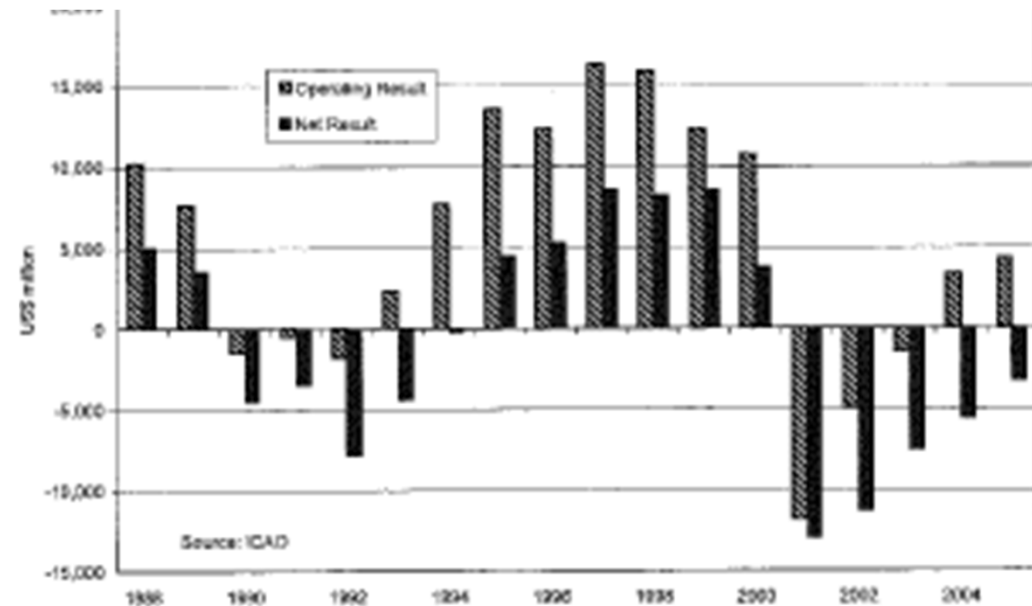
21 November 2013

Dr Emre Serpen

Executive Vice President and Head of
Airline Practice

Airlines are capital intensive, small margin and high risk business susceptible to significant environmental risks and uncertainties

- Since the start of the first commercial service airlines lost
- Results generally follow fluctuations in economy, several factors including bias
- Supply exceeding demand, subsidisation of state owned carriers, prestige driven investments are among additional factors causing bias
- Recent years airlines in US and Europe generally improved scrutiny of fleet orders
- There are no shortage of entrepreneurs with readiness to invest in aviation – regardless of risks and expected returns compared to other industries



Cumulative net losses of scheduled airlines 1990-93 was \$ 20.3 Billion

1995 – 2000 total profits were \$ 40 billion

Overview

Cumulative net losses of scheduled airlines 1990-93 was \$ 20.3 Billion

World Economic growth from 94 to 2000, reflected in improvements in airline profitability, 1995 – 2000 total profits were \$ 40 billion

Since the end of the early 1990's recession airlines balance sheet strengthened allowing fleet modernisation with debt/equity ratio improving from 2.9 at the beginning of 90's to 2.4 in mid 2000's

Cost of Jet fuel jumped from 40 cent to 75 cent and more in 2000's proportion of fuel cost increased from 12 % to 30% of total airline operating expenses

During 2004 jet fuel increased to high of 157 cents per barrel

Recession in world economy post 2008 had detrimental effect on profitability

*Major airlines are making less than the price of a sandwich from each passenger they carry
flagship carriers were making \$4 profit a head.*

Overall the 241 IATA members made \$12.7 billion profit last year.

In 2006 oil was trading at \$82 a barrel and global economies were growing at 4pc.

Last year carriers achieved modest profitability despite oil averaging \$130 a barrel and growth running at 2.1pc.

Overview

Airline financial results are sensitive to small changes in revenues or costs due high gearing ratios.

Financial gearing is expected to decrease, as more assets are financed by operating leases rather than the debt.

Airlines also have high operational gearing due fixed nature of operating expenses and relatively small margins on sales, resulting significant fluctuations in net margins

Breakeven load factor is important concept and shows airline recovering its costs, and this increased for airlines from 57% in 90's to 60%+ in 2000's.

Utilisation of the aircraft is critical for the results, airlines typically design 10/11 hour for NB, and 12-14 hours per day for WB aircraft

Airlie Revenues and Costs

Revenues

Scheduled Airline

Revenues

Charter Revenues

Cargo Revenues

Mail Revenues

Ancillary Revenues

Baggage Revenues

Cash Costs

Fuel

Maintenance

Navigation

Airport Landing

Catering

Ground Handling

Flight Crew

Cabin Crew

Aircraft Ownership Costs

Owned Fleet (Depreciation)

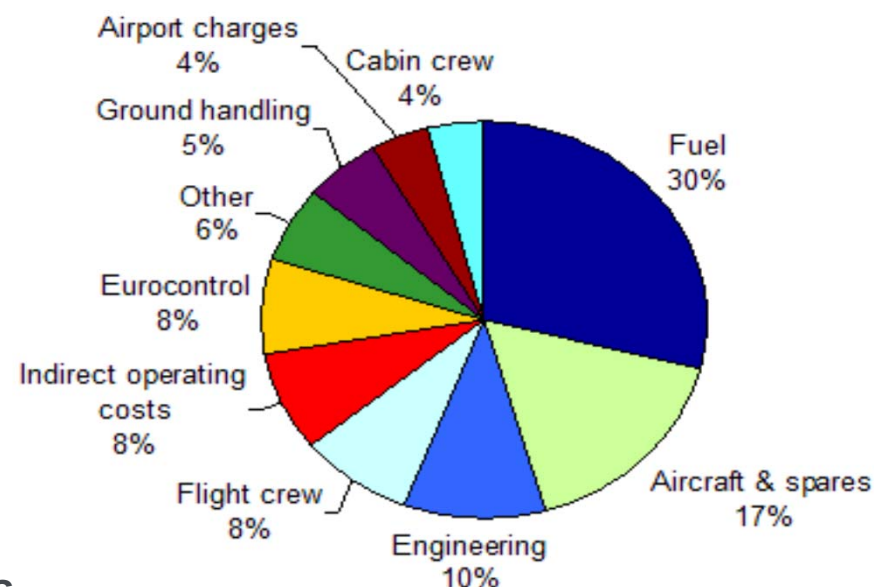
Leased Fleet

Insurance Costs

Overhead Costs

Staff Costs

Other overhead costs



Understanding Operational Costs

B737

737-300														
Manufacturer: Boeing														
Class: Narrowbody														
Average Block Hour Operating Cost	Crew Cost	Fuel/ Oil	Aircraft Cost	Insur.	Taxes	Maintenance		Other	Total BH Cost	Monthly Aircraft Ownership Cost	Rentals	Deprec.	Amort. Of Cap. Lease	A/C Total /Month
						Direct	Burden							
737-300	\$742	\$2,305	\$424	\$13	\$76	\$520	\$85	\$0	\$4,165		\$57,691	\$56,010	--	\$113,701
Southwest	\$684	\$2,308	\$420	\$14	\$78	\$441	\$84	\$0	\$4,030		\$55,050	\$58,702	--	\$113,752
US Airways	\$1,419	\$2,278	\$474	\$1	\$46	\$1,439	\$101	--	\$5,758		\$84,569	\$28,618	--	\$113,187
Aircraft Operational Statistics	Aircraft In Fleet	Stage Length	Seats/ Dept.	Gal. Of Fuel/HR	Average Aircraft Operations Per Day				Load Factor	Aircraft Operating Cost/ASM (cents)	Aircraft Cost Maintenance		A/C Total Per ASM	
					Depts.	Block Hrs.	RPMs	ASMs			Crew			
737-300	183	533	137	748	5.6	9.0	317,930	410,778	77.4%		1.6	0.9	1.3	9.1
Southwest	167	528	137	747	5.8	9.1	323,165	418,691	77.2%		1.5	0.9	1.1	8.7
US Airways	16	595	131	757	4.2	7.9	264,648	330,238	80.1%		3.4	1.1	3.7	13.7

A320

A320														
Manufacturer: Airbus														
Class: Narrowbody														
Average Block Hour Operating Cost	Crew Cost	Fuel/ Oil	Aircraft Cost	Insur.	Taxes	Maintenance		Other	Total BH Cost	Monthly Aircraft Ownership Cost	Rentals	Deprec.	Amort. Of Cap. Lease	A/C Total /Month
						Direct	Burden							
A320	\$507	\$2,458	\$527	\$6	\$67	\$594	\$161	\$11	\$4,331		\$117,023	\$58,943	--	\$175,966
JetBlue	\$585	\$2,419	\$396	\$6	\$73	\$379	\$131	\$11	\$3,999		\$53,329	\$93,777	--	\$147,105
United	\$531	\$2,306	\$489	\$4	\$81	\$891	\$233	\$6	\$4,541		\$89,721	\$59,925	--	\$149,646
US Airways	\$437	\$2,396	\$733	\$4	\$67	\$813	\$101	--	\$4,551		\$200,869	\$25,592	--	\$226,460
Delta	\$388	\$2,373	\$234	\$12	--	\$485	\$271	\$11	\$3,775		\$15,883	\$53,103	--	\$68,986
Virgin America	\$353	\$2,362	\$1,048	--	\$160	\$351	--	\$47	\$4,321		\$383,090	\$8,843	--	\$391,932
Frontier	\$897	\$5,278	\$1,432	\$12	--	\$707	\$84	\$10	\$8,419		\$499,538	\$54,116	--	\$553,654

InterVISTAS

AVIATION TRANSPORTATION TOURISM

Airline Business and Financial Planning



Profitability forecast and development of a bankable business plan is critical for airline to raise finance at competitive rates

Airline Business and Financial Planning is prompted by multiple reasons

- ❖ **Financial implications of strategic plans**
- ❖ **Fleet Planning and Renewal**
 - ❖ **Governments not willing to provide funds for flag carriers with operating losses and require detailed business plan**
 - ❖ **Current conditions makes fleet financing difficult for many airlines . Airlines cant raise finance from local banks and they need to access capital markets**
 - ❖ **Start up carriers below profitability targets are not funded by owners/holding companies**
 - ❖ **Incorrect fleet decisions increased competitor activity, and unrealistic growth rates can cause stakeholders to review risk exposure and require detailed business plan**

Airline Financial Plan is mostly Dictated by Airline Business plan

Profit forecast, business risks influence airline financial plan

Execution effectiveness and financial results

Market and competitive changes, strategic options (mainline, regional, cargo, MRO etc)

Changes in route structure and alignment of fleet with changes in strategy and network

Alignment and improvement of commercial and operational activities

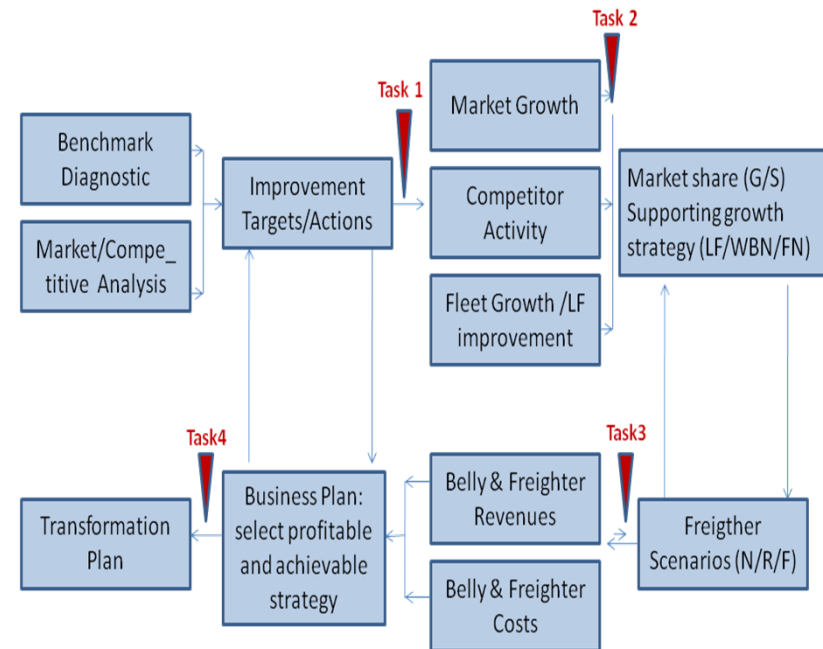
Forecast of marketshare and route profitability based on variable contribution

Business plan: revenue, cost, profitability forecast

Assessment of risks; market, competition, turnaround delivery, fuel costs etc.

Aircraft sourcing, availability, vintage , buy versus lease

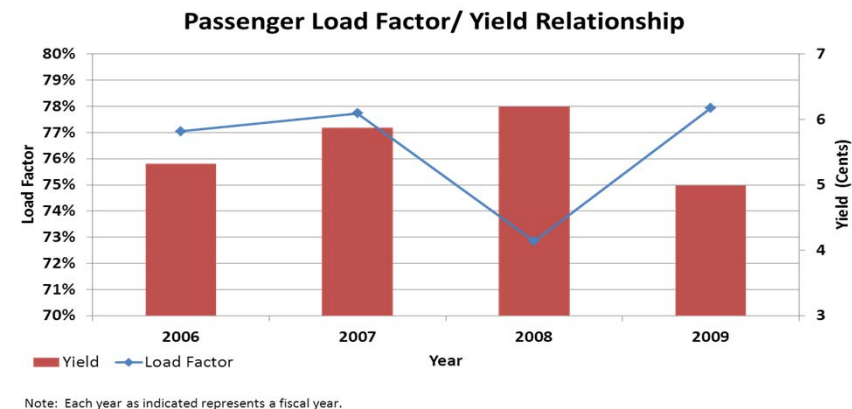
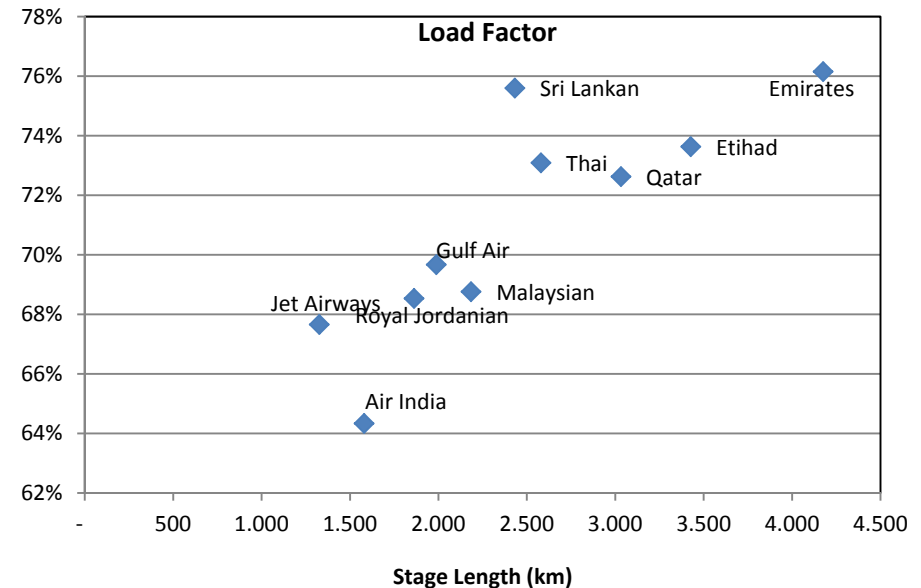
Financial analysis sources and application of funds



Breadth of depth of analysis, accurate assumptions, implementable strategies and improvement actions are key for the quality of the business plan

Benchmarking provides insights to execution effectiveness and also effectiveness and results of the current strategy

- Compare commercial performance with peers and competitors
- Passenger Numbers, Capacity (ASK), compare airline's growth with its peers and competitors
- Revenues,
 - RASK , Load Factor, Yield,
 - Cargo Revenue and Ancillary Revenues
- Costs, CASK,
 - Fuel, Maintenance, Ground, Crew et
- The productivity benchmarking
 - number of employees per passenger,
 - employees per aircraft, employees per ASK.
 - Cockpit cabin crew productivity
- Follow up gaps with further detailed diagnostic to identify improvement areas



Poor revenue performance often driven by

markets, capacity, product quality, fleet utilisation, commercial strategy, and management expertise

- Review functions contributing to revenues

- Network revenue performance

Marketshare by revenue quality

Low share, High yield: Improve LF, better RM

High Share Low Yield: Improve RM

Low share low Yield: Restructure

Poor optimisation 2% - 10%

Reasons for poor route performance

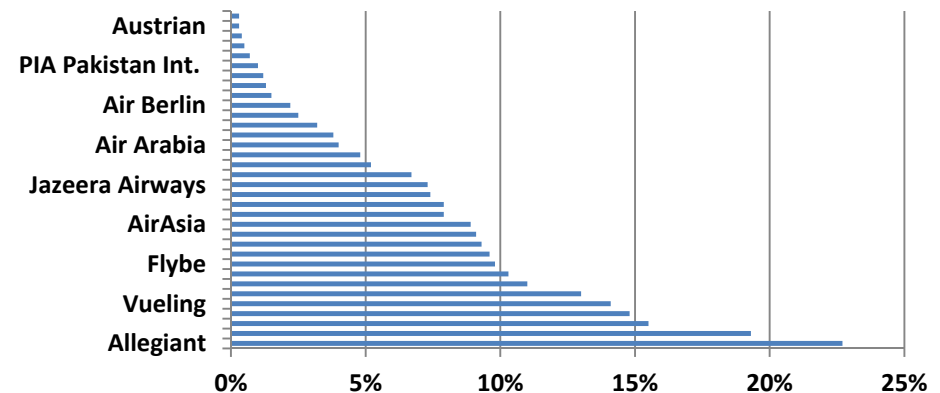
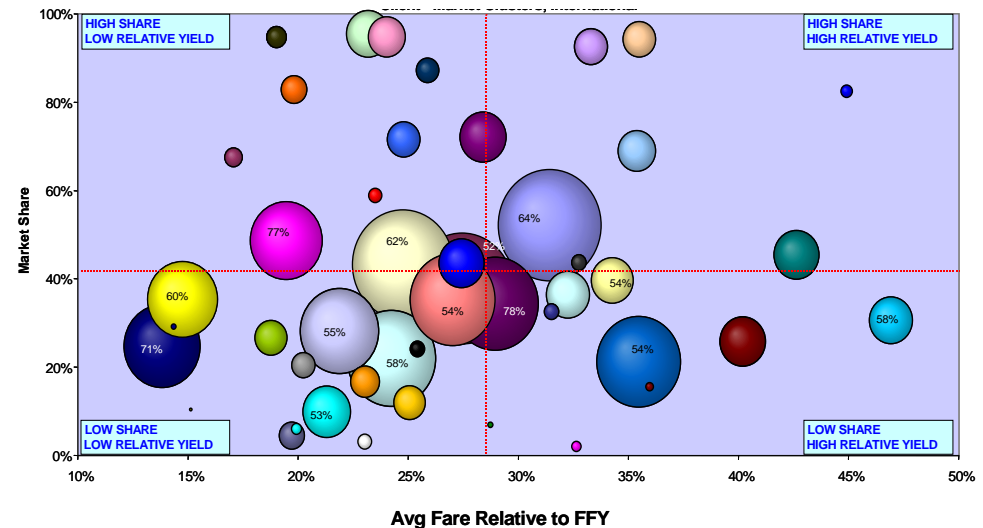
Route restructuring costs -

- Pricing and RM improvement

- Lack of management expertise, tools
- Proactive, Strategic, Performance focused
- Opportunity 2% - 5 %

Ancillary Revenues

Full service 5% Low cost/Regional 20%



Airlines with high costs route structure, typically driven by,
wrong fleet mix, low fleet utilisation, and low staff productivity, high MRO,
crew, ground handling, distribution costs and overheads

CASK benchmarking can highlight opportunities to reduce cost and improve productivity

Maintenance costs (9 % costs)

Benchmark Maintenance costs
 Hangar/Engine Component
 TAT/costs
 Materials/Supply Chain
 outsourced contracts

Pilot/Cabin crew costs (3-10% roster)

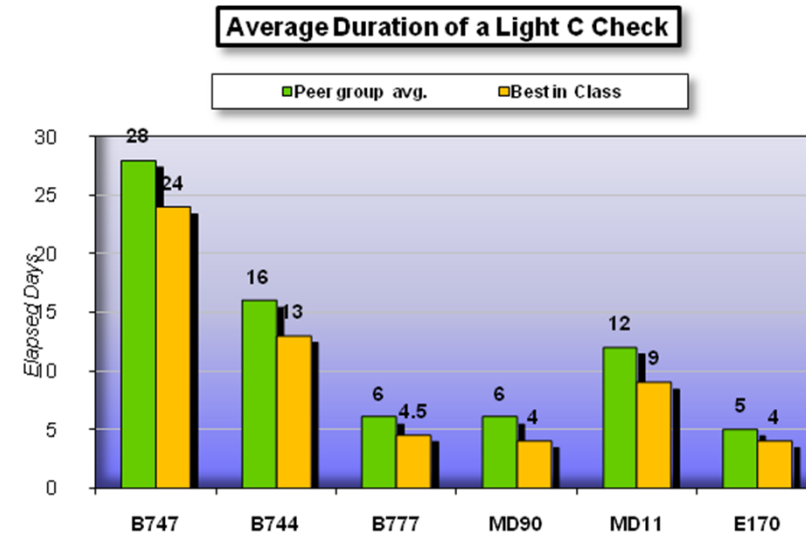
Improve productive hours
 Basings/Reserves

Ground handling costs (5% of cost base)

Turn times/Resource optimisation
 Contract improvements

Distribution (8% of costs)

Direct distribution/lower cost
 channels
 GDS contracts



Item	Example Client	Industry Practice
Fixed Rate – Routine Labor	C8 - \$800,000	C8 - \$635,000
T&M Man Hour Rate	\$60 / manhour - Hangar \$80 / manhour - Engineer	\$50-50 /manhour – Technician \$70-80 /manhour - Engineer
Material Premium	New parts – CLP plus 13%, cap of \$3K plus \$150 admin fee Consumables extra	New parts – CLP plus 10%, cap of \$2K, No admin fee Consumables included up to \$100 per task
Subcontracted Services	Invoice plus 15% plus admin fee of \$150	Invoice plus 8%, no admin fee
Turn-around-Time (TAT)	60Days	42 Days
TAT Penalty	None	\$4000-\$5000 per day
Warranties	12 months or 4,300 flights hours, whichever 1 st .	12 months or 3,000 flights hours, whichever 1 st .
Overall Value	Mediocre	

Review of markets growth, market share, competitors, fares provides insights into routes with opportunities and weaknesses

Airlines position in markets

- Year on year marketshare growth
- Marketshare growth relative to market growth
- Shrinking share in growing markets
- Marketshare of high yield markets
- Year on year fare changes
- Gain or protect marketshare at the expense of reducing fares/yield

City Pair	Total O&D Pax		SLA O&D Pax		SLA market share		Market growth			Average fares in US\$			
	2009	2010	2009	2010	2009	2010	Total O&D market	SLA	SLA share growth (in pct points)	Total market	SLA	Total market	SLA
BKK - LHR	698,113	681,219	1,974	4,253	0.3%	0.6%	-2.4%	115.5%	0.3%	455	363	461	341
DXB - SIN	239,709	207,957	138	698	0.1%	0.3%	-13.2%	405.8%	0.3%	644	403	699	312
RUH - TRV	111,638	105,054	11,557	11,093	10.4%	10.6%	-5.9%	-4.0%	0.2%	188	209	178	205
BKK - MCT	114,139	100,873	4	10	0.0%	0.0%	-11.6%	150.0%	0.0%	307	823	305	353
BKK - KWI	100,953	100,095	937	1,197	0.9%	1.2%	-0.8%	27.7%	0.3%	294	368	263	305
KUL - KWI	44,417	43,192	1,506	5,942	3.4%	13.8%	-2.8%	294.6%	10.4%	373	295	344	257
DMM - KUL	28,092	27,645	1,256	4,984	4.5%	18.0%	-1.6%	296.8%	13.6%	426	384	342	315
RUH - SIN	24,516	24,104	69	77	0.3%	0.3%	-1.7%	11.6%	0.0%	782	528	639	690
LHR - MLE	75,137	58,301	49,300	42,521	65.6%	72.9%	-22.4%	-13.8%	7.3%	528	468	465	385
Total	1,436,714	1,348,440	66,741	70,775	4.6%	5.2%	-6.1%	6.0%	0.6%	449	413	446	337

Capacity growth, competitor activities markets with share gap

Competitors gaining share at own hub

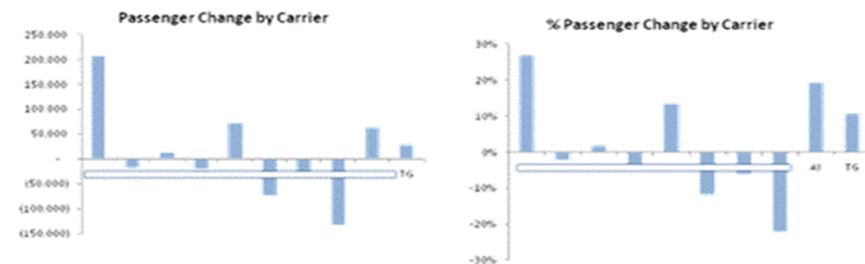
What are the competitive opportunities and threats from other airline

Market forecasting, focus on growth markets, yield and circuitry

Development of network and route scenarios



Example Growth of Competitors at Hub



93

Network design, route development and fleet alignment is **InterVISTAS** key to improve airline profitability

- ❖ Test different scenarios and business models and evaluate respective differences in variable contribution towards selection of the best model.
- ❖ Align routes and frequencies markets with growth, and yield advantages
- ❖ The route structure that maximises marketshare, and variable contribution improving competitiveness is selected
- ❖ Identify key changes to Long Haul, Medium Haul, Regional and Domestic routes
- ❖ Improve 6th freedom traffic and revenues
- ❖ Identify key changes for better use of code shares, alliances and joint ventures
- ❖ Changes in the fleet plan is driven by the optimal route structure – iterative process

Example: Route Deployment and Service Growth Plan

Total Aircraft		4	6	7	8	10
Route	City Pair	2012	2013	2014	2015	2016
BLR-GBG	Bangalore-Gulbarga	7	10	10	14	14
BLR-MAA	Ban					14
BLR-SMG	Ban					14
CJB-COK	Coi					14
GBG-VTZ	Gul					2
SMG-CJB	Shir					4
SMG-COK	Shir					5
GBG-HYD	Gul					10
GBG-MAA	Gul					10
HYD-MAA	Hyd					14
HYD-SMG	Hyd					10
MAA-SMG	Che					10
CJB-MAA	Coimbatore-Chennai	-	7	14	14	14
CJB-BLR	Coimbatore-Bangalore	7	7	7	14	14

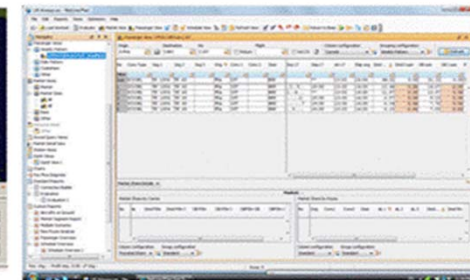
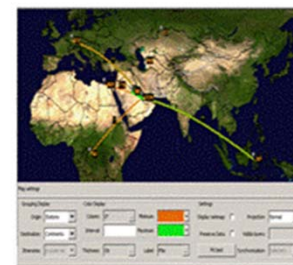
example for illustration

Source: InterVISTAS Consulting Analysis,

26



Example Use of Optimisation Tolls in Evaluating Business Models and Route Strategy



96

Short term financial improvement: Route Profitability

Focus on current network and improvements that can be feasibly implemented subject to airport and other operational constraints of the airline.

Financial performance of the network can be evaluated and routes can be classified according to the yield and Revenue per Available Seat Kilometre (RASK) achieved on routes.

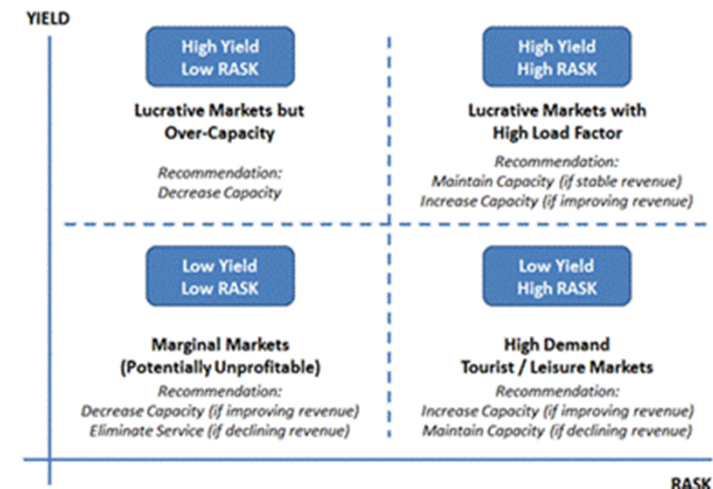
Focus will be on improving overall RASK, increase in business class routes and reduce volatility of passenger throughputs.

Quick-hit improvements to the schedule are identified. This can include changes to departure times or introduction of new flights

Operational constraints, such as overnight maintenance downtime requirements, crewing restrictions, slot and bilateral restrictions, etc.



Focus on changes with immediate improvements



80

Network design uses candidate aircraft type and use of accurate aircraft data is essential

aircraft purchase, lease and operational costs

Use of accurate operational and ownership costs

Aircraft selection list prices

Optimised scenario actual price

Actual MRO, Fuel, Crew costs

Use if actual block hours

Aircraft replacement – fuel, maintenance costs

Many airlines delay fleet replacement decisions with impact on financial performance

Lack of financial resources may force airlines to use vintage aircraft, or aircraft with high operational costs

Leverage geographic advantage for NB use reduce commercial risk

Right NB./WB ratio to for hub operations

Fleet commonality for reduced costs

Buy versus lease calculations

Actual lease and purchase prices and bank rates

Block Hours by Aircraft Type

	FY2012	FY2013	FY2014	FY2015	FY2016
320	22,677	35,391	35,740	36,286	38,878
332	29,261	38,809	53,221	62,553	68,125
343	29,629	24,734	14,389	7,143	2,590
	81,567	98,934	103,350	105,983	109,593

Average Utilization

	FY2012	FY2013	FY2014	FY2015	FY2016
320	10.8	11.4	10.9	11.0	11.8
332	14.3	13.7	14.3	13.7	14.3
343	13.5	12.9	12.1	13.6	14.2
	12.9	12.6	12.6	12.7	13.3

ATK by Aircraft Type

	FY2012	FY2013	FY2014	FY2015	FY2016
320	236,455,883	395,899,079	399,489,366	405,245,130	434,944,089
332	807,967,280	1,091,350,985	1,552,586,802	1,866,583,715	2,051,262,199
343	1,022,549,024	881,844,737	527,312,858	265,463,424	96,647,409
	2,066,972,187	2,369,094,801	2,479,389,026	2,537,292,269	2,582,853,697

		A 320				
Operating Cost Category	Measurement	FY2012	FY2013	FY2014	FY2015	FY2016
FUEL & OIL	Per Block Hour	1,999	2,039	2,080	2,122	2,164
LANDING	Per Departures	439	448	457	466	475
HANDLING	Per Departures	900	918	936	955	974
OVERFLYING	Per Departures	303	309	316	322	328
AIRCRAFT MAINT	Per Block Hour	753	791	830	872	915
INFLIGHT CATERING	Per Pax	8.0	8.1	8.3	8.5	8.6
AIRCRAFT RELATED	% of Block Hours, Cost per Month	3,022,321	4,064,446	4,288,890	4,458,607	4,489,891
CREW LAYOVER	Per Flight	1,043	1,063	1,085	1,106	1,129
AREA/OTHER	% of ATK	6,879	7,885	8,252	8,444	8,596
CORPORATE OVERHEADS	% of ATK	2,414	2,767	2,896	2,964	3,017

		A 330				
		FY2012	FY2013	FY2014	FY2015	FY2016
FUEL & OIL	Per Block Hour	4,371	4,459	4,548	4,639	4,732
LANDING	Per Departures	1,229	1,253	1,278	1,304	1,330
HANDLING	Per Departures	2,778	2,833	2,890	2,948	3,006
OVERFLYING	Per Departures	1,609	1,642	1,674	1,708	1,742
AIRCRAFT MAINT	Per Block Hour	1,401	1,298	1,193	1,205	1,265
INFLIGHT CATERING	Per Pax	10.7	10.9	11.1	11.3	11.6
AIRCRAFT RELATED	% of Block Hours, Cost per Month	4,665,661	6,577,686	9,032,459	11,269,780	12,216,526
CREW LAYOVER	Per Flight	3,168	3,232	3,296	3,362	3,429
AREA/OTHER	% of ATK	6,879	7,885	8,252	8,444	8,596
CORPORATE OVERHEADS	% of ATK	2,414	2,767	2,896	2,964	3,017

		A 340				
		FY2012	FY2013	FY2014	FY2015	FY2016
FUEL & OIL	Per Block Hour	5,313	5,419	5,528	5,638	5,751
LANDING	Per Departures	1,657	1,690	1,724	1,758	1,793
HANDLING	Per Departures	3,523	3,593	3,665	3,738	3,813
OVERFLYING	Per Departures	2,624	2,676	2,730	2,784	2,840
AIRCRAFT MAINT	Per Block Hour	1,401	1,298	1,193	1,205	1,265
INFLIGHT CATERING	Per Pax	13.6	13.8	14.1	14.4	14.7
AIRCRAFT RELATED	% of Block Hours, Cost per Month	5,013,844	4,455,852	2,863,950	1,352,374	939,733
CREW LAYOVER	Per Flight	3,593	3,664	3,738	3,812	3,889
AREA/OTHER	% of ATK	6,879	7,885	8,252	8,444	8,596
CORPORATE OVERHEADS	% of ATK	2,414	2,767	2,896	2,964	3,017

Buy versus Lease Considerations

Once the aircraft type is determined fulfilment method requires further analysis. Key parameters to consider include

Buy prices, this should be the best purchasing rate obtained from the sellers. For example an aircraft listed as 200 million could be reduced to 80 million depending on supply and demand for different aircraft

Dry Lease rate – this should include best dry lease rate that can be obtained from the industry. Market demand for particular aircraft type and financial strength of the leasing company becomes important in determination

Operational costs – these include additional operational costs of a dry leased aircraft such as cockpit and cabin crew.

Borrowing rate – if the airline is borrowing to purchase aircraft this must be the best rate that is obtained from the bank of lending institutions

Comparative analysis enables airline's to determine the most beneficial fulfilment option. An example is provided below

Best prices can be obtained thru running aircraft acquisition process.

Example Buy Versus Lease Comparison

Option 1) Buy 2 Freighters @ \$160M Total		Beginning of Year	End of Year		
			Year 1	Year 2	Year 20
Principal: \$160 million	Principal Remaining	\$ 160,000,000	\$ 152,000,000	\$144,000,000	\$ -
Interest: 5%	Interest Paid		-\$ 8,000,000	-\$ 7,600,000	-\$ 400,000
Principal payback: Straight Line, 20 years	Principal Paid		-\$ 8,000,000	-\$ 8,000,000	-\$ 8,000,000
Maintenance / Crew: Extra	Insurance Costs		-\$ 266,667	-\$ 266,667	-\$ 266,667
Insurance: Extra	Mace Costs		-\$ 6,083,515	-\$ 6,083,515	-\$ 6,083,515
	Crew Costs		-\$ 5,069,596	-\$ 5,069,596	-\$ 5,069,596
	Cash Outflow / Residual Value		-\$ 27,419,777	-\$ 27,019,777	-\$ 19,819,777
	NPV of Cash Outflow (Day 1, Year 1)	-\$357,217,586			
Option 2) Dry Lease @ \$900,000/mo per Freighter		Beginning of Year	End of Year		
			Year 1	Year 2	Year 20
Monthly Lease Payment: \$1.8M	Lease Payment		-\$ 21,600,000	-\$ 21,600,000	-\$ 21,600,000
Maintenance / Crew: Extra	Insurance		\$ -	\$ -	\$ -
Insurance: Included	Mtce Costs		-\$ 6,083,515	-\$ 6,083,515	-\$ 6,083,515
	Crew Costs		-\$ 5,069,596	-\$ 5,069,596	-\$ 5,069,596
	Cash Outflow	\$ -	-\$ 32,753,110	-\$ 32,753,110	-\$ 32,753,110
	NPV of Cash Outflow (Day 1, Year 1)	-\$473,090,852			
Option 3) Wet Lease @ \$900,000/mo per Freighter		Beginning of Year	End of Year		
			Year 1	Year 2	Year 20
Monthly Lease Payment: \$1.8M	Lease Payment		-\$ 21,600,000	-\$ 21,600,000	-\$ 21,600,000
Maintenance / Crew: Included	Insurance		\$ -	\$ -	\$ -
Insurance: Included	Mtce Costs		\$ -	\$ -	\$ -
	Crew Costs		\$ -	\$ -	\$ -
	Cash Outflow	\$ -	-\$ 21,600,000	-\$ 21,600,000	-\$ 21,600,000
	NPV of Cash Outflow (Day 1, Year 1)	-\$311,993,648			

Used aircraft lease rates

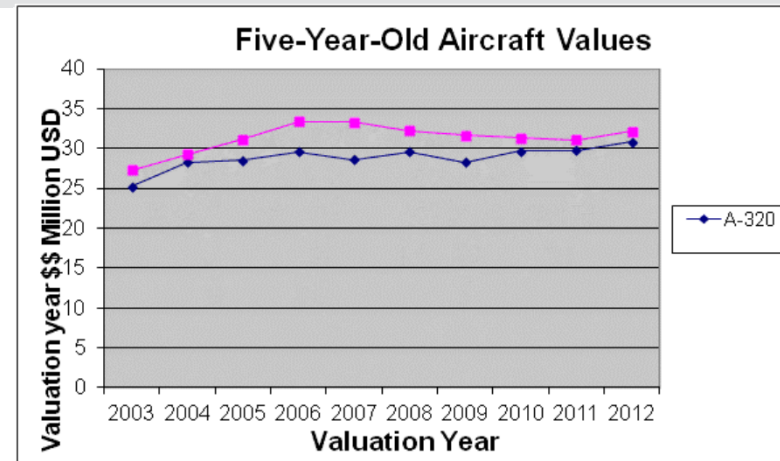
Lease rates are
influenced by many
factors

Interest rates/ economic
environment

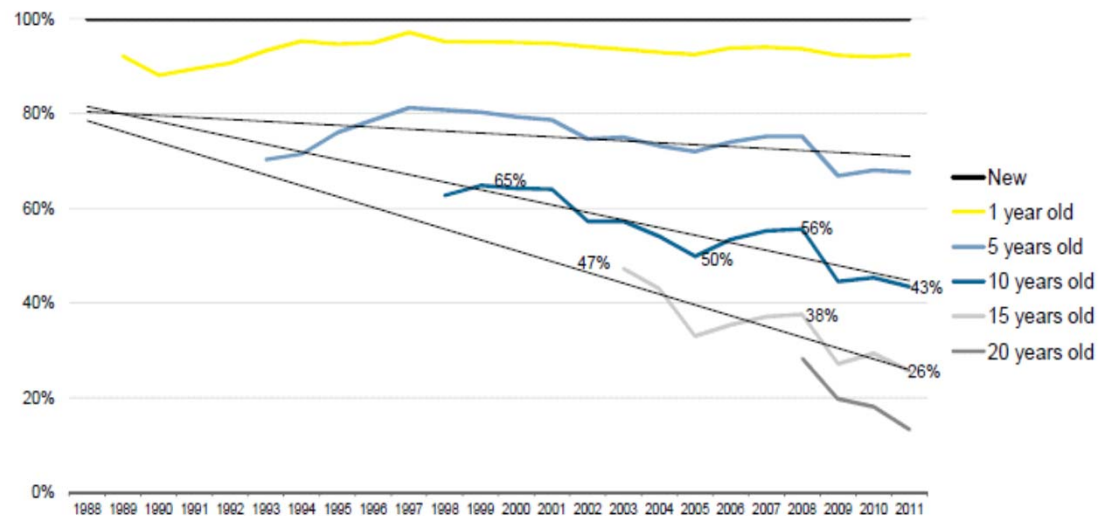
Lease Terms

Lessor supply

Lessee quality



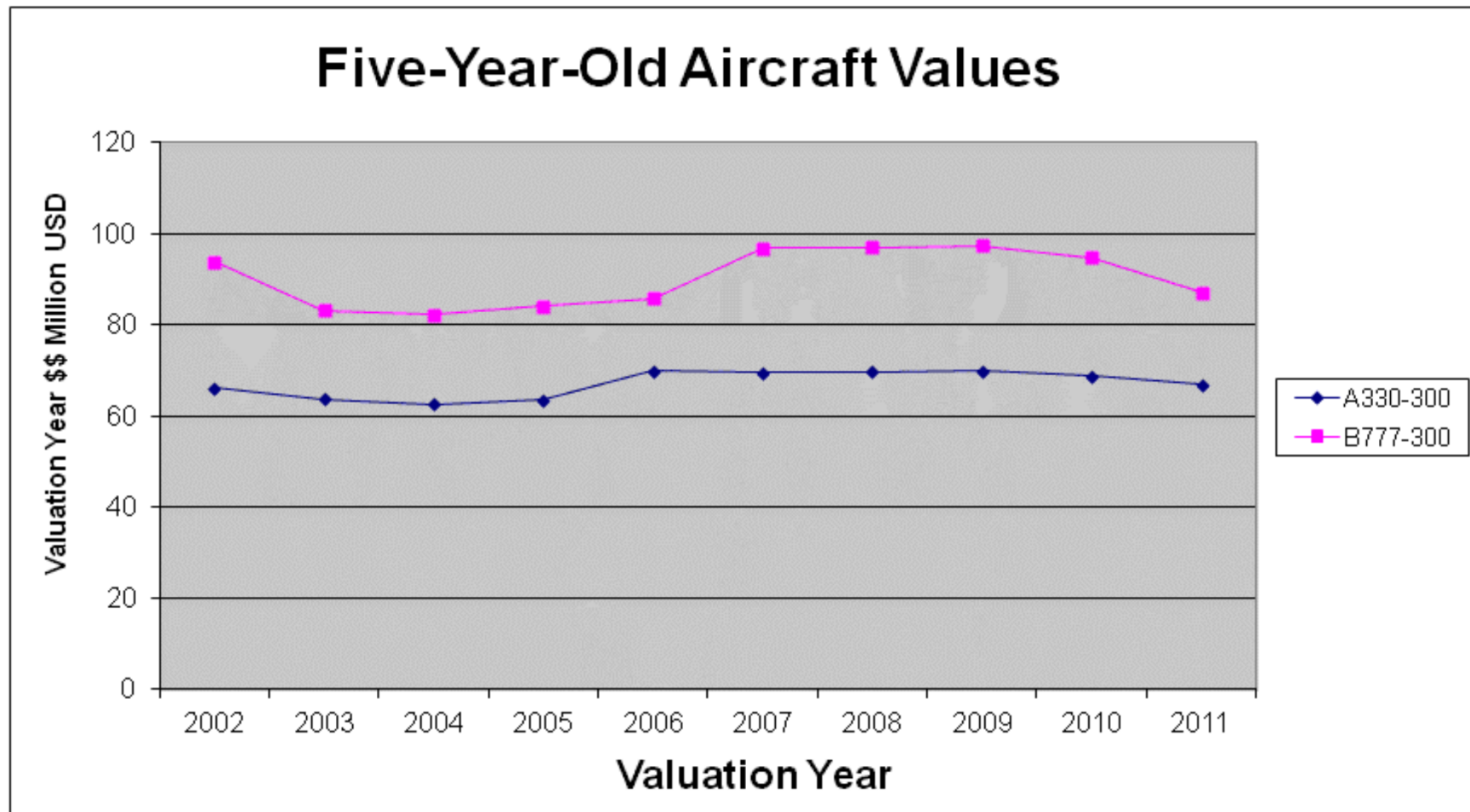
Used A320 values as % of new A320 value



Used A320 Rates



Typical Narrow body Depreciation Rates



Vintage Wide Body Aircraft Rates



Alignment of commercial processes with business model *InterVISTAS* changes for improved revenue

Alignment of commercial processes with the new business model and route strategy.

Key changes in the product strategy

Critical changes in pricing strategy, fare matrix, pricing review for RASK increase

Pro-active pricing processes

Reactive pricing processes

Improvements in revenue management

Diagnostic assessment

LF forecasting

Critical flight management

Revenue planning and revenue delivery

Pricing and revenue management performance measures

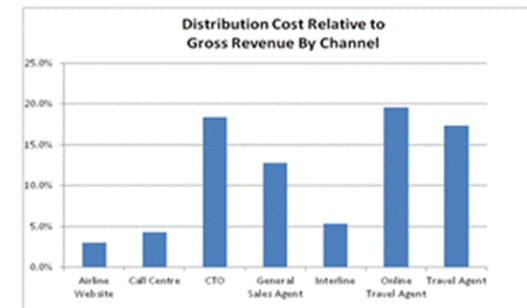
Improvements in ancillary revenues

Distribution benchmarking, segments, unit revenue, unit cost per channel, as is costs

Changes in Distribution mix



Changes in distribution mix



Alignment of commercial activities – changes in distribution mix

Financial Results (QAR)					
Total Cost of Distribution	2010	2012	2013	2014	2015
Airline Website	266,811	578,593	885,224	1,191,082	1,496,329
Agency Portal	-	-	-	-	-
Call Centre	371,703	524,784	641,956	721,501	752,248
CTO	232,403	523,044	899,954	1,011,709	1,000,403
General Sales Agent	-	-	-	-	-
Interline	-	-	-	-	-
Online Travel Agent	-	-	-	-	-
Travel Agent	-	-	-	-	-
Total	870,917	1,626,421	2,427,134	2,924,292	3,248,980
Unit Distribution Cost					
Airline Website	5	5	5	5	5
Agency Portal	-	-	-	-	-
Call Centre	5	5	5	5	5
CTO	9	9	9	9	9
General Sales Agent	1	1	1	1	1
Interline	1	1	1	1	1
Online Travel Agent	2	2	2	2	2
Travel Agent	5	5	5	5	5
Total	9	9	9	9	9
Relative Distribution Cost					
Airline Website	30.6%	9.9%	9.4%	9.1%	9.0%
Agency Portal	-	-	-	-	-
Call Centre	30.0%	9.0%	8.3%	7.7%	7.4%
CTO	-	-	-	-	-
General Sales Agent	-	-	-	-	-
Interline	-	-	-	-	-
Online Travel Agent	-	-	-	-	-
Travel Agent	-	-	-	-	-
Total	30.6%	9.9%	9.4%	9.1%	9.0%

77

Alignment and improvement of airline operational activities

Opportunities to align operations with the business model changes and reduce costs

Target CASK to align with target revenues

Review and improve direct and indirect cost

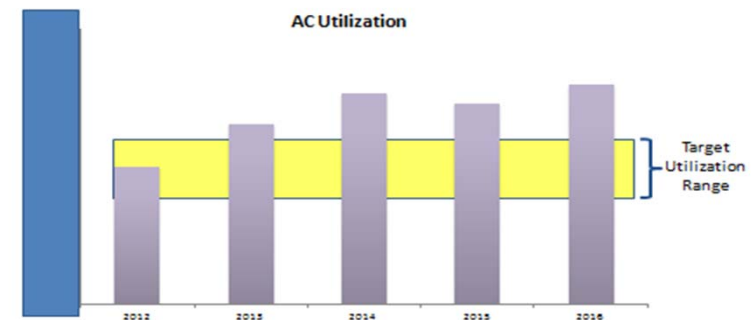
Determine initiatives for productivity improvement and unit cost reduction to meet target CASK

Organisational improvement

Productivity improvements

- Fleet (Utilisation),
- maintenance,
- crew,
- ground handling costs,
- overheads and other areas

Operating Assumptions



30

Example: Business Model

Operating Cost Category	Measurement	Average Monthly Amounts for Each Year				
		Year1	Year2	Year3	Year4	Year5
Commissions - booking on A	As a % of Net Revenue					
Commissions - booking on B	As a % of Net Revenue					
Credit card costs	Percent of Revenue					
Booking costs	Per passenger	\$				
Call centre costs	As a % of Net Revenue					
Call centre costs	As a % of Net Revenue					
Fuel Price per lb	Price per lb consumed \$/lb					
Fuel consumed (000s)	Fuel flow, kg per Block Hour					
Fuel Cost	Calculated: Fuel Cost/Consumed					
Maintenance	Per Block Hour	\$				
Aircraft handling	Per Departure	\$				
Overflight	Per Block Hour	\$				
Crew - Transportation & Accommodation	Per month, per aircraft					
Passenger liability insurance	Per passenger	\$				
Passenger liability insurance	% of Passenger Revenue					
Payroll - crew personnel (cockpit and cabin)	% of Passenger Revenue					
Crew Training	Per Block Hour					
Operating lease charges - aircraft	Per aircraft, per month					
Aircraft insurance / registration	Per Block Hour					
Overhead - staff	Fixed					
IT and Communications	Per month	\$				
Station Costs	Per passenger	\$				
Advertising & Marketing	Percent of Passenger Revenue					
Overhead - non-staff	Percent of Other Costs					

Operations cost reduction and productivity improvement: Crew and Operations Control

Review crew assignment process and costs,

Review flight operations identify improvement opportunities

If needed, identify opportunities in improvements in crew productivity

Identify changes in the crew manpower plan

Operations control centre diagnostic

Identify inefficiencies leading to suboptimal decision making

Identify improvements in processes and improvements in co-location of IOC functions

Provide recommendations that relate to organisation, systems and performance management that relate to

Flight Operations

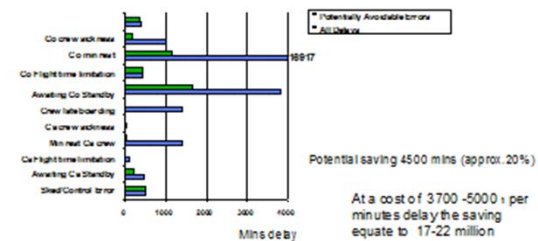
Crew optimisation

Integrated Operations Control

Examples of Crew Optimisation and Benchmarking

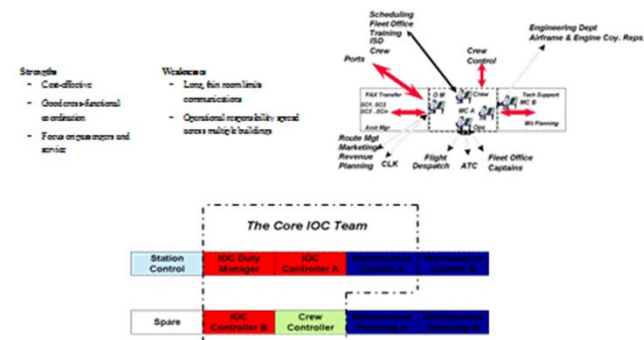
Estimated utilization, expressed in average number of Block Hours per year
Client compared to Industry Standard (Ind Std)

Pilot categories	Client	Util. Improvement	Ind Std	Client Ind Std
All	425	-	500	75 %
excl. pres. pilots	427	0.5 %	500	75 %
excl. pres. & mgt. pilots	451	3.7 %	500	75 %
excl. new hire trainees	524	22 %	500	92 %
excl. pres. & mgt. pilots and new hires	557	28 %	500	94 %



OCC Leading Asian Carrier

- OCC has good functionality and an operationally sound design. The physical structure of the building presents many limitations, however. This emphasizes the importance of ensuring that an appropriately sized facility is secured, with the proper dimension to facilitate a proper layout from conceptualisation.



Operational cost reduction and productivity improvement

Alignment of the operational activities support business model changes – MRO costs and productivity Improvement

Benchmark MRO costs and productivity, operation, turnaround times, material costs and productivity

Diagnostic of key MRO areas,

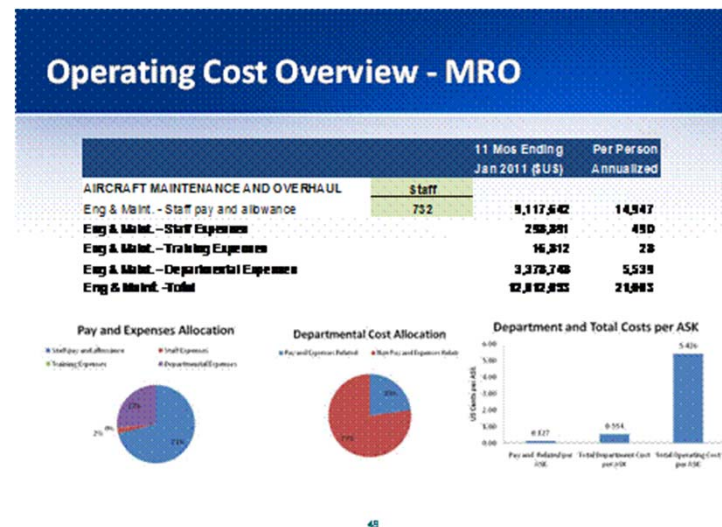
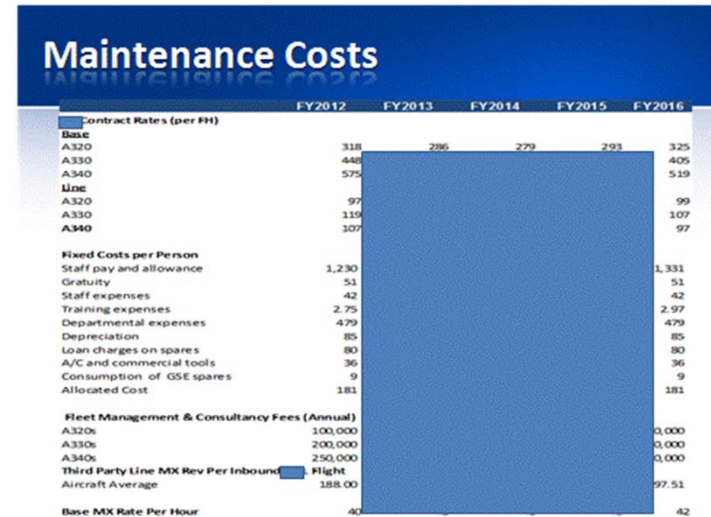
- hangar,
- line maintenance
- Supply chain
- Engineering and planning
- Other processes

Benchmarking of engine, OM, component contracts

Restructure processes for productivity improvements at shops

Opportunities for the growth of third party revenues

Business Plan



Air cargo market and competitor analysis and market size forecasting InterVISTAS

- ❖ Compare market share and capacity share with competitors
- ❖ Are there opportunities to improve route performance
- ❖ Market forecasting to focus on best return markets

Air cargo trade lane analysis:

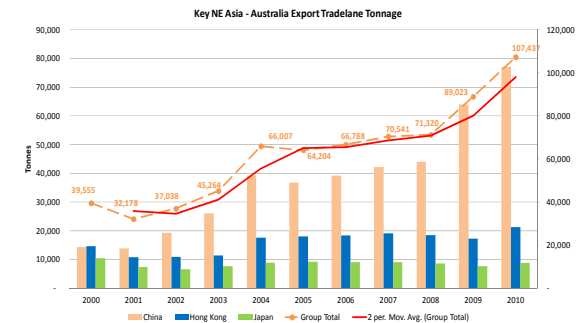
Conduct workshops with freight forwarders and customers

Feedback for improving market share with customers

- ❖ In executing market analysis and forecasting work InterVISTAS uses its proprietary data sources from industry research and regular contact with related associations
- ❖ Cargo markets are particularly challenging due current economic conditions – with many freighters grounded

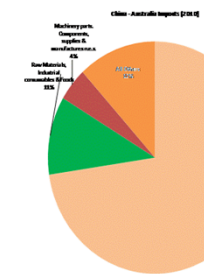
SAMPLE DELIVERABLES

**Example
Tradelane
Analysis**
Per country and
import/export direction

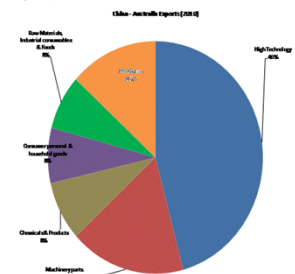


**Example
Commodity
Analysis**
Type of cargo

2010 Imports: largely
perishables, food products



2010 Exports: hi-tech, equipment, component
parts, chemicals



**Example
Market
Forecasting**
Route level

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	CAGR
QKAW	7,508	7,508	7,508	7,508	7,508	7,508	7,508	7,508	7,508	7,508	7,508	7,508	7,508	7,508	7,508	7,508	7,508	7,508	7,508	3.0%
QKAW	2,884	2,884	2,884	2,884	2,884	2,884	2,884	2,884	2,884	2,884	2,884	2,884	2,884	2,884	2,884	2,884	2,884	2,884	2,884	4.0%
QKAW	9,496	9,496	9,496	9,496	9,496	9,496	9,496	9,496	9,496	9,496	9,496	9,496	9,496	9,496	9,496	9,496	9,496	9,496	9,496	2.0%
QKAW	11,335	11,335	11,335	11,335	11,335	11,335	11,335	11,335	11,335	11,335	11,335	11,335	11,335	11,335	11,335	11,335	11,335	11,335	11,335	4.1%
QKAW	4,213	4,213	4,213	4,213	4,213	4,213	4,213	4,213	4,213	4,213	4,213	4,213	4,213	4,213	4,213	4,213	4,213	4,213	4,213	3.1%
QKAW	10,207	10,207	10,207	10,207	10,207	10,207	10,207	10,207	10,207	10,207	10,207	10,207	10,207	10,207	10,207	10,207	10,207	10,207	10,207	3.1%
QKAW	22,032	22,032	22,032	22,032	22,032	22,032	22,032	22,032	22,032	22,032	22,032	22,032	22,032	22,032	22,032	22,032	22,032	22,032	22,032	3.0%
QKAW	11,030	11,030	11,030	11,030	11,030	11,030	11,030	11,030	11,030	11,030	11,030	11,030	11,030	11,030	11,030	11,030	11,030	11,030	11,030	4.7%
QKAW	11,413	11,413	11,413	11,413	11,413	11,413	11,413	11,413	11,413	11,413	11,413	11,413	11,413	11,413	11,413	11,413	11,413	11,413	11,413	4.0%
QKAW	10,899	10,899	10,899	10,899	10,899	10,899	10,899	10,899	10,899	10,899	10,899	10,899	10,899	10,899	10,899	10,899	10,899	10,899	10,899	5.7%
QKAW	6,946	6,946	6,946	6,946	6,946	6,946	6,946	6,946	6,946	6,946	6,946	6,946	6,946	6,946	6,946	6,946	6,946	6,946	6,946	3.1%
QKAW	5,830	5,830	5,830	5,830	5,830	5,830	5,830	5,830	5,830	5,830	5,830	5,830	5,830	5,830	5,830	5,830	5,830	5,830	5,830	3.0%
QKAW	9,075	9,075	9,075	9,075	9,075	9,075	9,075	9,075	9,075	9,075	9,075	9,075	9,075	9,075	9,075	9,075	9,075	9,075	9,075	3.0%
QKAW	5,139	5,139	5,139	5,139	5,139	5,139	5,139	5,139	5,139	5,139	5,139	5,139	5,139	5,139	5,139	5,139	5,139	5,139	5,139	2.7%
QKAW	24,950	24,950	24,950	24,950	24,950	24,950	24,950	24,950	24,950	24,950	24,950	24,950	24,950	24,950	24,950	24,950	24,950	24,950	24,950	3.0%
QKAW	14,271	14,271	14,271	14,271	14,271	14,271	14,271	14,271	14,271	14,271	14,271	14,271	14,271	14,271	14,271	14,271	14,271	14,271	14,271	2.7%
QKAW	11,341	11,341	11,341	11,341	11,341	11,341	11,341	11,341	11,341	11,341	11,341	11,341	11,341	11,341	11,341	11,341	11,341	11,341	11,341	3.0%
QKAW	6,462	6,462	6,462	6,462	6,462	6,462	6,462	6,462	6,462	6,462	6,462	6,462	6,462	6,462	6,462	6,462	6,462	6,462	6,462	5.7%
QKAW	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	433	5.0%
QKAW	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	4.7%
QKAW	2,566	2,566	2,566	2,566	2,566	2,566	2,566	2,566	2,566	2,566	2,566	2,566	2,566	2,566	2,566	2,566	2,566	2,566	2,566	5.0%
QKAW	3,900	3,900	3,900	3,900	3,900	3,900	3,900	3,900	3,900	3,900	3,900	3,900	3,900	3,900	3,900	3,900	3,900	3,900	3,900	4.7%
QKAW	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208	5.0%
QKAW	1,960	1,960	1,960	1,960	1,960	1,960	1,960	1,960	1,960	1,960	1,960	1,960	1,960	1,960	1,960	1,960	1,960	1,960	1,960	4.7%
QKAW	599,197	599,197	599,197	599,197	599,197	599,197	599,197	599,197	599,197	599,197	599,197	599,197	599,197	599,197	599,197	599,197	599,197	599,197	599,197	5.0%

Realizing the vision together

Forecast market share, and expected gain for profitable operation of freighters

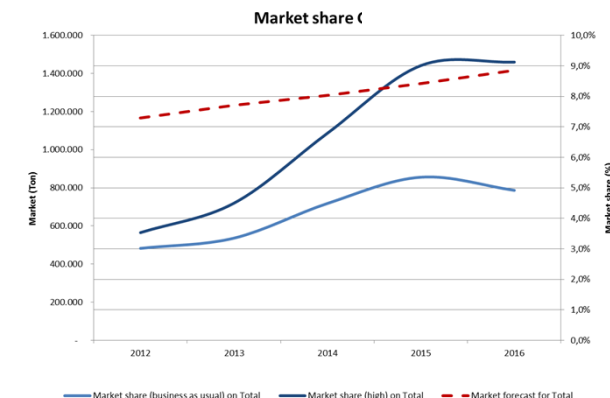
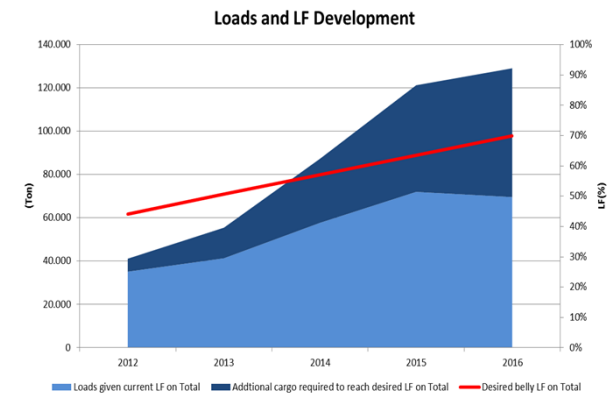
Determine expected load factor for each route, regions and system wide, considering future market growth (from the previous market forecasting task).

Analysis include following elements:

- Future market sizes
- Market share growth based on current load factors
- Cargo capacity growth, driven by the growth of the passenger fleet
- Additional cargo capacity driven by freighters that may be committed to this route (capacity and frequency)
- Total capacity including competitors operating this route

The routes will be prioritized according to best market share forecast and they will be used in developing scenarios for network design.

InterVISTAS provides proprietary tools for route level cargo marketshare forecasting

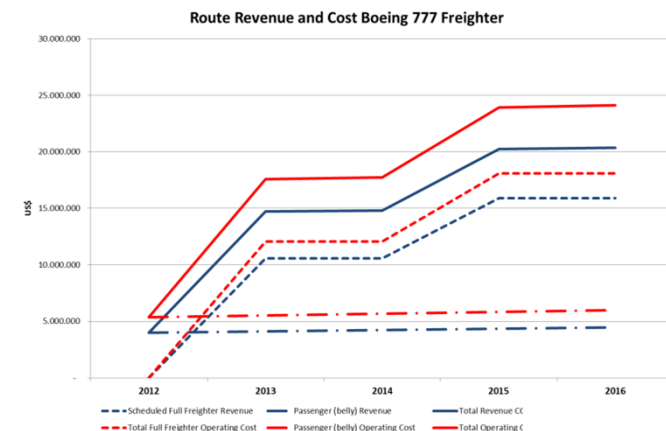


Analysis of air freight route and freighter scenarios for improving profitable operation of freighters and belly

- ❖ Scope to design/improve the route structure and freighter type/number / utilization maximizing route profitability. Analysis also drives the freighter performance improvement.
- ❖ Criteria will include weighted average, where weights include expertise and experience of InterVISTAS team.
- ❖ Route scenarios will be subsequently tested for Freighter types that will be analyzed in the next task
- ❖ Significant growth in WB aircraft increasing availability of belly capacity
- ❖ Increasing fuel price causing intermodal shift towards maritime
- ❖ Warehouse development costs are significant .

Example: Route Analysis and Market Share Capture Models

Market and Capacity Development		2012	2013	2014	2015	2016
De	CGK	31,337	34,453	36,933	39,610	42,434
	GA C	4,260	4,380	6,588	8,760	8,784
	Competition Capacity	0	0	0	0	0
Current Loa		11%				
Desired Loa		10%				
Including Narrow Body Belly (yes/no): no	Desired belly LF on CGK-pvg	37%	43%	49%	54%	60%
	GA Capac	4,260	4,380	6,588	8,760	8,784
	Loads given current LF on CGK-pvg	1,338	1,376	2,070	2,752	2,760
	Additional cargo re	244	501	1,130	2,003	2,510
Additional cargo required via 2 weekly F		-	-	-	4,732	4,732
Useful for ASA w..... wide and narrow bodies	GA Capacity on CGK-pvg	4,260	8,784			
	Competition Capacity on CGK-pvg	0	0			
	GA Fr	0	6,760			
Market share (business as usual) on CGK-pvg		4.3%	4.0%	5.6%	6.9%	6.5%
Market share (high) on CGK-pvg		5.0%	5.4%	8.7%	12.0%	12.4%
Market share when introducing 2 weekly Full Freighter		5.0%	5.4%	8.7%	24.0%	23.6%



Results of new strategy and improvement/turnaround actions reflected in the business plan

Revenue forecast

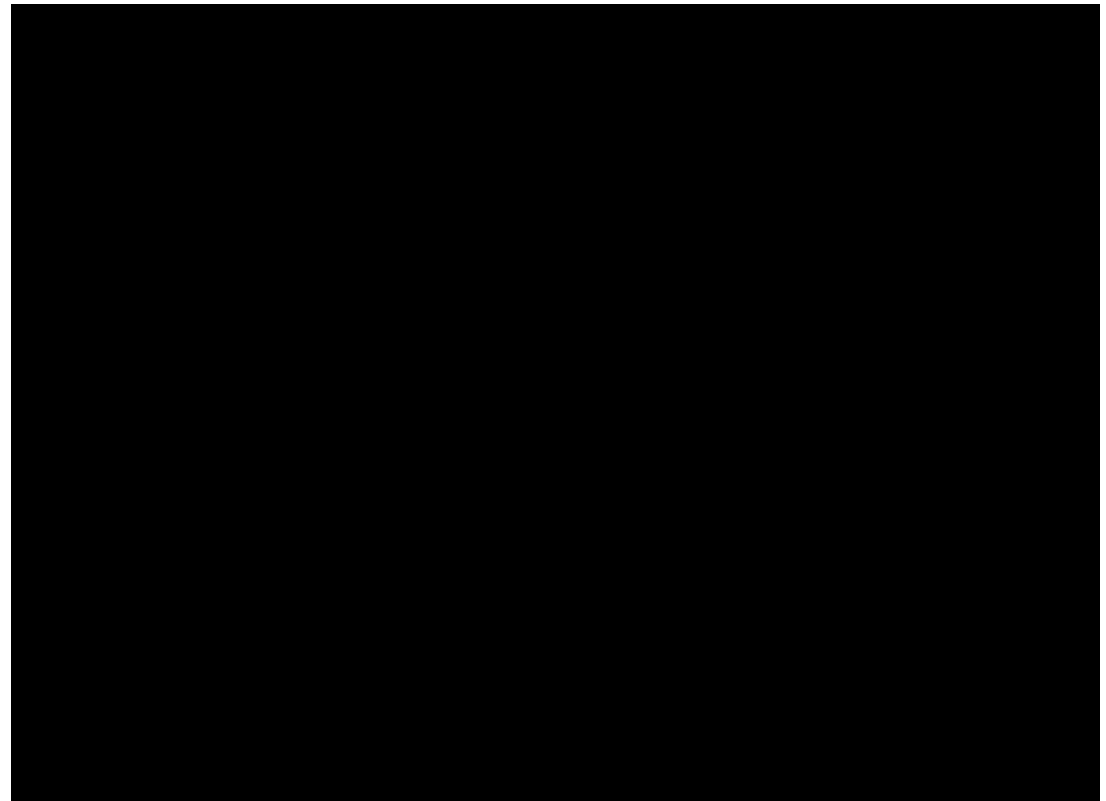
- Scheduled seat revenues: route revenue forecast, market share, fares, service/schedule quality
- Charter revenues
- Non seat airline revenues: ancillaries
- SBU revenues : third party growth

Cost Forecast

- Direct operating costs
- Aircraft ownership costs
- Overheads

Assumptions including improvements of business benefits

- Impact of product improvement on yields/fares
- Impact of productivity and cost reduction initiatives



Development of the Business Plan with Revenue, Cost and Profitability Forecasting Including Strategy and Improvement Impacts

❖ Route level business plan for different freighter types tested at different frequencies for route profitability for belly and freighter operations

❖ Opportunities in reduction of direct and indirect aircraft-related cost:

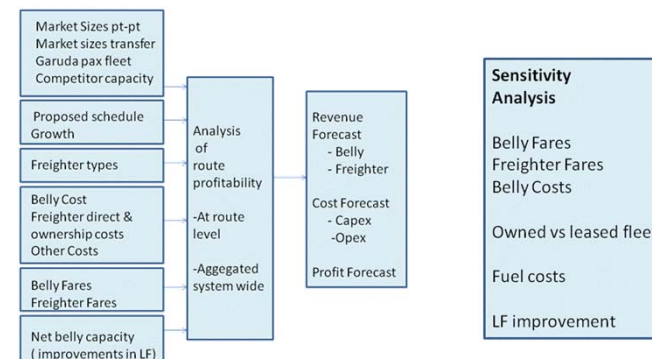
Direct costs will include fuel, maintenance, crew, ground handling, over flight , ownership etc

For belly cost per KG carried will be used. If airline is allocating other direct and indirect costs these will be used.

❖ Profitability forecast will be developed for belly and freighter operations

❖ Sensitivity analysis

Business plan method based on marketshare, fare , operating and capital costs for freighter and belly



Business plan is based on directional (inbound and outbound route level profitability

.) by A330 Freightier	2012	2013	2014	2015	2016
Total Operating Revenues					
Scheduled Full Freightier Revenue	-	10,869,673	10,869,673	16,304,509	16,304,509
Passenger (belly) Revenue	7,153,070	7,264,308	10,815,246	14,233,240	14,124,143
Total Revenue (Operating)	7,153,070	18,133,981	21,684,919	30,537,750	30,428,652
Direct Operating Cost (excluding Ownership)					
Fuel	-	6,512,381	6,512,381	9,768,571	9,768,571
Cockpit Crew	-	651,238	651,238	976,857	976,857
Maintenance	-	781,486	781,486	1,172,229	1,172,229
Depreciation	-	2,050,194	2,050,194	3,075,291	3,075,291
Insurance	-	85,425	85,425	128,137	128,137
ATC/LDG charges	-	673,367	673,367	1,010,050	1,010,050
Sales Commission	-	156,900	156,900	235,350	235,350
Total Direct Operating Cost	-	8,618,472	8,618,472	12,927,708	12,927,708
Total Indirect Operating Cost	-	2,292,518	2,292,518	3,438,778	3,438,778
Total Full Freightier Operating Cost	-	10,910,990	10,910,990	16,366,485	16,366,485
Passenger (belly) Operating Cost	7,653,167	7,942,968	12,082,153	16,245,108	16,469,692
Total Operating Cost (Operating)	7,653,167	18,853,958	22,993,143	32,611,593	32,836,178
Profit (Belly Space, US\$)	-500,097	-678,660	-1,266,906	-2,011,867	-2,345,550
Profit (Full Freightier, US\$)	-	-41,317	-41,317	-61,976	-61,976
Total Profit (US\$)	-500,097	-719,977	-1,308,224	-2,073,843	-2,407,526
Profit Margin (Belly Space, %)	-7.0%	-9.3%	-11.7%	-14.1%	-16.6%
Profit Margin (Freightier, %)	-	-0.4%	-0.4%	-0.4%	-0.4%
Total Profit Margin (%)	-7.0%	-4.0%	-6.0%	-6.8%	-7.9%

Minor variation in modelling assumptions can make significant difference on profitability/financial forecast

Due diligence questions

Market growth rates

Competitor capacity growth rates

Average fares

Fare improvement as a function
product improvement

Ancillary revenues

SBU third party marketshare/revenue
growth assumptions

Fuel costs: current and future

Maintenance costs –
accuracy/variations

Aircraft ownership costs – list, actual

Depreciation rates

Sensitivity analysis : major revenue
and cost assumptions

Key Statistics	Baseline		Shock Scenario	
	2011	2015	2011	2015
Passengers	262,968	2,891,151	253,274	2,768,001
Revenue	\$ 53,052,618	\$ 652,142,240	\$ 43,982,830	\$ 537,292,097
Operating Expenses	\$ 69,714,983	\$ 509,015,566	\$ 72,540,299	\$ 528,936,974
Profit (Loss)	\$ (16,662,366)	\$ 143,126,674	\$ (28,557,470)	\$ 8,355,123
Operating Margin	-34.5%	24.6%	-71.4%	1.7%

Key Statistics	Scenario 1		Scenario 2		Scenario 3		Scenario 4	
	2011	2015	2011	2015	2011	2015	2011	2015
Passengers	262,968	2,891,151	262,968	2,891,151	253,274	2,768,001	262,968	2,891,151
Revenue	\$ 45,978,935	\$ 565,189,941	\$ 53,052,618	\$ 652,142,240	\$ 50,749,419	\$ 619,952,419	\$ 53,052,618	\$ 652,142,240
Operating Expenses	\$ 69,264,058	\$ 504,714,962	\$ 72,137,108	\$ 527,628,489	\$ 69,537,333	\$ 507,031,861	\$ 70,701,516	\$ 516,218,616
Profit (Loss)	\$ (23,285,123)	\$ 60,474,979	\$ (19,084,491)	\$ 124,513,751	\$ (18,787,914)	\$ 112,920,559	\$ (17,648,898)	\$ 135,923,624
Operating Margin	-55.7%	12.0%	-39.6%	21.4%	-40.7%	20.4%	-36.6%	23.3%

Scenario 1 – Fares are discounted XX percent from MIDT market fares versus XX percent in the Baseline scenario

Scenario 2 – Fuel price of \$XX/kg consumed increases by XX percent

Scenario 3 – Market introduction stimulation rates are lowered by XX percent

Scenario 4 – Overhead costs increase from X percent to XX percent of all other costs

Shock Scenario – All of the above factors occur at once, showing a worst case scenario

InterVISTAS

AVIATION TRANSPORTATION TOURISM

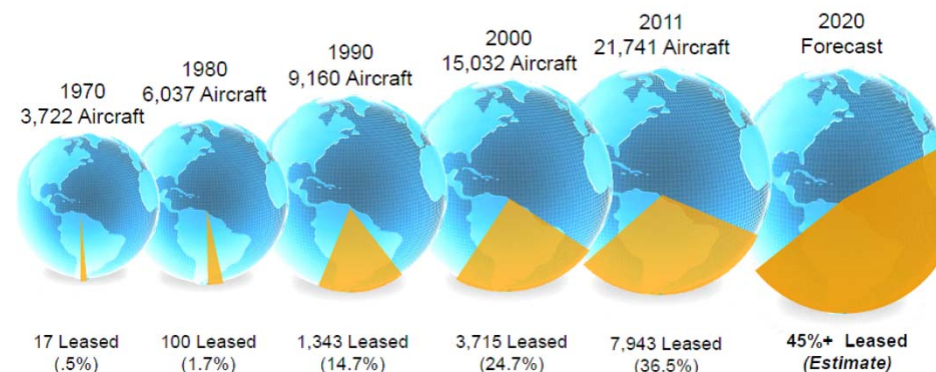
Sources of Finance



Cash

It is still the cheapest way to finance aircraft but only an option for profitable airlines (like Southwest) or state-owned airlines with well capitalised owners.

The problem with financing all of the fleet with cash is that during the downturn, when you need to release the cash, financing terms are much worse.



Operating Leasing

Operating lessors either order aircraft from manufacturers or buy them from airlines and lease them back (this is known as sale/leaseback).

The operating lessor leases the aircraft to the airline, which is also called the lessee. Leases can be as short as a couple of months to cope with seasonal demand like summer tourist peaks, ski seasons or the Hajj. Airlines can also lease crew and pilots with aircraft; these are known as wet leases.

However, most leases are for three to five years with airlines paying monthly lease rentals. Operating lease provides airlines flexibility. Typically they are expensive. Operating lessors expect to have to place an aircraft several times during its life. The aircraft often starts with a strong carrier and ends up in a developing country or as a cargo aircraft. The share of operating leases has been increasing significantly.

Sources of Finance

Bank Loans

Banks lend money to airlines with the loan guaranteed by the aircraft. The bank can repossess the aircraft if the airline stops paying its loan. Loans are usually 12 years long. Finance leases are similar to loans, except the bank then buy the aircraft from the airline (another sale/leaseback). The airline then makes monthly lease payments and at the end of the lease it owns the aircraft. Finance leasing is just like hire purchase. Banks typically lend 85% of the aircraft's value with airlines paying 15% in cash. This 15% is known as equity.

Export Credit Loans

Few banks, however, would be prepared to lend money to the airline as they do not make large profits and the country is viewed as risky. So, the Export-Import Bank of the United States ("Ex-I'm Bank") will guarantee the loan. If the borrowing airline fails to make payments, the Ex-I'm Bank will cover the banks losses.

Airbus aircraft are made in France, Germany and the UK, so each respective government covers the proportion made in their country. The French export credit agency is called Coracle, the German agency is called Hermes, and the UK has the Export Credits Guarantee Department or ECGD.

Export Development Canada handles Bombardier loans, and BNDES guarantees Embraer exports. Export credit loans cover 85% of the aircraft's value

Sources of Finance

Tax Leases

Governments always want their businesses to be as efficient as possible so their industries can compete with other countries. One way to improve efficiency is to have modern equipment, so governments encourage companies with tax breaks. Companies that buy equipment get to avoid paying tax on them (this is usually done through depreciation allowances). The problem is airlines rarely make enough profits to benefit from these allowances. So airlines pass these benefits off to companies or individuals that have large tax bills by selling the aircraft and leasing them back.

In France and Spain only, banks are eligible to buy aircraft. In Japan and the US, companies often take stakes. Most investors only take 15% of the aircraft, with a bank (or group of banks) lending the rest as a loan. This is why they are often called leverage leases. The main types of tax leases are: Japanese operating leases (JOLs) which most airlines can close; French Leverage Leases (FLLs), which are only allowed for French airlines; Spanish operating leases (SOLs) only for Spanish airlines; and US leverage leases.

Manufacturer Support

Most manufacturers do not like financing aircraft, but they accept that some times financing help is needed to get a sale. Typical support would include the manufacturer leasing the aircraft with finance or operating leases, or guaranteeing the aircraft's value at the end of a lease or loan (this is known as a residual value guarantee). The easiest way to provide a residual value guarantee is to agree a price that the manufacturer will pay for the aircraft at the end of the loan.

or leasing

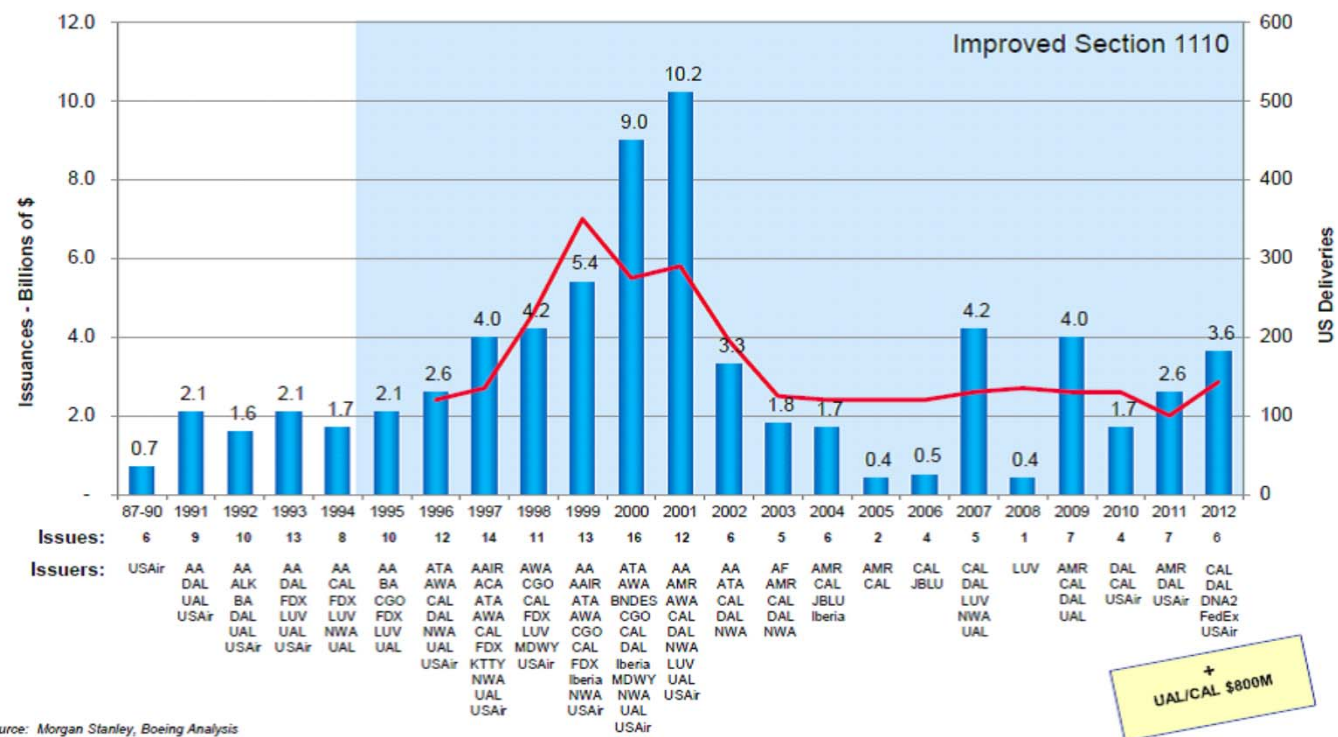
Sources of Finance

EETCs

EETCs – or enhanced equipment trust certificates – are bonds that airlines issue to pay for aircraft. The airline sets up a special purpose company or SPV (it's only purpose or business is to own the aircraft) that issues bonds to investors. The SPV then uses the cash from these bonds to buy aircraft through a sale/leaseback. The airline then makes lease payments to the SPV and the SPV passes these on to the investors as bond interest. Chart below provides overview of EETC deals

Islamic Finance

Sharia, or Islamic law, prevents lenders from charging interest. The main Islamic aircraft finance technique is Ijara or leasing



Financial analysis for determination of Sources and application of funds for aircraft financing

SOURCES AND APPLICATION OF FUNDS [BLEND]

FUNDING REQUIREMENTS

1. Capital Expenditure

Client Airline

Equity funding requirement for Refleeting (Generic AC Blend Scenario - bought AC only) including current year cabinmod (\$XX m)

Client SBU's

Information Technology

SBU Engineering

XXX

SBU Cargo

Airport Services XX

Airport Services - XX

Total Equity funding requirement by SBUs

Total CAPEX

2. Capitalised Cost of Engines Overhauls - current fleet only

3a. Maintenance Reserves (Net of Recoveries) - current fleet - reflected in AC OPS COST

3b. Maintenance Reserves (Net of Recoveries) - new fleet - reflected in AC OPS COST

4. Increase in Inventories (from original BP)

5. Increase in Trade Receivables

6. Increase in Trade Payables (from original BP)

7. Repayment of Interest Bearing Liabilities - Foreign Loans

8. Repayment of Interest Bearing Liabilities - Local Loans (FY2012/13 ff from original BP)

Total Funding Requirement

SOURCES OF FUNDS

1. CLIENT GROUP EQUITY INFUSION REQUIREMENT [BLEND]

2. Proceeds of IPO of subsidiary (potential of \$ XXm indicated)

3. Proceeds from Disposal of Property, Plant and Equipment (from original BP)

4. Proceeds from Interest Bearing Loans and Borrowings (from original BP)

5. Client Profit adjusted for non-cash items

Total Funding Available

NET INCREASE IN CASH

Cash Balance Brought Forward

CASH BALANCE CARRIED FORWARD

of Months of Operating cost for min cash level

Min. cash liquidity required

Min. cash level ok?

XX GROUP CUMULATIVE EQUITY INFUSION REQUIREMENT - BLEND Scenario

Dividend potential to Equity Investor (capped at XX % of Client Group profit p.A.)

Use of accurate assumptions in aircraft purchase and lease calculations

Purchase & Lease of new aircraft

EQUITY

Required PDP equity narrowbody aircraft
Required Delivery Equity narrowbody aircraft

Interest payments on PDP Debt

Owned Narrowbody Total

Rent, only for 3 new replacement & growth narrowbody aircraft
Deposits (3 months rental)
Maintenance Reserves on new NB fleet only

Leased Narrowbody Total

Owned and interim leased Narrowbody total

Required PDP equity widebody aircraft
Required Delivery Equity widebody aircraft

Interest payments on PDP Debt

Owned Widebody Total

Rent, only for 3 new long term lease replacement widebody aircraft
Deposits (3 months rental)
Maintenance Reserves on new WB fleet only

Leased Widebody Total

Owned and interim leased Widebody total

New Aircraft Total Equity demand (incl. PDP interest)

DEBT

PDP Debt converted into senior loan at Delivery - narrowbody

PDP Debt converted into senior loan at Delivery - widebody

Senior Loan amount at end of fiscal year - narrowbody

Leverage (PDP + Sr Loan) at end of fiscal year - narrowbody

Senior Loan amount at end of fiscal year - widebody

Leverage (PDP + Sr Loan) at end of fiscal year - widebody

Total Senior Loan at end of fiscal year - fleet

Fleet leverage at end of fiscal year

Senior loan annuity payments

Interest payments of Senior loan after Delivery - Narrowbody

Interest payments of Senior loan after Delivery - Widebody

New Aircraft Total Funding demand (incl. debt interest payments)

Principal payments of Senior loan after Delivery - Narrowbody

Principal payments of Senior loan after Delivery - Widebody

InterVISTAS

AVIATION TRANSPORTATION TOURISM



Please contact Dr. Emre Serpen for any queries.

E-mail: emre.serpen@intervistas.com

Telephone: +447944163891

Thank You!

www.intervistas.com