

& ANALYSIS FRAMEWORK TOOLS

RELIES ON:

IMPACTS ON:

- TRAFFIC FORECAST
- MARKET SHARE ESTIMATES
- REVENUE ESTIMATES
- OPERATING COSTS ESTIMATES (FLEET **COMMONALITY BENEFITS)**
- YIELD ESTIMATES

- ASK
- NETWORK EXPANSION POSSIBILITIES
- CASH FLOW & OVERALL FINANCIAL HEALTH

THE AIRCRAFT SELECTION CRITERIA

- TECHNICAL CRITERIA: PAYLOAD RANGE
- 3. ENVIRONMENTAL CRITERIA: REGULATORY & POLITICAL ENVIRONMENT
- FINANCIAL CRITERIA: INVESTMENT FUNDS
- A DELIVERY TIME ESTIMATE:

D-AIMH =

HELPFUL ANALYSIS TOOLS:

GLOBAL & MAIN O&D MARKETS RISK ANALYSIS & **MONITORING**

DEMAND DRIVER DATA MONITORING

SCENARIO PLANNING FOR LONG-TERM UNCERTAINTIES

MH

RETAKORK PLANNIG

BANALYSIS FRAMEWORK TOOLS

ROUTE PLANNING

CONSIDERATIONS:

- FLEET CONSTRAINTS
- AIRPORT CONSTRAINTS
- REGULATORY CONSTRAINTS
- DEMAND & LATENT DEMAND

ANALYZES:

- ECONOMIC ENVIRONMENT
- GEOPOLITICAL & POLITICAL ENVIRONMENT
- COMPETITIVE LANDSCAPE
- FINANCIAL EVALUATION OF NEW ROUTE

ROUTE EVALUATION

STEPS:

- 7. ESTIMATE: DEMAND & MARKET SHARE DETERMINE: STAGE LENGTH, AIRCRAFT (ASK) & BLOCK HOURS
- 2 CALCULATE COSTS (FLEET DRIVEN)
 AOC PER BLOCK HOUR
 IOC PER RPK/DEPARTUE/ASK...
- **3. ESTIMATE REVENUE (O&D DRIVEN):** AVERAGE FARE, LOCAL REVENUE & NETWORK CONTRIBUTION
- ESTIMATE PROFIT & OPERATING MARGINS

HELPFUL ANALYSIS TOOLS:

DEMAND DRIVERS
MARKET PRIORIZATION
RISK ANALYSIS
MARKET PROFITABILITY

SCHEDULE PLANING

& ANALYSIS FRAMEWORK TOOLS

FREQUENCIES

DEPENDS ON:

- DEMAND SEGMENTATION & EACH'S PREFERENCES
- MARKET SHARE ESTIMATION
- FORECASTED LOAD

TIMETABLE

DEPENDS ON:

- DEMAND SEGMENTATION & EACH'S PREFERENCES FOR PEAK TIME
- AIRPORT & STAFF
 CONSTRAINTS (CONNECTING
 BANK TIMES, SLOTS & GATE
 AVAILABILITY, CREW
 SCHEDULING
- MAINTENANCE REQUIREMENTS)

FLEET ASSIGNMENT

DEPENDS ON:

- TOTAL DEMAND X CAPACITY
 ON ROUTE X GENERATED
 SPILL COST
- SPILL ANALYSIS MAY CALL
 FOR DIFFERENT CABIN
 CONFIGURATION;
 INCREASED FREQUENCY OR
 BIGGER AIRCRAFT ON
 SELECTED ROUTES

HELPFUL ANALYSIS TOOLS:

DEMAND DRIVERS
CONSUMER ANALYSIS
COMPETITIVE LANDSCAPE

AIRLINE COST STRUCTURE

& COST ESCAPABILITY CONCEPT

CAPACITY & CASK OUTPUT

DEMAND & REVENUE STIMULATION

FLEET

NETWORK

PAX SERVICE COSTS

SCHEDULE

- FREQUENCY
- TIMETABLE
- FLEET ASSIGNMENT
- AIRCRAFT ROTATION PRICING

REVENUE MANAGEMENT

LONG-TERM

= LEADS TO CASK, RASK & LOAD FACTOR

SHORT-TERM

FLEET RELATED & MEDIUM-TERM

ESCABABLE

CASK & COST ESCAPABILITY

DIRECT OPERATING COSTS

FLIGHT/ SCHEDULE
RELATED &
SHORT TO
MEDIUM-TERM
ESCABABLE

FUEL AIRCRAFT STANDING CHARGES

VARIABLE FLIGHT CREW COSTS ANNUAL FLIGHT CREW COSTS

VARIABLE CABIN CREW COSTS ANNUAL CABING CREW COSTS

DIRECT ENGINEERING COSTS ENGINEERING OVERHEADS

AIRPORT & EN-ROUTE CHARGES

NETWORK SIZE &
SERVICE RELATED

& MEDIUM TO

LONG- TERM ESCABABLE

INDIRECT OPERATING COSTS

STATION & GROUND EXPENSES

PAX SERVICES STAFF & PAX INSURANCE

TICKETING. SALES & COMMUNICATION

GENERAL & ADMINISTRATIVE COSTS

DEMARD DRIVERS

& FLEET, ROUTE AND SCHEDULE PLANNING

TIES BETWEEN TWO O&D + GDP & LEVEL OF AIR FARES

LEISURE DEMAND

- HOUSEHOLD
 DISPOSABLE INCOME
- LOCAL TOURISM INVESTMENTS
- HOTEL
 INFRASTRUCTURE
- HOTEL CAPACITY
- LOCAL EVENTS

VFR DEMAND

- # OF EXPATS
- # OF IMMIGRANTS
- IMMIGRATION POLICY
- HISTORICAL & CULTURAL TIES

BUSINESS DEMAND

- INTERNATIONAL TRADE
- FDI INVESTMENTS
- # OF MULTINATIONAL COMPANIES
- FINANCIAL, POLITICAL & CORPORATE CENTERS

PRICE-SENSITIVITY

SUB-SEGMENTS ESTIMATIONS

TIME-SENSITIVITY

EFFECTIVELY MANAGE SPILL ESTIMATIONS & ASSIGN ADEQUATE FLEET TO AVOID OVER-CAPACITY ON ROUTE

PRIORIZATION S NEW ROUTE PLANNING

LIST OF ALL RELEVANT INDICATORS & DATA COLLECTION: IMPORTANT DATA THAT CAN INDICATE ATTRACTIVENESS OF A MARKET CAN BE GROUPED (SUCH AS DEMAND DRIVERS FOR LEISURE TRAVEL)

A 1 111111111 12 9

- 2 AGGREGATE REGION AND/OR CITY-PAIR PERFORMANCE INDEX GENERATION: A PERFORMANCE KEY IS CALCULATED BY AVERAGING AN INDICATOR'S DATA AMONG DESTINATIONS (SANS OUTLIERS).
- JOATA ANALYSIS: ONCE PERFORMANCE
 KEYS ARE SET, ONE SHOULD ANALYZE EACH
 INDICATOR TO SPOT WHERE THE BIGGEST
 OPPORTUNITIES & CONSTRAINTS LIE WITHIN
 EACH MARKET
- PROFITABILITY GOAL: IF A TOP-DOWN
 APPROACH IS USED AND THERE IS A SET
 PROFITABILITY GOAL FOR THE NETWORK OR A
 REGION, A COST ESTIMATION CAN BE ADDED
 TO EVALUATE THE PROFIT POTENTIAL OF EACH
 MARKET

7						The last of							100
	WEIGHT	3	2	2	1	3	1	3	3	3	3	2	-
	DESTINATIONS		BUSINESS DEMAND		CARGO DEMAND	TOTAL RPK	OTHER TRANSPORT MODES	ASK	LF	AVG FARES	REGULATIONS	AIRPORT CONSTRAINTS	FINAL INDEX
	SOUTH AFRICA												
	SEYCHELLES												
	ETHIOPIA												
	MORROCOS												
	EGYPT												
	NIGERIA												

EXAMPLE OF FINAL CITY-PAIR PRIORIZATION ANALYSIS

PERFORMANCE INDEX KEY

= OR ABOVE AVG

= OR BELOW AVG

LOW PERFORMERS

MARKET PRIORITIZATION

INDICATORS

LEISURE DEMAND

- HOUSEHOLD
 DISPOSABLE INCOME
- LOCAL TOURISM INVESTMENTS
- HOTEL
 INFRASTRUCTURE
- HOTEL CAPACITY
- LOCAL EVENTS

ECONOMY

- GDP
- DISPOSABLE INCOME
- INFLATION
- UNEMPLOYMENT RATE
- EXCHANGE RATE

CAPACITY

- TOTAL ASK ON ROUTE
- FLIGHT FREQUENCIES

BUSINESS DEMAND

- INTERNATIONAL TRADE
- FDI INVESTMENTS
- # OF MULTINATIONAL COMPANIES
- FINANCIAL, POLITICAL & CORPORATE CENTERS

VFR DEMAND

- # OF EXPATS
- # OF IMMIGRANTS
- IMMIGRATION POLICY
- HISTORICAL & CULTURAL TIES

CARGO DEMAND

- INTERNATIONAL TRADE DATA;
- % OF TRADE THAT ARE TIME-SENSITIVE PRODUCTS

REGULATION

- LEVEL OF BILATERAL OPENNESS
- ENVIRONMENTAL CONSTRAINTS

ALT. TRANSPORT

- ALTERNATIVE
 TRANSPORT MODES

 INFRASTRUCTURE LEVEL
- ALTERNATIVE
 TRANSPORT MODE
 TRAFFIC
- ALTERNATIVE

 TRANSPORT MODE

 SERVICE PROVIDERS

COMPETITION

- AVERAGE FARE FOR SAME SERVICE TYPE (NON-STOP; ONE STOP)
- TOTAL FLIGHT TIME
- # OF AIRLINESOPERATING ROUTE BYSERVICE TYPE
- CABINS OFFERED

COST ESTIMATION

DIRECT VARIABLE
 OPERATING COSTS
 ESTIMATION

AIRPORT INFR.

- CONNECTIVITY LEVEL
- SLOT AVAILABILITY
- AIRPORT FEES
- RWY RESTRICTIONS (MTOW)

RSKANALYSIS

& FLEET AND NETWORK PLANNING

IDENTIFICATION & ESTIMATION OF PROBABILITY AND IMPACT EXTERNAL EVENTS COULD HAVE ON DEMAND ON A GLOBAL & LOCAL LEVEL.

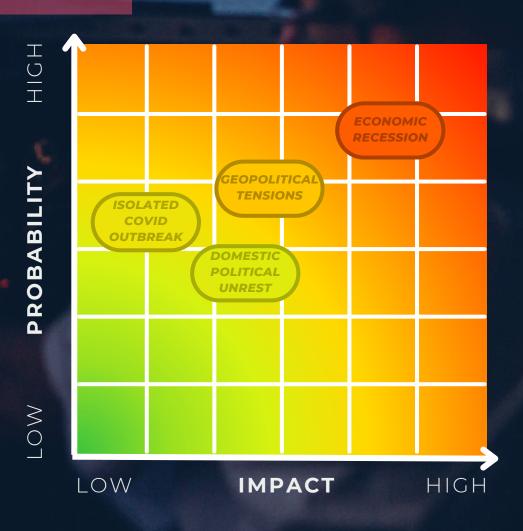
GLOBAL

USUALLY KNOWN LIST OF EVENTS THAT HIGHLY IMPACT TOTAL AIR TRAVEL DEMAND - SUCH AS GLOBAL RECESSION

LOCAL

• EVALUATION OF LOCAL EVENTS THAT COULD IMPACT DEMAND - SUCH AS POLITICAL UNREST AND WARS

MONITORING OF PARAMETERS FOR EACH RELEVANT RISK TO GUIDE THE DECISION-MAKING PROCESS DURING NETWORK AND FLEET PLANNING.



PROFITABILITY

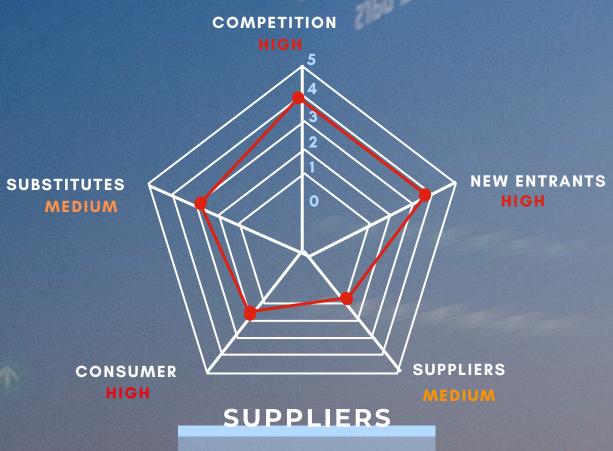
& COMPETITIVE LANDSCAPE ANALYSIS

COMPETITION

- SERVICE TYPES
 OFFERED (NON-STOP;
 ONE-STOP; MULTI STOP)
- PRICE RANGES
- CABIN SERVICE LEVELS
- FREQUENCIES & TIMETABLES

NEW ENTRANTS

- NUMBER OF START-UPS
 IN THE LAST 5 YEARS
- RETALIATION LEVEL
- BUSINESS MODEL GAPS
- AIRPORT CONGESTION LEVEL



CONSUMER

- NUMBER OF EXISTING SEGMENTS
- PRICE & TIME-SENSIVITY
- PRODUCT DEMAND:
 - PRICE
 - COMFORT
 - CONVENIENCE
 - REPUTATION

SUBSTITUTES

ALTERNATIVE
 TRANSPORT MODES
 INFRASTRUCTURE &
 SERVICE LEVELS

- NUMBER OF SUPPLIERS
- PRODUCT PORTFOLIO &
 OUALITY

THE PERSON

SCENARO PLANING

& FLEET ACQUISITION

A LONG-TERM CONSIDERATION OF HIGHLY UNCERTAIN EVENTS THAT **COULD HAVE PROFOUND IMPACTS ON THE INDUSTRY**

- **LIST OF DRIVING FORCES** -VARIABLES THAT COULD CHANGE THE INDUSTRY -**BY DEGREE OF UNCERTAINTY & IMPACT**
- THE 2 MOST UNCERTAIN **AND IMPACTFUL** ARE PUT ON A SCALE AND **FORM** THE SCENARIO CROSS
- **4 SCENARIOS STEM FROM** THE CROSS THAT COULD HAPPEN IN THE LONG-TERM. MITIGATION PLAN FOR EACH SHOULD BE MADE

EITHER/OR SCENARIO CROSS

SCENARIO SCENARIO

DRIVING FORCE 2

SCENARIO

SCENARIO

DRIVING FORCE 1

"WHAT COULD TELL US THIS SCENARIO IS **EMERGING?"**

A LIST OF INDICATORS AND PARAMETERS SHOULD BE MADE & MONITORED TO INDICATE WHICH SCENARIO THE INDUSTRY IS LEANING TO

SCENARIO - PLANNIG FORCES

(GEO)POLITICAL

- CONFLICT ESCALATIONS LEADING TO AIRSPACE CLOSURE & TRAVEL BANS
- PROTECTIONISM
 RESTRICTING
 INTERNATIONAL TRADE
 & BUSINESSES

TECHNOLOGY

- INTRODUCTION OF NEW AIRCRAFTS WITH EXTENDED REACH FOR EXAMPLE
- REINTRODUCTION OF SUPERSONIC TRAVEL

ECONOMY

 RISE OR FALL OF ECONOMIC PROSPERITY AFFECTING DEMAND

SOCIO-DEMO.

- MIGRATION FLOWS
- MORE PREDICTABLE EXAMPLES INCLUDE THE AGING OF A POPULATION

REGULATIONS

- LEVEL OF BILATERAL OPENNESS
- POLICIES CONSTRAINTS
 TO LIMIT OPERATIONS
 DUE TO
 ENVIRONMENTAL
 CHANGES

ENVIRONMENTAL

CLIMATE CHANGES
 TURNING ATTRACTIVE
 TOURISM DESTINATIONS
 INTO UNFEASIBLE SPOTS

DRIVING FORCES ARE VARIABLES THAT EITHER SHAPE THE DEMAND FOR AIR TRAVEL OR COULD IMPACT THE INDUSTRY'S OPERATIONS.

STRATEGIC PLANNING

AIRLINE MANAGEMENT PLANNING TIMELINE

- FINANCIAL PLANNING
- P&L

0

G

S

H

0

R T

Т

E R M

erican

- COST STRUCTURE
- MARKET ANALYSIS
- COMPETITION ANALYSIS
- DEMAND FORECAST
- ECONOMIC & DEMOGRAPHIC ANALYSIS
- POLITICAL & REGULATORY ANALYSIS

FLEET

NETWORK

N387AM

A

SCHEDULE

- FREQUENCY
- TIMETABLE
- FLEET ASSIGNMENT
- AIRCRAFT ROTATION

PRICING

REVENUE MANAGEMENT

SALES & DISTRIBUTION

CREW SCHEDULING

GROUND STAFF MANAGEMENT

OPS CONTROL

SOURCE: BELOBABA, 2015