

### **Indian Aviation Overview and Outlook 2020**

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Our philosophy is simple: to present our clients and business partners with an unrivalled depth of expertise delivered by skilled and experienced professionals.

## **Consulting & Advisory Services**

■ International reputation as the leading specialist aviation consultant in South Asia, with the experience almost 450 assignments around the world.

## Market Research & Intelligence

■ CAPA has published over 7,000 reports for the global aviation community, across the industry value chain. We maintain a dedicated India-based research desk, conducting quantitative and qualitative studies on key industry verticals.

#### **CAPA AeroPark**

■ World class multi-disciplinary aviation education & training campus bringing together the world's best training providers. First phase to open in early 2011.

## Aerospace & Helicopter City

Co-developer of aerospace research and manufacturing enclave at 2,800 acre
 SEZ in Gujarat which will include an industry cluster focused on general aviation and helicopters.

### **CAPA Ventures**

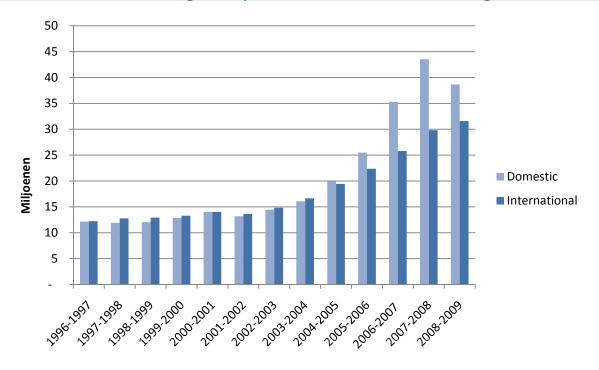
Assists aviation and tourism related ventures with raising debt or equity funding, through our extensive network of local and international investors.

### **Global Clients**

■ The Centre's client base spans more than 600 of the leading aviation companies right around the world, including virtually every blue chip organisation in the industry, such as Airbus, Air France-KLM, Boeing, Deutsche Bank, Emirates, Rolls Royce, Singapore Airlines, Virgin Group etc.

## **Indian Aviation**

- Rapid Growth: Indian aviation has experienced a revolution in the last 5 years.
  Domestic traffic has tripled, international traffic has doubled.
- **Slowdown:** Recent slowdown was almost inevitable, in fact almost desirable, as the infrastructure was struggling to keep pace.
- Losses: But despite this market expansion, the industry has accumulated losses of US\$4 billion during this period. What went wrong?

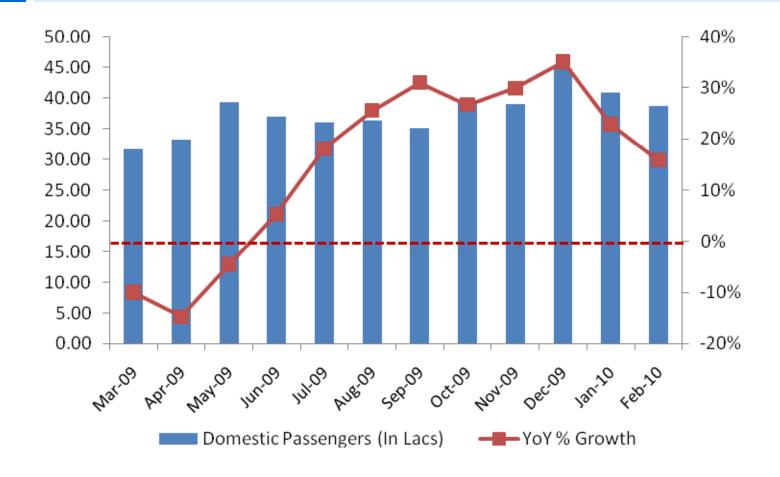


# What went Wrong?

- Too much capacity introduced too fast:
  - Aircraft were inducted at a rate of 6-6.5 per month
  - 3 would have been more appropriate to absorb demand growth
- The aviation system was too weak to handle this capacity expansion:
  - Airport and ATC infrastructure could not cope;
  - Congestion and delays increased airline costs;
  - Passenger experience deteriorated;
  - High structural costs were amplified;
  - Human resource shortages became a problem.
- Airlines discounted heavily to sell excess capacity euphoria about traffic growth masked the fundamental imbalance in the sector.
  - This was ruthlessly exposed by the fuel price shock in 2008.
- Financial stress led to consolidation, but did not go well:
  - Air India/Indian merger is good on paper, but poorly executed
  - Sahara and Deccan have been expensive for Jet and Kingfisher

**Indian Aviation** 

 Domestic Traffic has recovered sharply in the last few months, posting strong double digit growth for the last 8 months.



### **Long Term - India has Huge Growth Potential**

### **World Aviation**

- Today less than 2% of Indian fly domestically each year, and only 0.5% internationally.
- With a population only slightly larger than India, China's domestic air traffic is 5 times the size. Australia with a population of just 21 million, not much more than say Mumbai, generates more domestic passengers than the whole of India.

|           | Population    | Domestic Traffic | Trips per Capita | GDP per capita |  |
|-----------|---------------|------------------|------------------|----------------|--|
| Australia | 21 million    | 50 million       | 2.38             | \$38,100       |  |
| USA       | 307 million   | 650 million      | 2.12             | \$46,900       |  |
| Malaysia  | 26 million    | 14 million       | 0.54             | \$15,200       |  |
| Brazil    | 199 million   | ~50 million      | 0.25             | \$10,200       |  |
| China     | 1,339 million | 198 million      | 0.15             | \$6,000        |  |
| India     | 1,166 million | 39 million       | 0.03             | \$2,900        |  |

Source: CIA World Fact Book; FAA, DGCA India, CAAC, Malaysia Ministry of Transport, BTRE Australia, ANAC Brazil.

- Several forecasts project that India will have the fastest growth rate in the world in air traffic over the next 20 years (close to 10% per annum).
- CAPA believes that the growth in traffic and aircraft movements over the next decade may be even stronger and more sustained than anticipated.
- Ad hoc responses will not suffice. Long term planning in line with a clear vision is imperative.

|      | 2007                  |                          |      | 2012                  |                          |      | 2017               |                          |      | 2027                  |                          |
|------|-----------------------|--------------------------|------|-----------------------|--------------------------|------|--------------------|--------------------------|------|-----------------------|--------------------------|
| Rank | Country               | Passengers<br>(millions) | Rank | Country               | Passengers<br>(millions) | Rank | Country            | Passengers<br>(millions) | Rank | Country               | Passengers<br>(millions) |
| 1    | United States         | 1,450                    | 1    | United States         | 1,552                    | 1    | United States      | 1,790                    | 1    | United States         | 2,345                    |
| 2    | China                 | 297                      | 2    | China                 | 497                      | 2    | China              | 792                      | 2    | China                 | 1,708                    |
| 3    | United Kingdom        | 243                      | 3    | United Kingdom        | 282                      | 3    | United Kingdom     | 324                      | 3    | India                 | 581                      |
| 4    | Spain                 | 210                      | 4    | Spain                 | 251                      | 4    | Spain              | 294                      | 4    | United Kingdom        | 409                      |
| 5    | Japan                 | 204                      | 5    | Japan                 | 228                      | 5    | India              | 274                      | 5    | Brazil                | 407                      |
| 6    | Germany               | 186                      | 6    | Germany               | 218                      | 6    | Japan              | 259                      | 6    | Spain                 | 370                      |
| 7    | France                | 140                      | 7    | India                 | 176                      | 7    | Germany            | 252                      | 7    | Japan                 | 330                      |
| 8    | Italy                 | 129                      | 8    | France                | 168                      | 8    | Brazil             | 224                      | 8    | Germany               | 311                      |
| 9    | Brazil                | 120                      | 9    | Brazil                | 165                      | 9    | France             | 192                      | 9    | France                | 242                      |
| 10   | Canada                | 101                      | 10   | Italy                 | 154                      | 10   | Italy              | 180                      | 10   | Italy                 | 233                      |
| 11   | Australia             | 101                      | 11   | Australia             | 131                      | 11   | Australia          | 154                      | 11   | Australia             | 209                      |
| 12   | India                 | 100                      | 12   | Canada                | 125                      | 12   | Canada             | 147                      | 12   | Mexico                | 206                      |
| 13   | Mexico                | 85                       | 13   | Mexico                | 109                      | 13   | Mexico             | 137                      | 13   | Canada                | 195                      |
| 14   | Turkey                | 67                       | 14   | Turkey                | 92                       | 14   | Russian Federation | 112                      | 14   | Russian<br>Federation | 178                      |
| 15   | Korea, Republic of    | 65                       | 15   | Russian<br>Federation | 84                       | 15   | Turkey             | 112                      | 15   | Turkey                | 157                      |
| 16   | Thailand              | 57                       | 16   | Korea, Republic of    | 78                       | 16   | UAE                | 95                       | 16   | UAE                   | 152                      |
| 17   | Indonesia             | 56                       | 17   | Indonesia             | 71                       | 17   | Korea, Republic of | 92                       | 17   | Indonesia             | 148                      |
| 18   | Russian<br>Federation | 52                       | 18   | UAE                   | 70                       | 18   | Indonesia          | 92                       | 18   | Korea, Republic of    | 126                      |
| 19   | Netherlands           | 51                       | 19   | Thailand              | 70                       | 19   | Thailand           | 86                       | 19   | Thailand              | 125                      |
| 20   | Hong Kong             | 47                       | 20   | Hong Kong             | 61                       | 20   | Hong Kong          | 76                       | 20   | Hong Kong             | 113                      |

### **Key Issues**

- Rationalisation: Large 3 airlines Air India, Jet, Kingfisher have a combined fleet of 330 aircraft. Rationalisation required.
- Air India lacks direction: Air India's weakness is likely to continue with no clear recovery plan, which could benefit Jet Airways and Kingfisher.
- Jet/Kingfisher under pressure: But Jet/Kingfisher have huge debt and stretched balance sheets - they cannot exploit market to full potential. Longhaul expansion will be limited.
- Competition from Gulf: ME carriers continue to make in-roads.
- Domestic: However domestic operations should be profitable in 2010/11.
- Consolidation: Without consolidation, India's network airlines will not be able to expand profitably.
- Alliances: Carriers may join alliances to compete, but this may curb growth.
- Investors: Investors are concerned and raising capital is challenging.
- Positioning: Jet/Kingfisher will need further restructuring and greater differentiation between full service and low cost operations. Lack of clarity in service model strategy will benefit LCCs.

### **Key Issues**

- LCC model has thrived in India approaching 70% domestic share.
- Significant further growth potential, but requires reforms:
  - Foreign airline investment;
  - Greater freedom to operate overseas;
  - Sales taxation on fuel.
- Foreign airline investment rules may be eased within next year;
- Cross-border JV activity likely to be seen;
- Ownership changes for several carriers expected;
- Consolidation inevitable in 2010/11;
- International skies likely to liberalise further;
- Indian carriers must be granted a level playing field when this happens.

### Pre 2004/05

- Prior to 2004/05, airports and airspace suffered from decades of neglect.
- Naresh Chandra Committee of 2003 stated that the country's "passenger airports are for the most part an embarrassment".
- Privatisation appeared on the agenda in 1996 but no progress;
- One exception was Cochin despite its success, private participation took several years to be invited again.
- Lack of world class infrastructure meant growth could not be supported when it started in 2004.

### Post 2004/05

- In 2005, the first UPA government announced a US\$9 billion airport upgrade and modernisation program, consisting of:
  - Delhi & Mumbai airports on PPP basis;
  - Greenfield airports at Bangalore & Hyderabad;
  - Modernisation of existing Kolkata & Chennai airports by AAI;
  - Upgrade of 35 non-metro airports by AAI;
  - Operationalisation and upgrade of 45 smaller airports by AAI;
  - Greenfield airports at locations such as Navi Mumbai, Mopa, Pune.
- Airport modernisation was a highlight of the first UPA government.
- US\$20 billion in investment in airports is expected in the next 10 years.
- Delays in establishing economic regulator have created difficulties for investors.

# Air Traffic Management

- Airports are only half the story. The other key issue is airspace.
- AAI Masterplan consisting of the following elements:
  - Investing in airport infrastructure;
  - Upgrading CNS/ATM and Met equipment;
  - Enhancing manpower and training infrastructure;
  - Harmonisation with global initiatives.
- Other issues include the environment, implementing a safety culture, civilmilitary cooperation, building a seamless airspace.
- Need for significant and continuous investment. May require a new operating structure such as corporatisation.

### **Beyond 2010**

- Modernisation of DEL/BOM will continue;
- Bangalore Airport has started planning for expansion and 2<sup>nd</sup> terminal;
- Non-metro modernisation slower than planned, due to cash crunch;
- Cityside development at non-metros to start in 2010;
- Greenfield airports at Navi Mumbai & Goa expected to proceed in 2010;
- Airport at Chakan, Pune may also be fast-tracked;
- Merchant airport at Durgapur, West Bengal will move ahead;
- AERA will be activated in the coming months
- Navi Mumbai is essential to maintain Mumbai's competitiveness;
- But, for the first time we will have multiple airports in a city, raising issues on how traffic should be distributed.

### **Future of AAI**

- Restructuring of the AAI is critical;
- AAI is also a very complex company with over 120 airports to manage, may need to break into smaller groups that are more viable;
- 60% of traffic is now in private hands resulting in a decline in revenue;
- Proposed corporatisation of ATC will further reduce revenue;
- Capex requirements are high creating a shortfall;
- AAI needs to adopt a more commercial focus to airport charges, traffic development and non-aero revenues;
- Some airports could be handed over to state governments;
- However, this may also lead to greater state-central conflict.

### Policy Framework

- Policy framework must encourage traffic beyond the 10 largest airports;
- Regional airline policy has not succeeded;
- Financial incentives could be considered for stimulating air taxis and GA;
- Alternatives to Route dispersal guidelines could be reviewed.
- Key concern that policies are introduced with little industry consultation.
- Independent and expert regulator is required that keeps in mind industry viability in its thinking.

#### Lessons

- Airports cannot be built in a vacuum. There needs to be seamless coordination with other state agencies to develop ground transport and logistics.
- Airport planning needs to take greater responsibility for coordination and viability of different airport projects within similar catchments.
- In the next stage of modernisation, the objectives of airport development must be clearer, to ensure that the outcome is better aligned with requirements.

### Outlook 2020

- CAPA estimates domestic traffic will reach 160-180 m pax per annum.
  International will exceed 80 m.
- Investment of up to US\$120 bn in aircraft, airport development and ancillary services such as ATC, MRO, catering, training.
- Commercial fleet likely to touch 1,000 aircraft, up from 380 today.
- Market for up to 1,000 GA aircraft, with estimated investment of US\$4 bn.
- Airport investment of US\$20 billion required for upgrades, greenfields and secondary airports in metros.
- US\$5 bn required for ground handling, cargo and logistics facilities.
- Significant investment opportunities in the MRO sector to support the fleet of over 1,500 aircraft.
- Ancillary services in training, safety, security and ATC will need to be brought up to international standards.

## **Success Factors**

- National Agenda: A long term, structured national plan with appropriate institutional framework – necessary to attract capital.
- Regulation: A modern and professional technical regulatory framework in line with global standards such as EASA/FAA.
- Safety: Implementation of safety systems and culture.
- Vision: Ministry to concentrate on policy and providing strategic leadership.
- Profile: Enhanced profile and recognition of aviation within government.
- Taxation: Less punitive fiscal regime particularly sales tax on fuel.
- **HR:** World class education & training infrastructure is essential for safe and efficient aviation.
- Capital: Streamlined foreign direct investment regulations.

### **Thank You**

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