

## Global Market Forecast

2009 - 2028

15th April 2010, Airneth Annual Conference,

Andrew Gordon
Director Market Analysis





- Where is the industry today?
  - Economy
  - Traffic outlook
- Industry drivers
- Airbus GMF, 2009 2028
  - Emerging markets

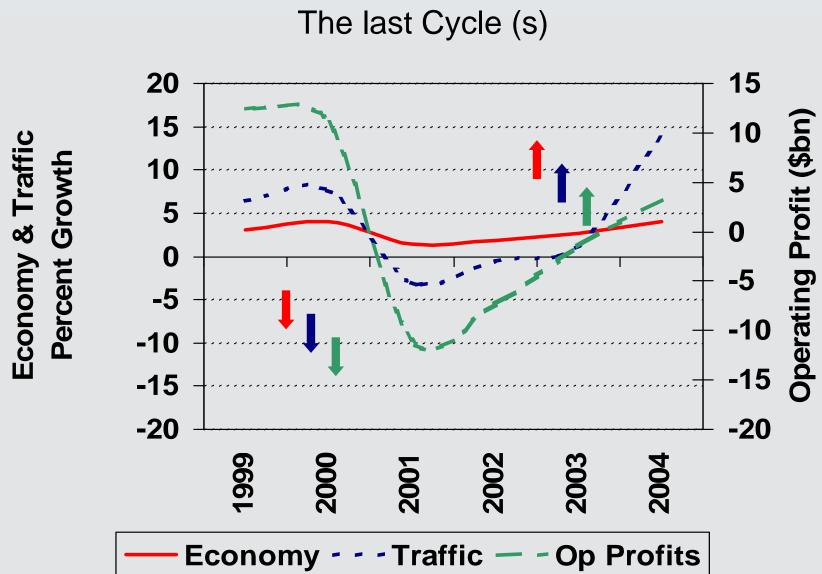




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### The aviation cycle, several cycles impacting in series

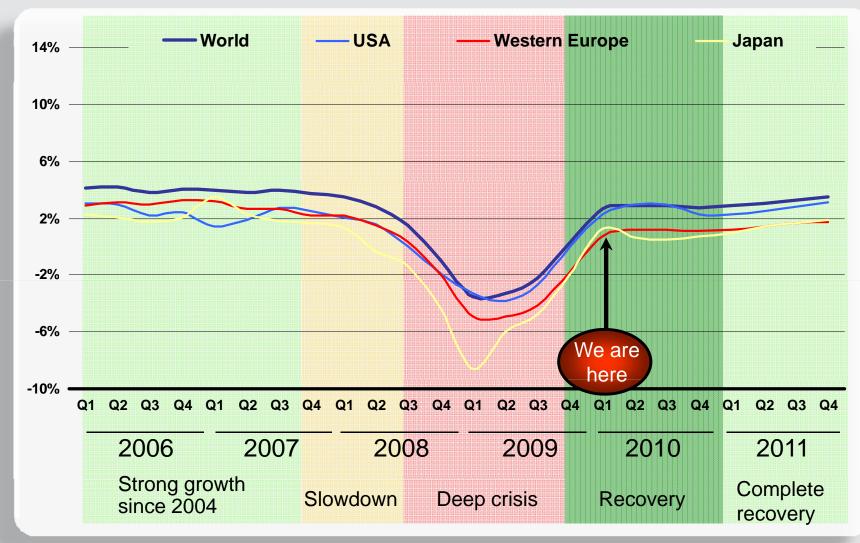




Source: Global Insight, ICAO & IATA

#### Economists believe recession has bottomed out

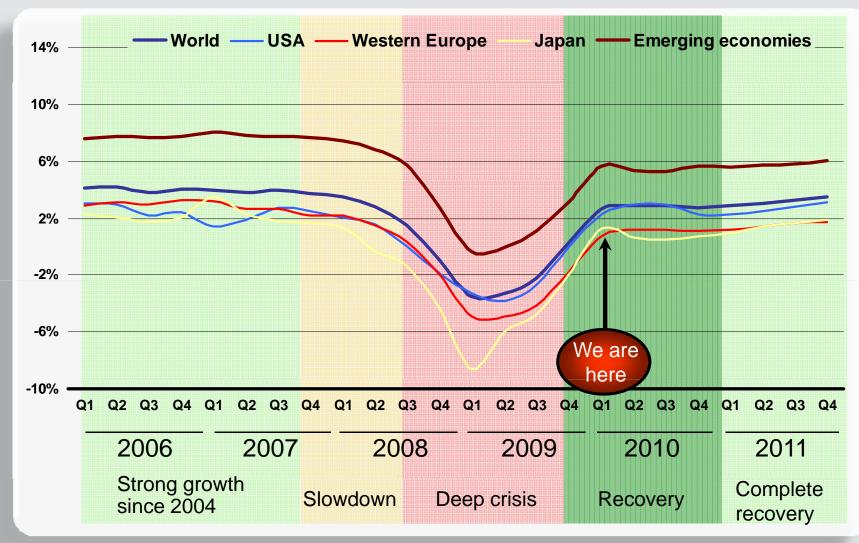
#### Real GDP year-over-year quarterly evolution (%)





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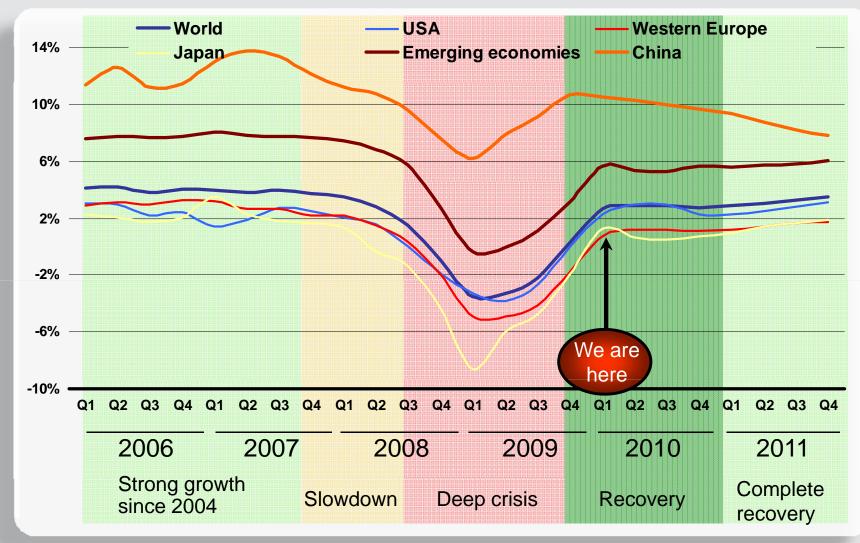
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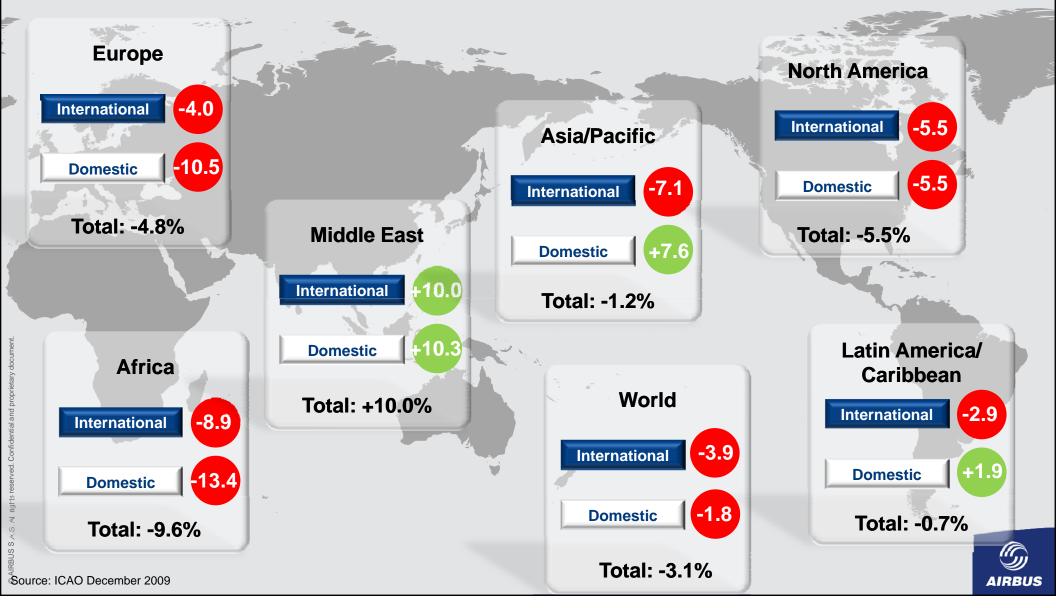
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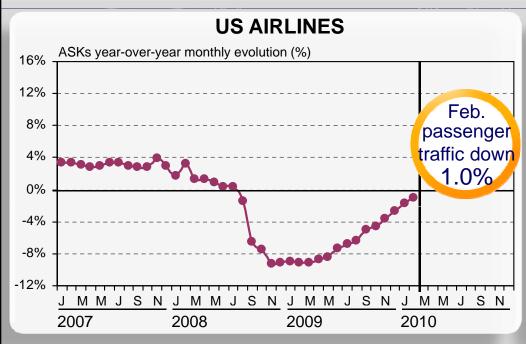


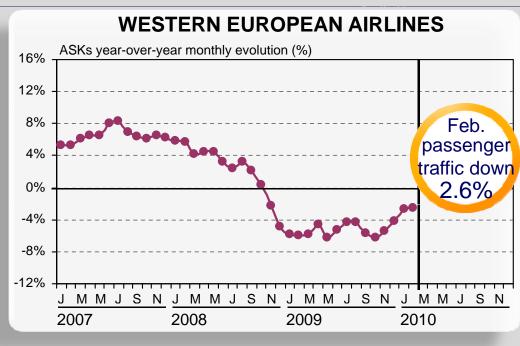
## Asia's domestic traffic grew in a difficult year

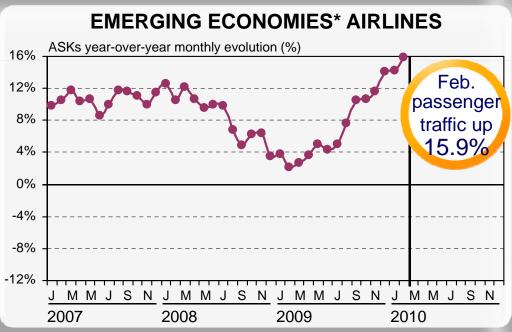


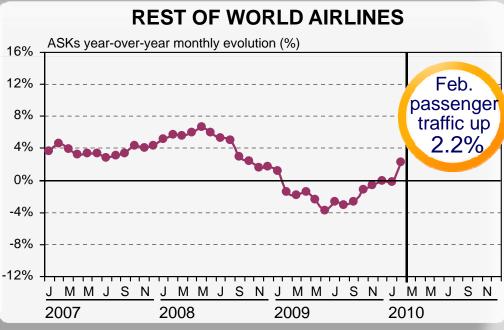


## Emerging markets leading traffic recovery









Source: OAG, \* 54 emerging economies, Airbus



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## Taking into account key industry drivers

#### **Economics**

- Growth
- **Emerging markets**
- Cycles



#### **Passengers**

- Ticket price
- Comfort
- Origin and destination
- Connectivity
- Environment

#### **Demographics**

- Population growth
- Age profiles
- Disposable income
- Urbanisation



#### **Airlines**

- Fuel
- Range
- Fleet mix
- Business models
- Legislation/taxation
- Environment

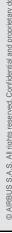
#### **Networks**

- Global cities
- Hubs
- New routes
- Deregulation



#### **Aircraft**

- Seats, Speed, utilisation
- Frequency, load factor
- Range
- Replacement
- Fleet mix
- Environment





## The world of 2028 will be very different from today

#### Ranking of countries by real GDP

1988

- 1- US
- 2- Japan
- 3- Germany
- 4- UK
- 5- France
- 6- Italy
- 7- Russia
- 8- Canada
- 9- Spain
- 10- Brazil
- 11- Mexico
- 12- China

2008

- 1- US
- 2- Japan
- 3- China
- 4- Germany
- 5- UK
- 6- France
- 7- Italy
- 8- Spain
- 9- Canada
- 10-India
- 11- Brazil
- 12- South Korea

2028

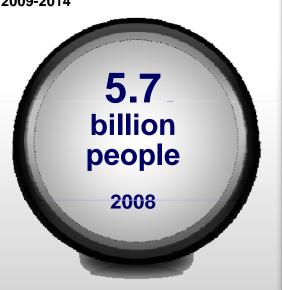
- 1- US
- 2- China
- 3- Japan
- 4- Germany
- 5-India
- 6- UK
- 7- France
- 8- Brazil
- 9- Italy
- 10- Canada
- 11- South Korea
- 12- Russia

### Air transport is still emerging for 85% of the world

**Expanding Regions** 

#### Traffic growth by airline domicile 2009-2014

China	+10.2%
India	+8.8%
Middle East	+7.2%
Asia*	+6.8%
Africa	+6.5%
CIS	+6.2%
Latin America	+5.9%
Eastern Europe	+5.4%



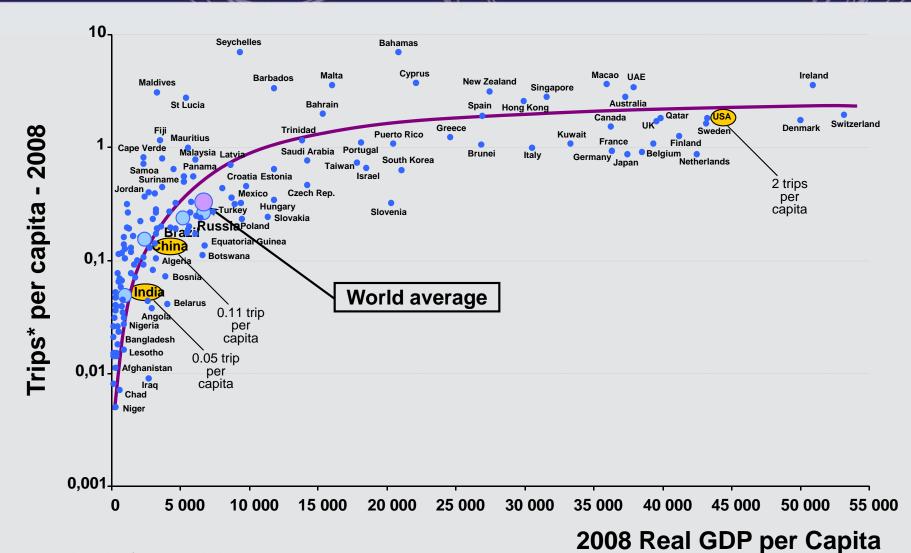
Developed Regions Western Europe +4.2% North America +3.5% Japan +2.4%







## Large potential to increase propensity to travel



Passengers originating from a particular country Note: GDP in 2005 US\$

Source: IATA PaxIS, Global Insight, Airbus

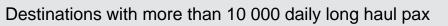


# A network of cities: 92% of the long haul traffic is from and/or to 37 "mega-cities"

## 37 "mega-cities" in terms of international air traffic demand



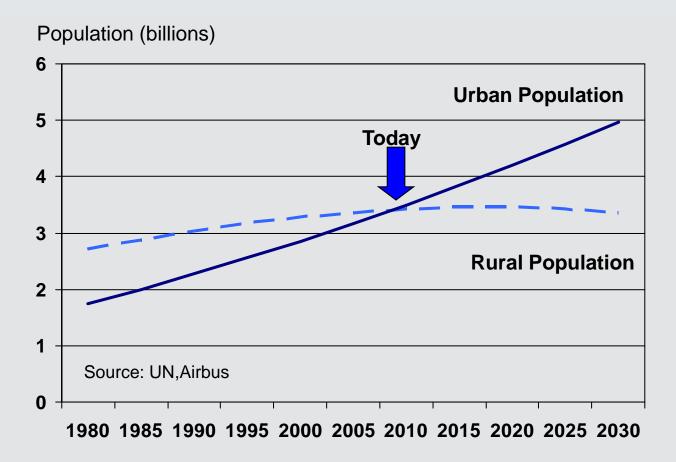








## Emerging markets driving World urbanisation







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# With continuing growth & urbanisation, the number of mega-cities will more than double

82 big cities where long-haul passengers will want to fly between in 20 years

More Mega-cities





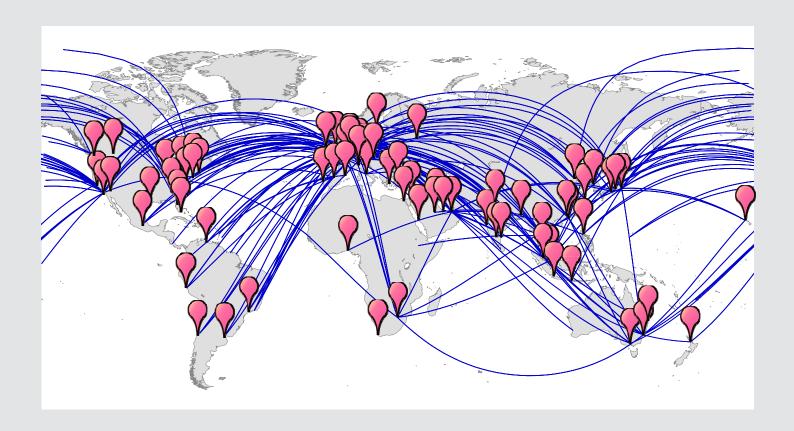
Destinations with more than 10 000 daily long haul pax





## Growth in the size and number of mega-cities

#### Main long-haul VLA routes by 2028





Destinations with more than 10 000 daily long haul pax



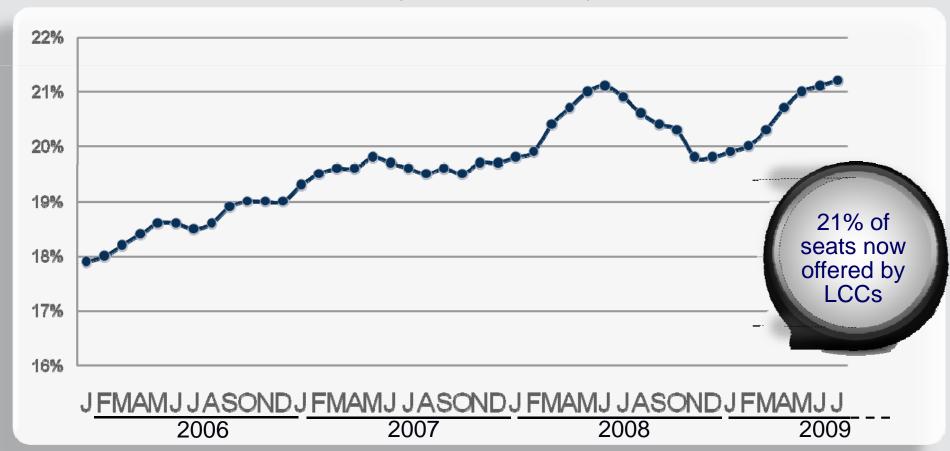


## The A380 network is growing



## Low Cost Airlines have continued to grow

#### Worldwide LCCs market share (% seats offered)

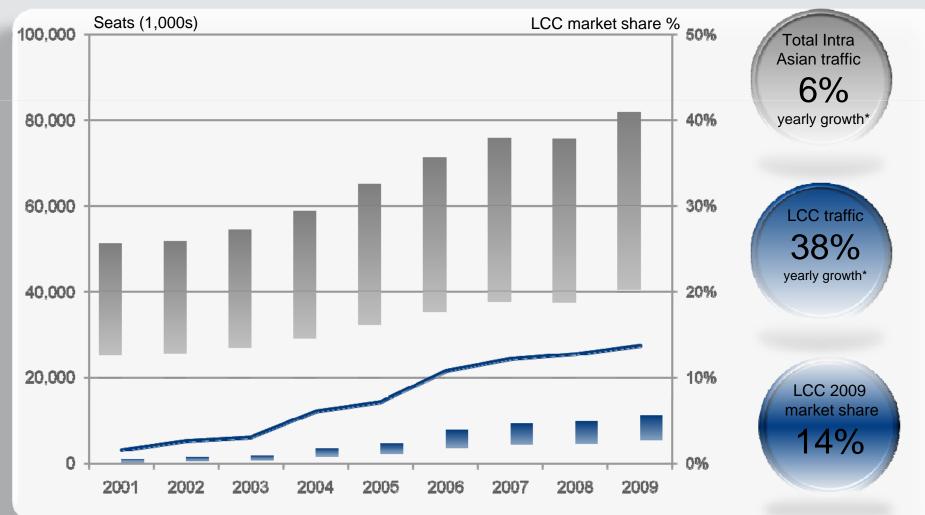




Source: OAG, Airbus

## Low cost traffic as driver of traffic growth

Intra Asian traffic and LCC market share development, 2001 - 2009



<sup>\*</sup> Average annual growth rate

Source: OAG (September traffic), Airbus



# Indian LCC targeting first class and 30% 2<sup>nd</sup> class train passengers



MUMBAI-DELHI by rail





- 1380 km
- 23 hours

First class fare: 3373 Rs

Second class fare: 1775 Rs



#### MUMBAI-DELHI by air





- 1130 km
- < 90 minutes flight

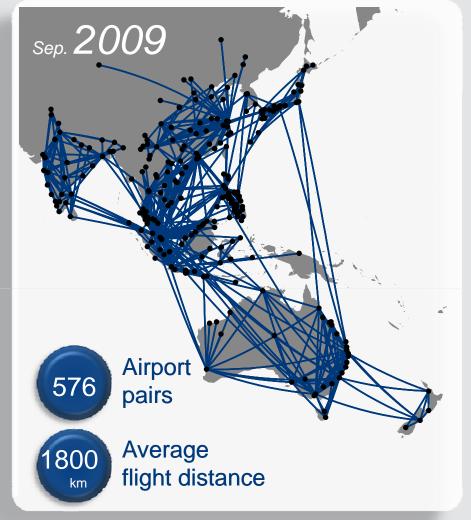
Network fare: 8970 Rs

LCC fare : **2000** Rs

## Low cost carriers spread their wings over Asia

Intra Asian LCC network, 09/2001 vs. 09/2009







Source: OAG



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## The Airbus Global Market Forecast (GMF) 2009



- 20 year aircraft demand forecast, aircraft >19 seats
- Traffic forecast modeling 156 distinct traffic flows
- Detailed study of network evolution including new routes, markets and deregulation hot spots
- Model the impact of evolving airline models e.g. Low cost carriers
- Fleet build-ups covering >750 passenger airlines, 190 freight carriers
- Available as a book, interactive pdf and on the web.



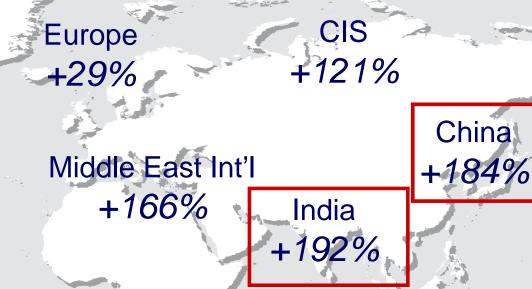


## Today's passenger traffic 38% above 2000 level





Latin America Int'l +40%

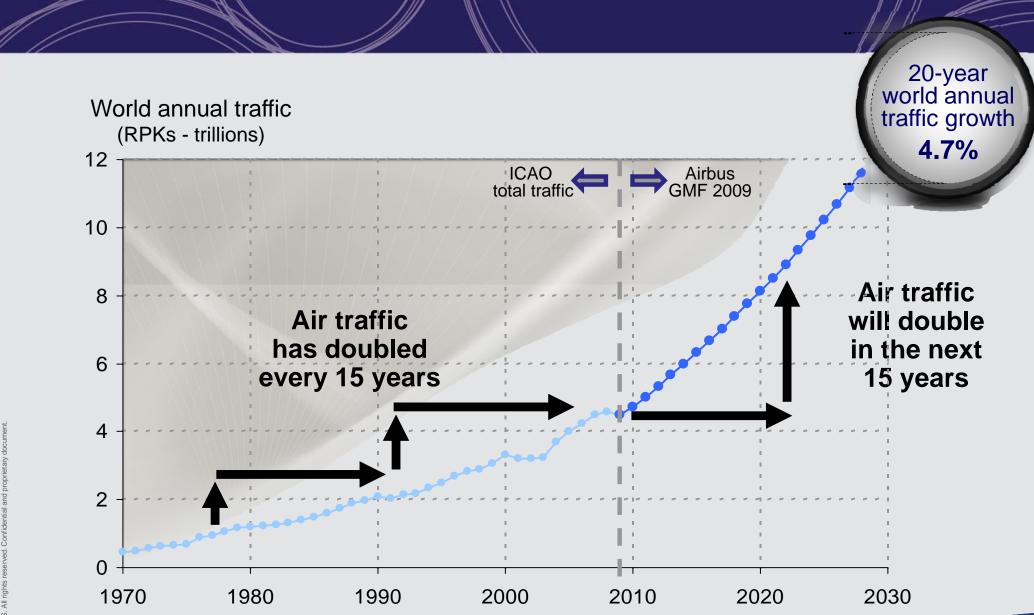


Africa Int'l +53%

Asia-Pacific Int'l +29%



## Air travel remains a growth market



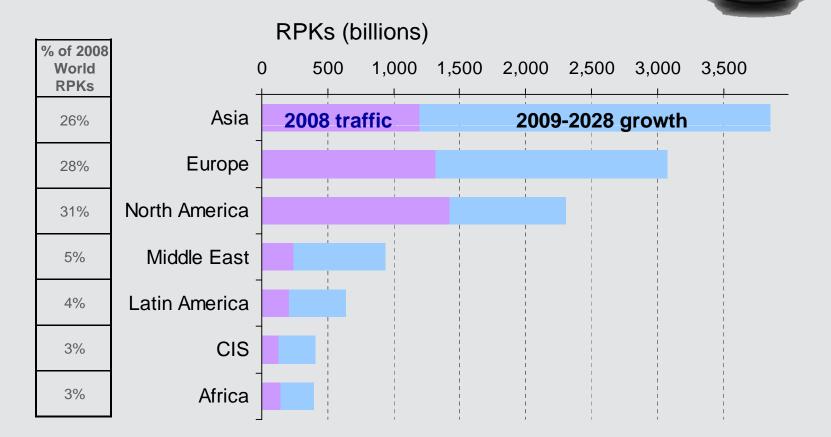


Source: ICAO, Airbus

## Asia to lead in world traffic by 2028

20-year world annual traffic growth 4.7%

#### Traffic by airline domicile



20-year growth	% of 2028 World RPKs
6.0%	33%
4.3%	26%
2.4%	20%
6.9%	8%
5.8%	6%
5.9%	4%
5.2%	3%



## Flows including Africa, India and China to grow fastest

#### **Top 10 growth markets next 20 years**

**Domestic Turkey** 

**Domestic India** 

N. Africa - P.R.China

CIS - P.R.China

Sub S.Africa - P.R. China

Middle East - S. Africa

Sub S.Africa - N. Africa

P.R. China - S. Africa

N.Africa - S. Africa

P.R.China - Russia

10.1%

10.0%

9.4%

9.4%

9.3%

9.1%

9.0%

8.7%

8.6%

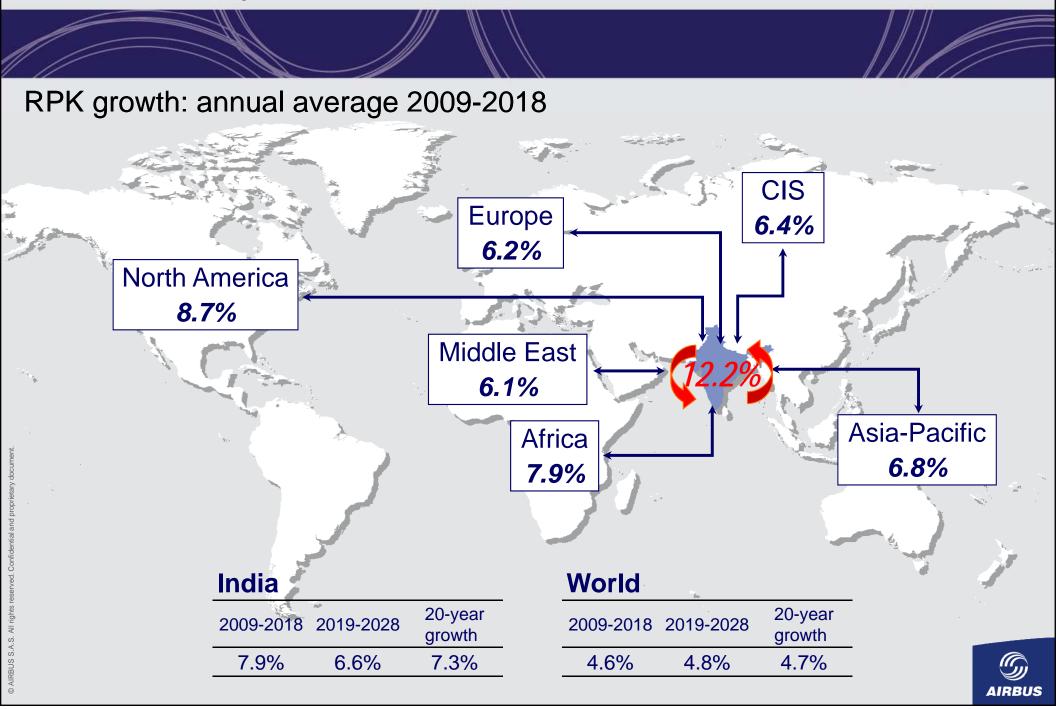
8.5%

#### **Drivers:**

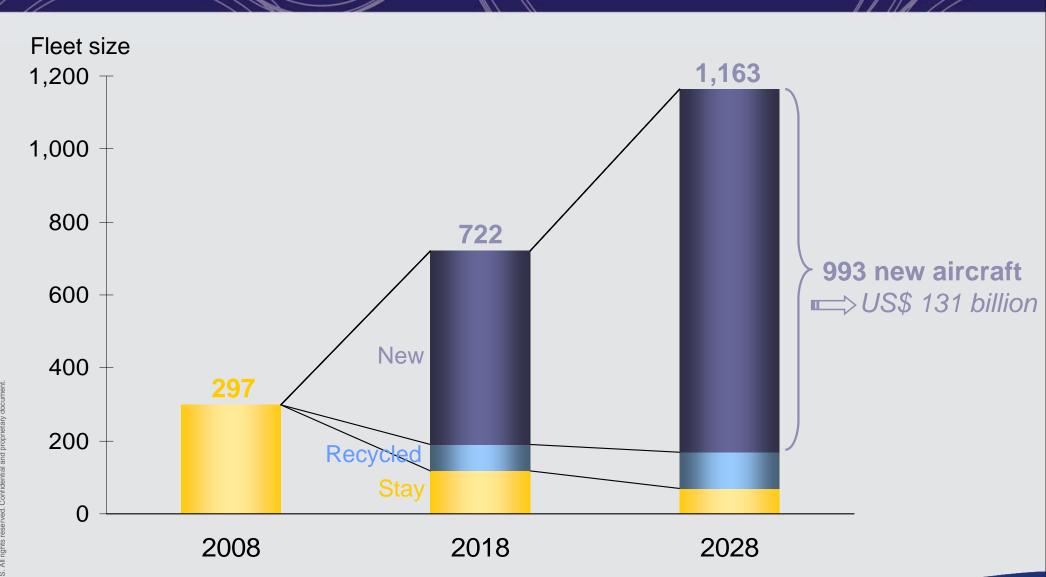
- Deregulation
- Economic growth
- Population growth
- Inter regional trade



### India will be the fastest growing country for air travel for the next 10 years



## India's passenger aircraft fleet will grow fourfold by 2028





## Chinese market in next 20 years

- A passenger traffic to be multiplied by 4
- A passenger aircraft fleet to be multiplied by 3
- A dedicated freighter fleet to be multiplied by 7
- A market for 2,798 aircraft over 100 seats worth \$353B
- Large cities, congestion will demand larger aircraft
  - Very large aircraft for all Chinese markets
  - 201 VLAs and 725 twin-aisles required in China





## Mainland China will need 2,798 new passenger & freighter aircraft over the next 20 years



1,872 single-aisles

725 twin-aisles

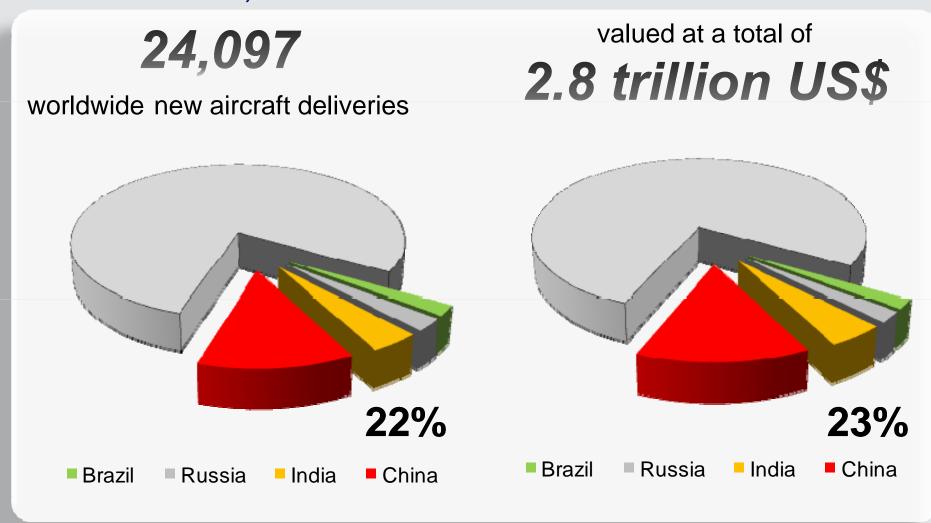
201 very large aircraft

Market value of \$353 billion



## BRIC market more than 20% of new delivered aircraft and business volume over next 20 years

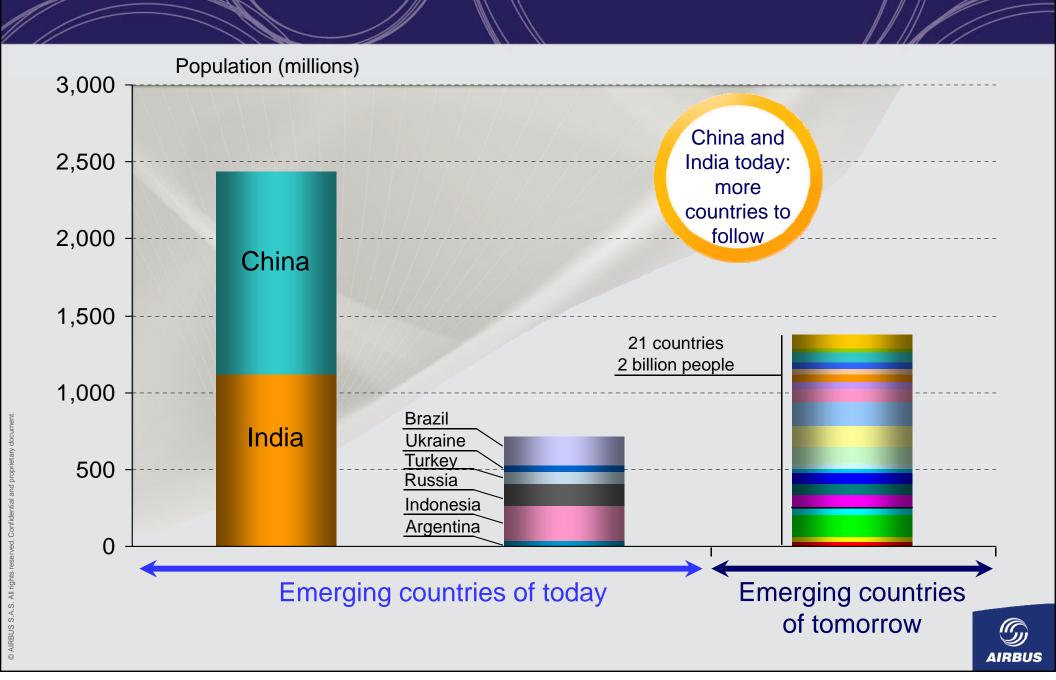
Share of BRIC countries, units and business volume of new delivered aircraft to 2028

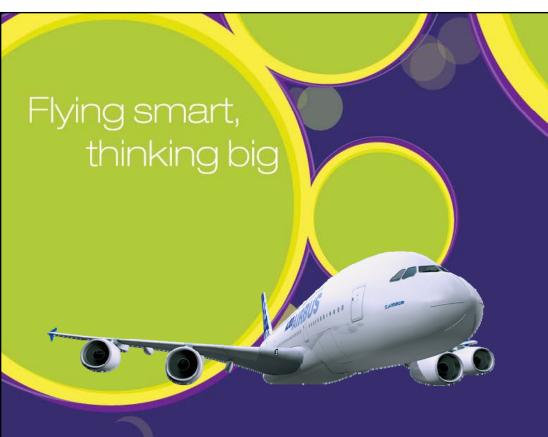




Source: September ASK traffic from OAG

## Other emerging countries as big as China and India combined





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