## **A380: Designed for LAX**

#### The Environmental Benefits Of the New Larger Aircraft



**Presented by** 

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## It's great to be back in LAX...





## A380 First of the two visits in March 2007





## The A380 capacity change in context

The revolution of 1970 707-320B to 747-100





#### **Evolution in the 21st century** 747-400 to A380



## A380 Benefits

#### Higher capacity

35% more passengers (passenger aircraft)

#### Massive gains in economics

- 15% lower cost/seat
- > 20% lower cost/pound of cargo

#### Longer range

- More payload on critical routes
- New non-stop markets, simplified networks

#### Passenger comfort

- Almost 50% more cabin floor volume
- More space per passenger





## A380 – dimensioned for the future



A380 upper deck: true wide body comfort A380 main deck: the widest cabin ever More space per passenger than a 747



# Internationally recommended balanced approach to airport noise reduction





## 20dB airport noise reduction = 75% quieter!



#### Environmental pressure: noise regulation



Continuous environmental pressure: the A380 had to bring a step change in environmental friendliness



## Technology for lower noise



Performance



- Better climb performance and lower approach speed
- Automated and customised noise abatement procedure for take off for further noise reduction



#### 85 db noise contour from LAX at MTOW



## 85 db noise contour for a 5,000 nm mission



#### Reducing noise at departure ICAO standard procedures



#### ICAO defined two Noise Abatement Departure Procedures (NADP):

- which optimise noise and reduce impact in the airport vicinity
- by optimising aircraft speed, configuration and engine thrust



#### Reducing noise at departure The A380 Airbus Departure Analysis Software



## The A380 is the quietest large aircraft



#### A380 – The quietest in its class



Noise levels relative to the London "Quota Count" system



A380 produces half the noise generated by the 747-400



#### A380 – The lowest emissions





Setting a new standard for the environment



### Conclusion: The A380 double noise benefit

## The capacity effect

• With 35% more capacity than the 747-400, the A380 allows airlines to cater for growth with fewer additional movements

## The technology effect

 The A380 is an all new design benefiting from technological advancements in noise reduction, leading to halve the acoustic energy of a 747-400



## A380 entry into service October 25, 2007





## 21<sup>st</sup> Century flagship



#### SIA A380: comfort, space and luxury



Singapore Airline Suites A cabin class **beyond** First class New Business Class The world's **widest** B/C seat

New Economy Class More personal **space** 

UD boarding Quietest cabin Special lighting features New version of KrisWorld IFE: eX2



A dream becomes reality



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