Presented by

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Vice President Cabin Innovation and Design

BNDC > industrial design
ECD > cabin development



### Creating and Sustaining Cabin Innovation

DGLR Hamburg, 17.11.05



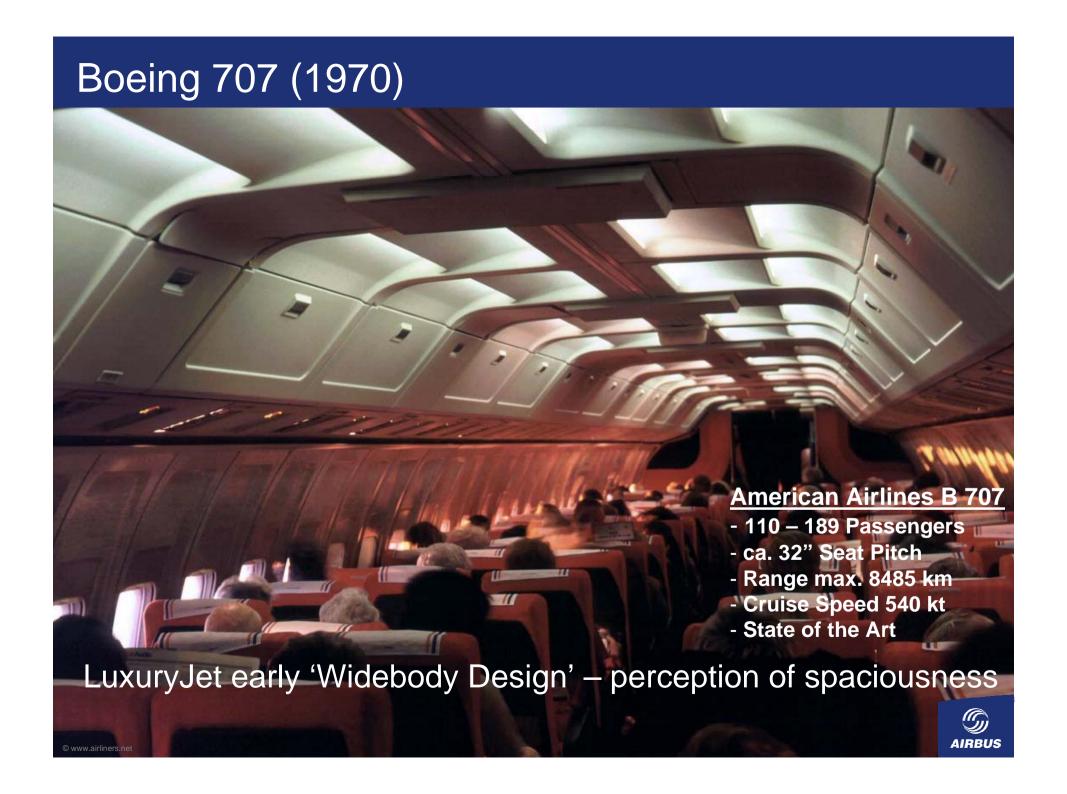
## Creating and Sustaining Cabin Innovation



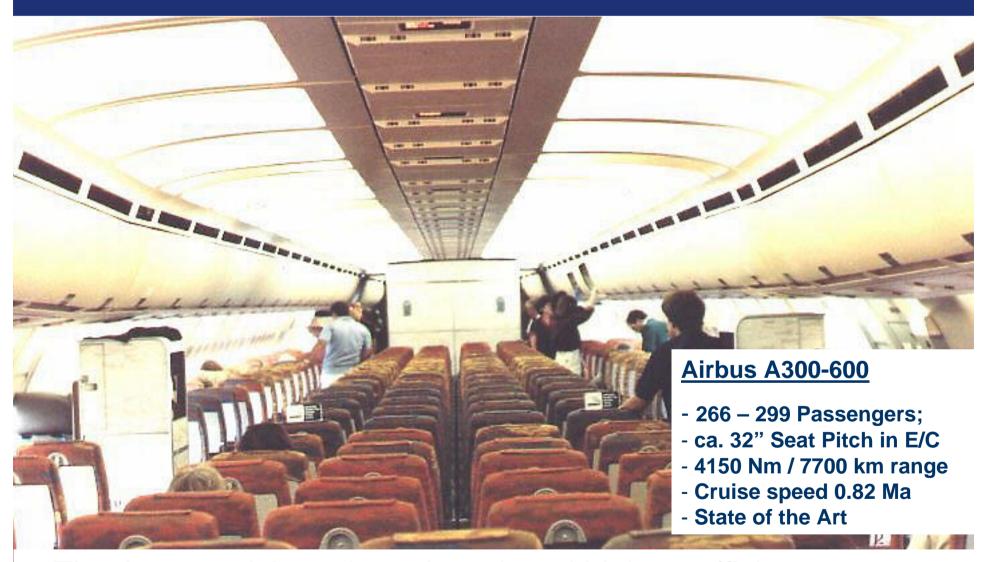


## History of the Aircraft Cabin

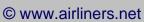




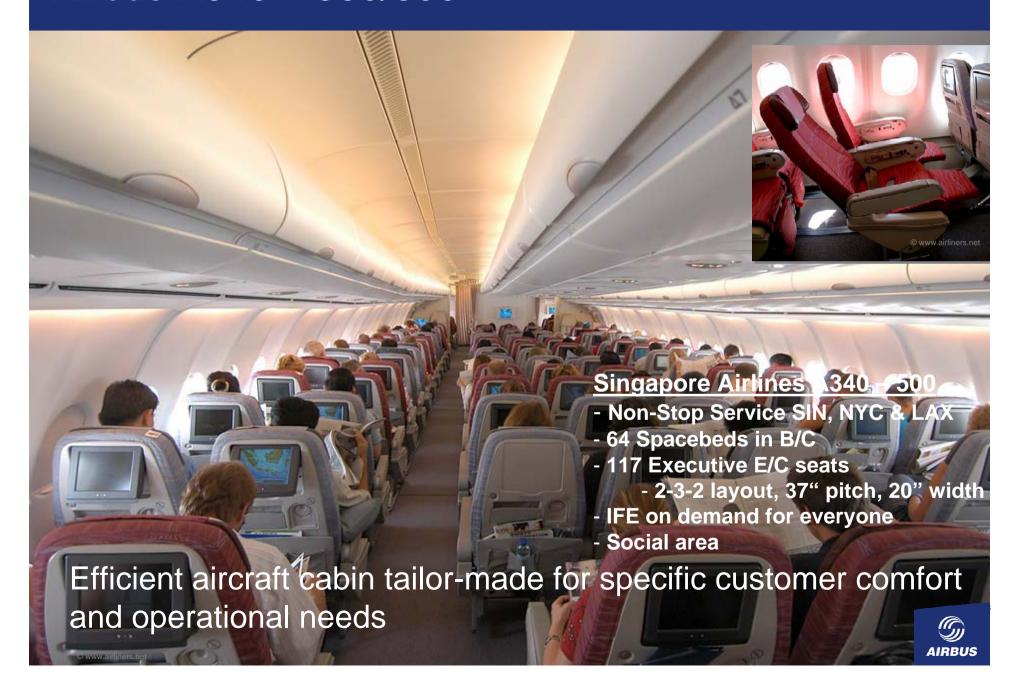
### Airbus A300-B2K



The A300 and A310 have introduced highest efficiency – first wide body twin engine aircraft.



### Airbus A340 – 500/600



## As time goes by...











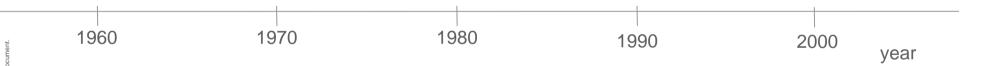


Focus on Comfort & Luxury





Focus on Comfort & Efficiency



Propeller Era Jet Aircraft Widebody / Turbofan Aircraft **Market Liberalisation** 

?

Passenger Volume & Competition

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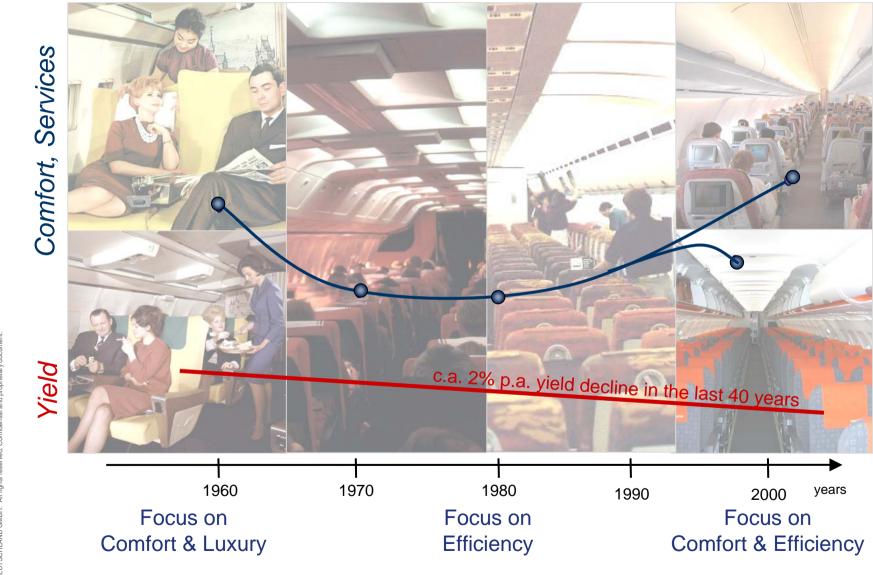
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## As yield goes down...





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## Creating and Sustaining Cabin Innovation



### The Airbus Innovation Circle

#### Airbus 'input feeding' methodology to meet efficiency and passenger demands

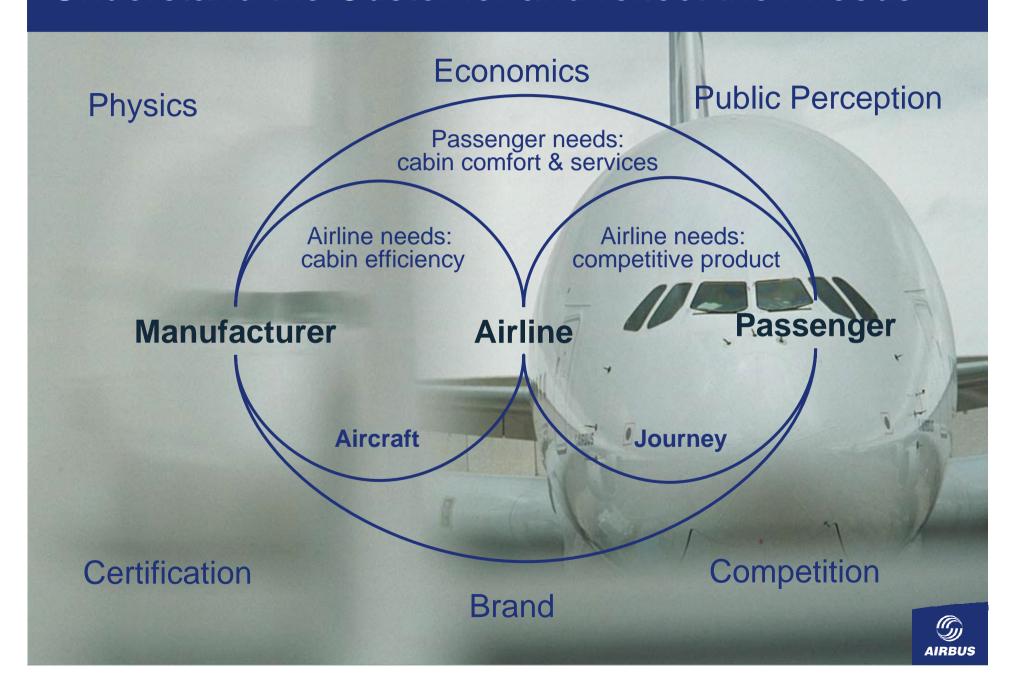
qualitative & quantitative market research; customer focus groups integrated and concurrent development cabin excellence as AIRBUS trademark anticipate the needs of airlines Passenger scientific input; and their passenger **Product Suppliers** university implants; trends from Philosophy alternative & industries **Brand Experts AIRBUS** Strategy Designer Technology **Architects** out of aviation creating platforms **Aviation Industry** box thinking / for technology scouting challenge for innovation using small spaces input provided and perceived by market

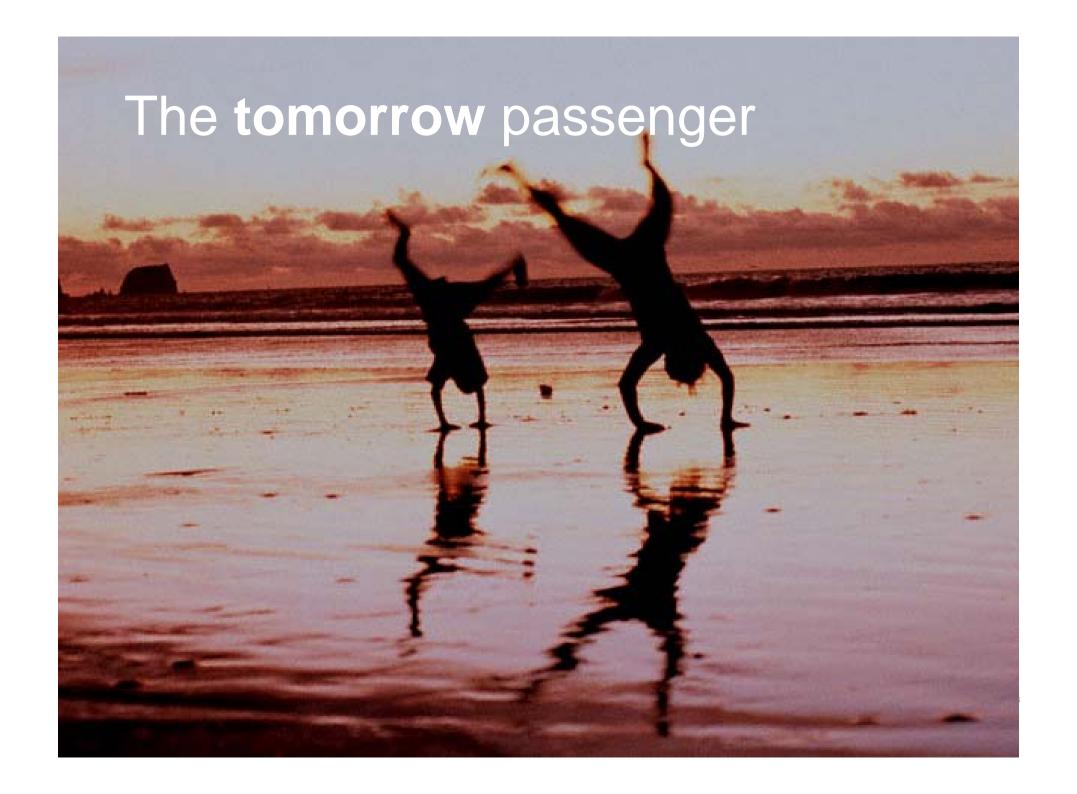
5 Page 10 AIRBUS

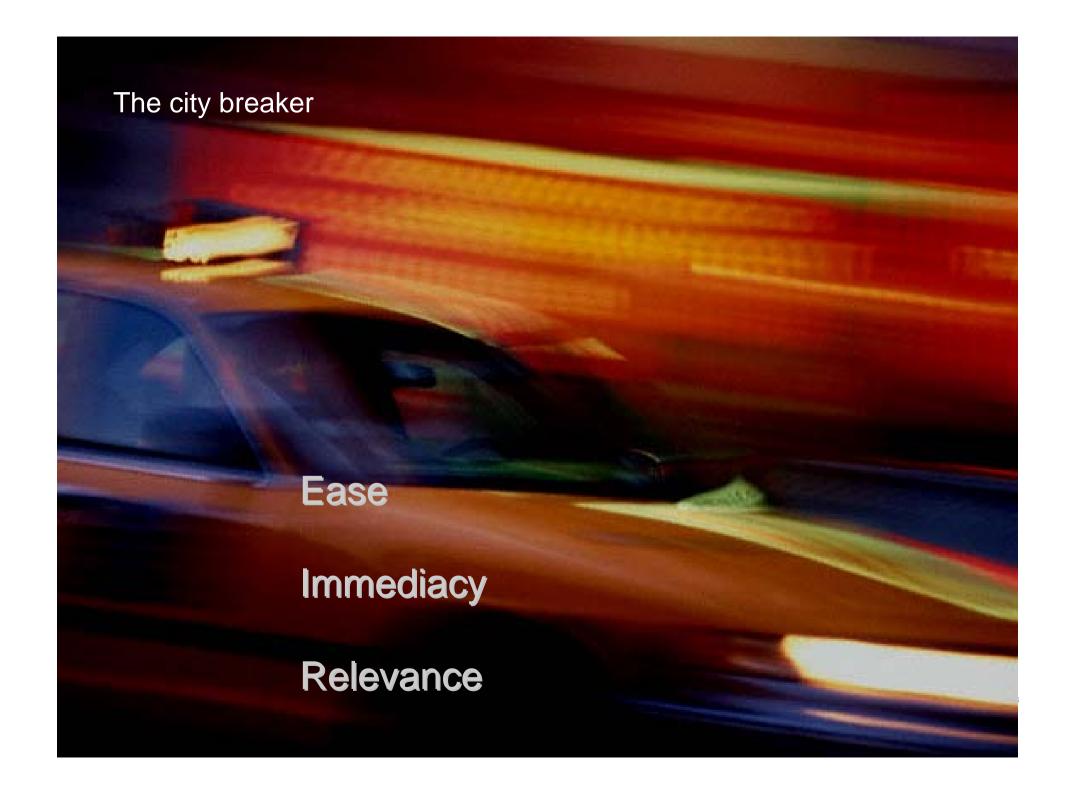
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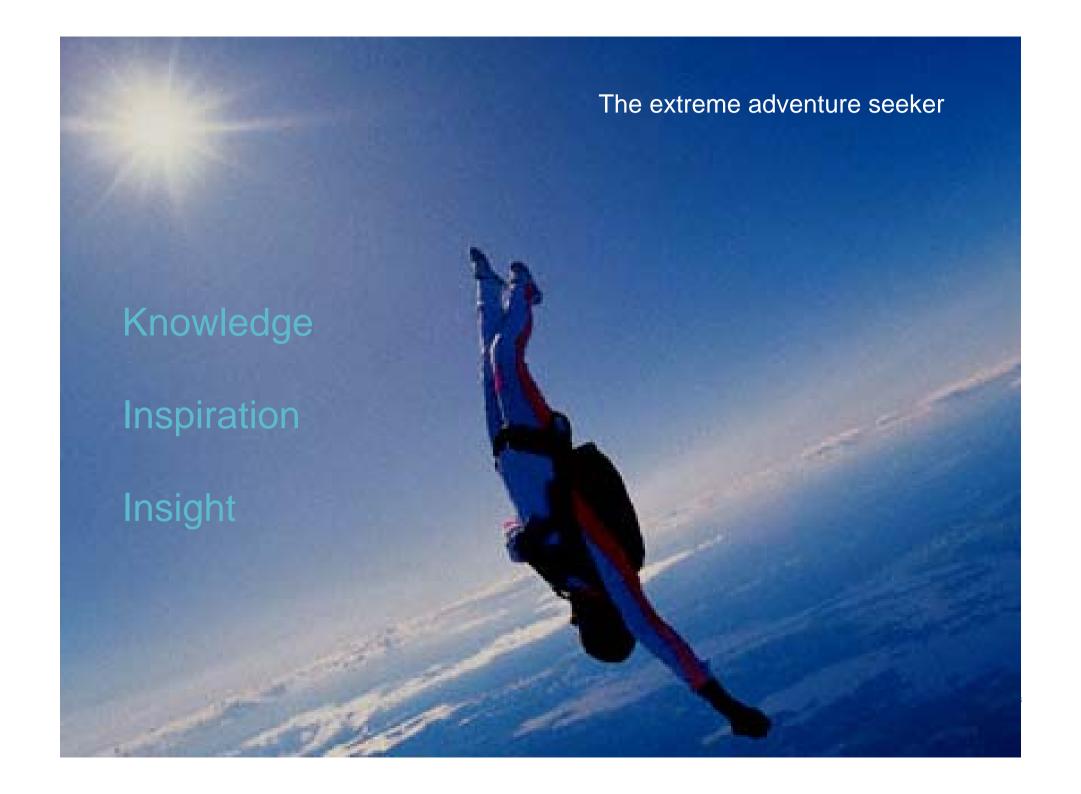
### Understand the Customer and reflect their needs



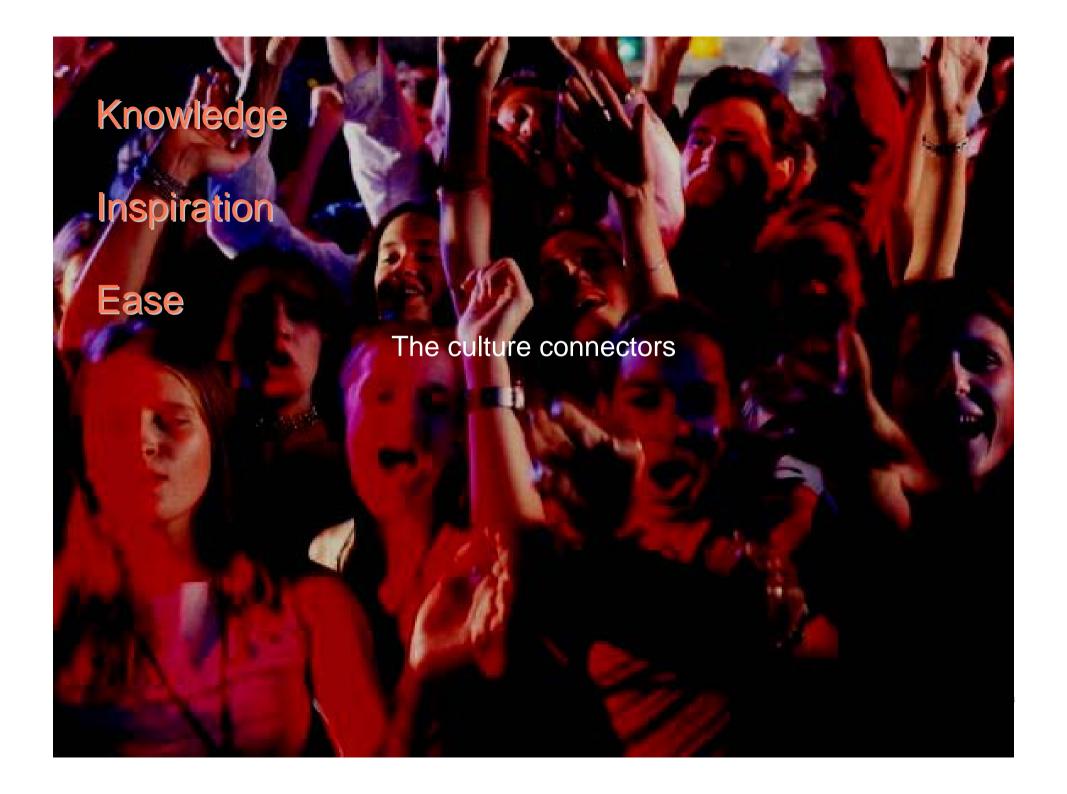


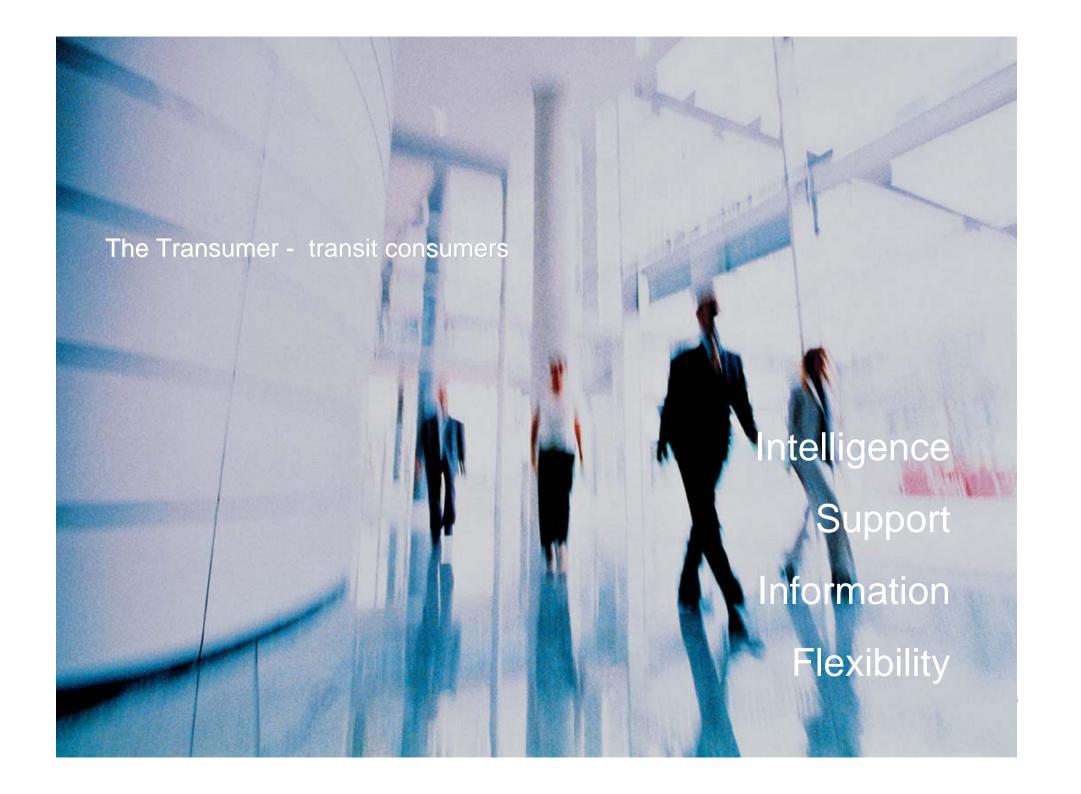


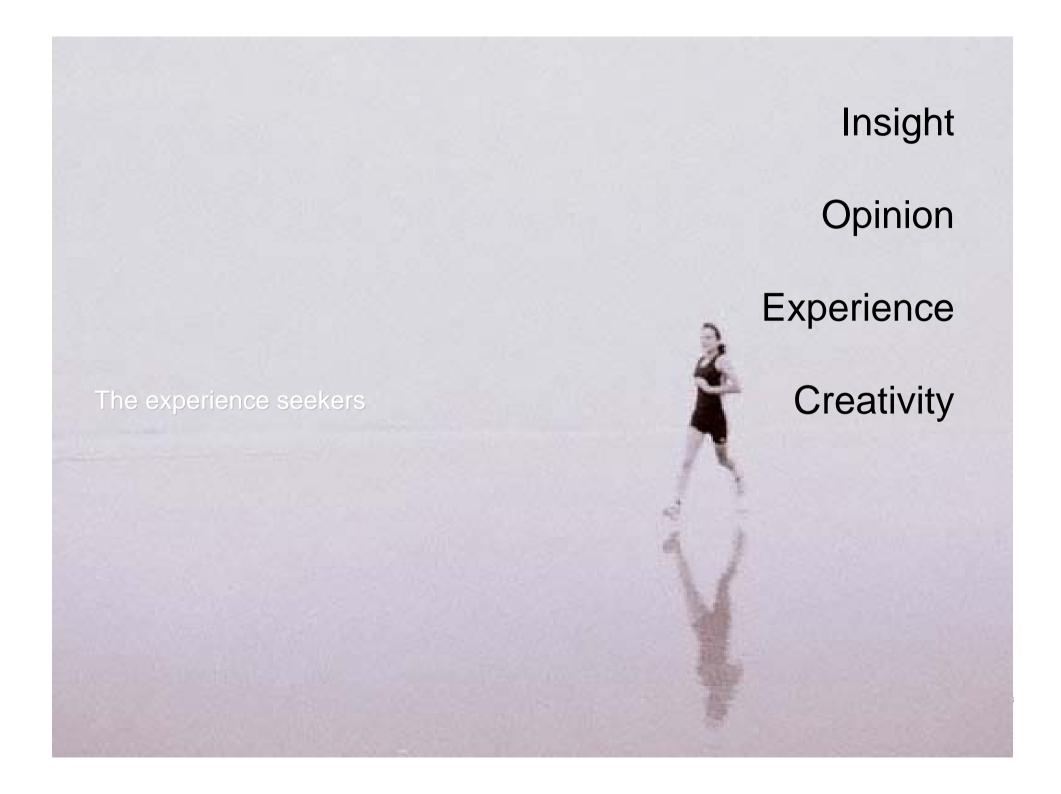






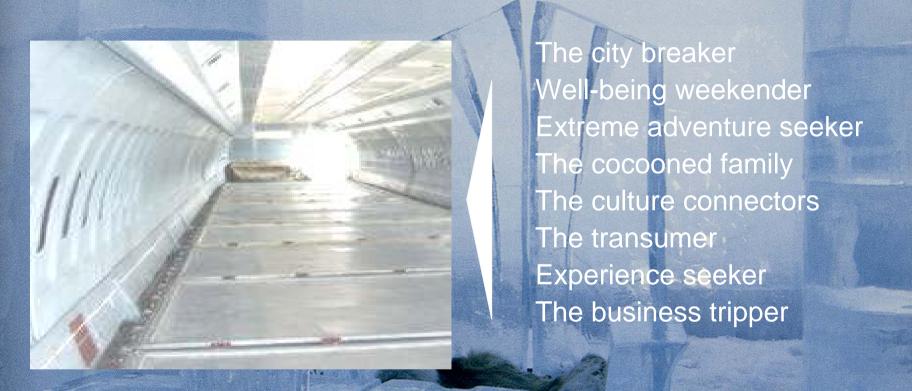








### Developing the future cabin



- Service
- Comfort

& Efficiency

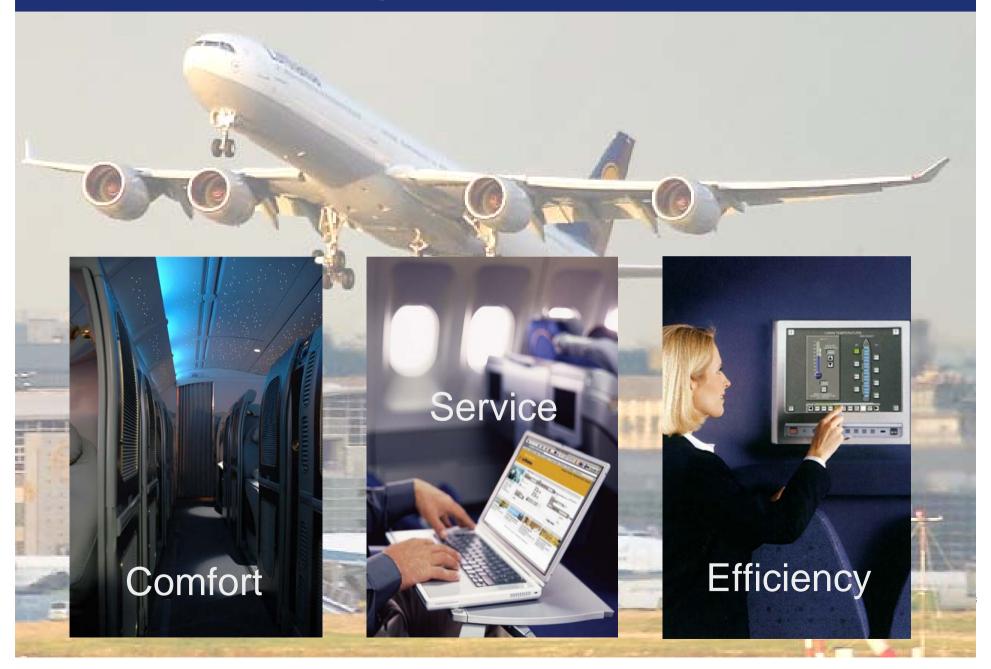


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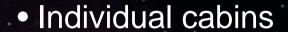
- Best in customisation
- High efficiency
- High flexibility



# Airbus Cabin Principles



## Cabin Comfort Experience



- Perception of space and design
- Enjoyment of passenger well-being
  - Cabin acoustic, illumination, ambience, social areas...
  - Relaxation with optimised seating and sleeping comfort
- Crew comfort



### Cabin Service

#### **Aeromedicine Services**

- Onboard medical corner
- Provision for telemedicine application



#### Maintenance Services

- Ready to match customer operation model
- Enhanced aircraft health monitoring
- Aircraft commonality

### **Communication Services**

- Passenger information
- ▶ Email, Internet, Intranet
- Crew Communication Management
- Air Ground Communication

#### **Entertainment Services**

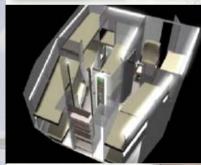
- **AVOD**
- Gaming
- ▶ Live TV
- ▶ Reliability



### Cabin Efficiency









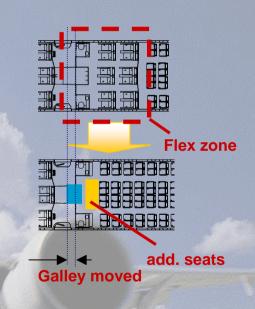
- Efficient crew working environment
- Optimised operational flexibility
- Easy reconfiguration
- Maximized revenue space

(Internal Stretch, Flex Zones)

Improved cabin operations

(TAT, Maintenance)

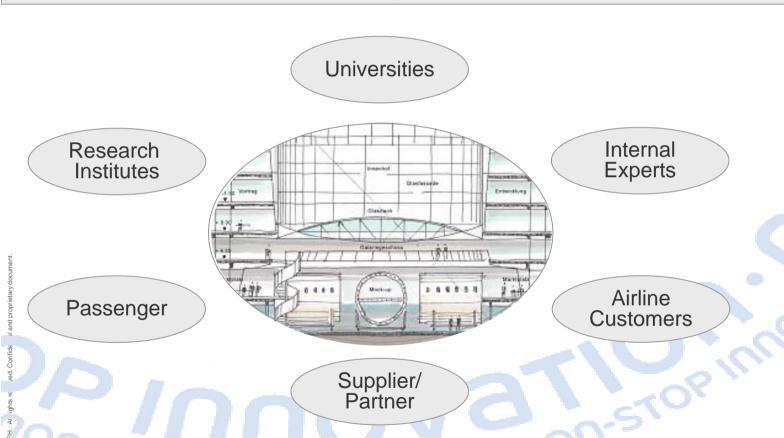
Well proven aircraft family concept





## Cabin Innovation Center (CIC)

Most attractive marketplace for Airlines to do ,one stop shopping' ...from virtual reality... ...to latest supplier innovation...



A unique Market Place is the origin for Cabin Innovation.

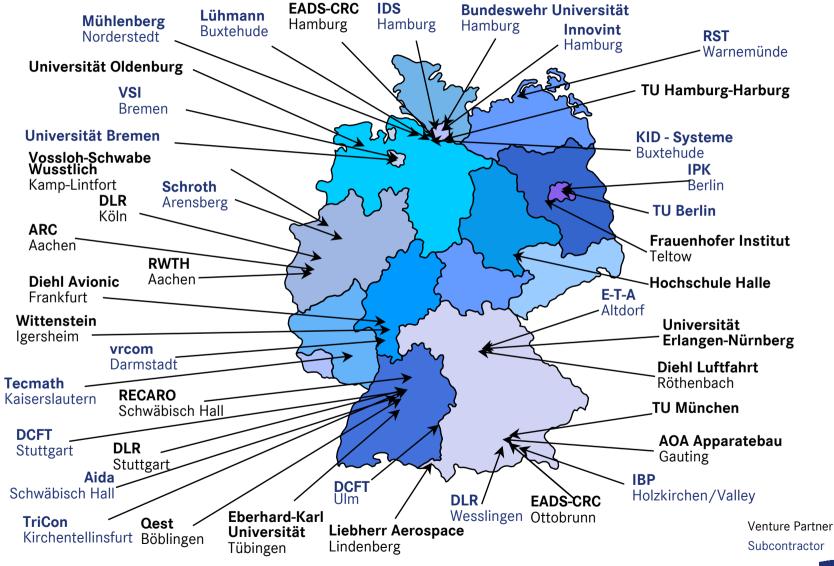


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7. Jember 2005

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### KATO Project – Partners & Subcontractors



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### Airbus' call: Join the CabiNet!

### Support the Cabin & Cargo Technology Network clusters:

- ▶ Cabin Architecture & Design
- Supply, Safety & Cargo Systems
- ▶ Cabin Electronics & Communication
- ▶ Cabin Materials, Manufacturing & Assembling
- Others:
  - Cabin Electrical Power Management, Cabin&Cargo Maintenance & Health Management, Maturity & Testing, Security

#### CabiNet as "Think Tank" to ...

- > ... scout emerging technologies
- ... discover & develop new radical concepts

#### Cluster Workshops for ...

> ... Innovation presentation & selection



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Cabin
Architecture
& Design

Cabin
Supply,
Safety &
Cargo
Systems

Cabin
Electronics &
Communication

Cabin Materials, Manufacturing & Assembling Others:
Cabin Power,
Maintenance &
Health Management
Maturity & Testing,
Tools

**Validate** 

**Develop** 

**Understand** 

**Discover** 

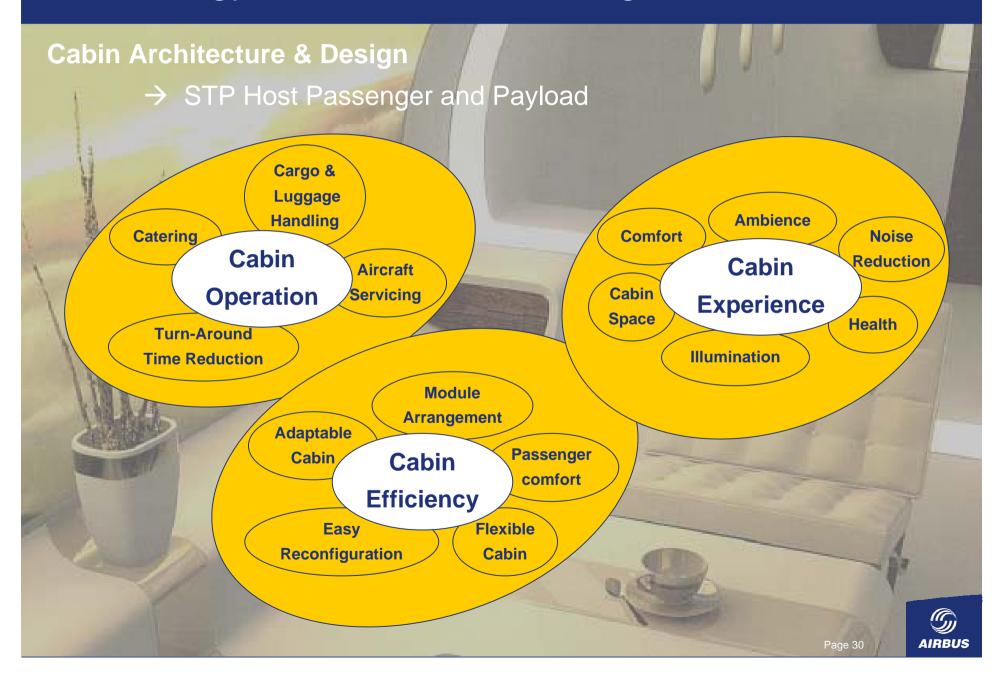


Technology Scouting & Basic Research

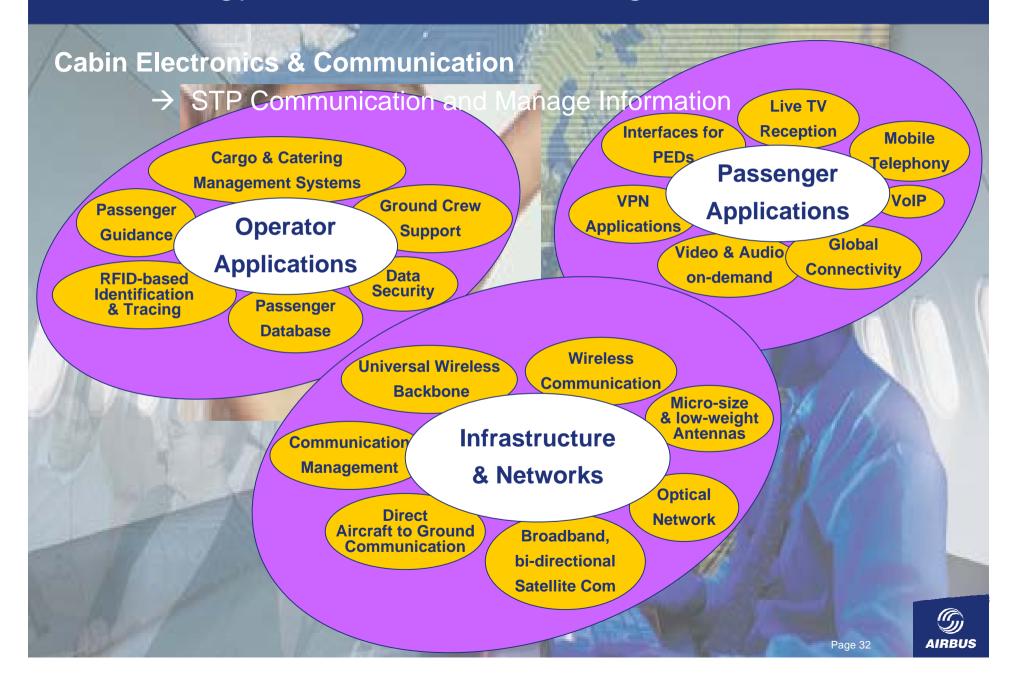
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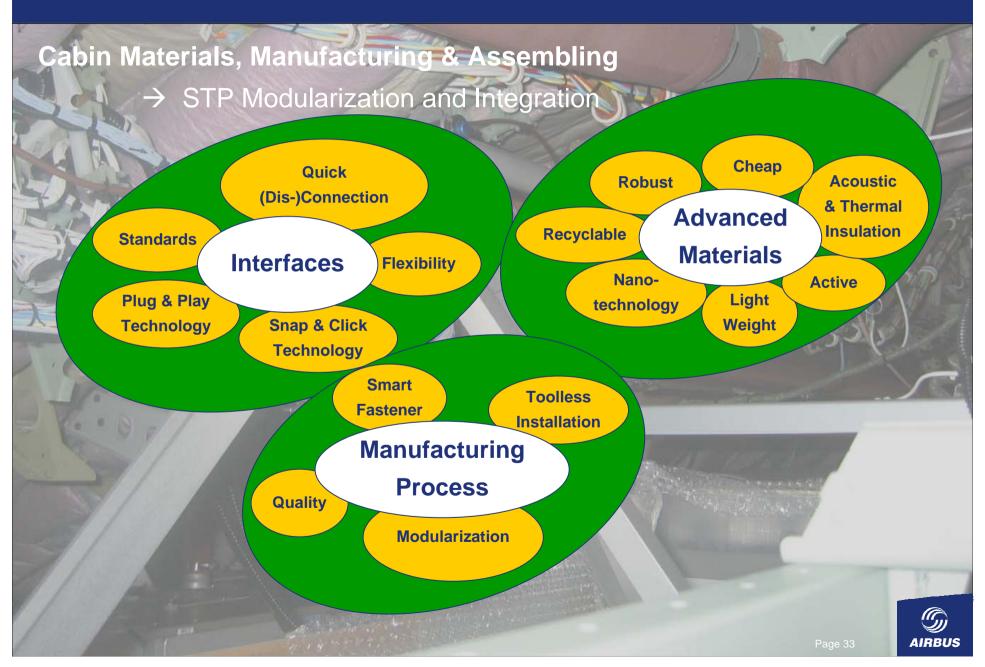
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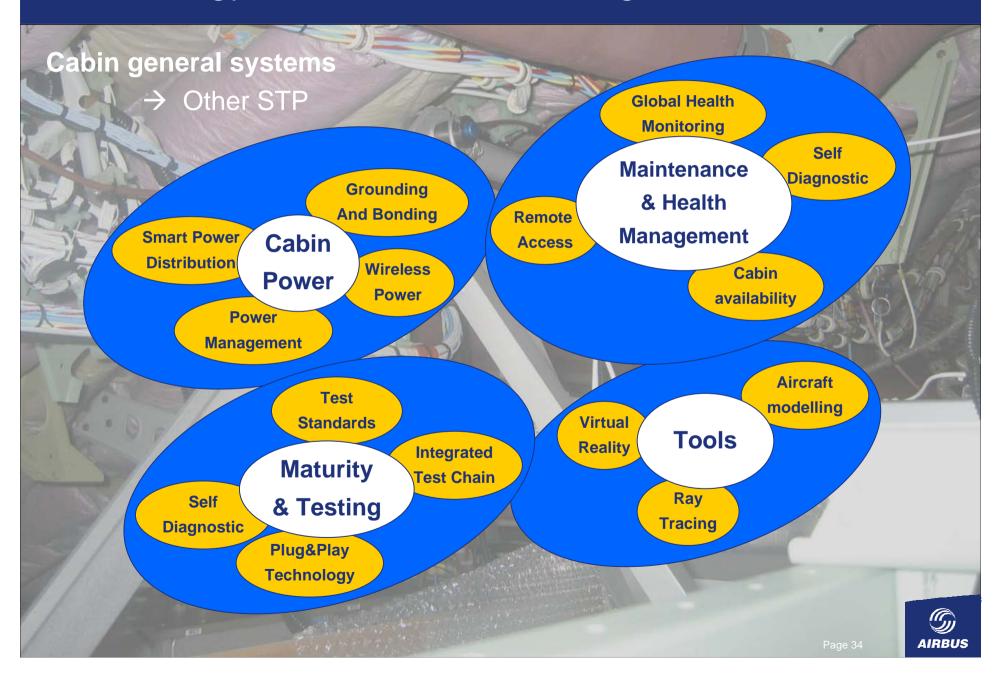
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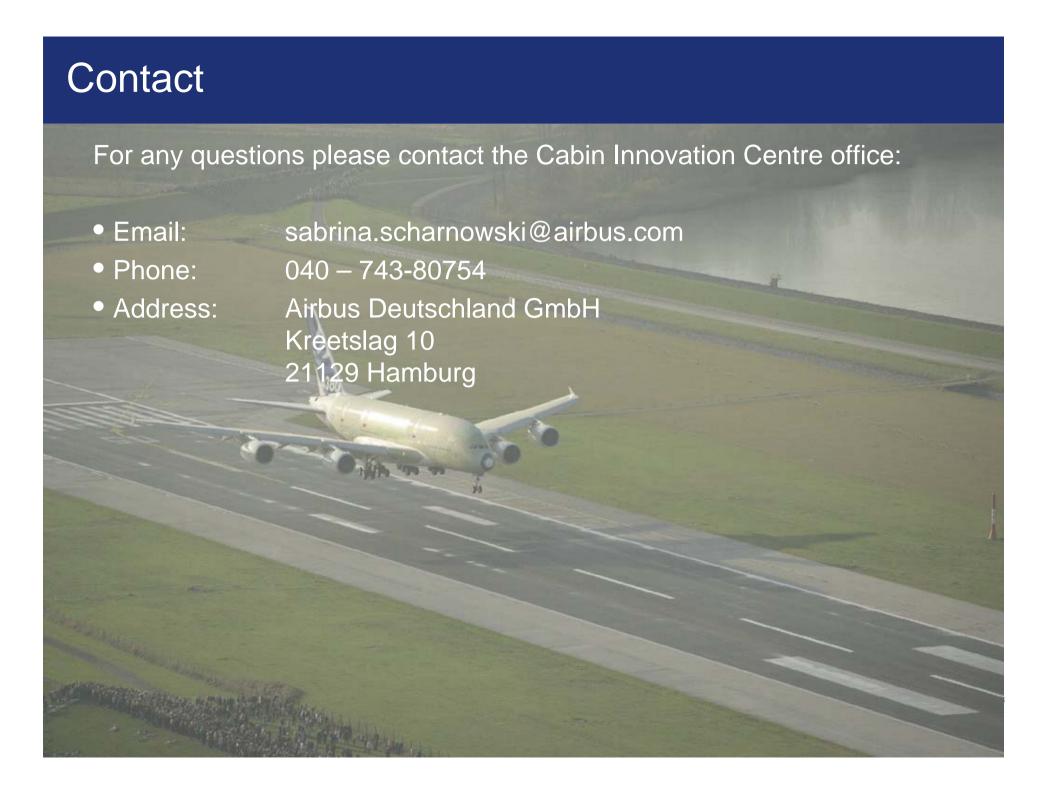






### Conclusion





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