







Verein Deutscher Ingenieure Hamburger Bezirksverein e.V. Arbeitskreis Luft- und Raumfahrt

Invitation to an RAeS lecture in cooperation with the DGLR and VDI

# Corporate Jet Cabin Evolution David Velupillai, Marketing Director, Airbus Corporate Jets

Lecture followed by discussion

Entry free!
No registration required!



Date: Thursday, 1 September 2016, 18:00

Location: ZAL TechCenter

Hein-Sass-Weg 22, 21129 Hamburg



Airbus markets corporate jets derived from all of the aircraft in its modern family, giving customers a comprehensive spread of sizes and ranges to suit their needs. Corporate jet customers are essentially big companies, billionaires and governments. They are most interested in two things - the ability to fly the mission and the cabin – unlike in the airliner world, where it is all about economics. So what customers get in the cabin – in terms of cross-section and floorspace – is of great interest, because it directly affects the lifestyle that they can take into the sky. Available cabin space and furnishing have evolved over time, with today's corporate jets delivering a much larger and more sophisticated environment than early jetliners. Airbus' ACJ320 Family has the widest and tallest cabin of any business jet, while being similar in size externally. So it is well placed to deliver more of the comfort, space and freedom of movement that customers want, including offices and lounges, conference and dining areas, bedrooms and bathrooms. For customers that want even more comfort, capacity and capability, Airbus offers VIP versions of its widebodies, which have the added benefit of delivering "nonstop to the world" range.

David Velupillai is a Marketing Director at Airbus Corporate Jets, and currently markets and communicates on everything from ACJ318 to ACJ380. He has a BSc in Aeronautical Engineering from Bristol University, worked in the design office of Hawker Siddeley Aviation, Hatfield, and was a Technical Editor of Flight International magazine. A 30 year veteran of Airbus, he worked for many years in Airbus press relations in Toulouse, sharing in, and communicating on, the birth and evolution of all Airbus aircraft.

#### Edited version of original presentation

Download from http://hamburg.dglr.de www.raes-hamburg.de



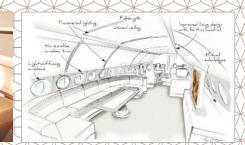
Airbus Corporate Jets
David Velupillai, Marketing Director

Corporate jet cabin evolution

Space travel on another plane

September 2016

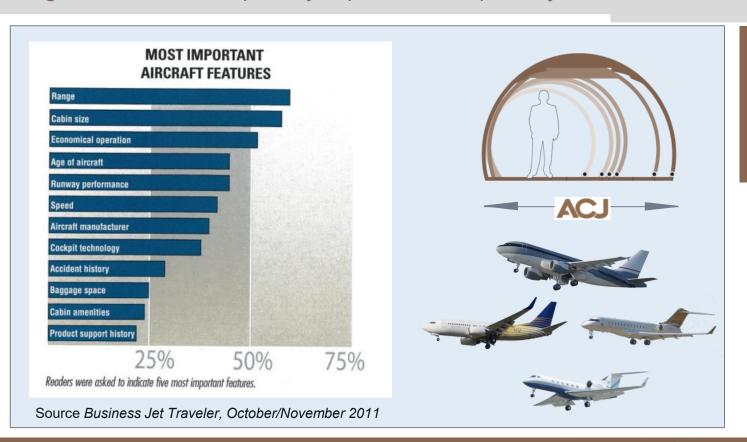








#### Range and cabin are especially important to corporate jet customers

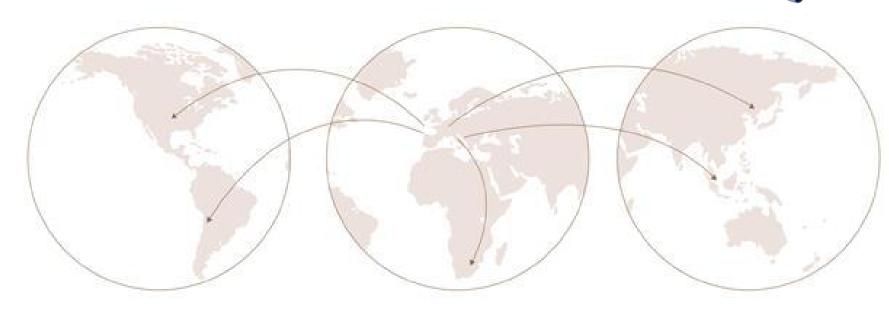


Bizjet features

Having comfort and being in control are key

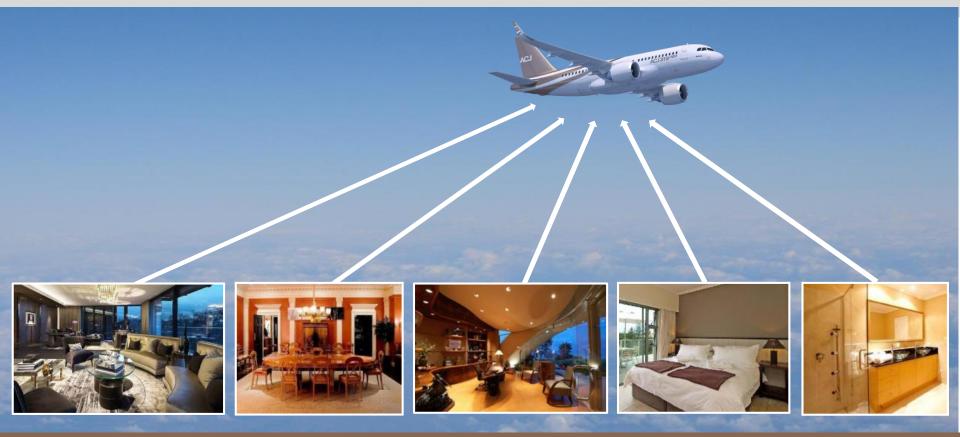








# Customers want to give wings to their lifestyle

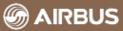






### Companies may want to fly their customers and business partners





#### Individual customers might want to travel with family and friends





#### Governments often want to fly large delegations with senior advisers and support staff





#### Corporate jet customers are companies, individuals and governments

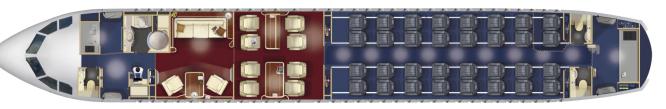
#### Companies

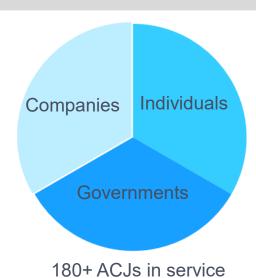


#### Individuals



Governments









#### Customers want practical cabins, rather than exotic ones















# Customers want to buy modern products that are good investments



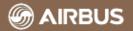




#### Reliability is especially important to corporate jet customers







# How cabins have evolved



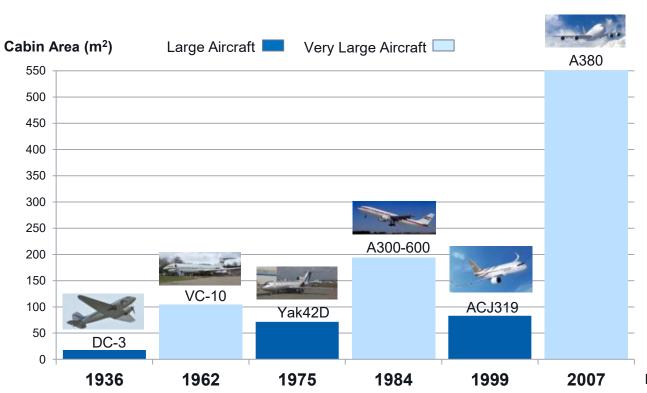








#### Corporate aircraft cabins have got bigger



#### Size matters

More comfort More space More freedom

Entry into service of aircraft type





# Douglas' DC-3 led corporate cabins in the 1930s







#### Vickers' VC-10 brought new standards of jet comfort in the 1960s









\* Visitable at Brooklands Museum, Weybridge, London





#### Russia's Yak 42D entered service in the 1970s











### Airbus' A300-600 brought widebody corporate jet comfort in the 1980s















#### Airbus' ACJ320 Family introduced the widest and tallest corporate jet cabins in the 1990s















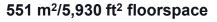
Cabin designed by Alberto Pinto





#### Airbus ACJ380 offers the ultimate in comfort and space















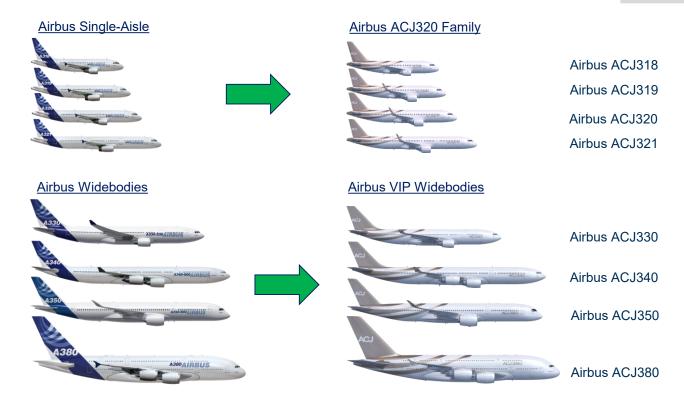








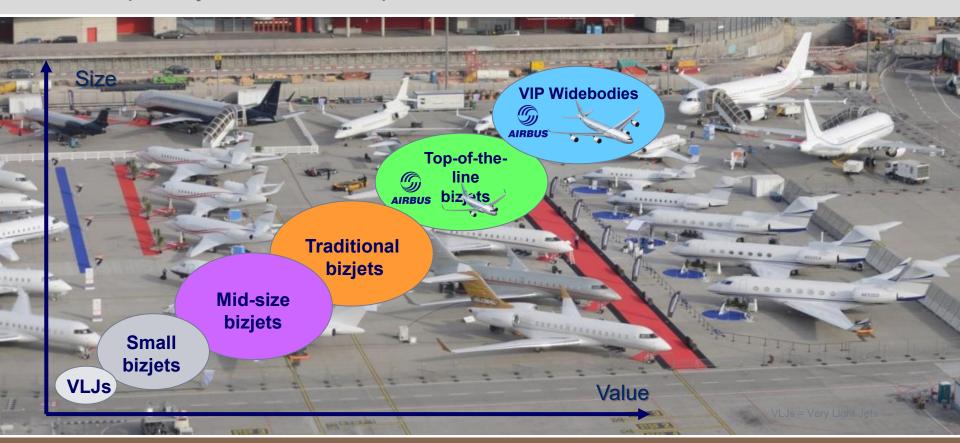
#### Airbus corporate jets come from the world's most modern aircraft family



#### Heritage

Airbus corporate jets deliver more. By design.

#### Airbus corporate jets are the new top-end of the market







#### Airbus only competes at the top end of the market

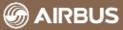




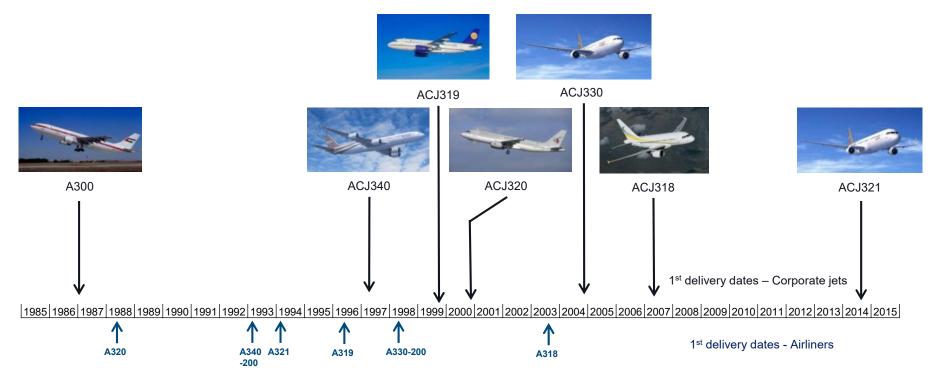








#### Airbus corporate jets have evolved into a complete family

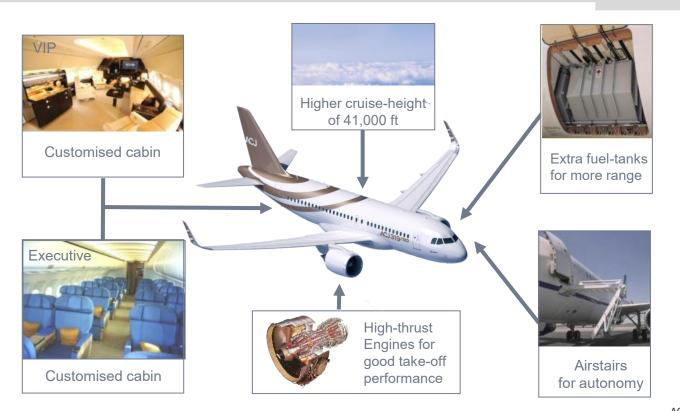


Airbus corporate jet delivery dates are for outfitted versions





#### Customised cabin & other features adapt Airbus ACJ320 Family for corporate jet role



#### **More features**

Flying farther. Flying higher. Greater autonomy.

ACJ320 Family = ACJ318, ACJ319, ACJ320 & ACJ321





#### Extra fuel-tanks in cargo-holds give Airbus corporate jets intercontinental range











Most operators fly with 3 or 4 additional centre tanks (ACTs)





#### Airbus' additional centre tanks (ACTs) are easy to fit and use





Automatic in normal operation

Tanks emptied by cabin air-pressure

Bladder inside tanks ensures double-walled containment

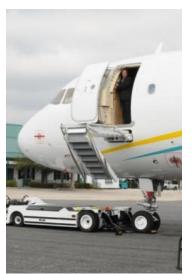
Designed & certificated by Airbus



#### Airbus ACJ320 Family features airstairs for airport autonomy











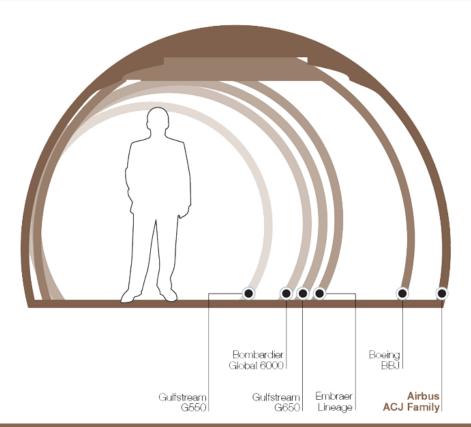
Airstairs can be operated from inside and outside\* the aircraft

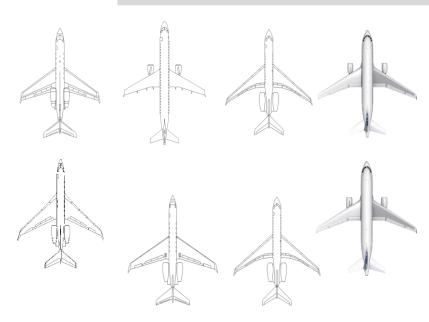
\* Via control-panel in nose landing-gear bay





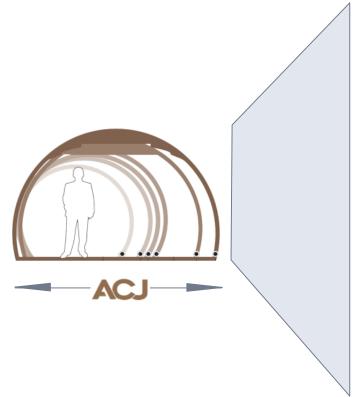
#### Airbus ACJ320 Family's wider & taller cabins give customers more lifestyle in the sky...





...while being similar in size externally

#### Airbus ACJ320 Family's wider cabin enables unique features











Circular tables & a passage alongside

Domed ceilings

Good-sized rooms & a proper corridor





#### Airbus corporate jet cabins can be customised to suit companies









#### Airbus corporate jets can be tailored to suit individuals





#### Airbus ACJ320 Family cabins can be customised for governments









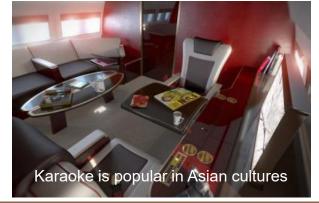


#### Airbus' Phoenix cabin-concept is customised to suit Asian preferences













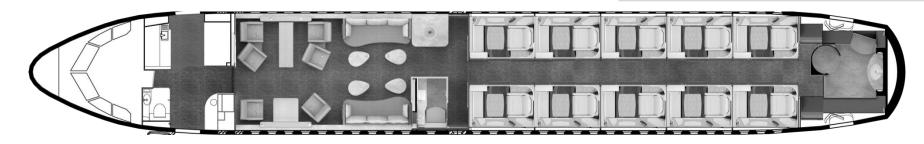
# Cabins with neutral colours, such as beige, are popular, because they are easier to re-sell







## Emirates Executive's Airbus ACJ319 is first business-jet with mini-suites



Social area



Mini-suites





Cabin designed by Jacques Pierrejean





## Airbus recently\* launched ACJneo Family, extending its role into the future



Best cabin



ACJ319400

More range





More baggage



\* May 2015





## 6 ACJneo firm orders

2 x ACJ319neo 4 x ACJ320neo







**Undisclosed** 



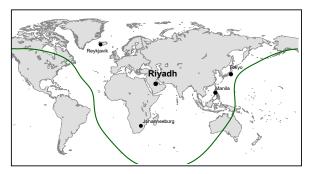




## VIP widebodies allow customers to fly more people to more places





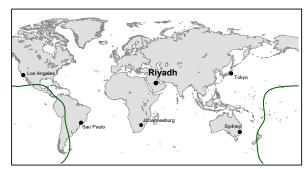


Intercontinental range



Airbus VIP widebody

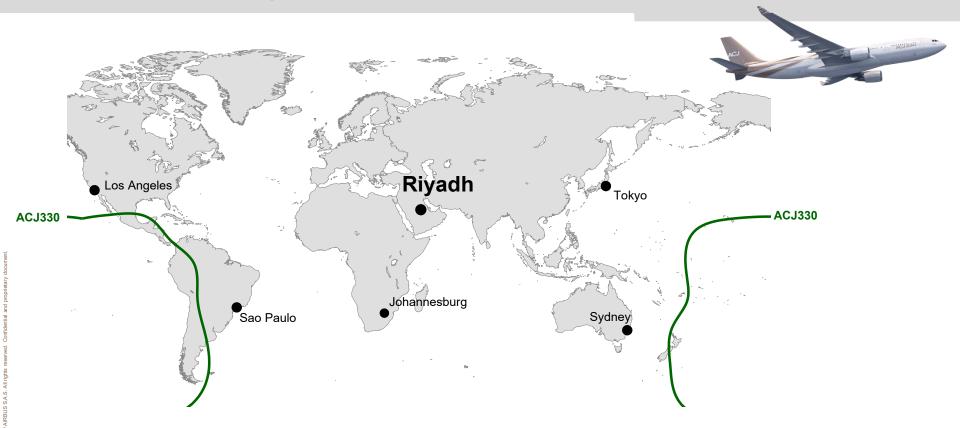




"Nonstop to the world" range



## Airbus VIP widebodies fly nonstop to the world







## Airbus ACJ330 Summit seats VIPs, advisors, guests and support staff







## Airbus ACJ330 Summit delivers spacious conference area



## **Space matters**

Conducive conferencing

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## Airbus ACJ330 Summit provides a good private office



**Space matters** 

Productive privacy



#### Customers have a wide choice of Airbus-approved cabin outfitters



# Cabins guaranteed

Airbus is only topend manufacturer with extensive experience in turnkey cabinoutfitting





#### More than 180 Airbus corporate jets are in service



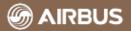
Customers

Widespread customer and operator base



180+ ACJs = 130+ Airbus ACJ320 Family + 50+ Government & VIP Airbus widebodies





#### Airbus support helps customers to get the best out of their aircraft



**6 Training Centres** 



**5 Spares Centres** 



Technical Advice 24 hr/day, 7 days/week









Single point-of-contact - C4you



Low-utilization maintenance

#### Reliability & Support

Delivered around the world, around the clock

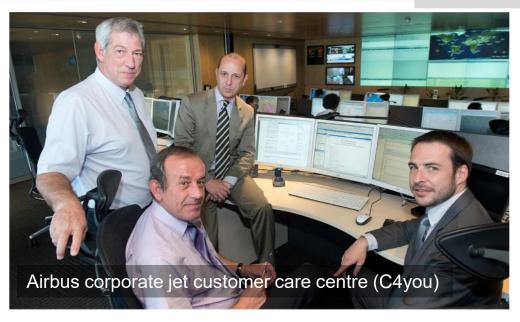


Customers & Operators





## Airbus customers also benefit from services tailored to corporate jet operator needs





**C4you hotline** 



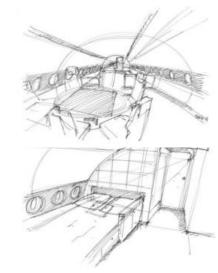
Low-utilisation maintenance programme

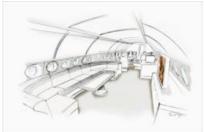


Dedicated customer-support directors

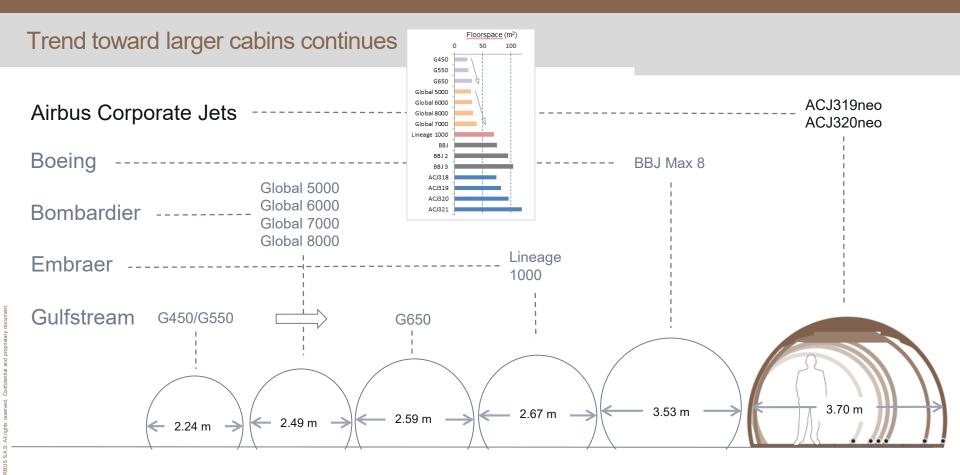


## Where cabins are going













## Busy people value simplicity as well as choice

#### Sophistication



Fully customised

ACJ319 Elite

Cost + time to complete





#### Airbus ACJ319 Elite's pre-defined cabin offers simplest and fastest solution ...











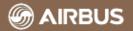




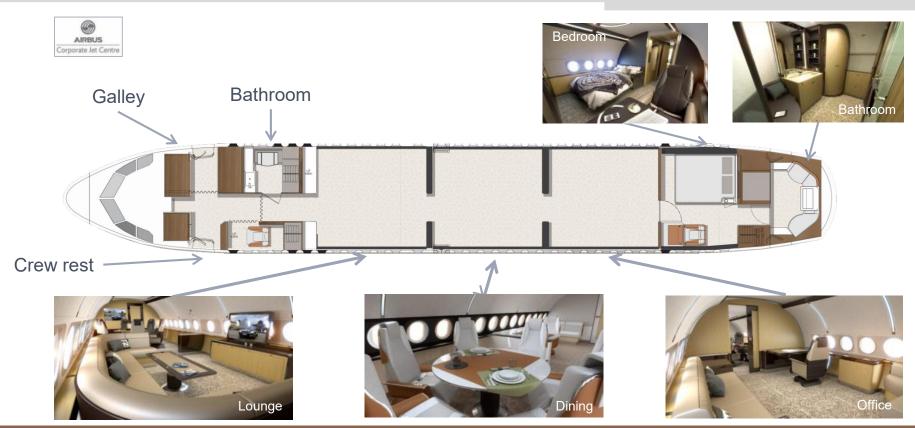


\* With bedroom





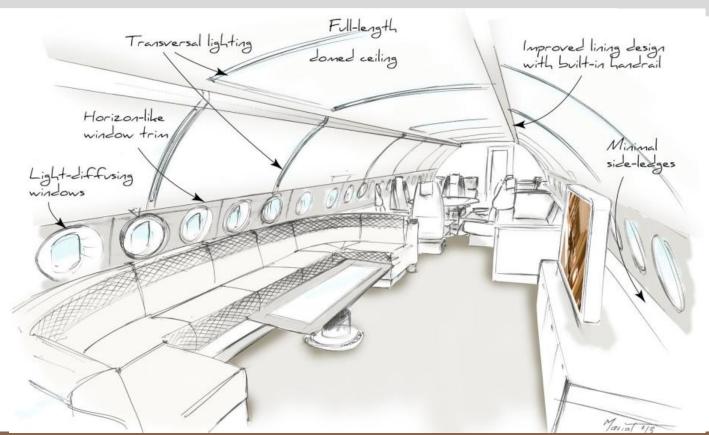
## Airbus ACJ319 Elegance offers simplicity, speed and savings via modular approach







## Airbus ACJ319 Elegance pioneers new cabin features



## Space matters

More purity
More light
More freedom







## New materials, such as carbonfibre, are helping to reduce weight





## **ACJ350** is 1st Airbus aircraft with carbonfibre fuselage skin & frames



## Easyfit concept

Peace of mind outfitting via pre-installed attachments





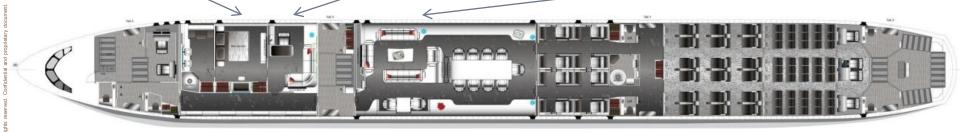


## **ACJ350** is the newest VIP widebody on the market























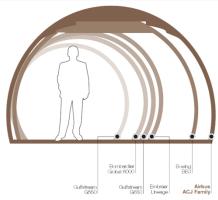


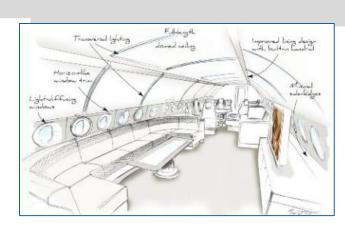




#### Conclusions









Corporate jet customers value cabins highly



Business jet cabins are getting bigger & better



Airbus is leading the way in corporate jet cabins



Reliability & support are vital for corporate jet customers



New technologies are enabling modular cabins in large jets



## Airbus Corporate Jets today



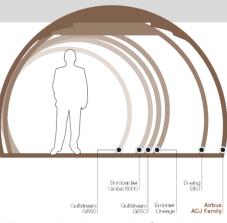
Most modern aircraft family



More than 180 aircraft in service



Intercontinental range

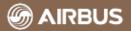


Widest and tallest cabin of any bizjet, while being similar in external size

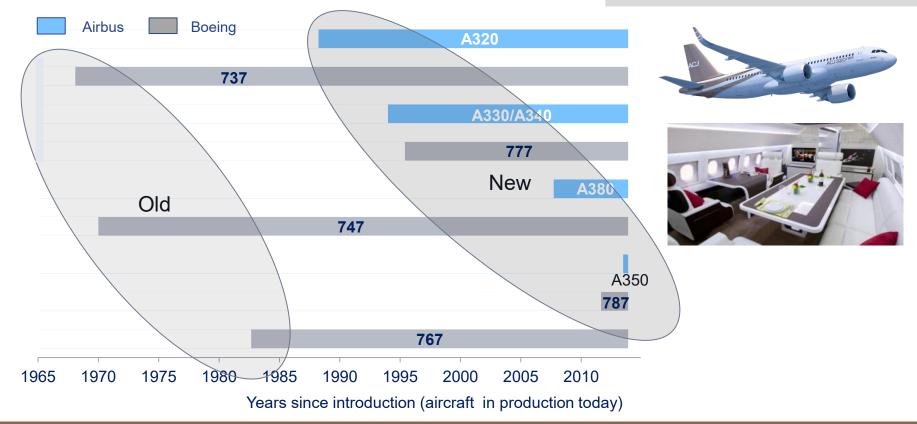


Flying on all continents, including Antarctica





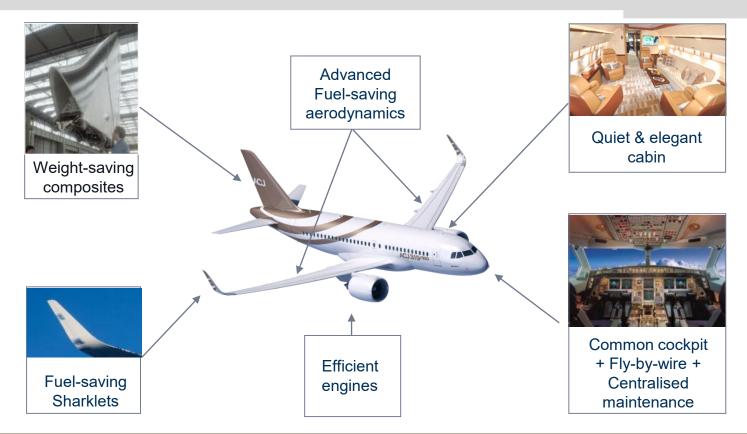
## Customers want to buy a modern aircraft that will be a good investment







#### Airbus corporate jets' modern designs bring many benefits



## More modern

More efficient. Less weight. More commonality.



#### More than 15 Airbus corporate jets are flying with VVIP charter operators





















Germany





































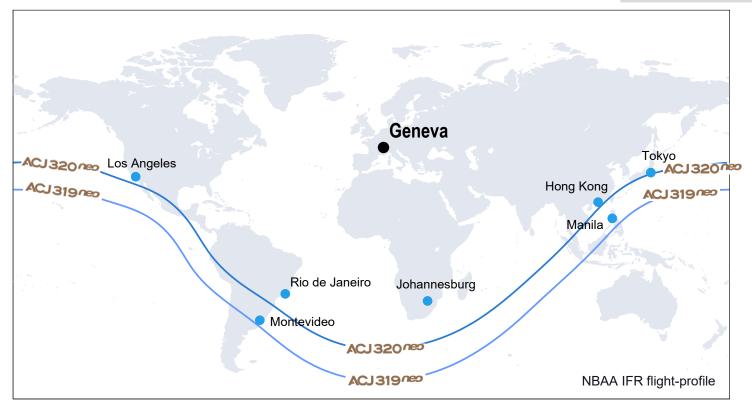








### Airbus ACJ319neo & ACJ320neo have even better\* intercontinental range





8 pax 6,750 nm/12,500 km



25 pax 6,000 nm/11,100 km

\* cf ACJ319 & ACJ320





## Airbus corporate jets are young at heart



Alibus Addo 15 qu-alicad	Airbus ACJ319 go-ahead	Jun 1997
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Airbus ACJ319 First flight	May 1999
<b>5</b>	<b>,</b>

1st Airbus ACJ319 delivery (Al Kharafi/Twinjet) No
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T Alibus Accord i restige delivery (gatar)	1st Airbus ACJ320	Prestige deliver	y (Qatar)	Dec 2000
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Airbus ACJ318 Launch	Nov 2005
/ III Dad / 1000 To Edalloll	1101 2000

1 <sup>st</sup> Airbus ACJ318 delivery	(Comlux)	May 2007
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Creation of Airbus Corporate Jet Centre (ACJC)

July 2007

1<sup>st</sup> Airbus ACJ321 delivery (Comlux) Aug 2014



