

Bertrand GEORGE - Head of BelugaXL Programme 20 March 2018

BELLUGA AURBUS



Oversize Air Transport – An historical choice



Super-Guppy

Beluga ST

BelugaXL



Oversize Air Transport – End to End solution





An airline, ATI, Airbus subsidiary since 1996

□ A fleet of 5 Beluga ST

□ A network of 11 stations

Infrastructures & processes adapted to high production rates



Why a BelugaXL ?



The Beluga ST cannot carry 2A350 wings at the same time

Beluga ST Flight Hours

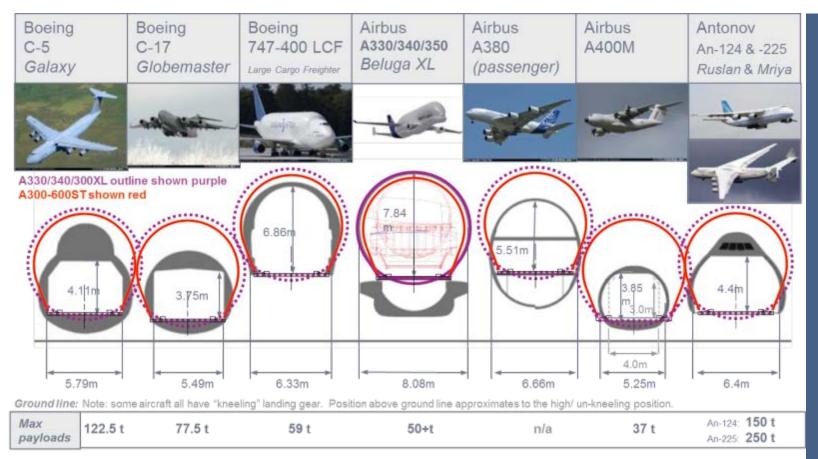
- ➤ A320 : ref
- ➤ A330 : x3
- ► A350 : x9

□ A system reaching its limits

- Up to 5 flights / day, 6 days / week
- > 10000FH in 2017
- Road and sea transport less flexible and more costly

AIRBUS

Why a BelugaXL ?



Requirements:

- ➢ 2 A350 wings
- Compatible with existing infrastructures, jigs and tools
- T/O & landing on all sites runways
- ➢ EIS in 2019

□ No existing solution on the market

...



The BelugaXL solution



□ Based on A330-200 Freighter

A metal aircraft, better adapted to transformation

The Freighter version already structurally reinforced

□ A proven track record



The BelugaXL solution



5 aircraft

□ 2 in 2019, then 1 per year

□ Laboratory for Airbus Group

- ➤ faster
- > cheaper

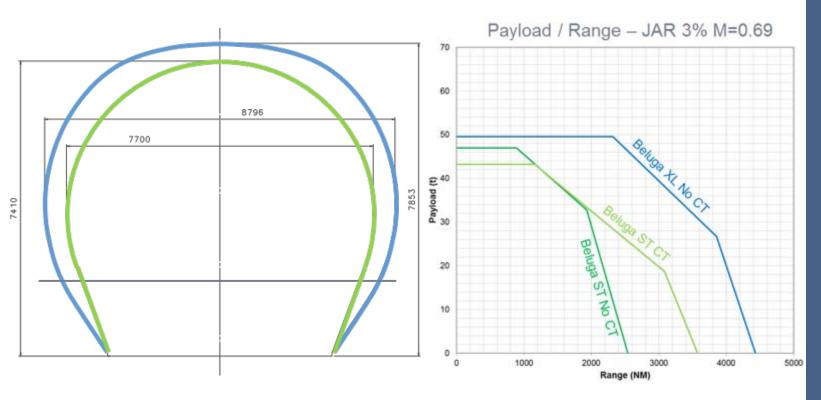


Beluga ST & BelugaXL

BelugaXL Courier area	AIRBUS BELUGA	<image/> <section-header></section-header>	
Platform A/C	A300-600R	A330-200F	
Engine	GE CF6-80C2A8	A330 RR T772B	
EIS	1995	2019	
Cruise Mach number / Max altitude	0.69 / 35000ft	0.69 / 35000ft	
Noise	Chap 4	Chap 4 / Chap 14	
Cockpit / Courier area	Cockpit for 2 flight crews + 3 jump seats	Cockpit for 2 flight crews + 1 jump seat 4 seats in courier area	



Beluga ST & BelugaXL



□ Cargo bay

- Length + 6m
- > Width + 1m
- ➢ Height + 0.5m

□ Max payload weight

- Beluga ST 47 tonnes
- BelugaXL 51 tonnes

□ Max range at max payload

- Beluga ST 900nm
- BelugaXL 2300nm

AIRBUS

Main suppliers: Major Structure & SI Suppliers



Main suppliers: Major Equipment / Systems Suppliers



AIRBUS

2 years of development



Α	R	В	U	S

End 2016, the A330 platform is ready





Moulding in L34





Cutting of A330 upper fuselage







Junction installation



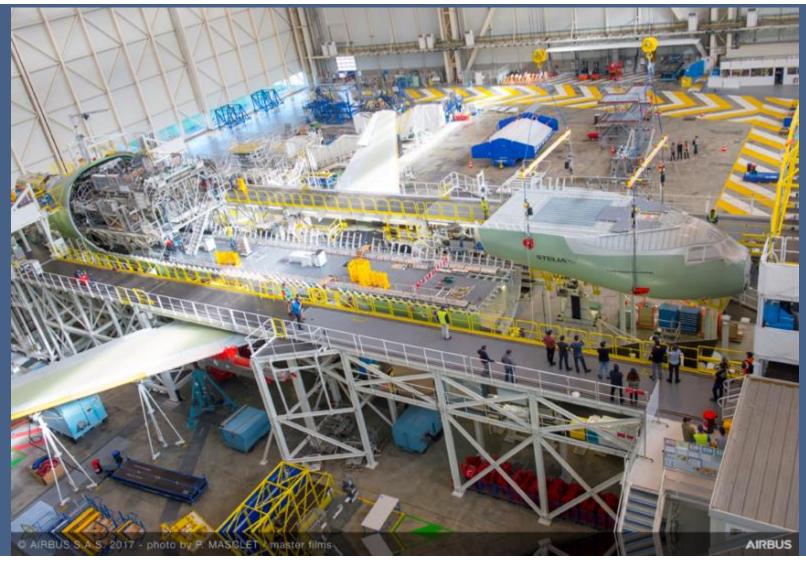




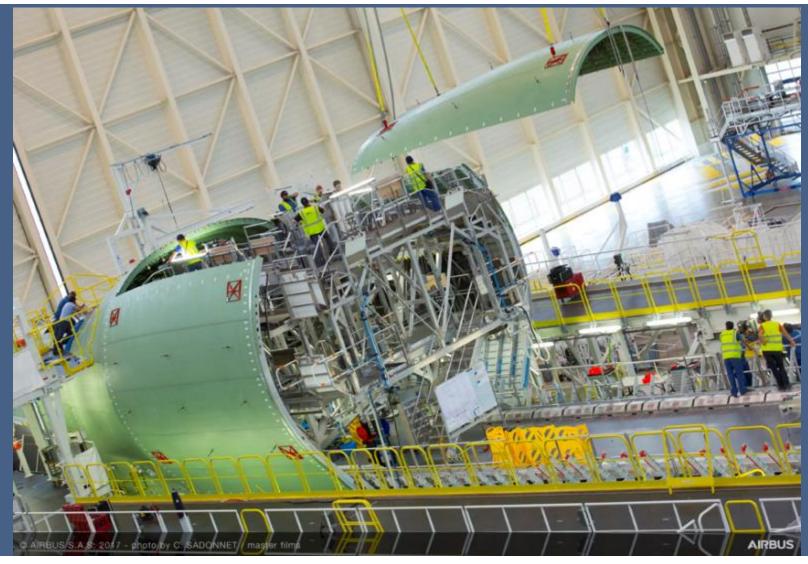












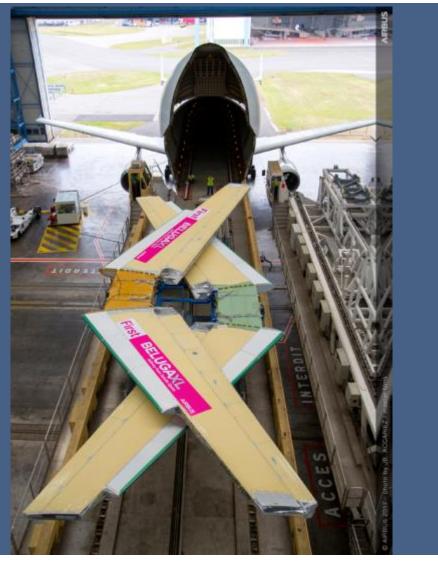




















AIRBUS

End 2017, full electrical Power/On







January 2018 - Aircraft move



□ A/C 1 moving from conversion to test station...

And A/C 2 arriving in conversion station



Last status





What's next?



Ground Tests

□ First Flight this summer

Flight Tests and Certification by mid-2019

5 aircraft by mid-2022 ...



In parallel, the airline and infrastructures are getting prepared







□ Stations adaptations

□ Broughton runway re-surfacing

□ Adaptation / development of jigs





Thank you

