



A220 Family

Program and Entry Into Service Update

AIRBUS



Airbus & Bombardier a bright future ahead

A winning partnership

The partnership opens a new era in the industry with two giants joining together the best of their product portfolio.

October 2017 Airbus and Bombardier sign historic partnership

AIRBUS

Getting the best of both organizations

Transition Overview

	TRANSITION	TO BE
Sales Marketing Contracts	AIRBUS	AIRBUS
Procurement		
Finance		
HR		
Legal		
PMI & IT		
Program		
Operations		
Engineering		
Customer Services	CSALP with Bombardier/Airbus Support	CSALP with Airbus support
		AIRBUS
		In Review
(CSD*, Field Service*, Contracts admin)		
Other services (spare parts / Training...)		

* On a case by case basis

A220

We are One Team!

Only Key Functions shown

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A220 All-new efficient design

**20% Lower fuel
burn per seat**



Advanced Materials

More efficient materials
& optimised design



Efficient Aerodynamics



New Engines

Latest technology
for the lowest SFC



Simple, robust systems

State of the art,
weight efficient



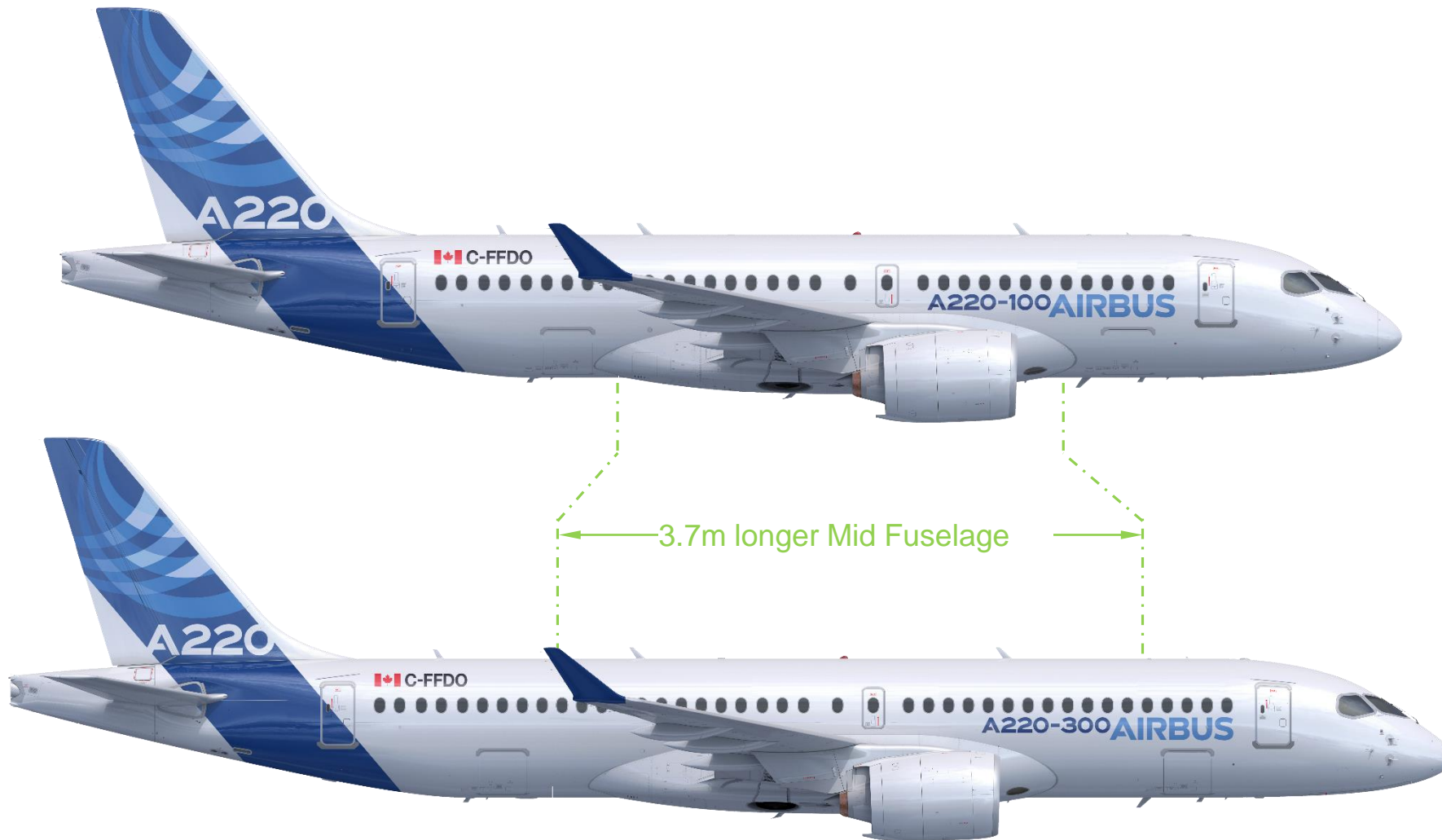
AHMS

Advanced diagnostics
capability

Compared to previous
aircraft generation

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Designed together for the highest commonality



A220 Family synergy



>99% LRU
Commonality



Common Spares

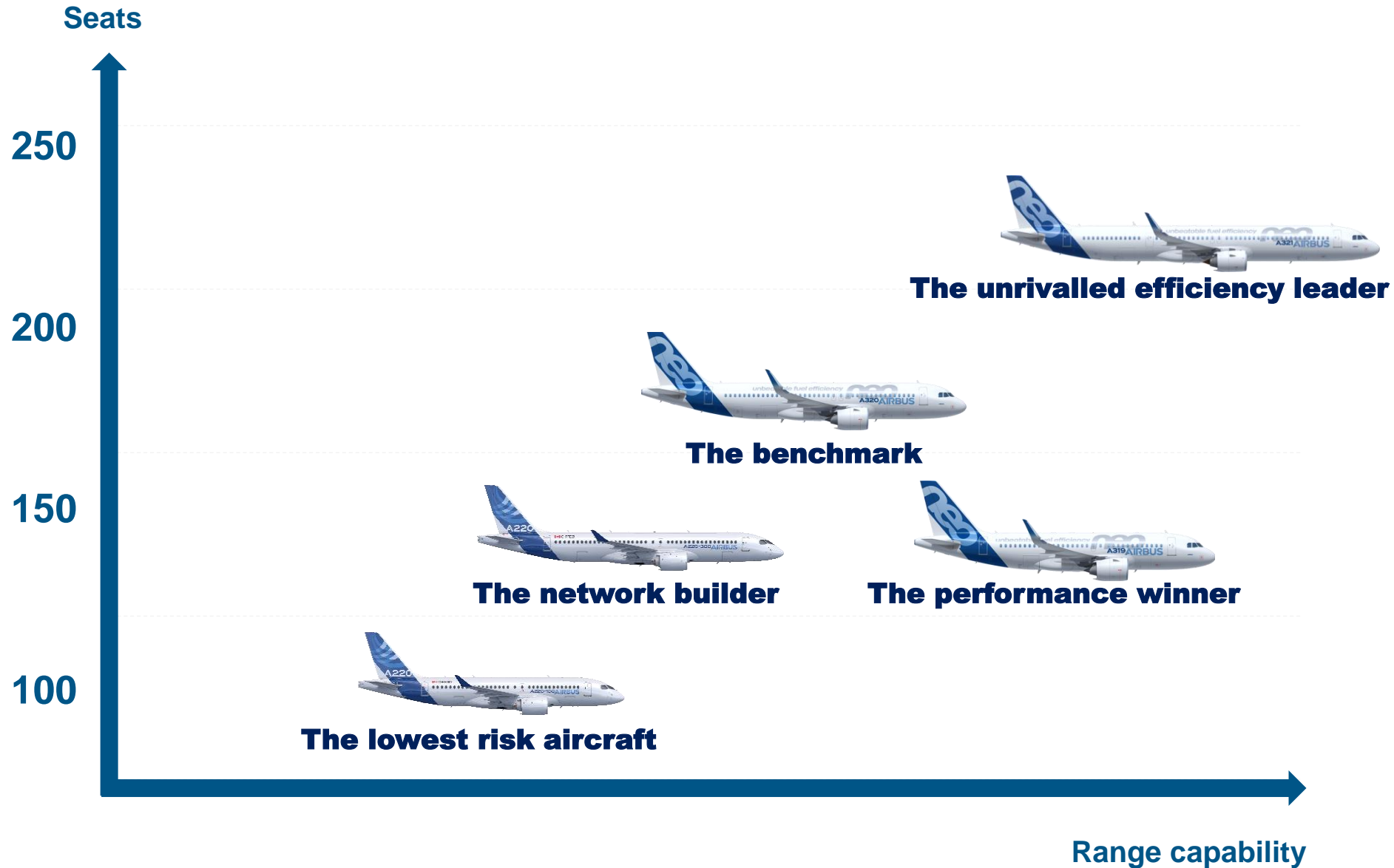


Common Structures
& Systems



Same Type Rating

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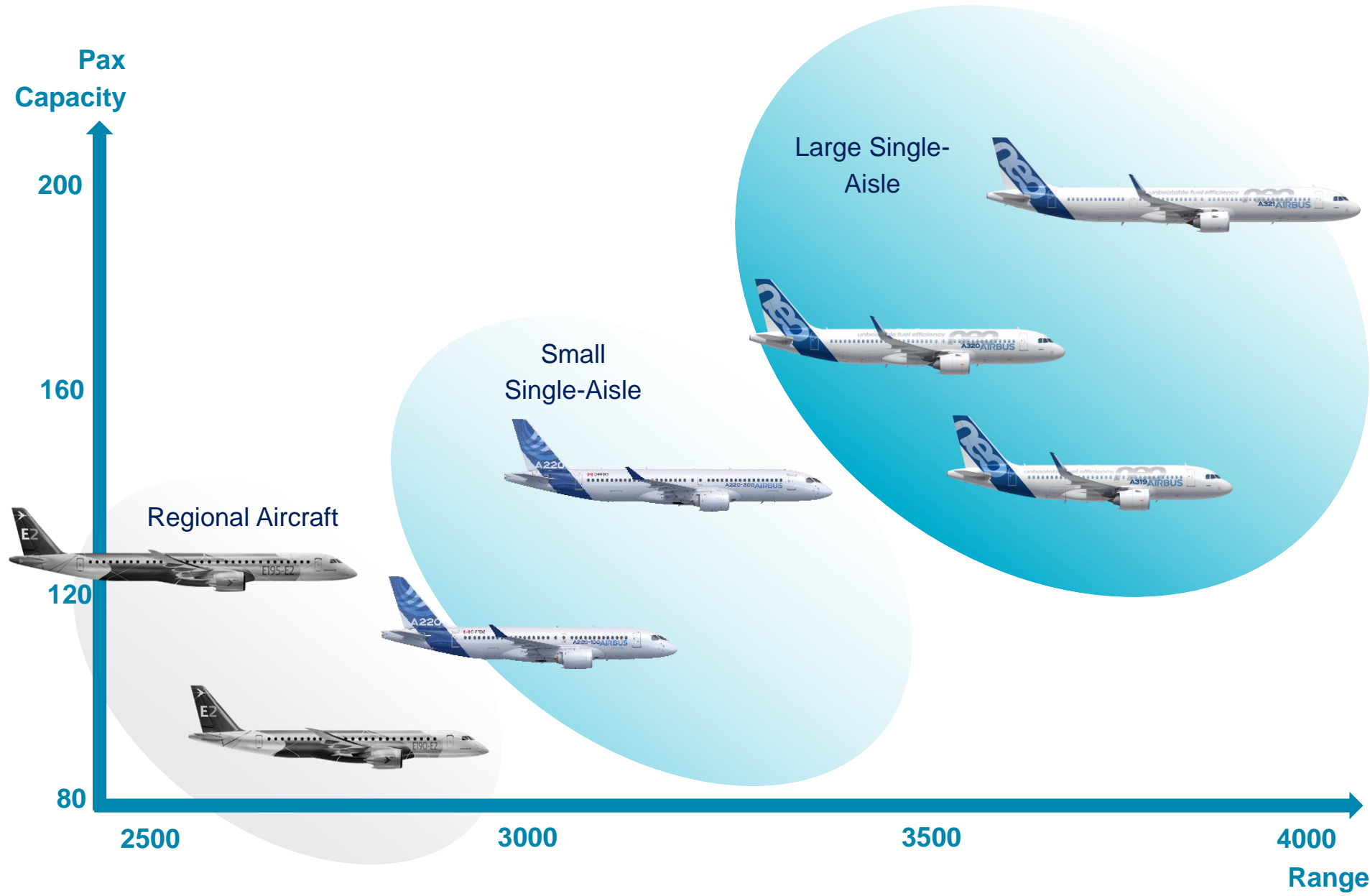
Full market coverage

Our Family covers 100% of the single-aisle market

From 100 to 240 seats

Up to 4,000nm

Most capable aircraft
 Typical 2-class layout
 JAR3% - 200nm alternate



Complete Single-Aisle Offer

A220 Family:

Filling the gap between large Single-Aisle and Regional Aircraft

*Typical 2-class seating



A220
unbeatable
fuel **efficiency**

402

Orders

47

Deliveries

355

Backlog

31th October 2018

AIRBUS



A220 Customers

402 orders

18 customers

As of 30th September, 2018



First North American Operator

First Delivery in Oct 2018

AIRBUS



First North American Operator

First Delivery Oct 2018



40% lower fuel burn vs E1 Jets

jetBlue signs MoU
for 60 firm orders +
60 options to
replace its E190
fleet



"The aircraft's advanced aerodynamics combined with a specially designed Pratt & Whitney engine help the aircraft deliver approximately 40% lower fuel burn per seat than JetBlue's current E190 fleet, a reduced noise footprint and decreased emissions,"

jetBlue press release



**Successful EIS
A220 Very High Utilization
Smooth Transition CSALP/AIRBUS**

A220 Fleet Data

Lead aircraft 5900FH

(First heavy check Jan 2019)

47 in operation



4 Operators



(#5 Operator, Tanzania delivery Dec 2019)

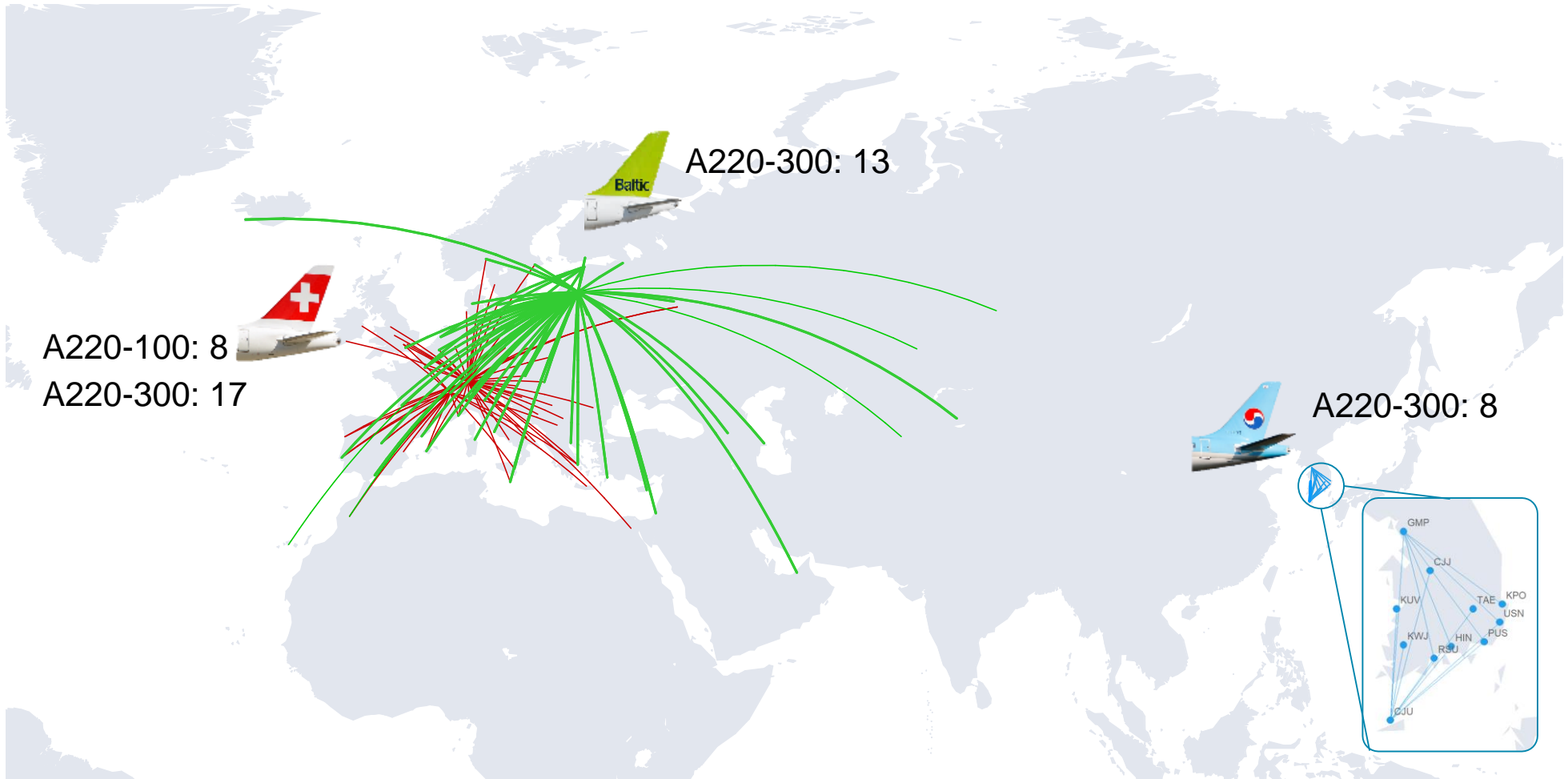
114,000+ Flight hrs and counting

Up to 18+ Flight hrs utilization per day

Up to 13 legs per day

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Operating from regional to long range missions



A220 Routes

Maximum profitability

Great versatility

- SWISS
- airBaltic
- Korean Air

As of 9th November 2018
Source; OAG

 **170+**
Routes

 **130+**
Destinations





Full
MTOW



Up to
45°C



6+
FH



145
Pax



2500
nm

Longest Route with A220-300

Operating in Abu
Dhabi at extreme
temperatures



“We are delighted to link Latvia and the UAE with our brand-new Bombardier CS300 [A220-300] that fly longer distances and reach airports that we were not able to serve with our fleet before.

airBaltic CEO Martin Gauss

AIRBUS



Opening new opportunities



Complement to A320 Family



Longer range than regional a/c



Low cost per trip



Small and restricted airports

“The C Series (A220-100) aircraft will unlock new routes with opportunities for non-stop services to destinations including the east coast of the USA, Russia, West Africa and the Middle East,”

CEO of London City Airport, Declan Collier,

Multiple A Checks Completed with No Findings

115+
A Checks

**Completed in less
than
3 HOURS**

**“very easy to follow
compared to other
type aircraft”**

As per Swiss Maintenance Technicians



**Easy
Maintenance,
Less
Downtime**

Typical A Checks completed with 3 Technicians (9 Total Man Hours)

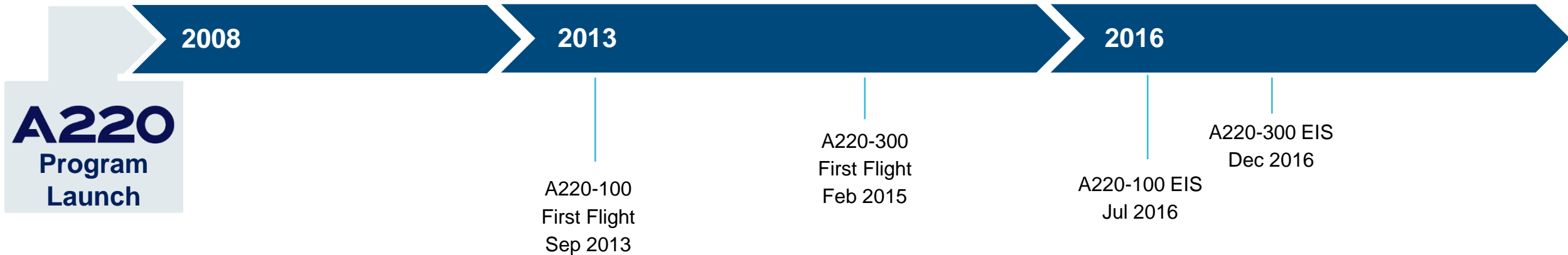
As of 31th October 2018

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Program Status

High Level of Maturity Prior to Entry into Service



Key Program Milestones 2018/9

Already accounted for in performance numbers

<p>CAT III Autoland certification</p> 	<p>DADTT 180,000 Cycles</p> 	<p>ETOPS 120/180min Type Approval</p> 	<p>Dual Overwing Slide Certification 145 to 149</p> 	<p>Dual Aft Lavatory More Space & More Seats</p> 	<p>Performance Enhancements 3% fuel burn 10-20 Pax</p> 
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<p>A220 20% fuel burn reduction per seat</p>	<p>2018</p>  <p>DELTA EIS January</p>	<p>2019</p>  <p>Air Tanzania <i>The Wings of Kilimanjaro</i> Delivery December</p>	<p>2019</p>  <p>EGYPTAIR</p>  <p>RED WINGS AIRLINES</p>	<p>2019</p>  <p>AIR CANADA</p>	<p>2020+</p> <p>New Operators</p>  <p>Moxy JetBlue</p>
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2 Assembly lines

Mirabel, Quebec, Canada

- Already in production
- Rate up to 10 a/c per month

Mobile, Alabama, USA

- From 2020
- Rate up to 4 a/c per month

A220 industrial footprint

Up to **14 a/c**
per month in both
assembly lines





A Successful Program By All Measures

Brighter Future Ahead with Airbus

Healthy and Strong, Growing Customer
Base

Exceptional Entry Into Service

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Thank you