

ITC Inv. Nos. 701-TA-578 and 731-TA-1368 (Preliminary)

PUBLIC DOCUMENT

**BEFORE THE
UNITED STATES INTERNATIONAL TRADE COMMISSION**

**IN THE MATTER OF
100- TO 150-SEAT LARGE CIVIL AIRCRAFT FROM CANADA**

RESPONDENT BOMBARDIER INC.'S CONFERENCE EXHIBITS

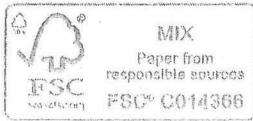
Covington & Burling LLP
One CityCenter
850 Tenth Street, NW
Washington, D.C. 20001-4956

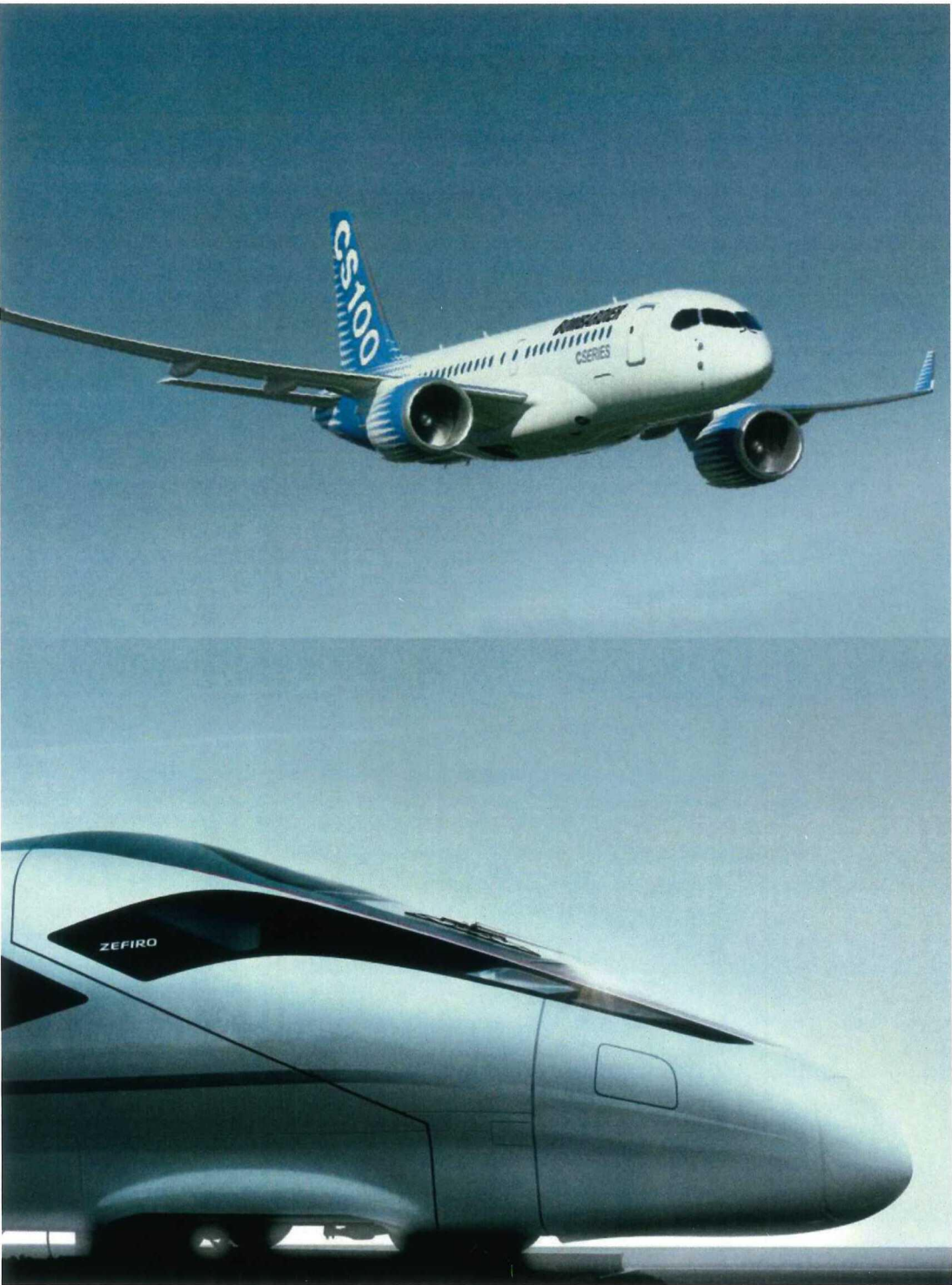
Counsel to Respondent Bombardier Inc.

May 18, 2017

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Exhibits to Statement of Sebastien Mullot

May 2017

C Series development history

2006



First design iteration

2006-2008



Integrated Pratt & Whitney geared turbofan engine

2008



Attained 15%¹ operating cost improvement target

Feb 2009



Secured initial customer Lufthansa

Sept 2013



First flight

Jun-Sept 2016



CS100, CS300
FAA certification



C Series delivers innovative features to airlines, passengers and communities

Efficiency gains

Advanced materials and aerodynamics



Improved fuel efficient engine

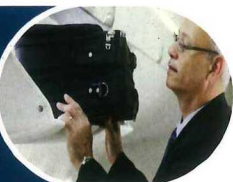


Passenger experience

Wider cross-section and larger windows



Best-in-class cabin comfort, storage and wider seats



Operational flexibility

Superior field performance & range flexibility



Cabin configuration flexibility



Environmental benefits

Reduced noise: optimized for airport restrictions



Reduced emissions



Customers recognize the appeal of the technology



“ We are actually **very satisfied with the performance** of the *C Series*... **Definitely we would recommend the aircraft** to other airlines¹ ”

“ The **customer feedback is very positive** with the expected remarks concerning the bright cabin, **reduced noise**, enough leg room and space for hand luggage as well as the comfortable seats² ”



“ ...in terms of the pure aircraft, it's actually **exceeding our economic expectations - and our expectations were high**³ ”

The C Series is a brand new technology

737



C Series



**Date of
original clean
sheet aircraft
entry into
service**

1967

2016

Boeing states that 737 MAX is not meant to compete with CS100s ordered by Delta...

"We are in conversations with our customers. [...] do we want to address the very top of that market with the MAX? **At the lower end the airplanes that have been purchased have been CS 100s. We aren't competing with those with the MAX.**"

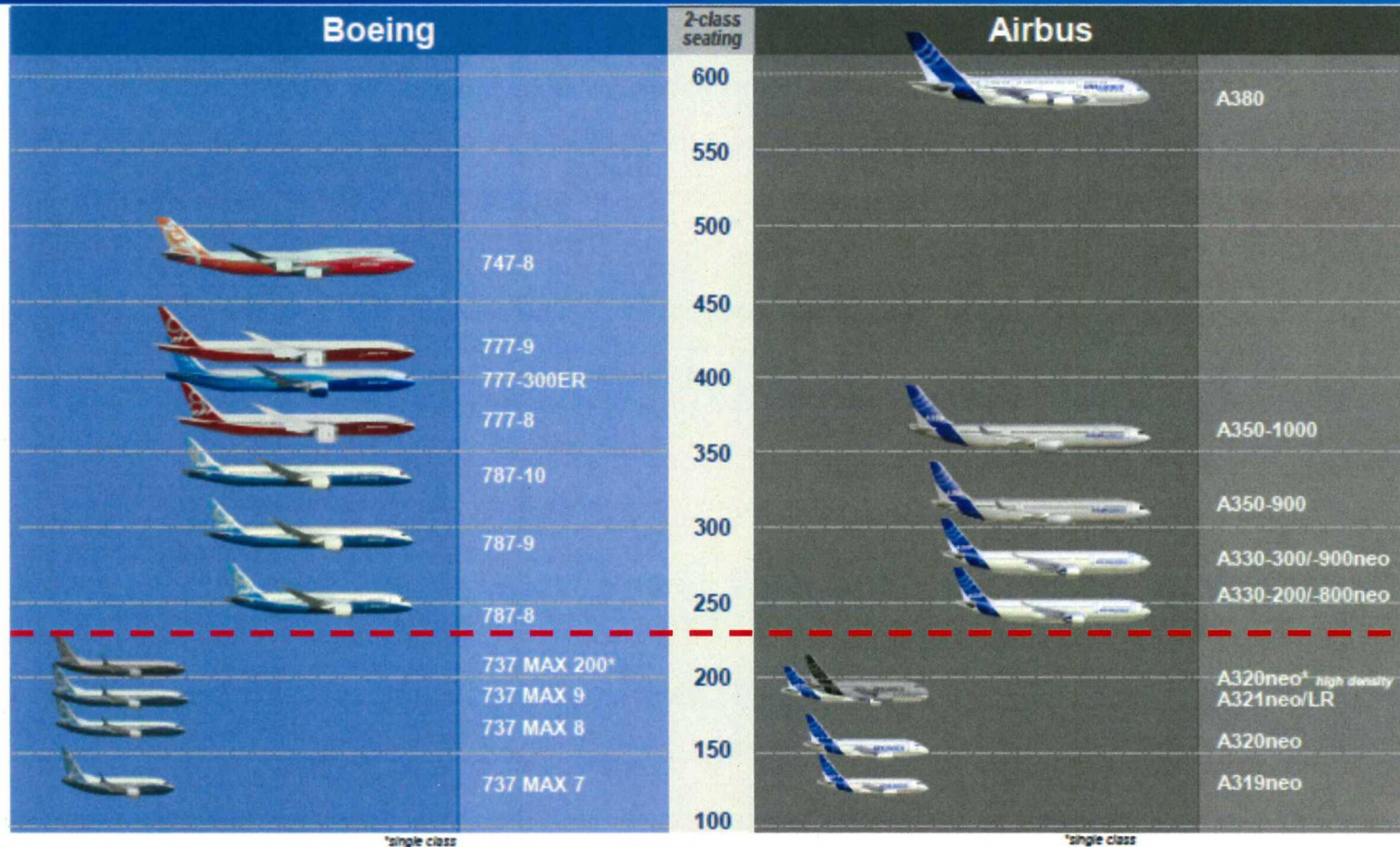
- Ray Conner, Boeing Vice Chairman & President and CEO, Commercial
Airplanes

May 11 2016 Investor Conference

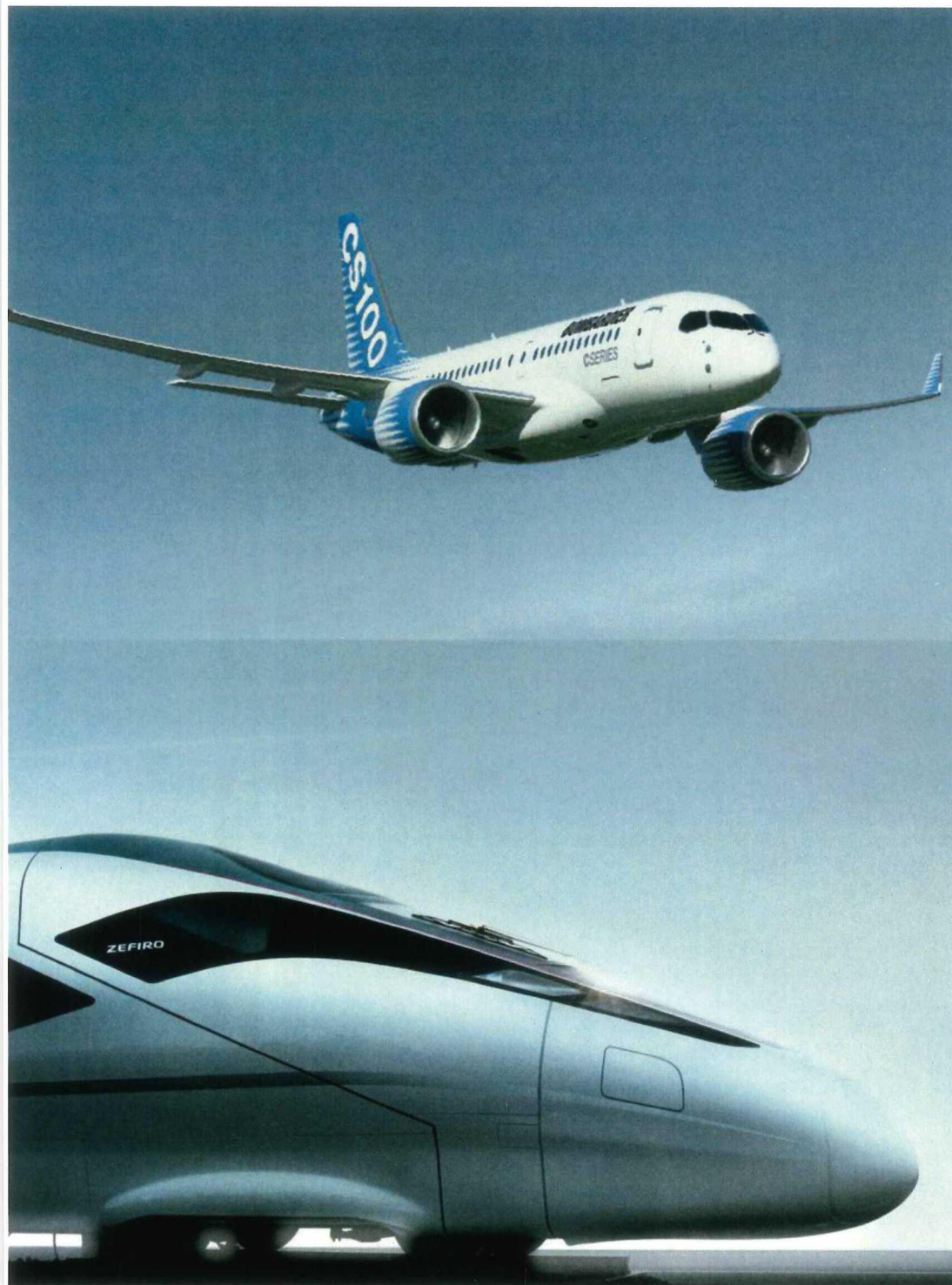
... and Boeing views the 737 family's competition as Airbus

May 2016 | Investor Conference

Product Lineup



Most comprehensive product lineup in the industry



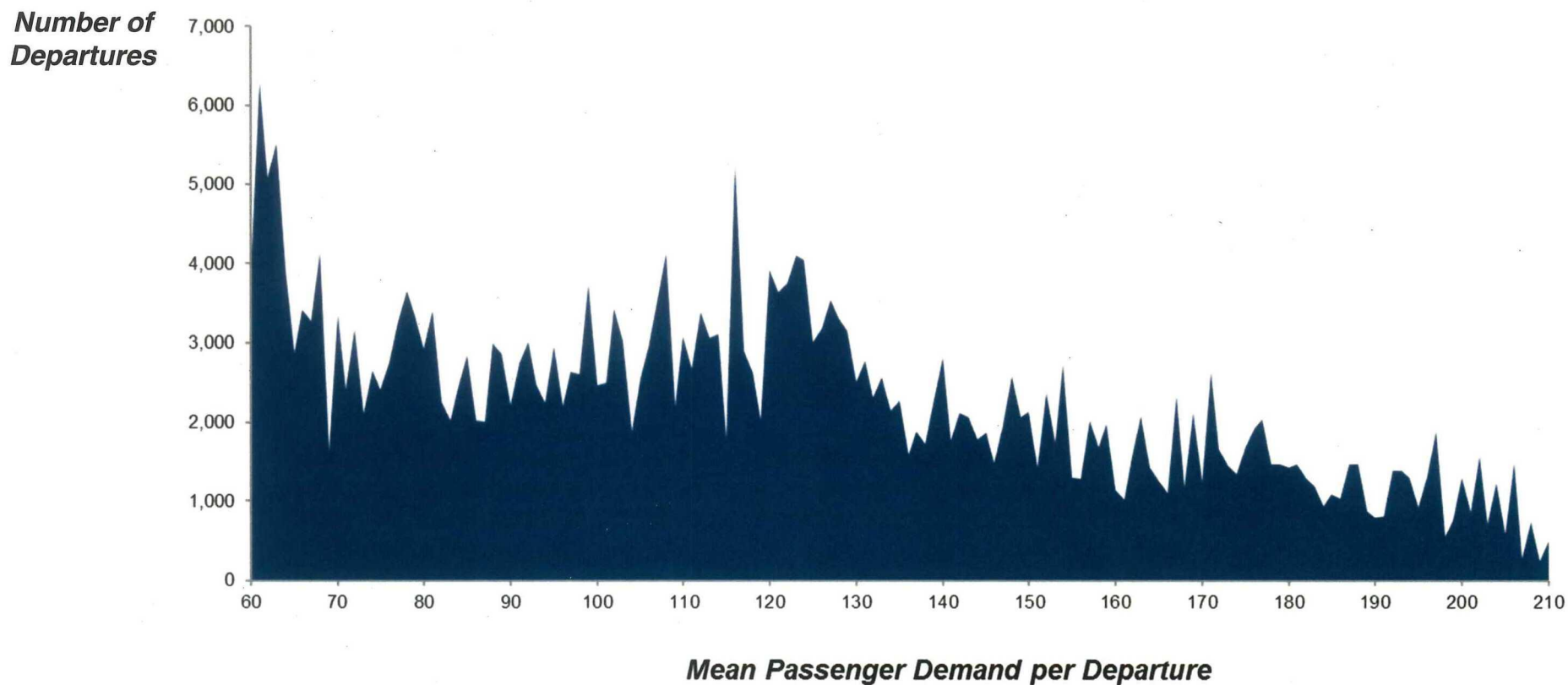
Exhibits to Statement of Ross Mitchell

May 2017

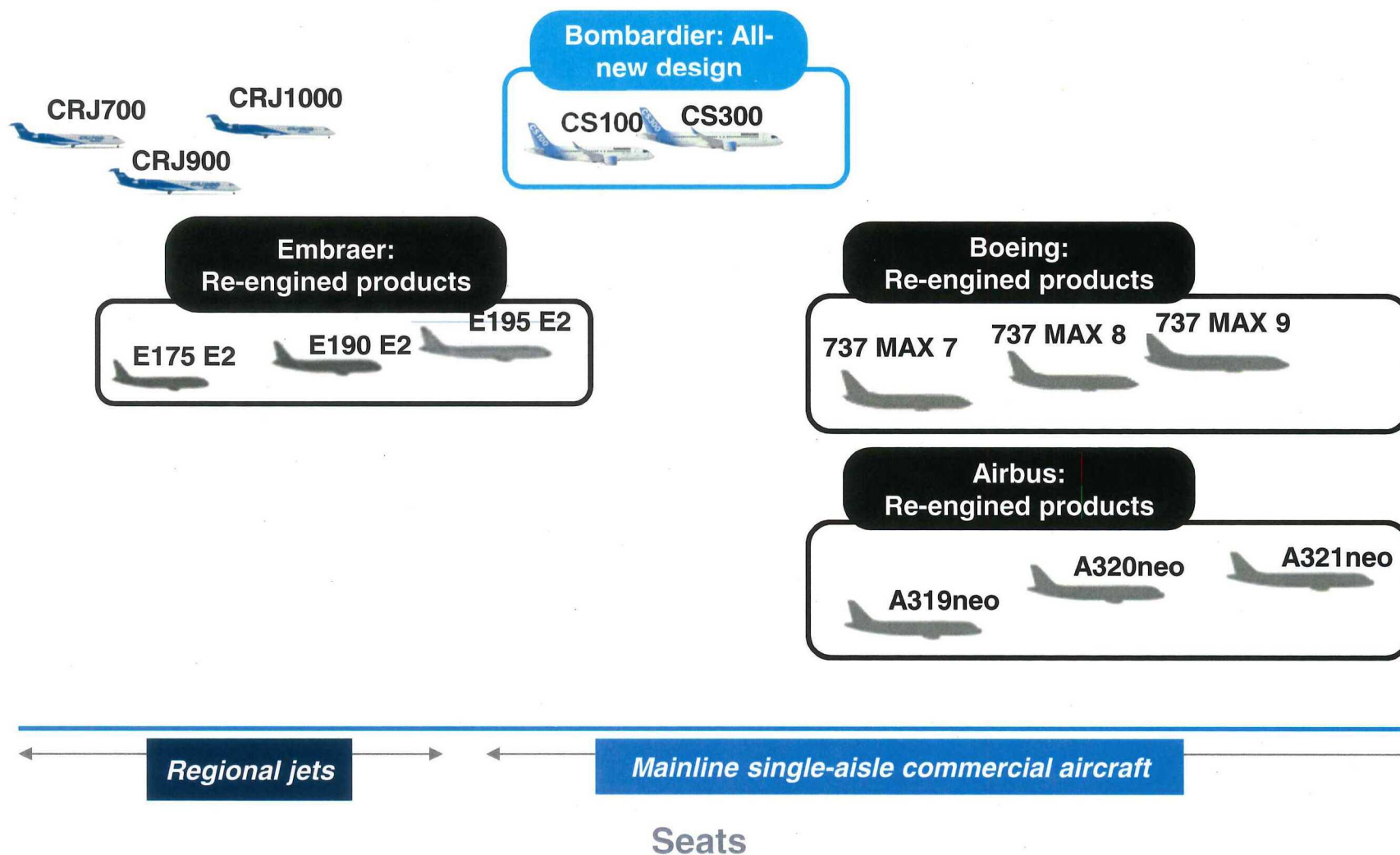
BOMBARDIER
the evolution of mobility

U.S. demand by number of passengers is continuous

Single-aisle mainline and regional jet demand
US Market, May 2010



C Series filled a gap in the market



Boeing offered only used aircraft to Delta

"We competed at Delta with used 717s and used Embraers"

*- Ray Conner, Boeing Vice Chairman & President and CEO, Commercial Airplanes
May 2016 Investor Conference*



Boeing's view of the single-aisle market segment

AIRPLANE MARKET SECTOR DEFINITIONS

Bold: Airplanes in production or launched.

SINGLE AISLE PASSENGER AIRPLANES

	Single Aisle	Regional Jets
Boeing 707, 757	AVIC ARJ-900	Antonov An-148, -158
Boeing 717, 727	BAe 146-300, Avro RJ100	AVIC ARJ-700
Boeing 737-100 through -500	Bombardier CRJ-1000	Avro RJ70, RJ85
Boeing 737-600, -700, -800, -900ER	Bombardier CS100, CS300	BAe 146-100, -200
Boeing 737-MAX7, MAX8, MAX9	Embraer 190, 195	Bombardier CRJ
Airbus A318, A319, A320, A321	Comac C919	Dornier 328JET
Airbus A319neo, A320neo, A321neo	Fokker 100	Embraer 170, 175
Boeing/MDC DC-9, MD-80, -90	UAC MS 21-200/300	Embraer ERJ-135/140/145
	Ilyushin IL-62	Fokker 70, F28
	Tupolev TU-154, TU-204, TU-214	Mitsubishi MRJ
	Yakovlev Yak-42	Sukhoi Superjet 100

Boeing consistently denies interest in the *C Series* market

"Do we want to address the very top of that market with the MAX? **At the lower end the airplanes that have been purchased have been CS100s. We aren't competing with those with the MAX.**"

*- Ray Conner, Boeing Vice Chairman & President and CEO, Commercial Airplanes
May 2016 Investor Conference*

"The *C Series* and the other regional jets that are getting a little bigger, that's **not necessarily a market segment we want to be in.**"

- Jim McNerney, Boeing CEO, June 2010

Boeing is moving toward larger aircraft

Pre-2016

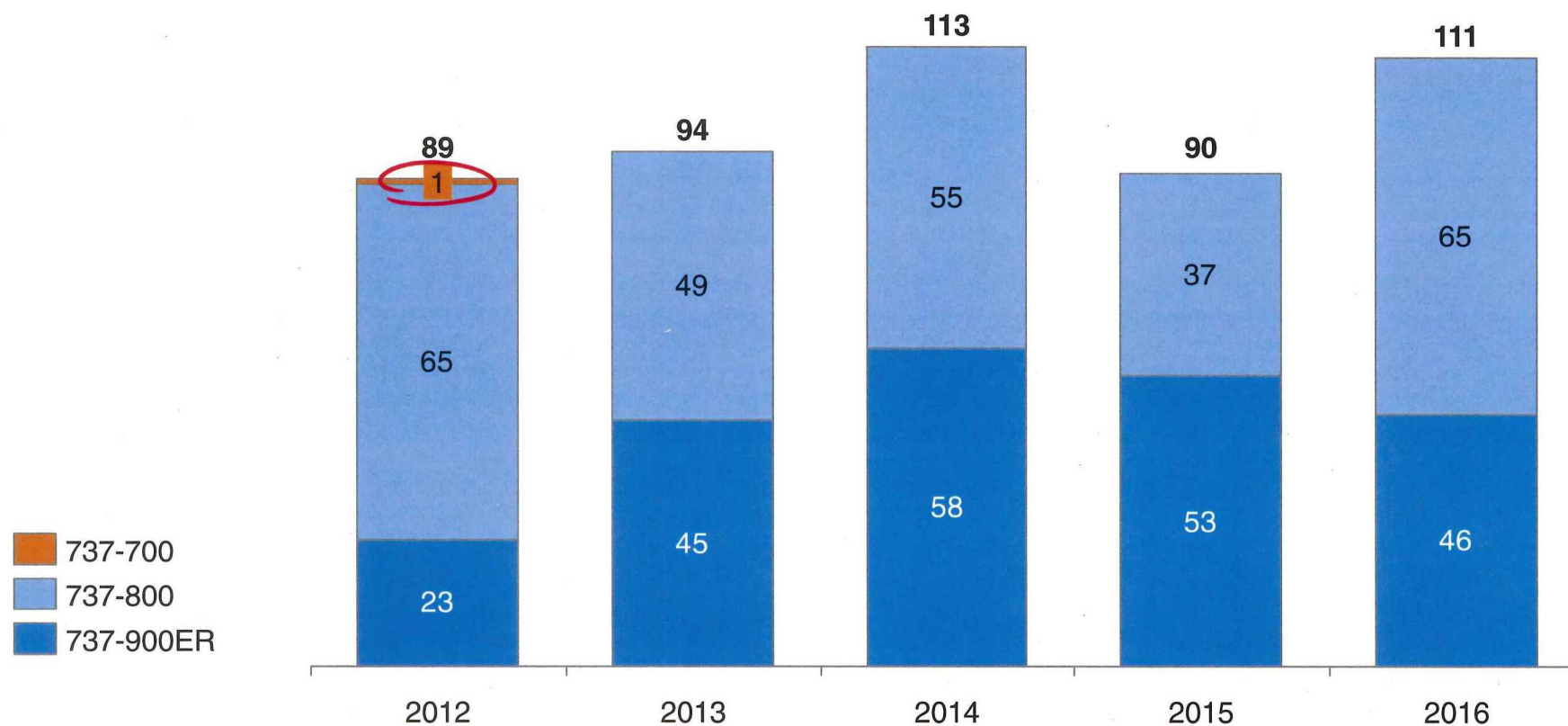
Aircraft	Dual-class seat capacity
CS100	108
Original MAX 7	127
CS300	130
MAX 8	160

Post-2016

Aircraft	Dual-class seat capacity
CS100	108
CS300	130
New MAX 7	138
MAX 8	160

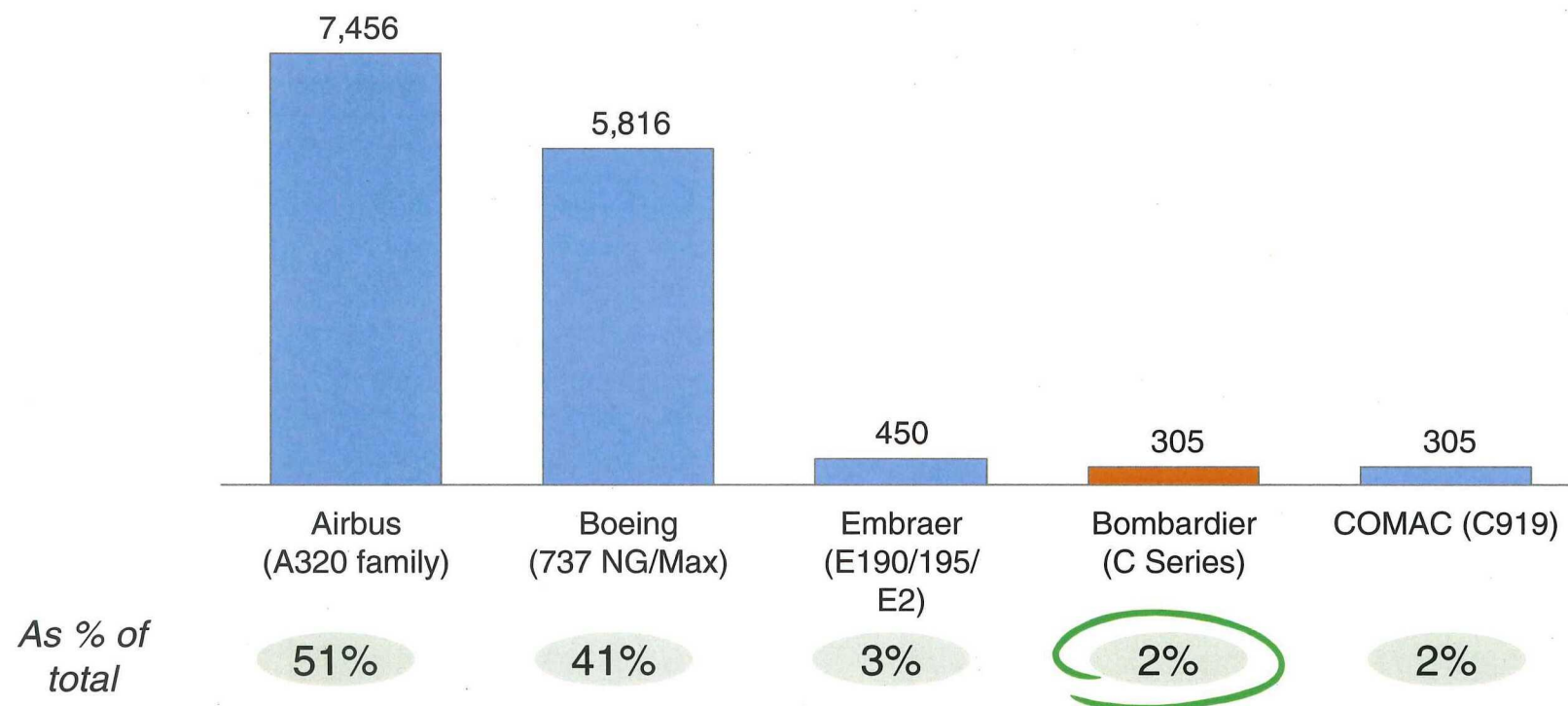
Boeing delivered only one 737-700 in past 5 years in U.S.

737 aircraft family U.S. deliveries, 2012-2016



Boeing and Airbus are the dominant players

Worldwide single-aisle mainline orders by manufacturer
2010-Present



Launch pricing is standard risk compensation

"Over time that [777X] margin should move higher, but that generally requires full rate production and **the end of launch pricing, which should occur at some point in the next decade.**"

- RBC Capital Markets, Feb 10 2016

"And second point is improving pricing on the remaining [787] 900 aircrafts in the accounting block, [...] – **think about early on in the program, early pricing disruption**, customer settlements clearly impacting on profitability and cash all in that deferred production – that will not be the case going forward."

- Greg Smith, Boeing Co CFO, May 2016 Investor Conference





Exhibits to Statement of Shara L. Aranoff

May 2017

BOMBARDIER
the evolution of mobility

Boeing views single-aisle aircraft as a single category

Screenshot from Boeing Current Market Outlook, 2016-2035



Region	Asia	North America	Europe	Middle East	Latin America	C.I.S.	Africa	World
World Economy (GDP %)	4.1%	2.3%	1.8%	3.8%	2.9%	2.5%	3.7%	2.9%
Airline Traffic (RPK %)	6.0%	3.1%	3.7%	5.9%	5.8%	3.7%	6.1%	4.8%
Airplane Fleet (%)	5.0%	1.8%	2.7%	4.8%	4.4%	3.1%	3.8%	3.6%
Market Size								
Deliveries	15,130	8,330	7,570	3,310	2,960	1,170	1,150	39,620
Market Value (\$B)	2,350	1,030	1,120	770	350	140	170	5,930
Average Value (\$M)	160	120	150	230	120	120	150	150
Unit Share	38%	21%	19%	8%	7%	3%	3%	100%
Value Share	40%	17%	19%	13%	6%	2%	3%	100%
New Airplane Deliveries								
Large Widebody	130	20	30	320	-	30	-	530
Medium Widebody	1,490	420	570	850	30	50	60	3,470
Small Widebody	2,060	930	960	560	260	90	240	5,100
Single Aisle	11,160	5,440	5,880	1,510	2,530	810	810	28,140
Regional Jets	290	1,520	130	70	140	190	40	2,380
Total	15,130	8,330	7,570	3,310	2,960	1,170	1,150	39,620
Market Value (2015 \$B catalog prices)								
Large Widebody	50	10	10	140	-	10	-	220
Medium Widebody	520	160	200	320	10	20	20	1,250
Small Widebody	590	220	260	150	60	20	30	1,350
Single Aisle	1,210	670	640	160	270	70	80	3,000
Regional Jets	10	70	10	-	10	10	-	110
Total	2,350	1,030	1,120	770	350	140	170	5,930
2015 Fleet								
Large Widebody	270	100	170	140	-	50	10	740
Medium Widebody	540	320	360	320	20	20	60	1,640
Small Widebody	660	750	440	250	140	160	80	2,660
Single Aisle	4,540	4,010	3,370	590	1,280	650	430	14,870
Regional Jets	140	1,730	270	70	110	170	110	2,600
Total	6,350	6,910	4,810	1,370	1,550	1,030	690	22,510
2035 Fleet								
Large Wide-body	70	60	100	320	-	50	-	700
Medium Wide-body	1,590	460	610	840	40	70	80	3,690
Small Wide-body	2,340	1,150	1,140	610	350	170	300	6,060
Single Aisle	12,560	6,630	5,920	1,660	3,110	1,360	1,020	32,260
Regional Jets	310	1,520	150	80	160	230	60	2,510
Total	16,970	9,820	7,920	3,510	3,660	1,900	1,460	45,240

Single-aisle identified as one segment; LCAs not divided into "small" and "large" based on seat count, range, etc.

150 seats is an arbitrary divide

More seats

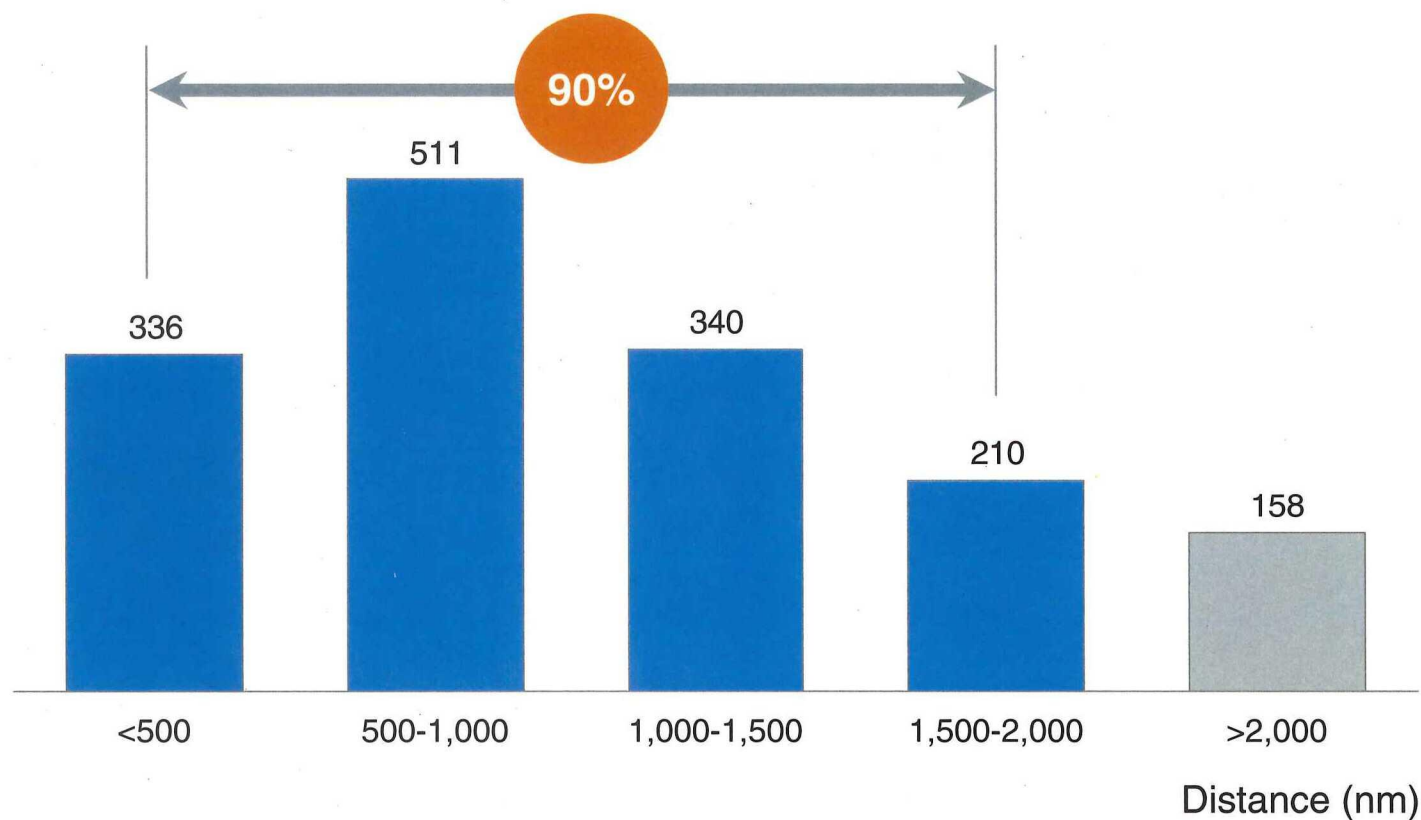
Sometimes, airlines get bigger simply by putting more seats on existing airplanes, as in these examples:

<i>Airline</i>	<i>Aircraft type</i>	<i>Before</i>	<i>After</i>
American Airlines	Boeing 737-800	150	160
American Airlines	Boeing 777-200	247	289*
Frontier Airlines	Airbus A320	170	186*
Southwest Airlines	Boeing 737-700	137	143

*Planned

2,900 nautical miles is an irrelevant dividing line

Number of US city pairs
May 2017



All 737 models operate under same FAA type certificate

Screenshot from Federal Aviation Administration Boeing 737 Type Certificate Data Sheet. March 2017

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

A16WE
Revision 58
BOEING
737-100 Series
737-200 Series
737-200C Series
737-300 Series
737-400 Series
737-500 Series
737-700 Series
737-800 Series
737-600 Series
737-700C Series
737-900 Series
737-900ER Series
737-8

Date **March 8, 2017**

TYPE CERTIFICATE DATA SHEET A16WE

This data sheet, which is part of Type Certificate No. A16WE, prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder: The Boeing Company
1901 Oakesdale Ave SW
Renton, WA 98057-2623

I - Model 737-100 (Approved December 15, 1967) Transport Aircraft

Common manufacturing facilities for 737 family

Screenshot from Boeing Company website, May 2017

Overview

Boeing's 737 factory at the Renton, Wash., site leads the industry as the most efficient airplane factory in the world. More than 11,600 commercial airplanes (707, 727, 737, and 757) or about 30 percent of the worldwide fleet flying today were built in Renton. According to the Guinness World Records, the 737 is the "most produced large commercial jet" in aviation history. Covering 1.1 million square feet of factory space, the 737 program rolls out 42 airplanes a month and is expected to increase the rate to 47 a month in 2017 and 52 in 2018. From the time a fuselage enters the factory, it takes 10 days to complete an airplane. The final assembly building has two moving lines producing Next-Generation 737s and a third that will initially produce the 737 MAX beginning in 2015. The P-8, a Navy submarine hunter and maritime patrol aircraft, and a military derivative of the 737-800, is also built at Renton.



"Renton went on to produce the 737 family (Initial Model, Classic, and Next Generation), the 757, the 767, and the Navy's P-8A Poseidon patrol aircraft. The newest family member, the 737 MAX will begin production in 2015."

– Boeing Co website

Boeing markets 737s as a family

+ SHARE

Next-Generation 737 Design Highlights



ONE AIRPLANE IN THREE SIZES

As new market opportunities develop, Next-Generation 737 operators can grow their fleets with a lower investment in parts, equipment, and training:

- > Common flight deck
- > Common engines
- > Common airframe spares
- > Common ground handling equipment

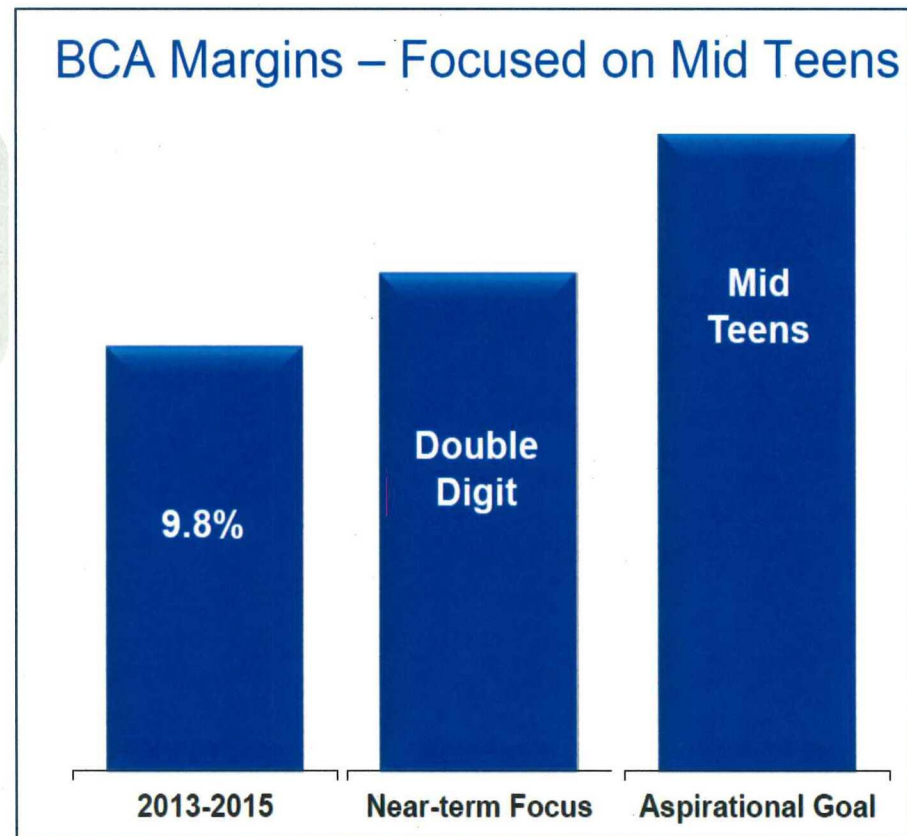
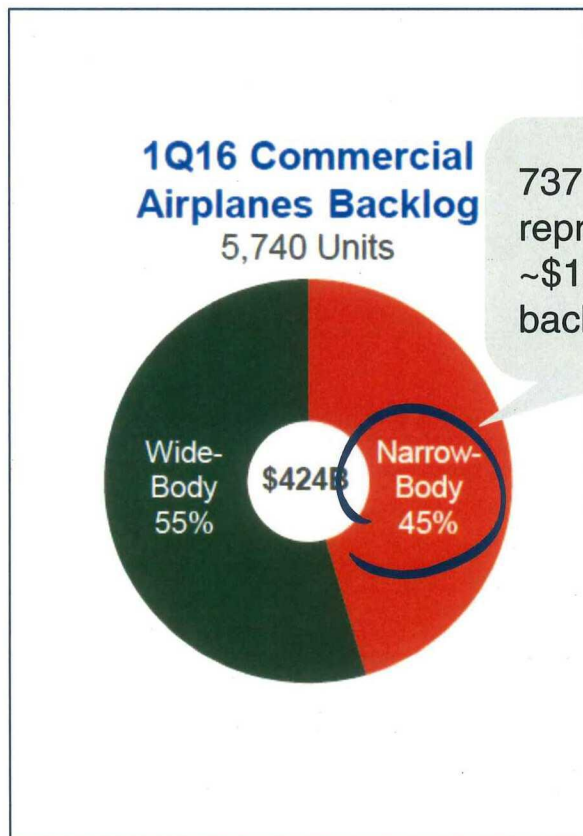
737-900ER

737-800

737-700, 737-700C, 737-700ER

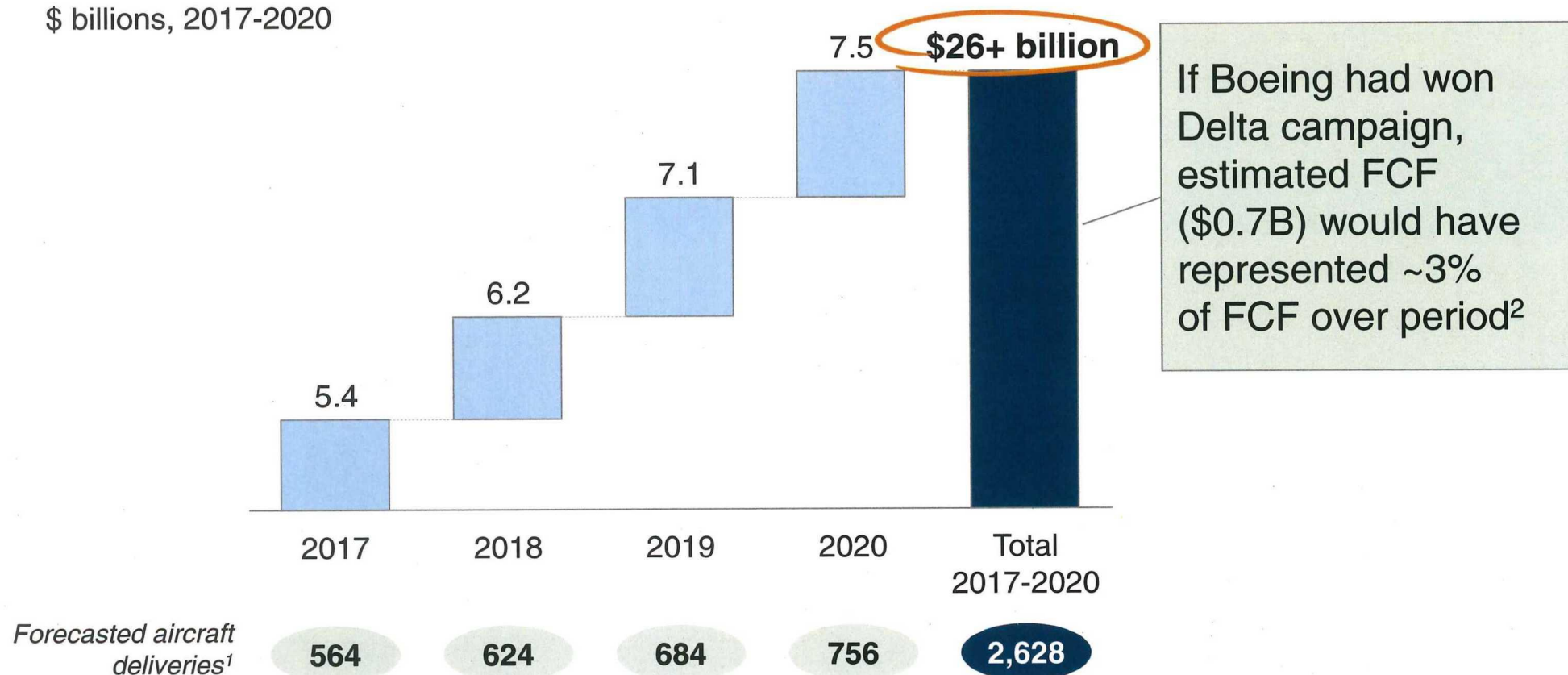
737 aircraft family enjoys robust financial health

Screenshots from Boeing Co. May 2016 Commercial Airplanes Investor Conference



737 family is projected to generate \$26+ billion in cash flows over 2017-2020

Forecasted FCF of 737 Max and NG
\$ billions, 2017-2020



Boeing sold United larger 737-700s at cut-rate prices to prevent Bombardier from gaining a foothold

“If Bombardier, which has had trouble securing customers for the CSeries, had won the United order, ‘that would’ve been **a validation of this CSeries in the marketplace**, I think. So very important for us to win that.”

- quoting Ray Conner, Boeing Vice Chairman & President and CEO, Commercial Airplanes
February 2016 Employee Address

Boeing has a comfortable 7-8 year backlog

With 4,500 Boeing 737s in backlog...

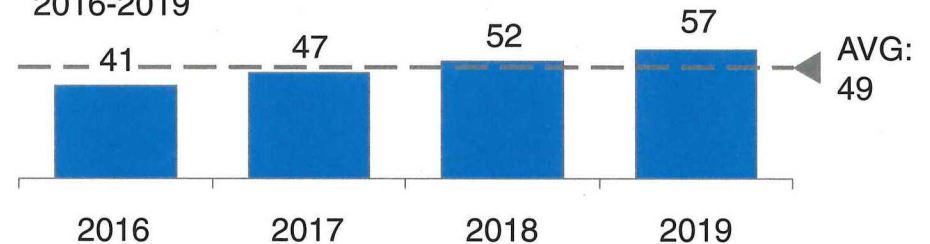
Worldwide 737 backlog

Number of aircraft, May 2017



... and average production capacity of 49 aircraft per month

Boeing 737 monthly production forecast 2016-2019



~7-8 year backlog

"Our high confidence in increasing 737 production to 57 per month by 2019 is based on our existing **backlog of more than 4,500 aircraft and a production skyline that is oversold through the end of the decade.**"

- Dennis Muilenburg, Boeing CEO , April 2017