

**Ingenuity  
in Flight.**

# C Series

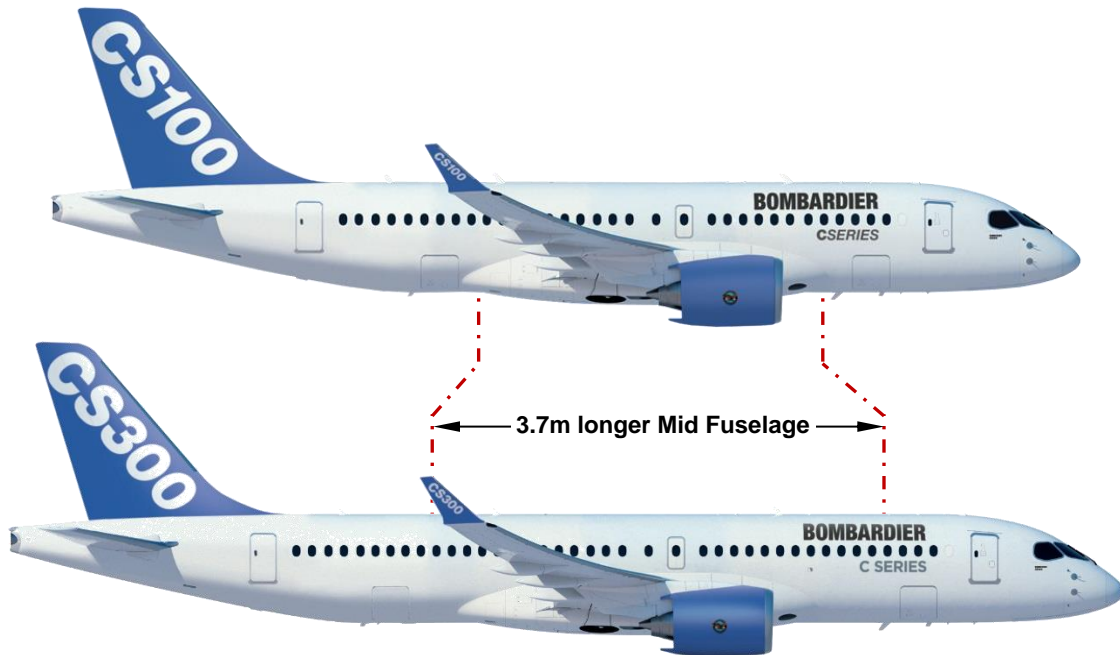
April 16<sup>th</sup>, 2018

Rob Dewar, VP Programs, C Series



**BOMBARDIER**

# C SERIES FAMILY - THE INNOVATOR



**SAME TYPE  
RATING**

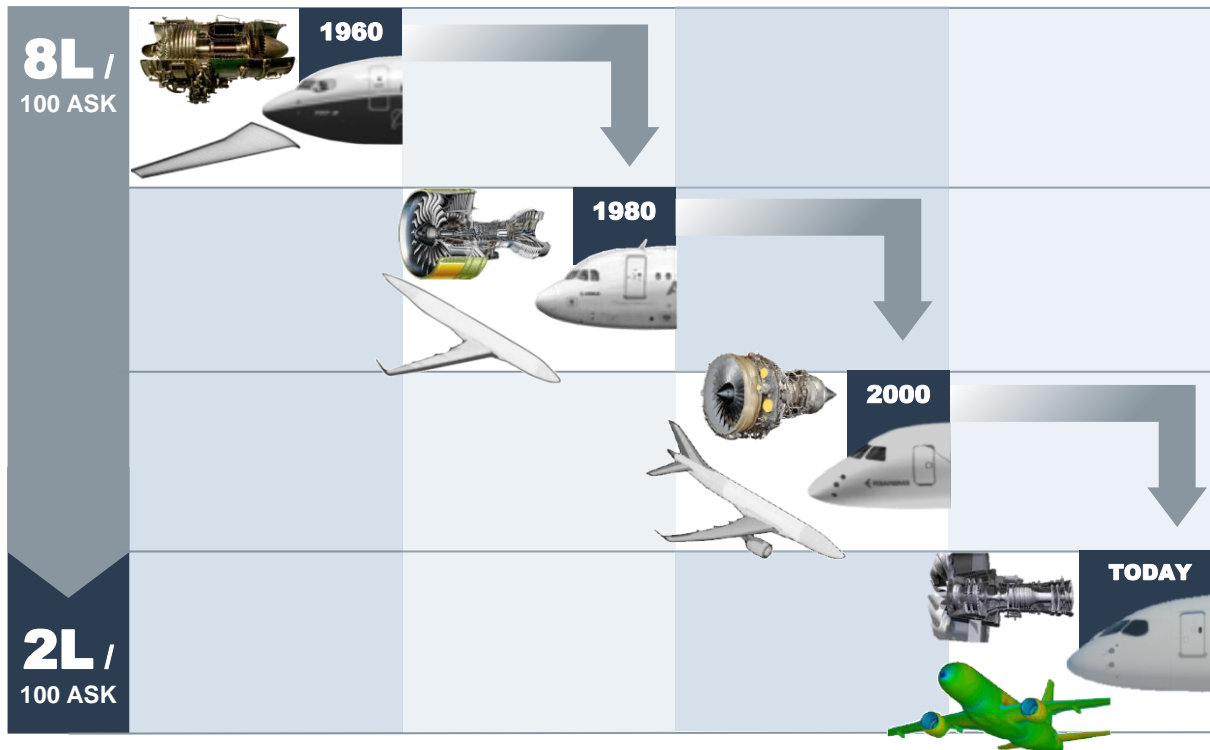
**>99% LRU  
COMMONALITY**

**SAME PART  
NUMBERS**

**20 MIN TURN  
AROUND**

**BOMBARDIER**

# ONLY STEP CHANGE IN TECHNOLOGY BRINGS STEP CHANGE IN FUEL BURN



**LOWEST  
FUEL BURN**  
with  
**2L /  
pax/100km**

**BOMBARDIER**

# A CLEAN-SHEET DESIGN WITH STATE-OF-THE-ART TECHNOLOGIES



## ADVANCED MATERIALS

Up to 13,000 lbs lighter, right-sized design



## BEST-IN-CLASS CABIN COMFORT

19in. wide seats  
1 roller-bag per passenger



## ADVANCED FLIGHT DECK

3-day reduction pilot training  
Increased situational awareness



## ELECTRIC BRAKES

Improved dispatch reliability vs. hydraulic brakes



## PUREPOWER® PW1500G ENGINE

Highest efficiency without compromise



## ADVANCED AIRCRAFT HEALTH MONITORING SYSTEM (FLIGHTLINK) 100k+ Aircraft Parameters

## FLY-BY-WIRE

3-axis  
Only 2 modes



**BOMBARDIER**

# Leveraging Bombardier and industry experience on new technologies and lessons learned

## Technology

High By-Pass Ratio Engine (above 10:1)

Advanced Aero

Advanced Materials (composite or aluminium-lithium)

Integrated Modular Avionics

Full Fly-By-Wire

Electrical Brakes

Variable Frequency Generators

Solid State Circuit Breakers

HID & LED Lights

Smart Probes

Advanced AHMS

Large Cockpit Displays (15")

	C Series	A350	B787	Ejets / E2
	2016	2015	2010	2004 / 2018
High By-Pass Ratio Engine (above 10:1)	✓	✓	✓	✗ / ✓
Advanced Aero	✓	✓	✓	✗
Advanced Materials (composite or aluminium-lithium)	✓	✓	✓	✗ (std aluminium)
Integrated Modular Avionics	✓	✓	✓	✗
Full Fly-By-Wire	✓	✓	✓	Control-by-Wire / ✓
Electrical Brakes	✓	✗	✓	✗ (Hydraulic)
Variable Frequency Generators	✓	✓	✓	✗
Solid State Circuit Breakers	✓	✓	✓	✗
HID & LED Lights	✓	✓	✓	Interiors only
Smart Probes	✓	✓	✓	✓
Advanced AHMS	✓	✓	✓	Partial
Large Cockpit Displays (15")	✓	✓	✓	✗

Implementation of new technologies is key to stepwise improvements in efficiencies, maintenance and reliability

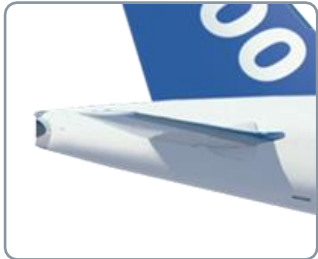
# BENEFITS OF A SLEEK AERODYNAMIC PROFILE



**LOW DRAG NOSE**



**OPTIMIZED WING AERODYNAMICS**  
(engine/wing/winglet)



**LOW DRAG  
TAILCONE**



**SMALLEST  
FUSELAGE  
WETTED AREA**



**INTEGRATED  
3-AXIS  
FLY-BY-WIRE**

**NOT  
CAGED  
INTO  
LEGACY  
GEOMETRY**

**BOMBARDIER**

# SUCCESSFUL ENTRY INTO SERVICE



**29**

C SERIES  
IN SERVICE



**3**

AIRLINES



**150+**  
ROUTES



**40,000+**  
REVENUE FLIGHT



**4.0** MILLION  
PASSENGERS FLOWN

UP TO  
**10**  
LEGS PER DAY



**BOMBARDIER**

# EXCEPTIONAL FEEDBACK FROM AIRLINES

**PROVEN**



**PERFORMANCE**  
BETTER THAN EXPECTED



*“Exceeding expectations”*

**airBaltic**



**ECONOMICS**  
OPENING NEW ROUTES



*“Exceeding economic expectations”*

**airBaltic**



**MAINTENANCE**  
50+ A-CHECKS, NO FINDINGS

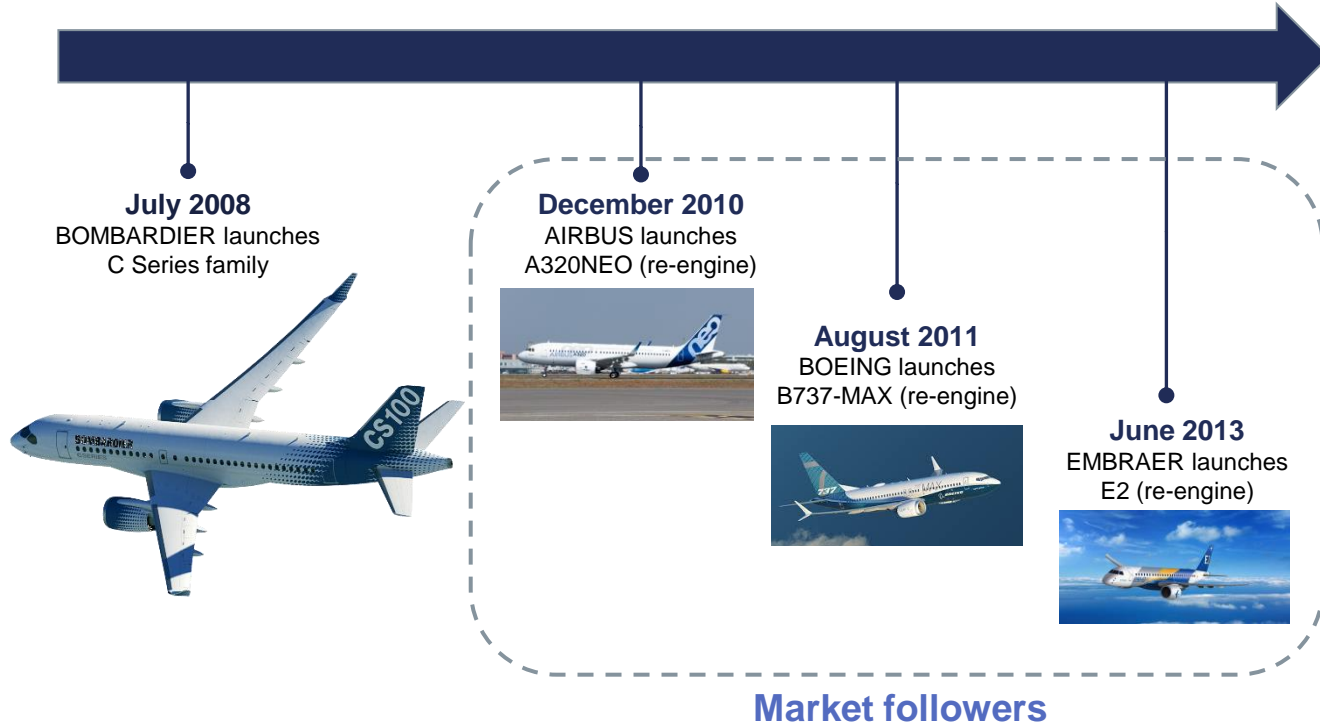


*“very easy [...] compared to other type aircraft”*

**SWISS**



# C SERIES - MARKET INNOVATOR



**100%**  
**clean-sheet**  
**designs are**  
**market**  
**disruptors**

**BOMBARDIER**