

March 2021

THEFT

Aerion's Mission: To Connect The World

Our Strategy

Usher in an Enduring Supersonic Jet Age Introduce first generation sustainable ultrafast aircraft

- Pioneer the supersonic ultra-luxury business jet
- Disrupt the military aircraft market with long-range supercruise
- Transform commercial aviation with hypersonic and all electric supersonic aircraft



Stop Climate Change

Decarbonize Global Mobility

- Design efficient aircraft to run on 100% carbon neutral energy
- Pioneer hydrogen with captured carbon fuels
- Develop all-electric zero-emission supersonic aircraft



Our Vision

Our Purpose

longer barriers

We are building a future where humanity can travel between any two points on our planet within three hours

To create a more vibrant and

compassionate world where

distance and time are no

Emerge as the Leader in Global Travel Create a point-to-point ecosystem

- Create a secure digital mobility platform
- Connect point of departure to point of destination travel
- Create a mobility ecosystem on our platform for speed





The AS2 Supersonic Business Aircraft – In A Class Of One

- First supersonic aircraft to enter commercial service in 51 years
- First supersonic engine in 55 years
- First supersonic business aircraft in history
- First certified aircraft to run on 100% engineered hydrogen/carbon captured fuel
- First supersonic aircraft that does not require afterburning engines
- First Boomless Cruise[™] supersonic aircraft in history

1,000 MPH

150% faster than today's fastest business jets

THE FUTURE OF LUXURY

Reimagining the business jet

ULTRA RESPONSIBLE

Designed to be the most environmentally responsible aircraft in history



The AS2 – The World's First Supersonic Business Jet – Global Range at 1,000 MPH





Fifty percent faster than today's fastest business jets

World's First Boomless Cruise™



Setting a New Standard of Luxury, User Experience, and Lifestyle Integration

Cabin cross section larger than G600 and Global 6500



Designed to meet the world's strictest noise standards

World's first aircraft designed to run on 100% synthetic fuels

1.4

Supersonic cruising speed (Mach)

0.95 Subsonic cruising

speed (Mach)

4,200

Supersonic range (nautical miles) Subsonic range (nautical miles)

5,400

8-10

\$120M

Passengers

Purchase price

300+

Delivered aircraft over 10 years (First Flight – 2025; EIS 2027)



AS2 Cabin and Performance

Designed for a new era of commercial supersonic



Exterior Dimensions

Length	144 ft 11 in / 44.2 m
Width / Wingspan	79 ft / 24.2 m
Height	29 ft / 8.8 m

Interior Dimensions

Max Height	6 ft 4 in / 1.9 m
Width, Mid-Cabin	7 ft 11 in / 2.4 m
Cabin Length	34 ft / 10.3 m

Performance

Supercruise ^(SM) Speed / Max Range	1.4 Mach / 4,200nm (7,780 km)
Long-range Subsonic Cruise / Max Range	0.95 Mach / 5,400nm (10,000 km)
Maximum Cruise Altitude	57,000 ft
Maximum Payload for Max Range (4PAX)	880 lbs. / 400 kg
Passengers	8-10



Aerion Park Engineering and Manufacturing Campus Preparation for Production Start in 2023

- Integrated campus for R&D, manufacturing and customer customization
- Capability to manufacture 48 aircraft per year for civil and government customers
- Located in Melbourne, Florida's space coast corridor with a high density of aerospace engineering and manufacturing talent
- Florida provided ~\$500M in incentives
- The Park will be a model for environmental operations
- Groundbreaking in Fall 2020
- Aerion employees have begun transitioning to the temporary engineering building





Aerospace Industry Coalescing Around Aerion The Only Complete Industry Team Working On A Supersonic Aircraft Development Program





Together With Our Industry Team, We're Focused On Finalizing The AS2 Design And Preparing For Production





Airport Noise

Meets the strictest noise requirements

Stage 5 levels

Sonic Boom

Flies subsonic over land, faster than any other commercial aircraft

Boomless Cruise[™] capability

Emissions

Designed for 100% synthetic fuels

Committed to carbon neutrality



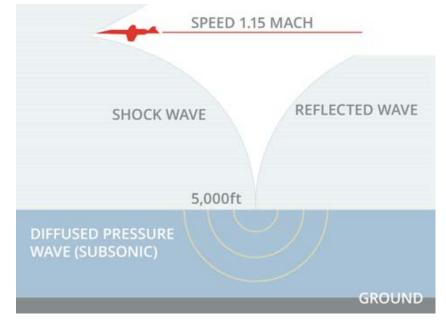
AS2 flies subsonic over land faster than any aircraft – compliant with current regulations and the first aircraft in history to fly supersonic without a boom hitting the ground

Sonic Boom Approach

- Where supersonic flight is prohibited, operate at Mach 0.95
- Mach 1.4 operation over open water and sparsely populated areas where sonic booms are allowed
- No aircraft aerodynamic features or compromises are required
- Low Boom technologies not required for overland flight – too many compromises and uncertainty
- Over populated areas where supersonic flight is allowed, operate with **Boomless Cruise**[™] autopilot

Boomless Cruise™

- At Mach 1.4 a boom descends to the ground or sea
- As the AS2 approaches land, it slows to Mach 1.2
- The boom refracts off denser, warmer layers of air





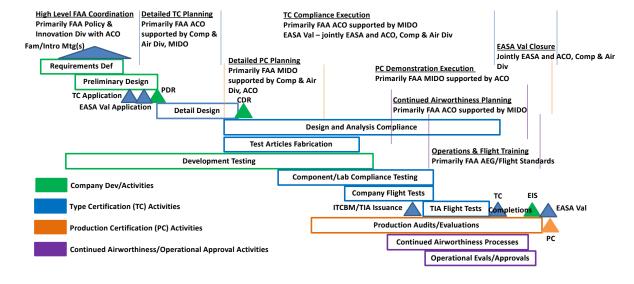
To certify the AS2, we've already begun an extensive process with the FAA, implementing a first of its kind, early collaboration

To build our certification program, we recruited a 30-year industry veteran who has led numerous aircraft type and production certificate architectures

- Experience at the FAA and the Air Force Flight Test Center
- Directly involved in the AS2 design process, reports to the COO



Randy Griffith VP Airworthiness & Certification



AS2 Certification Framework

Our certification planning is well underway, with ongoing working sessions with the FAA and EASA, and a development schedule that ensures 2027 entry into service (EIS)



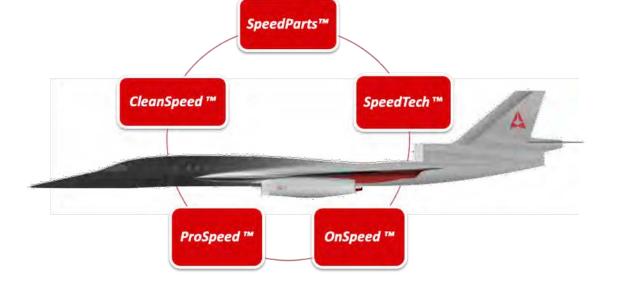
Aftermarket support for the AS2 is being designed into the aircraft to create a new level of customer experience

To build our aftermarket support, we recruited a 40-year industry veteran with reputation for building world-class support teams

- Previously SVP Customer Support and Services for Embraer Executive Jets; established the customer support organization and led it to top ranked status
- Directly involved in the AS2 design process, reports to the COO



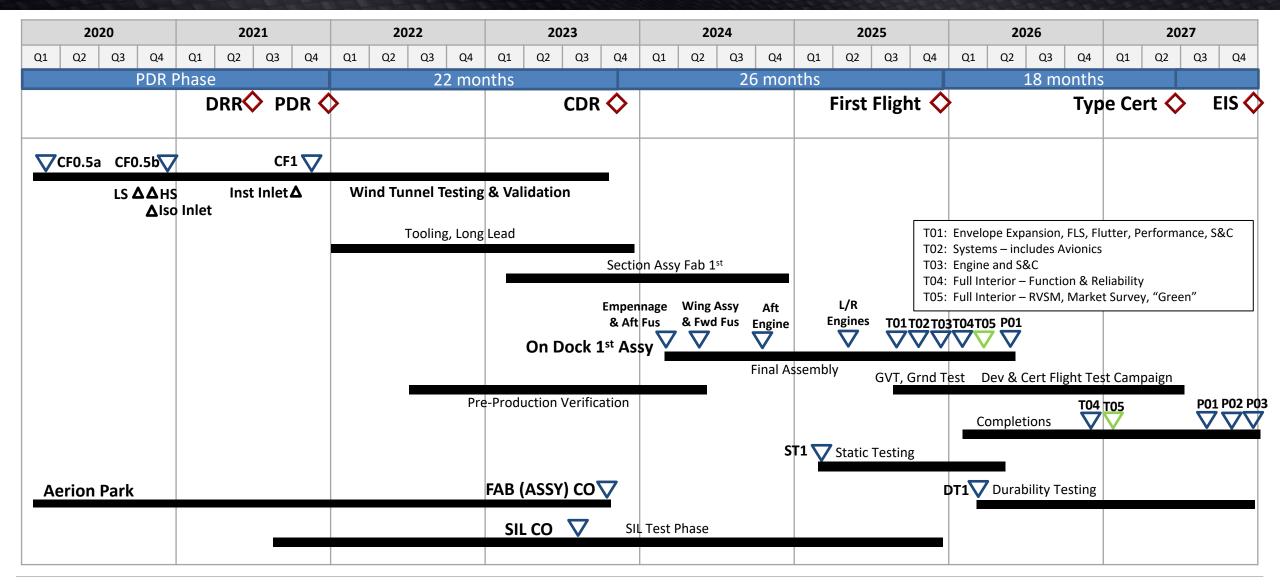
Scott Kalister VP Worldwide Support & Logistics



PureSpeed™ family of programs providing one source for all maintenance and parts needs, streamlining the support process



Begin Manufacturing The AS2 In 2023; Complete First Flight In 2025; Deliver The First Aircraft To Customers In 2027





GE Affinity_{TM} Supersonic Turbofan The First Civil Supersonic Engine in 55 Years

Integrates a unique blend of proven military supersonic experience, commercial reliability and the most advanced business jet engine technologies





Sustained super cruise

Optimized for prolonged high speed use. Durable combustors for hot and harsh conditions and advanced coatings for turbine section.



Operability redefined

Performance throughout the flight

envelope with a high-altitude service

ceiling of 60,000 feet.



Noise compliant

Acoustically treated throughout, the Affinity is designed to meet or exceed regulatory requirements. Pounds of thrust Envi Takeoff thrust: 16,000 lbs - 20,000 lbs

20K

Environmentally friendly

Designed to run on 100% biofuels



Thermal barrier coatings – These coatings are used to protect state-of-the-art components. They act as a heat barrier to keep parts cooler, allowing the engine to run at higher temperatures for greater efficiencies. The coatings minimize interaction with combustion gases, further protecting components inside the engine.

Fan – GE's Affinity will have the highest bypass ratio ever for a supersonic engine. It includes an advanced twin fan, sized to deliver efficient performance with minimal drag and noise.



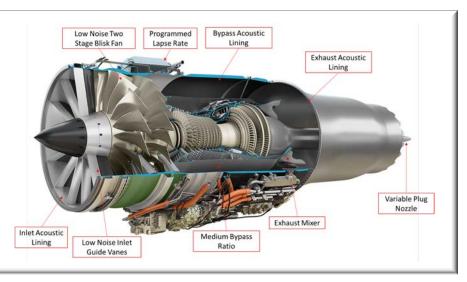


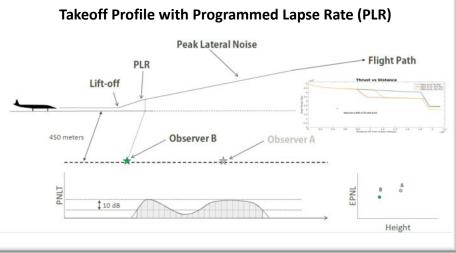
World's most popular core – The Affinity's high-pressure core optimizes state of the art aerodynamic efficiencies of a proven commercial airline engine, advanced alloys and thermal systems management for supersonic cruise durability, and the power of a military fighter engine. The Affinity core is based on more than 1 billion hours of service, giving Affinity owners confidence in performance during all speeds of operation.



The AS2 will not only meet the latest FAA proposed rules, but more importantly will meet global public demand for quiet takeoff and landing









We are committed to pioneering the first supersonic business jet and the first carbon neutral aircraft and company

Our aircraft is designed for fuel efficiency

Creative new aircraft designs – advanced aerodynamics and non-afterburning fuel efficient engines

Our fuels runs clean

First aircraft and engine in the world designed from the start to run on 100% SAFs. DAC Fuels 100% Net CO₂ Neutral

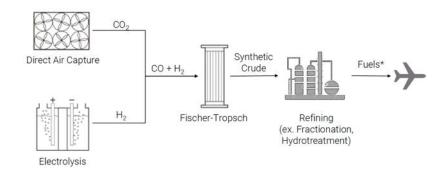
Aerion Foundation investing in carbon sequestration programs

Aerion Foundation will plant 100,000,000 trees and invest in captured carbon to storage technologies

Our customer CleanSpeed[™] program

First customer care program that provides carbon offsets for all customers

Technology Available Today – Air to Fuel



- DAC Process removes CO2 from the air and combines it with Hydrogen from electrolysis of water
- Process uses mature technologies to de-risk and scale production capability
- Mature and ASTM approved Fischer-Tropsch processing creates synthetic crude
- Standard refining processes transform the syncrude into very clean burning ASTM-compliant jet fuel



Carbon Engineering Partnership

ANONINE BZAV AR TRANSPORT DEFENSE COND-11 SOLUTIONS IN BZAV SUBSCREE

Aerion Forms Partnership To Explore Synthetic Fuels



Continuing on a quest to lay the foundation for environmentally-triendly supersonic travel. Aeron Supersonic hi igned a memorandum of understanding with direct air capture specialist Carbon Engineering to explore the cossible use of synthetic fuel in its A52 Mach 1.4 business left Founded in 2009. Squamish. British Columbiabased Carbon Engineering produces faels from carbon dioxide captured through the atmosphere, water, and clean electricity

Aeron chairman, president, and CEO Tom Vice said at the AAA Aviation Forum in June that Aeron was locused on direct an capture methods because this approach enables factories to have smaller footprints and to be built and accessible anywhere. 'The technology really is huge,' he said

which will power the AS2, can run entirely on synthetic fuel. In addition, the partners will consider collaborating on an air-to-fuels plant to produce synthetic fuel specifically for the AS2. Aerion added.

The fundamental value of fuels made from atmospheric CC2 is that they create a circular system of emission said Carbon Engineering CEO Steve Oktham, 'Our DAC technology captures yesterday's emitted CO2 and converts it into fuel."



Q +



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Aerion and Carbon Engineering will jointly evaluate requirements to ensure that the GE Aviation Affinity engine.







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NEW ATLAS

GEICO

GET A QUOTE

when controls where the second day failed and

supersonic business jet

PLUS AN 15%

The "perfect storm" behind Aerion's

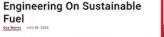


When Aerion Supersonic announced July 8 that it would explore using synthetic jet fuel made by Carbon Engineering, a Canadian company developing technology to suck carbon dioxide out of the atmosphere, the underlying message was that the company is committed to making a supersonic business jet that potential customers can claim is environmentally responsible. Aerion has pledged to make its administrative, manufacturing, materials and supply chain processes carbon neutral, but its aircraft is the





Condit: Aerio



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Can Aerion's Supersonic Jet Be

Green? A Carbon Neutral Fuel

Tie-Up Hinges On Regulatory

Reform And Image As Much

As Technology



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A rendering of Aerion's AS2 supersonic jet adjacent to a direct air capture facility. COURTESY: AERION

Climate change / Carbon sequestration

How carbon-sucking machines could cut aviation emissions

Carbon Engineering and Aerion have teamed up to test whether synthetic fuels derived from captured CO2 can enable carbonneutral flights.



CHALLENGER

600 SERIES

Quality service and expertise

CE and Aerion - working together to de-carbonize supersonic travel

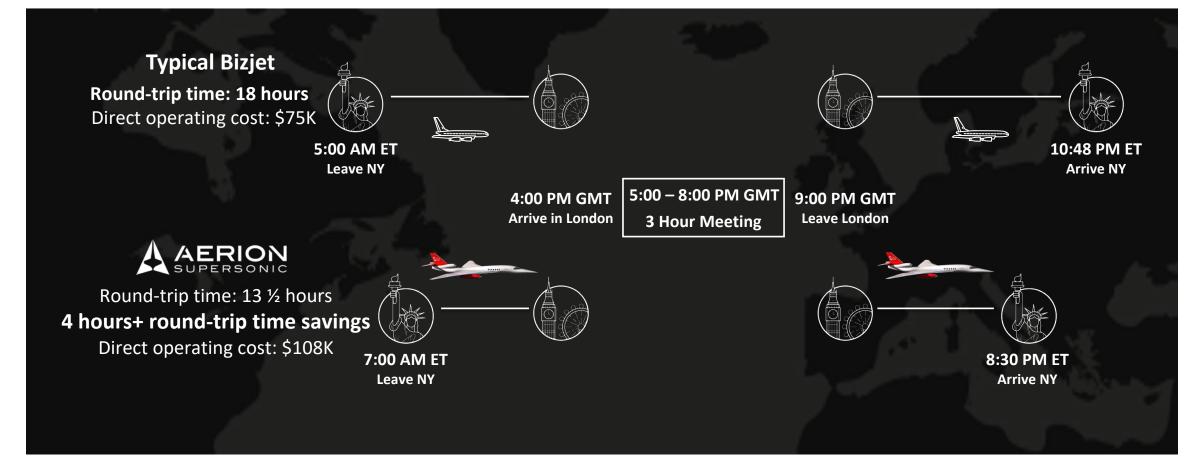
- Aerion wishes to use CE's synthetic fuel to power the AS2 jet
- Our Engineering teams will work together to optimize CE's fuels for <u>Aerion's</u> engines
- Use of CE fuel expected to start during <u>Aerion's</u> test program
- CE and Aerion exploring the development of an AIR TO FUELS plant to produce fuel for the AS2 program



MAKING THE AS2 THE WORLD'S ONLY CARBON NEUTRAL SUPERSONIC JET

As the only high-speed business jet, the AS2 will create new travel opportunities and give our customers back their most precious resource, their time

Example Trip: Attending a 3-hour meeting in London from NY and returning the same day



Note: Trip estimates compare an AS2 to a Bombardier Global 6000 Sources: Conklin & deDecker, Aerion research & analysis



The AS2 Has A Bigger Cabin Cross Section Than The Market Leaders





BOMBARDIER



Gulfstream









Sources: Aerion, OEM websites, Business & Commercial Aviation 2020 Purchase Planning Guide









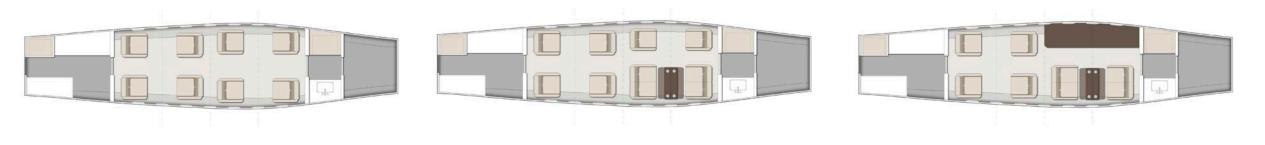


Cabin "White Mock Up"





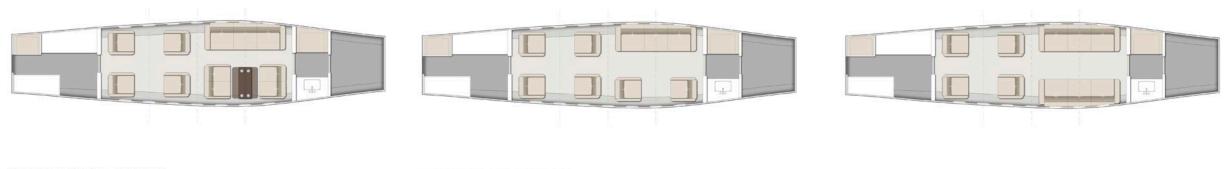
Cabin Layouts



01 CLUB SEATING

02 DOUBLE CLUB (LH) - CLUB (RH)

03 DOUBLE CLUB (LH) - CREDENZA (RH)



04 DOUBLE CLUB (LH) + DIVAN (RH)

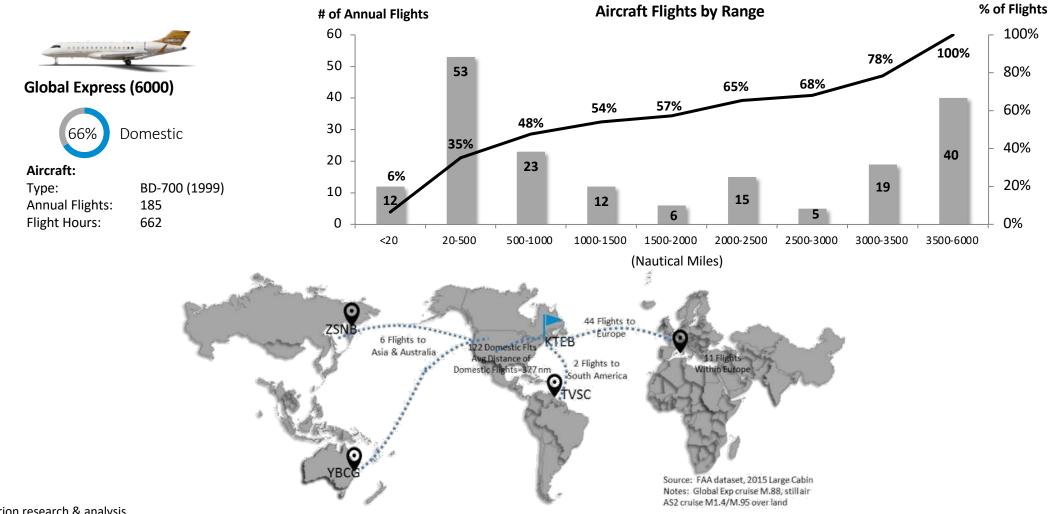
05 SINGLE CLUB (LH) - DIVAN (RH)

06 DIVAN - DIVAN



Case Study: New York Financial Services Firm

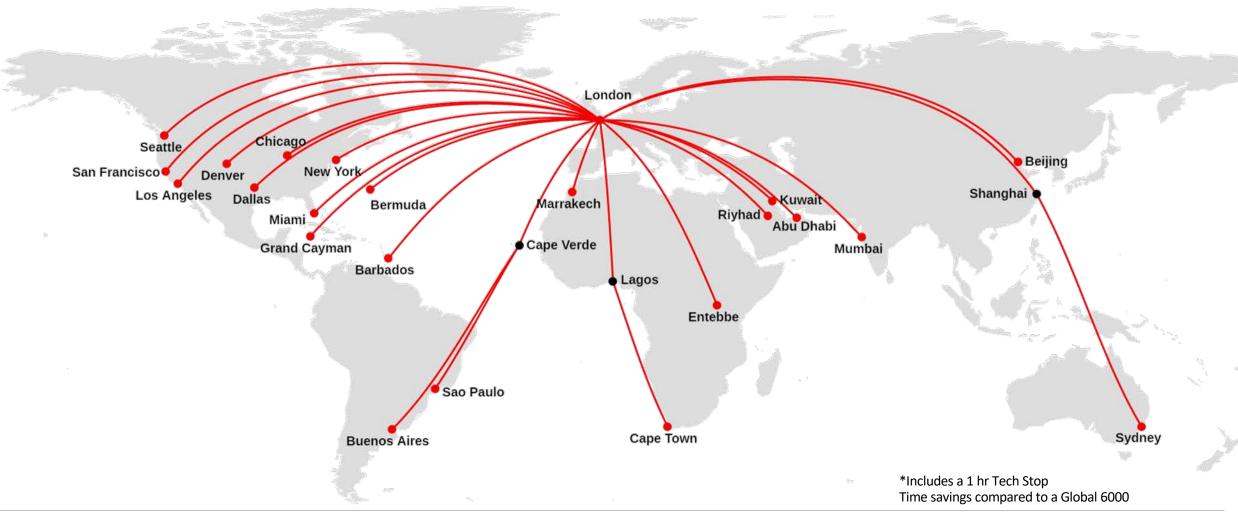
The AS2 Would Save ~142 Hours Annually For Each Passenger



Sources: FAA, Aerion research & analysis



SEATTLE	DENVER	NEW YORK	BERMUDA	BUENOS AIRES*	CAPE TOWN*	BEIJING
Travel time 6:18	Travel time 6:05	Travel time 4:04	Travel time 3:58	Travel time 9:09	Travel time 8:38	Travel time 7:12
Save 2 hrs 5 mins	Save 2 hrs 7 mins	Save 2 hrs 2 mins	Save 2 hrs 6 mins	Save 3 hrs 46 mins	Save 2 hrs 36 mins	Save 1 hr 39 mins
SAN FRANCISCO	DALLAS	MIAMI	GRAND CAYMAN	SÃO PAULO*	MUMBAI	SYDNEY*
Travel time 7:27	Travel time 6:08	Travel time 5:03	Travel time 5:36	Travel time 8:01	Travel time 6:05	Travel time 15:52
<mark>Save</mark> 1 hr 54 mins	<mark>Save</mark> 2 hrs 10 mins	<mark>Save</mark> 2 hrs 43 mins	<mark>Save</mark> 2 hrs 49 mins	<mark>Save</mark> 2 hrs 59 mins	<mark>Save</mark> 1 hr 49 mins	Save 3 hrs 43 mins





SINGAPORE*	SYDNEY*	MIAMI	SÃO PAULO	MADRID	PARIS	MOSCOW
Travel time 13:45	Travel time 13:45	Travel time 1:24	Travel time 6:02	Travel time 4:10	Travel time 4:15	Travel time 5:58
Save 4 hrs 53 mins	Save 4 hrs 47 mins	<mark>Save</mark> 37 mins	Save 2 hrs 18 mins	<mark>Save</mark> 2 hrs 11 mins	Save 2 hrs 10 mins	Save 2 hrs 17 mins
SHANGHAI*	LOS ANGELES	BUENOS AIRES	CAPE TOWN*	LONDON	NICE	CAIRO
Travel time 10:43	Travel time 3:20	Travel time 7:24	Travel time 9:56	Travel time 4:04	Travel time 4:39	Travel time 7:57
<mark>Save</mark> 4 hrs 1 min	Save 1 hr 3 mins	Save 1 hr 51 mins	<mark>Save</mark> 4 hrs 56 mins	Save 2 hrs 2 mins	Save 2 hrs 24 mins	<mark>Save</mark> 1 hr 53 mins

