



Avia Solutions is 20 years old today.

Over that time we have been fortunate to have worked on some amazing projects, fostering great relationships with our clients and partners. Some highlights have included **over 60 airport transactions**, the creation and launch of **3 new international airlines**, and negotiating over **150 new routes for a range of airports**.

During February we will celebrate this landmark with a weekly email full of fun facts, stories and offers that we hope you may find interesting.

20 Aviation facts that you may not know

New Airports

Since Avia Solutions was formed in 2001, the number of Chinese airports has doubled from 126 to 265. An average of **7 new airports per year!**



Room for Growth

Believe it or not, over 80% of the world's population has never been on a single flight. That means **over 6.25 BILLION people have never boarded an airplane**



Longest Runway

The longest commercial runway can be found in Qamdo Bamda Airport in China. Its 5,500 metres (18,045 ft) length is required due to its altitude (4.4km above sea level).



Remotest Island Airport

The island of St. Helena is one of the most remote places on Earth, located in the middle of the South Atlantic Ocean. Between 2014 and 2016, **AviaSolutions helped secure** a regular 5-hour weekly flight to the newly constructed airport, replacing a minimum 5-day ship journey from Cape Town.

In January, a Titan Airways B757-200 delivered the first batch of COVID-19 vaccine to the remote UK Territory.



Oldest Aircraft

Since AviaSolutions was formed in 2001, the commercial aircraft that has flown the most hours is this 747-400 from KLM. The aircraft, with serial number 30454, has **flown ~100k hours**.



Busiest Route

The busiest flight route in the world is in South Korea: **Seoul - Jeju, with a flight leaving every 10-15 mins**. In 2019, capacity was 17m seats. Mostly tourism based as many Koreans visit the island for holiday.



Mayday

Mayday, which is an internationally recognised distress signal, originates from the French 'm'aider', that translates to 'help me'



6 million parts

One of the world's largest passenger aircraft, the Boeing 747, is made up of **6 million parts**



Crocodile Deaths

More people are killed by crocodiles each year than die in commercial aircraft incidents



Size is everything

The engines of a newly designed Boeing 777X will be **13 ft larger in diameter than the fuselage of a Boeing 737**



Aircraft desert parking

In 2020, circa 50% of the global fleet was parked. Many in long-term parking facilities that feature dry climates, that reduces corrosion risk. Parked aircraft maintenance and parking fees can add up to 3,100 USD per month for a B737-800 and 6,377 USD for a B777-300ER.





Shortest air service

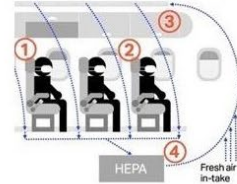
The world's shortest commercial route is a scheduled flight of just under 90 seconds. It is a Loganair 1.7 mile long hop between Westray and Papa Westray in Scotland. *Perhaps the only commercial flight where you can see your arrival destination from the departing airport!*



Aircraft Maintenance

Aircraft bolts and screws **MUST ONLY** be manually tightened **by hand tools**.

Standard maintenance practices forbid the use of power tools to install screws and bolts to avoid damaging aircraft structure and fasteners.



Clean Air

The air in an aircraft cabin is fully cleaned **every 3 minutes** through a hospital-grade HEPA filter that removes 95% of bacteria, so it is not the cabin air making you ill. Poor hygiene practices from your fellow travellers is likely to be the culprit.



Largest 'Active' Aircraft

The **largest 'active' aircraft** in the world is the Antonov An-225, otherwise known as 'Mriya'.

It was built in 1988 in Ukraine by the SSR and was created to carry the Russian version of the Space Shuttle.

Only one aircraft has ever been built. It has 6 engines, 32 wheels and a Maximum Take-off Weight (MTOW) of 640 tonnes.



Emergency Doors

A commercial aircraft door **will not open in flight** because it is bigger than the door frame itself and the door opens inwards towards the cabin, before sliding outside the aircraft which cannot be done with the pressure difference that occurs in flight



National Flags

Most planes flying internationally have their **home country's flag painted on or around their tails**. Generally, the flag is facing the proper way round on the left (port) side of the aircraft, and backward on the right (starboard) side..



Seats are getting smaller

Over the 20 years since Avia Solutions was formed, the average economy seat pitch has declined from 34"-35" to 30"-31". The average seat width has also reduced from 18.5" to 17".



Emissions

In 2017, aviation accounted for 3.77% of the EU's greenhouse emissions, compared to 19.35% resulting from road transport



Highest altitude

In 2018, an experimental glider reached an **altitude of 76,100 feet**, which is the highest altitude ever reached by humans aboard an unpowered fixed-wing aircraft.

Airport Valuations

45% of airport passengers experience a privatized airport when they fly. Valuing an airport is a complex process, particularly during this Covid impacted period. If only it were as simple as looking at recent passenger growth trends

