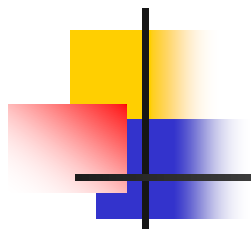




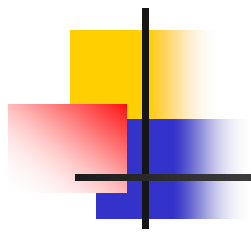
IAOPA World Assembly Beijing

Martin Robinson
Senior Vice President IAOPA



The aim

To consider some of the
global trends in General
Aviation and Aerial Work
operations.



General Aviation

The term General Aviation is the ICAO generic term used to describe flying activities which are not Commercial Air Transport (CAT) or Military (Mil) Aviation.

Ariel Work Operations (AWO) are a subgroup, which for the purpose of this presentation is included in the term General Aviation (GA).



General Aviation

Also includes:

- Sports flying
- Recreational flying
- Flight Training
- Personal Air Transport (self-fly business/touring)
- Business Aviation (Corporate Aviation)
98% of these flights take place outside of controlled airspace.

General Aviation Aircraft



More General Aviation Aircraft



Models and RPAs





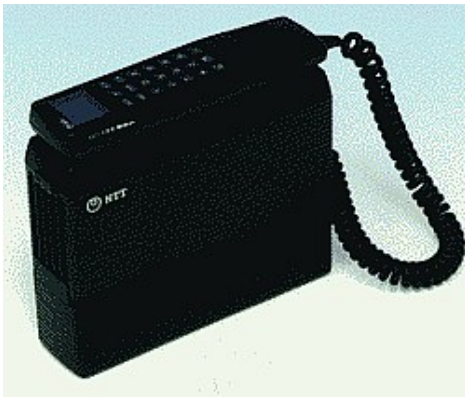
1st February 1990

This was the year I joined AOPA in the United Kingdom.

General Aviation was a little different back then but I do remember the association's concerns were about Mode S Transponders and 8.33 kHz radios.

But what else was different?

Mobile Phones



How about Televisions



Computers and Laptops



What was I flying then?



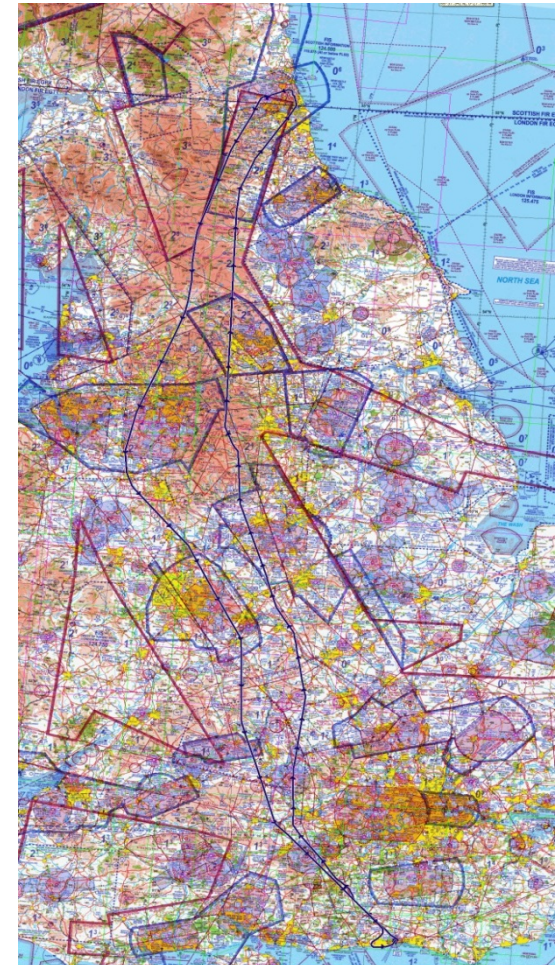
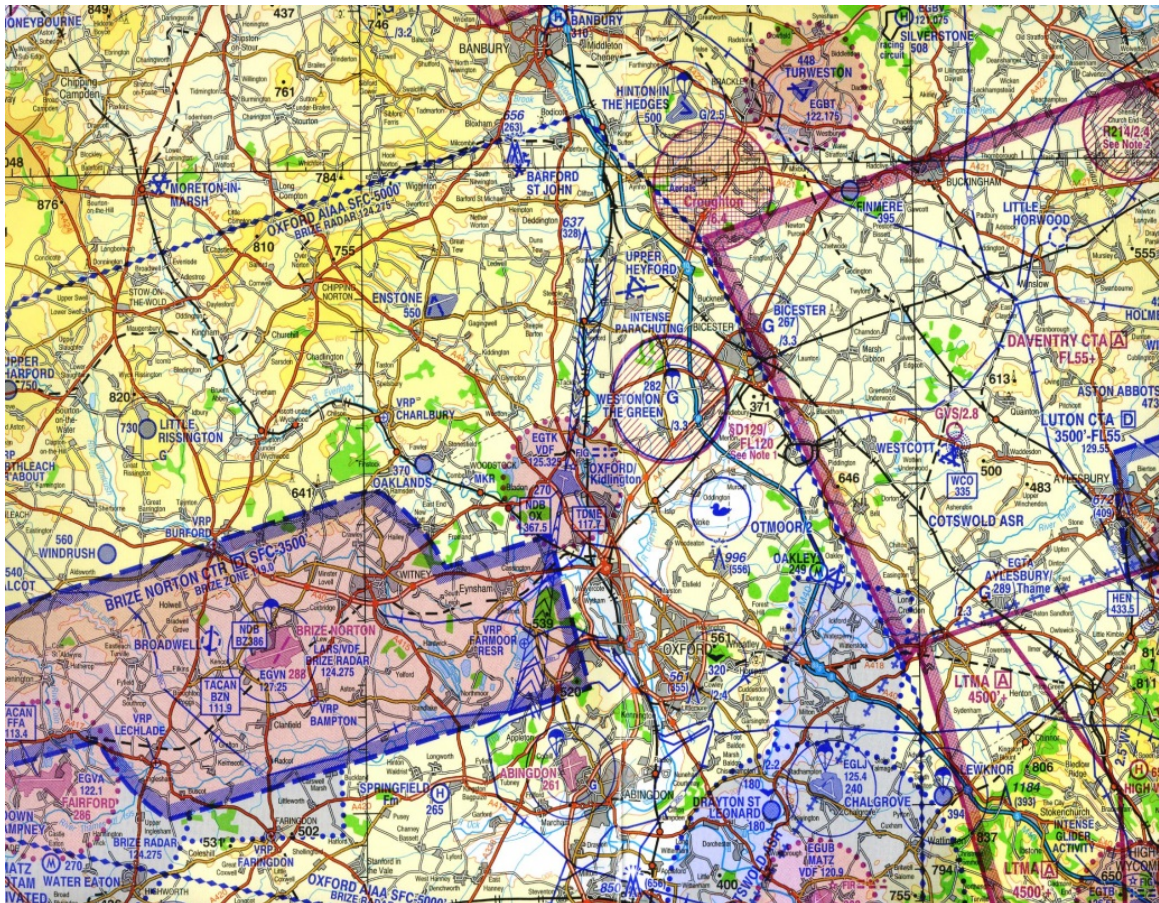
And what am I flying now?



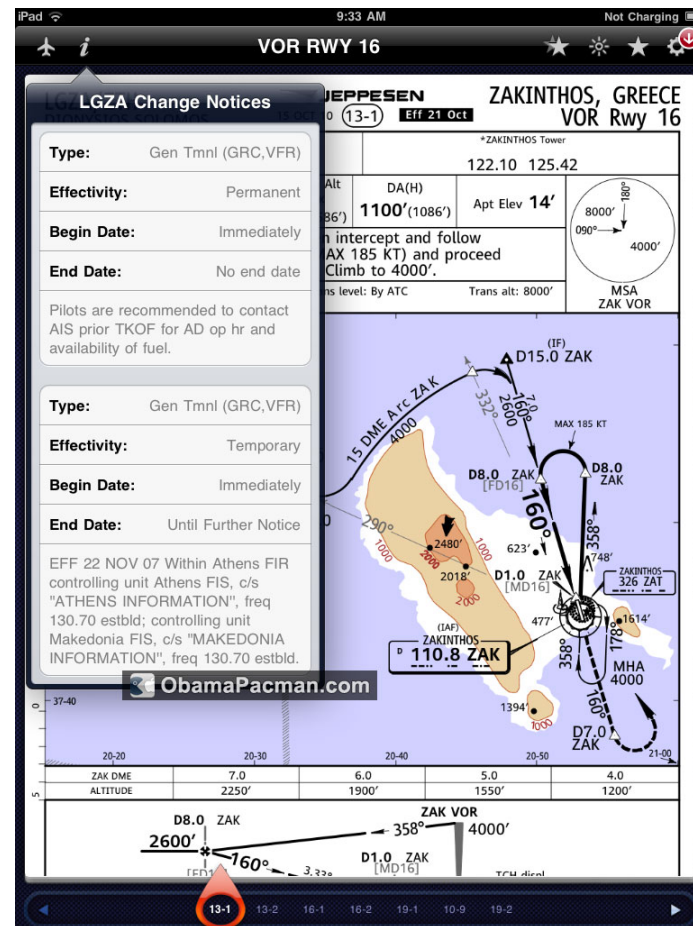
But the cockpit !



Charts of the UK airspace



Use of Tablets – weather and NOTAMS



What does your cockpit look like?



A ?

... or B ?

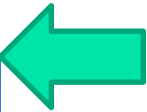


Today's Typical Cockpit



1930s Aircraft and Cockpit





Latest Cockpit Design



The Jets



Both these aircraft are GA



One is VFR only,
the other both
VFR and IFR





The UK

In 1990 we had a total fleet of 7146 single and multi piston engine aircraft. The majority being single engine.

In 2013 that figure had grown to 8809 again single and multi piston.

Interestingly the numbers show that in the UK this represents about 55% of the total, when you include gliders, helicopters and ultra lights.



Single and Multi piston engine aircraft

1990 in the USA

- S/E total 165,000
- M/E total 23,000

2012 in the USA

- S/E total 129,000
- M/E total 14,000

Average age 39 years



Pilot Certificates

1990 USA

- Private 300,000
- Total 700,000 (inc. CPL/ATPL)

In 2013

- Private 180,000
- Total 600,000
- Student starts back to the 1990/91 level of 120,000

1990 UK

- Private 25,000
- Total 50,000 (inc. CPL/ATPL)

In 2013

- Private 18000 (active)
- Total 60,000
- New license annual issues average down to 2500 from 3500

The economic value of GA in Europe
is between €14 - €28 billion p.a.



- Maintenance and Production 20,000+
- Flight Schools 6,000+
- Airfields 5,000+
- Jobs in GA 110,000+

Aircraft sales, Insurance, Fuel sales etc.
all contribute to the economic value.

The economic value of GA in the UK
is between £1.4 - £2.8 billion p.a.



- Maintenance and Production 300+
- Flight Schools 600+
- Airfields 600+
- Jobs in GA 11000+

Aircraft sales, Insurance, Fuel sales etc.
all contribute to the economic value.

The economic value of GA in the USA is estimated at \$150 billion p.a.

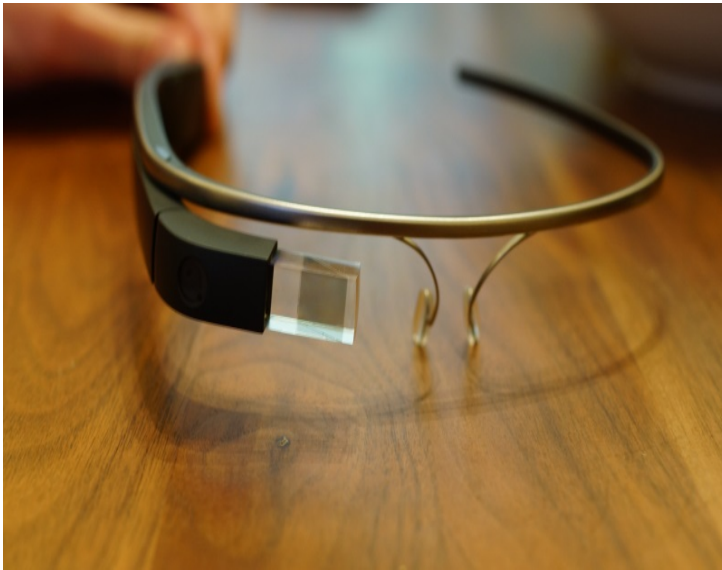


- 1.2 million jobs
- \$150 billion going into the US economy annually.
- 14,000 airfields connecting local communities

Aircraft Sales, Flight Training, Insurance, Fuel Sales etc., all contribute to the economic value.

Future

Google glasses may be able to provide a 'heads up' display for GA



GA will continue to embrace new technology as it comes along

It's a well known fact that in 1975 the average life of a computer was 7 years, today its 2 years.





General Aviation perspective for future growth

- A 10% growth p.a. over 10 years equals a 250% growth in revenues and jobs.
- GA will not be a means of mass transportation, but it can occupy an important niche in personal travel.
- Very Light Jets will significantly expand the market.
- New fuels and engines will improve ecology.
- New avionics and ATM technologies will improve safety and efficiency.
- Regulatory impact should match the activity and be proportionate to the risk.

