Development of the Modern Radiocommunication Ecosystem

Aviation Communication

Aviation Communications

- **Mediator** **John Mettrop**
  UK Civil Aviation Authority
  Chairman Working Party 5B

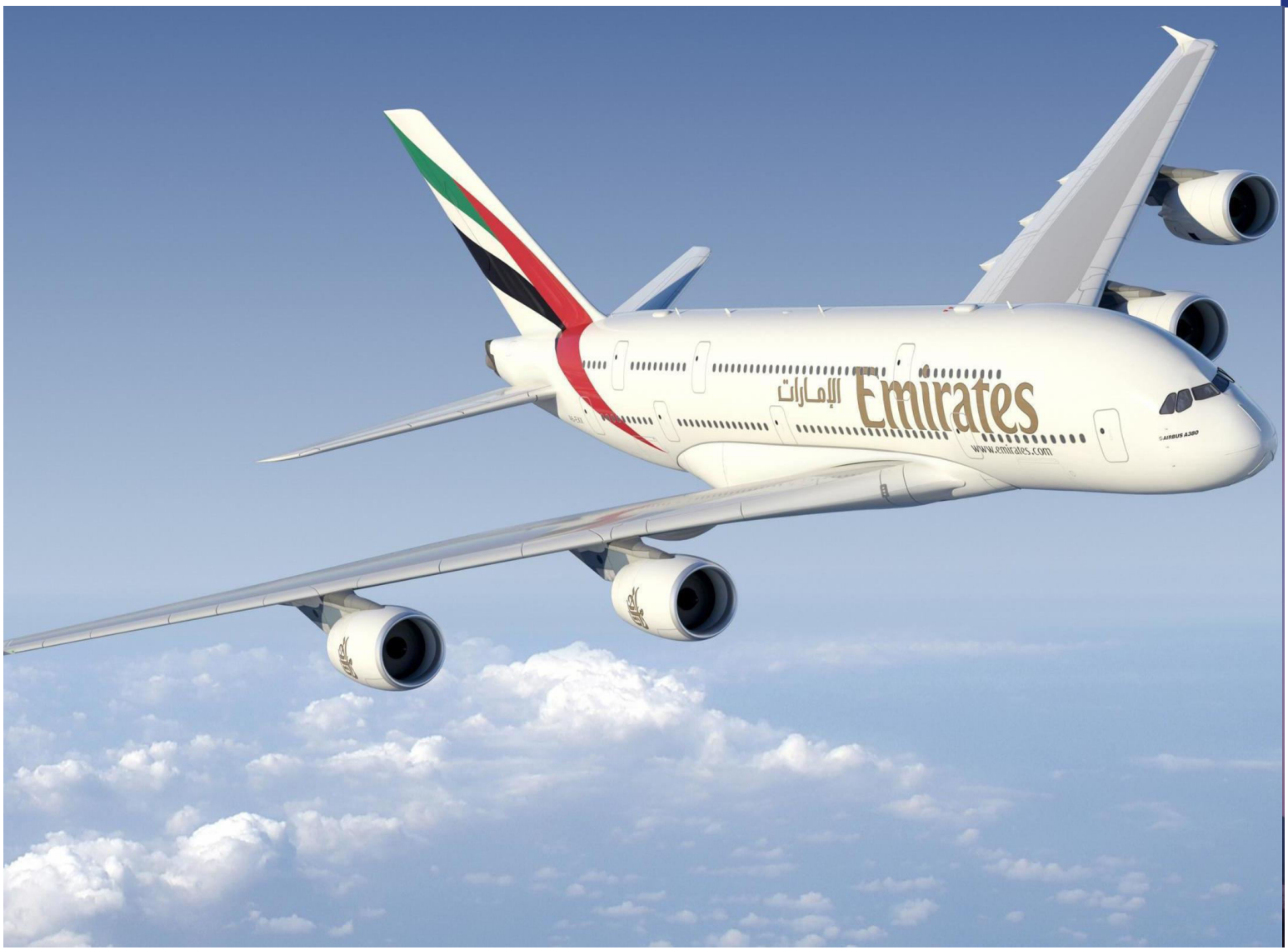
- **Speakers** **Claude Pichavant**
  Airbus

  Joseph Cramer
  Boeing

  Raffi Khatcherian
  Eurocontrol

  Thomas Weber
  European Communication Office

Evolution of Aviation



ICAO Standardised Systems

	NAV	COM	SUR
1950	ILS VOR		
1951		HF	
1952	NDB DME Marker	VHF	
1955			SSR
1968	Loran		
1983	MLS		
1995		Satellite	ACAS (TCAS)
1996	GNSS	VDL 2	Mode S
1999		HF Datalink	
2001	GBAS	VDL 3 VDL 4	
2002			ADS-B

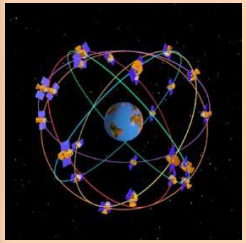
1995

Satellite

ACAS (TCAS)

1996

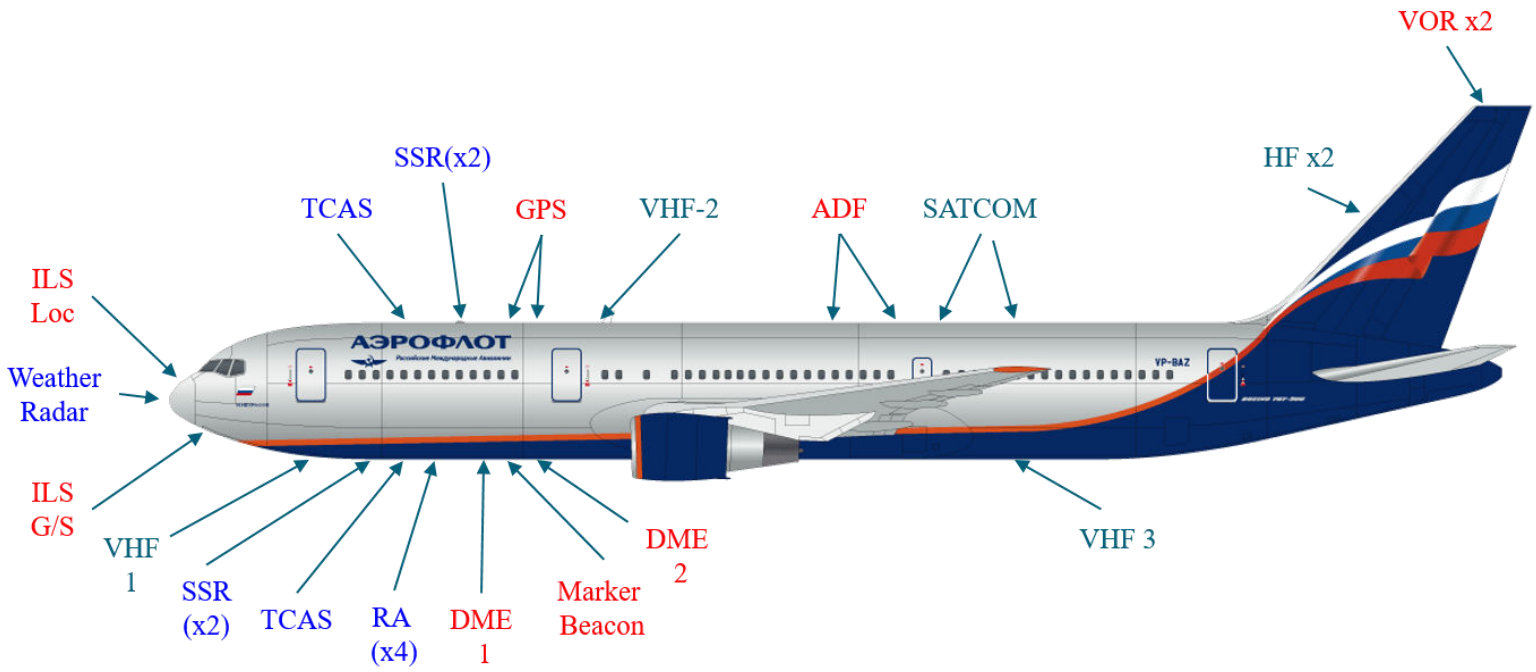
GNSS



VDL 2

Mode S

Resultant Aircraft Fit



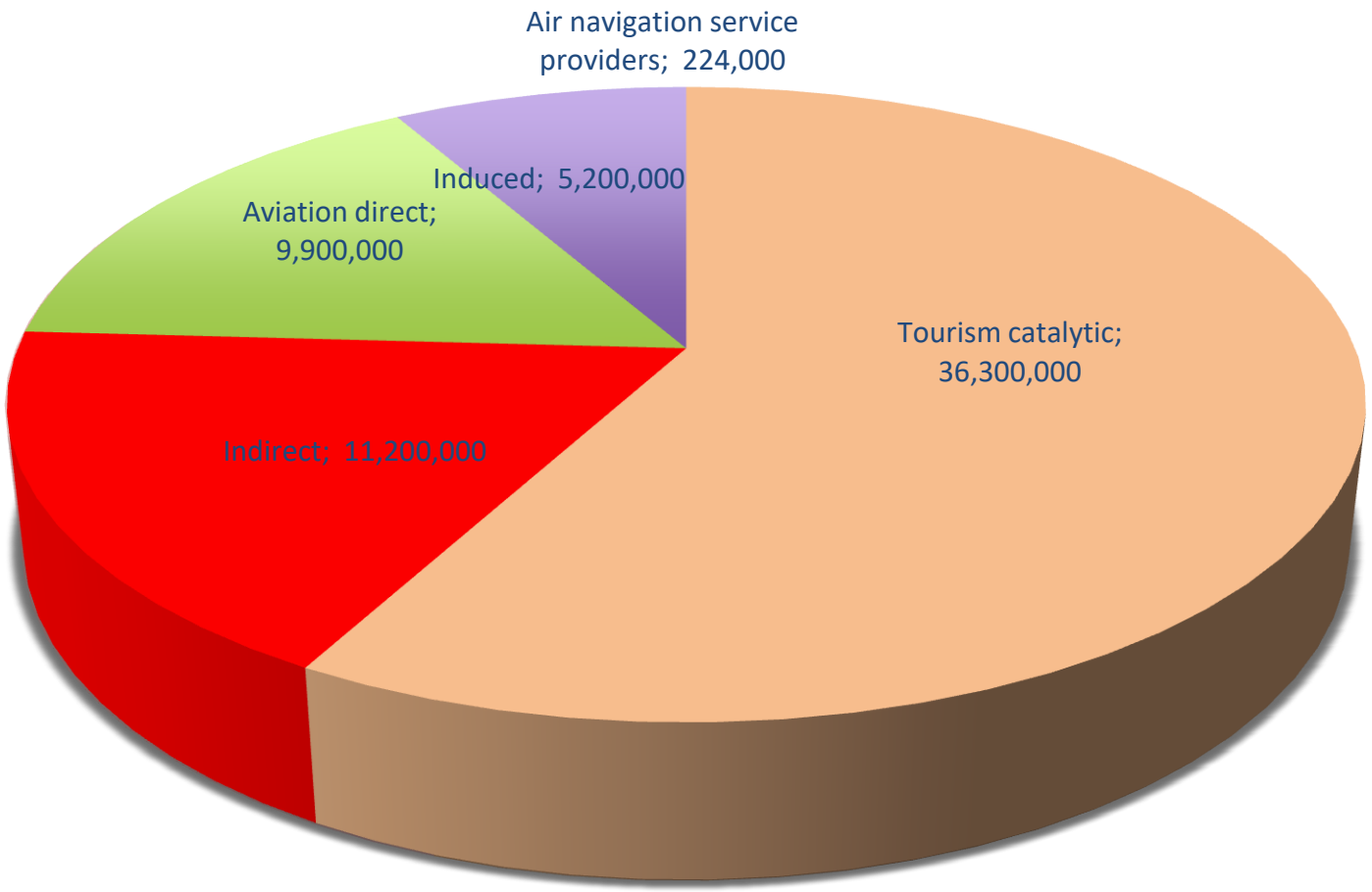
29 Antenna covering 3 basic Functions Communication/Navigation/Surveillance

Commercial Aviation by the Numbers

Civil Aviation Authority

Figures given are for 2014

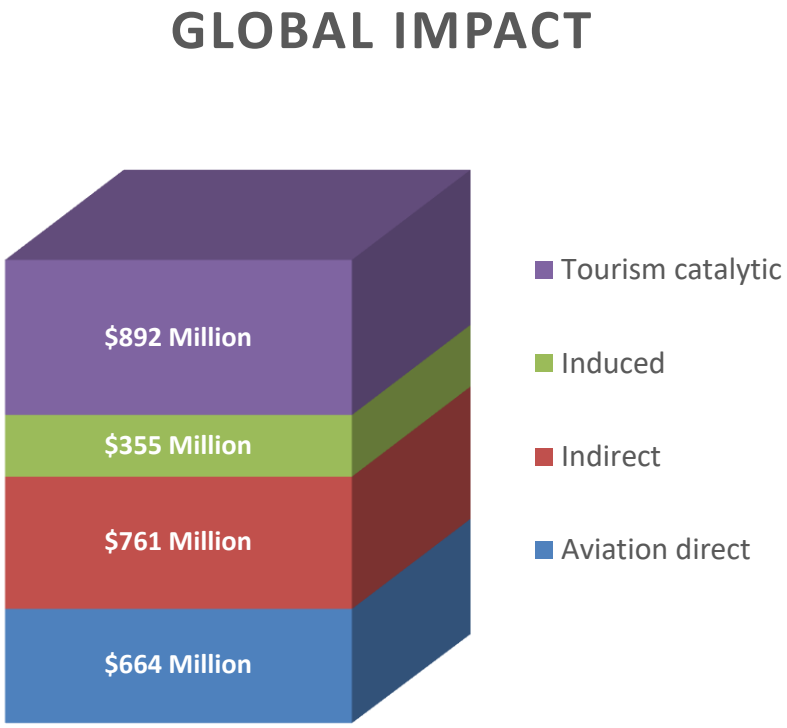
Commercial Aviation - Jobs



Total: 62 Million

Figures given are for 2014

Commercial Aviation - Finances



- $2.7 Trillion
- 3.5% of Global GDP
- As a State Ranked 21st based on GDP

Figures given are for 2014

The Future

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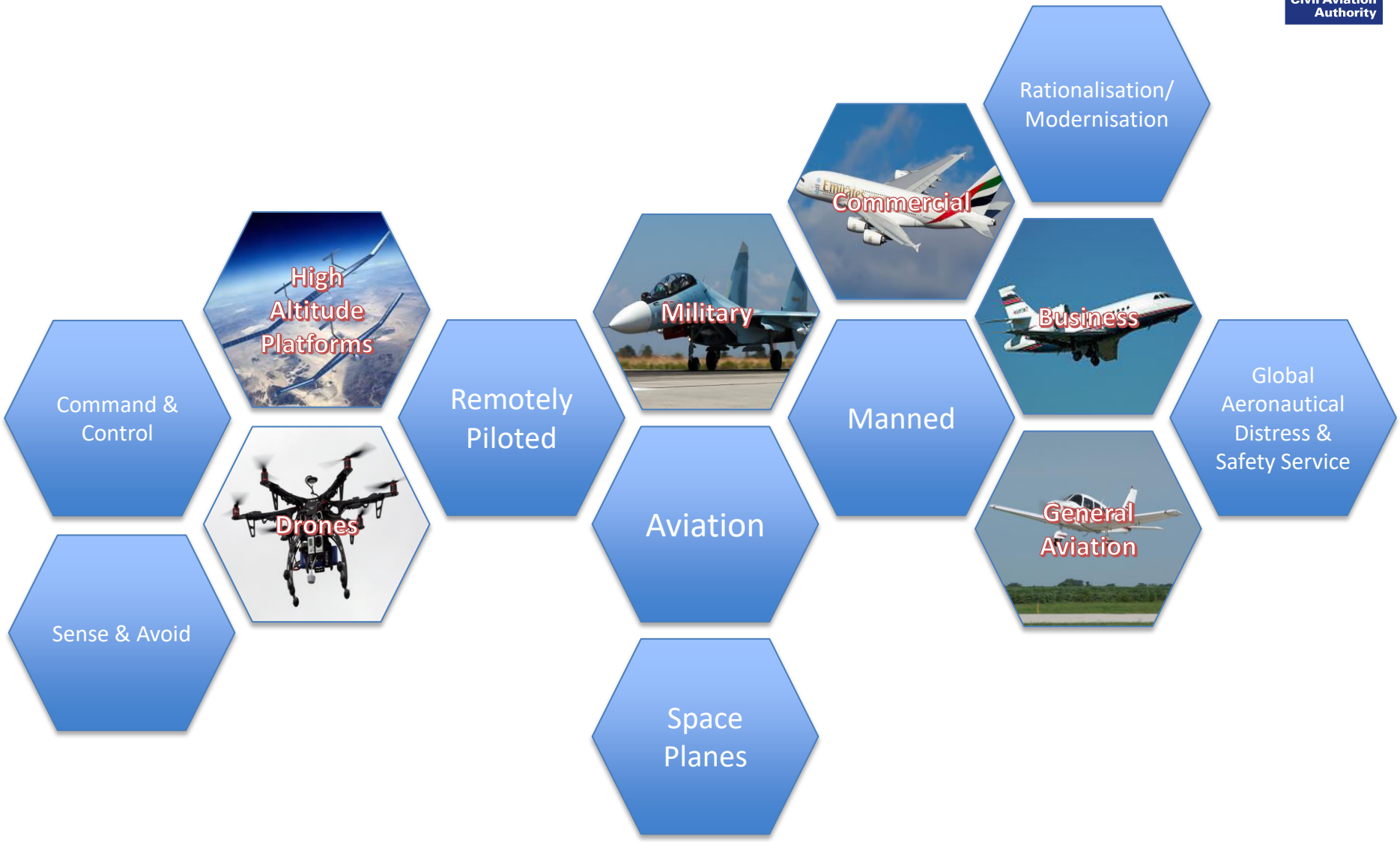
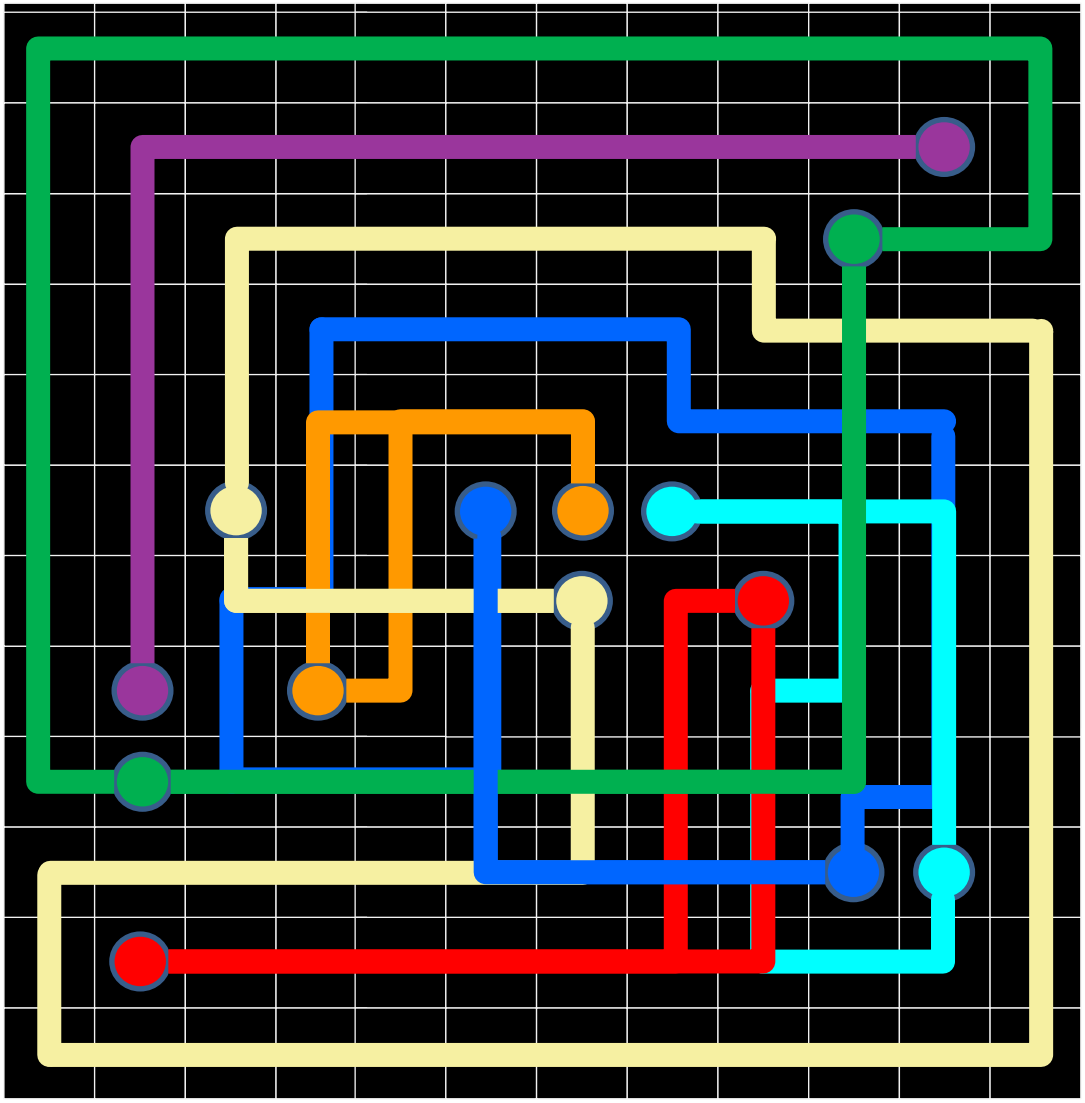


Approach



Civil Aviation Authority

Glossary

ACAS:	Automatic collision avoidance system
ADF:	Automatic direction finding
ADS-B:	Automatic dependent surveillance- broadcast
DME:	Distance measuring equipment
GBAS:	Ground based augmentation system
GDP:	Gross domestic product
GNSS:	Global navigation satellite system
GPS:	Global positioning system
HF:	High frequency
ILS:	Instrument landing system (Loc: localiser, G/S glide slope)
MLS:	Microwave landing system
NDB:	Non-directional beacon
RA:	Radio altimeter
SSR:	Secondary surveillance radar
TCAS:	Tactical collision avoidance system
VDL:	VHF data link
VHF:	Very high frequency
VOR:	VHF omni-ranging