

# CAA New Zealand Composite Certification History

Peter Gill

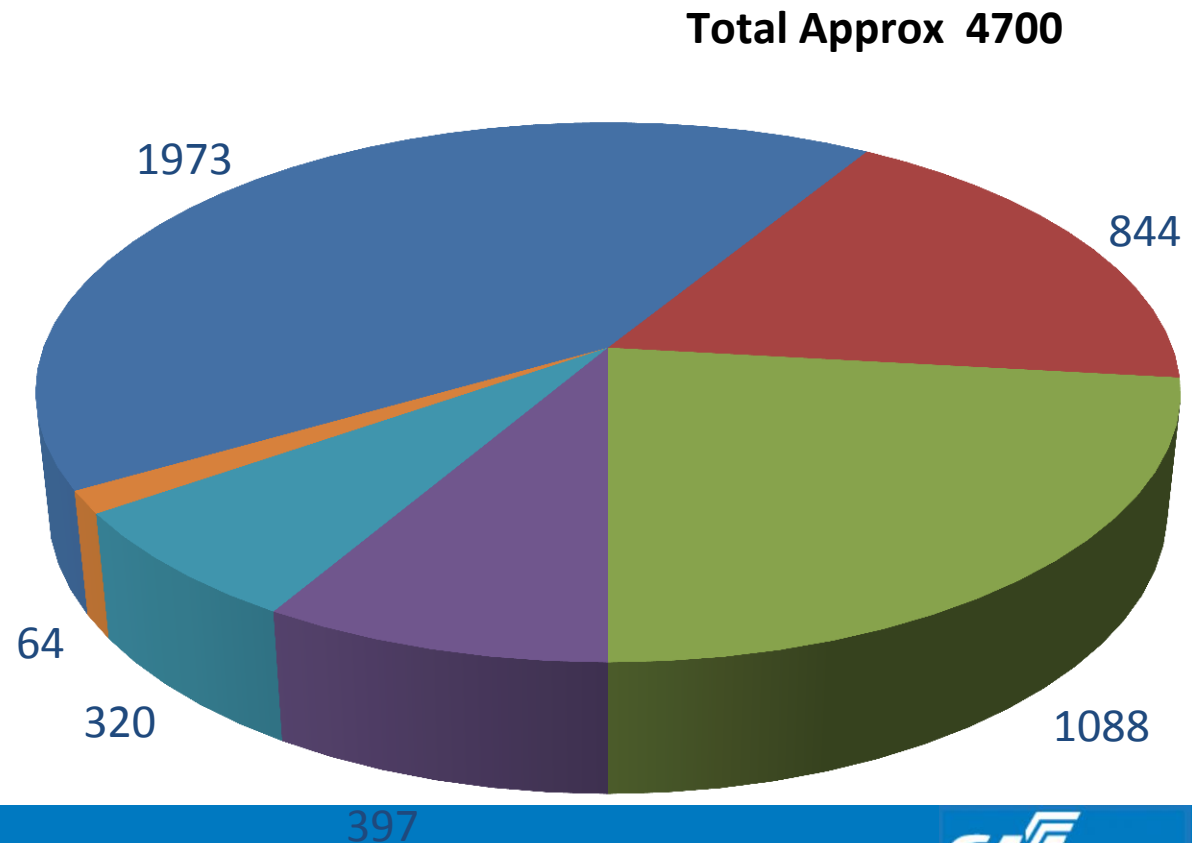
Team Leader Design

Aircraft Certification Unit

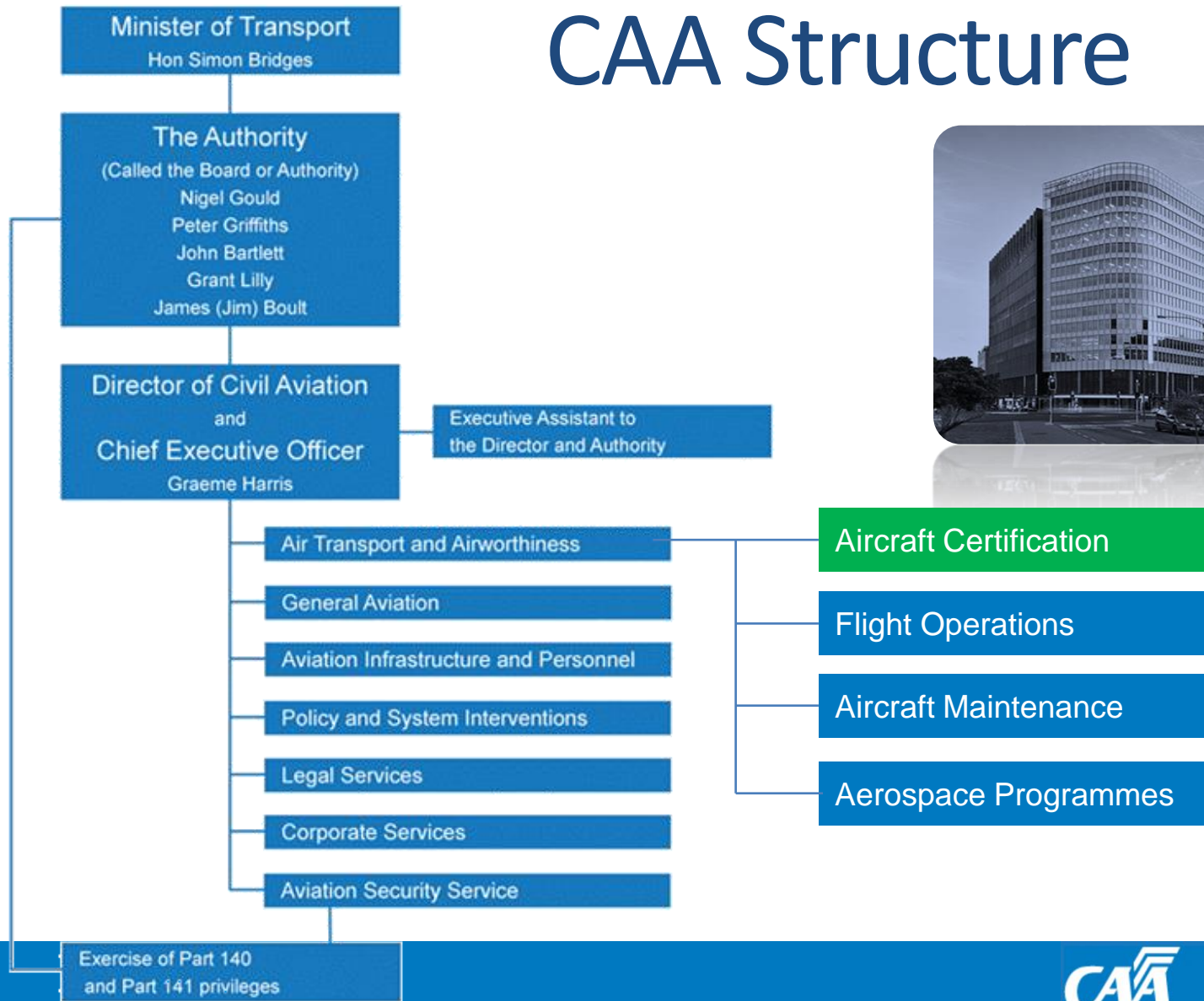
# New Zealand Aviation System

## Aircraft Class

- Aeroplane
- Helicopter
- Microlight
- Glider
- Amateur Built
- Balloon



# CAA Structure



Aircraft Certification

Flight Operations

Aircraft Maintenance

Aerospace Programmes



# Aircraft Certification Unit

Shaun Johnson  
Manager

## Airworthiness

David Gill  
Team Leader Airworthiness



Gary Leach  
Airworthiness Inspector



Owen Olls  
Airworthiness Specialist



## Design

Peter Gill  
Team Leader Design



Greg Baum  
Airworthiness Engineer



Andrea Wadsworth  
Airworthiness Engineer



Jason Ashworth  
Airworthiness Engineer



## Avionics

Andy Rooney  
Team Leader Avionics



Alessio Caldara  
Airworthiness Engineer



Clayton Hughes  
Avionics Support Engineer



TBC  
Airworthiness Engineer

## Aircraft Registration

Julia Reed  
Aircraft Registrar



Judi Fuller  
Assistant Aircraft Registrar



## Administrators



Carmelita  
O'Connor

Angela  
Venn



# Certification Prior to 1995

- British based Requirements
- Issued Certificates of Type Approval for Products and Equipment/Appliances
  - 12 Aircraft Certificates of Type Approval
  - 3 significant Supplemental Type Approvals
  - 4 Radio Type Approvals
  - 30 General Equipment Type Approvals (10 firelighters)
- Composites limited to secondary structures such as fairings, wingtips, cowlings etc

# Certification Post 1995 – Part 21

- 3 new Aircraft Type Certificates
  - Pacific Aerospace 750XL (Composite cowling, cockpit enclosure, cargo pod, fairings)
  - Alpha Aviation R2000 series (composite cowlings, fairings)
  - B22 Bantam microlight (composite cabin fairing)
- 320 odd STC's
  - 50% Aircraft Interior Modifications
  - 25% Helicopter Role Equipment



# Typical Helicopter Role Equipment

## AGRICULTURAL SPRAY SYSTEM

- Composite liquid tank
- Spun composite spray Booms
- Welded centre Structure



# Other Examples

Interior Monuments



Helicopter Cargo Pod



# General Certification Philosophy

- Design Certification
  - Structural testing with special factors
- Production Certification
  - Manufacture by Company holding Part 148 Manufacturing Organisation Certificate with:
    - CAA Accepted Manufacturing Processes
    - Quality management System

# Future Projects

- Innova Composite Helicopter KC530

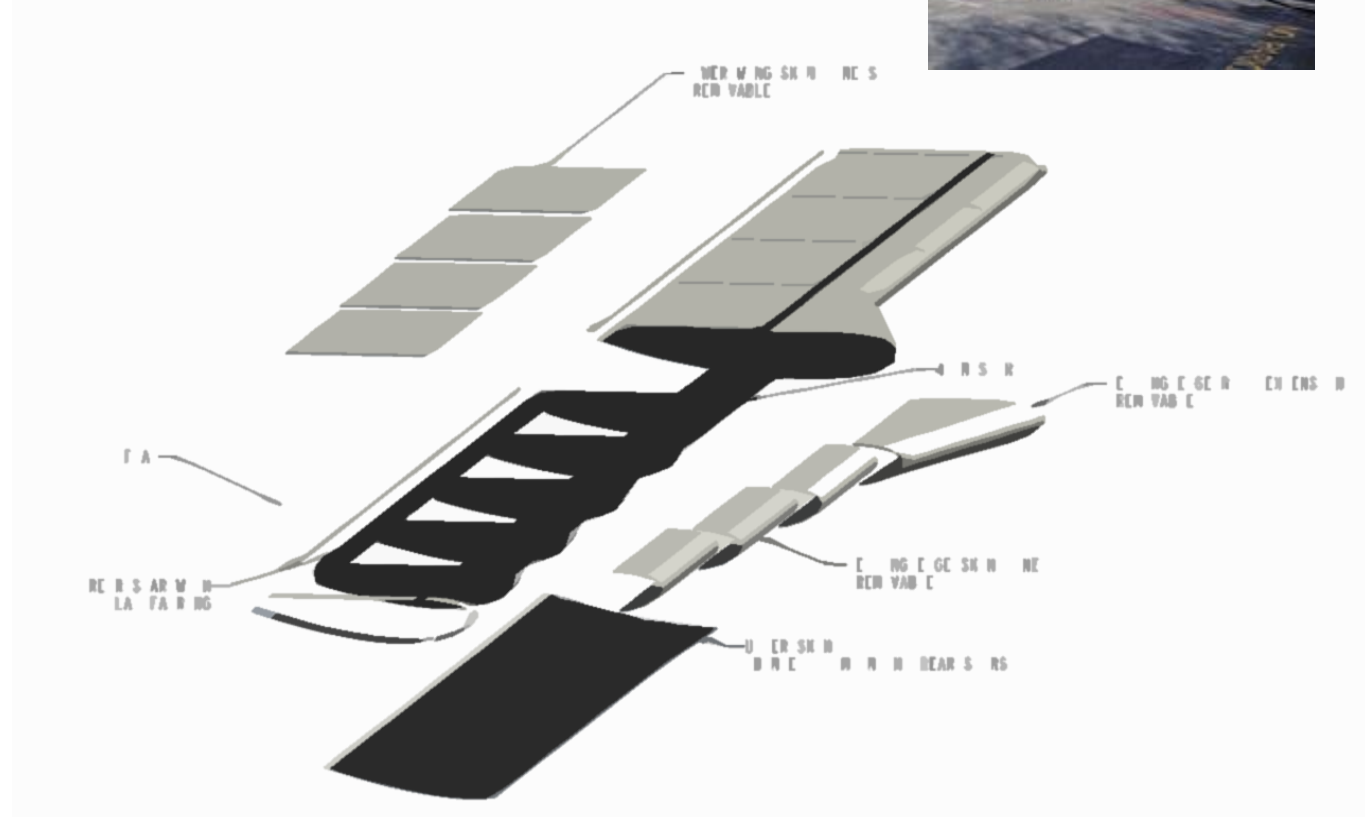


# Future Projects Contd.



- Cresco Replacement Wing

- Design Features:



# Questions?