



Airworthiness and Sustainmenta Transition in Progress

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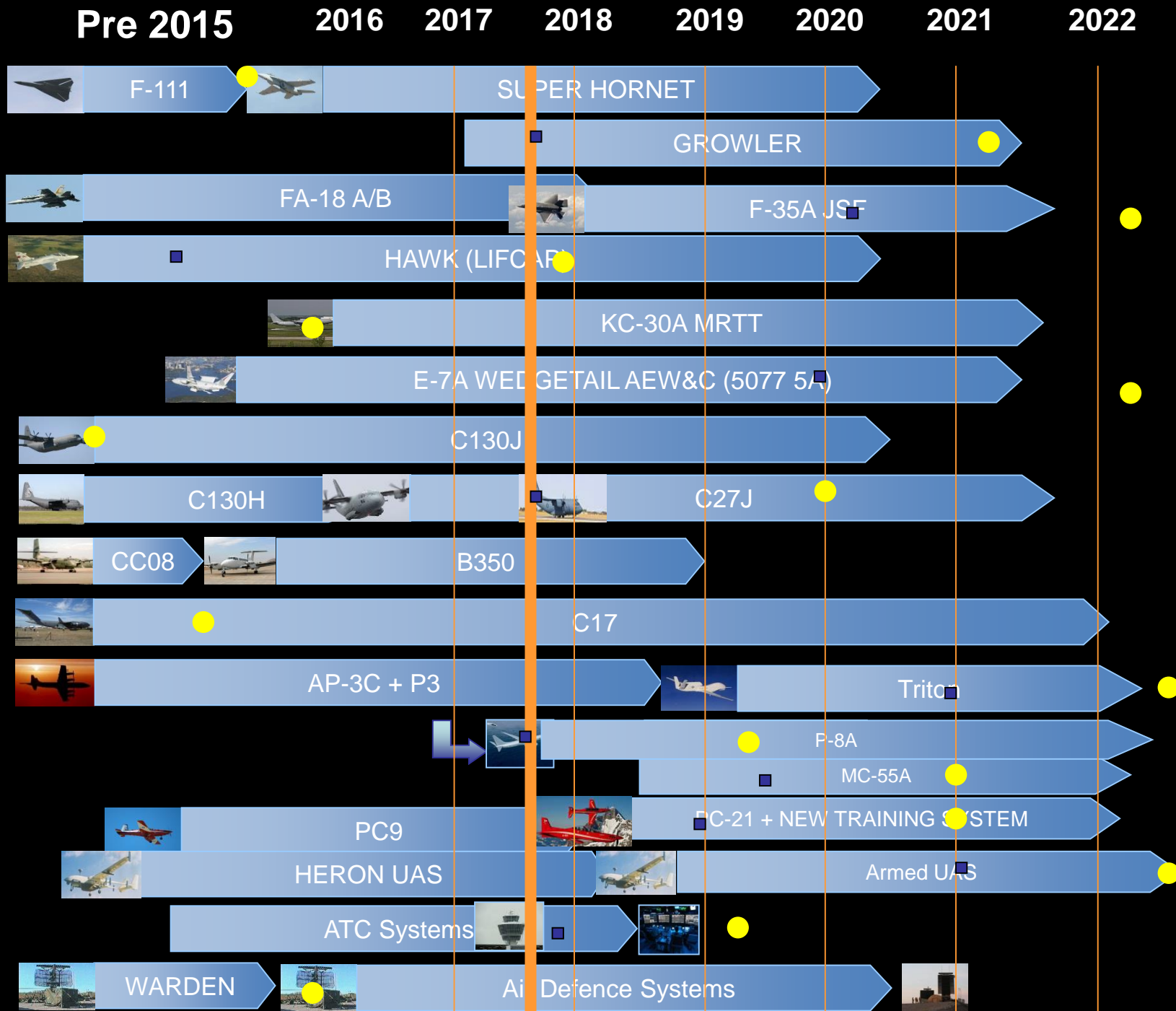
AIR FORCE



What I Might Talk about....

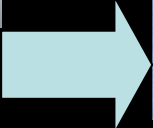
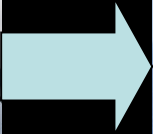
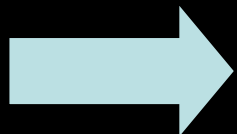
- Aircraft Transitions
- Ageing Aircraft vs New Aircraft
- Middle Age challenges
- Airworthiness Systems
- Technical Reform
- Battle worthiness

Air Force Transition



Not the only ones...

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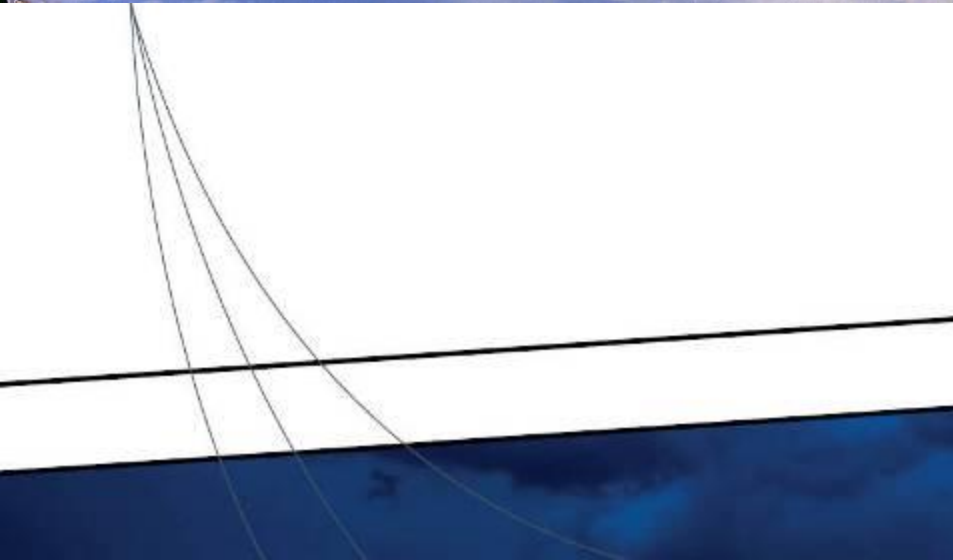




Generational Change

- GAC Sabre – 1954
- Mirage III – 1963
- F/A-18 A/B Hornet – 1984
- JSF – 2014/2018
- JSF replacement ?? (2055)

But we have done this before...



Old Vs New

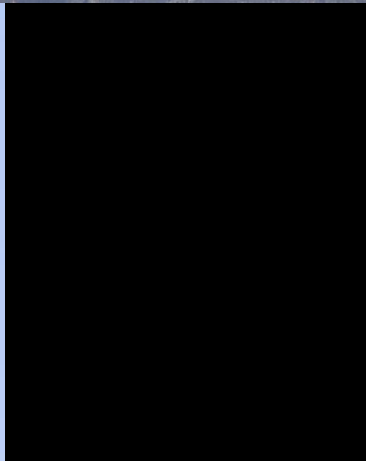
- Introducing new Aircraft whilst Operating the Old
- JSF replacing Hornet
- P8 replacing P3
- Romeo Replacing S-70B
- C-27J eventually replacing Caribou
- PC-21 Replacing PC-9

Ageing Aircraft



Middle Aged

- Mid-Life Upgrade (MLU)
- Capability Assurance Program (CAP)
- Block Upgrade Program (BUP)
- Follow On Modernisation (FOM)
- Life of Type Extension (LOTEx)



Regulations – Seminal Moment

- Defence Aviation Safety Regulations (DASRs)
- Based on Contemporary ICAO Definitions
- DASR Published EOY 2015
- Fully Implemented EOY 2018
- New Defence Aviation Safety Authority (DASA)
 - DGTA
 - DDAAFS
 - DACPA
- Better Use of Industry – Blended Workforce
- International Maintenance Interoperability
- Trade Structures

Risk Treatment Strategy:

Phase 1 (IOC) and Phase 2 (FOC)

- **Phase 1: Lock in current safety (Low risk / low reward)**
 - Minimal change to existing structures, plans, contracts
 - Controlled transition, educate progressively
 - 'Lock in' current levels of safety
 - Transition pace can be quick
 - All Defence orgs 'cut over' on 30 Sep 16
 - Interface with old regulatory system minimised
- **Phase 2: Exploit full DASR (Low risk / high reward)**
 - Having preserved current levels of safety;
 - Evolve management systems
 - Educate and change culture
 - Exploit benefits in a manner / rate that suits organisation
 - Exploit in combination with other reforms with integrated plans that can be properly resourced

Air Force Technical Reform

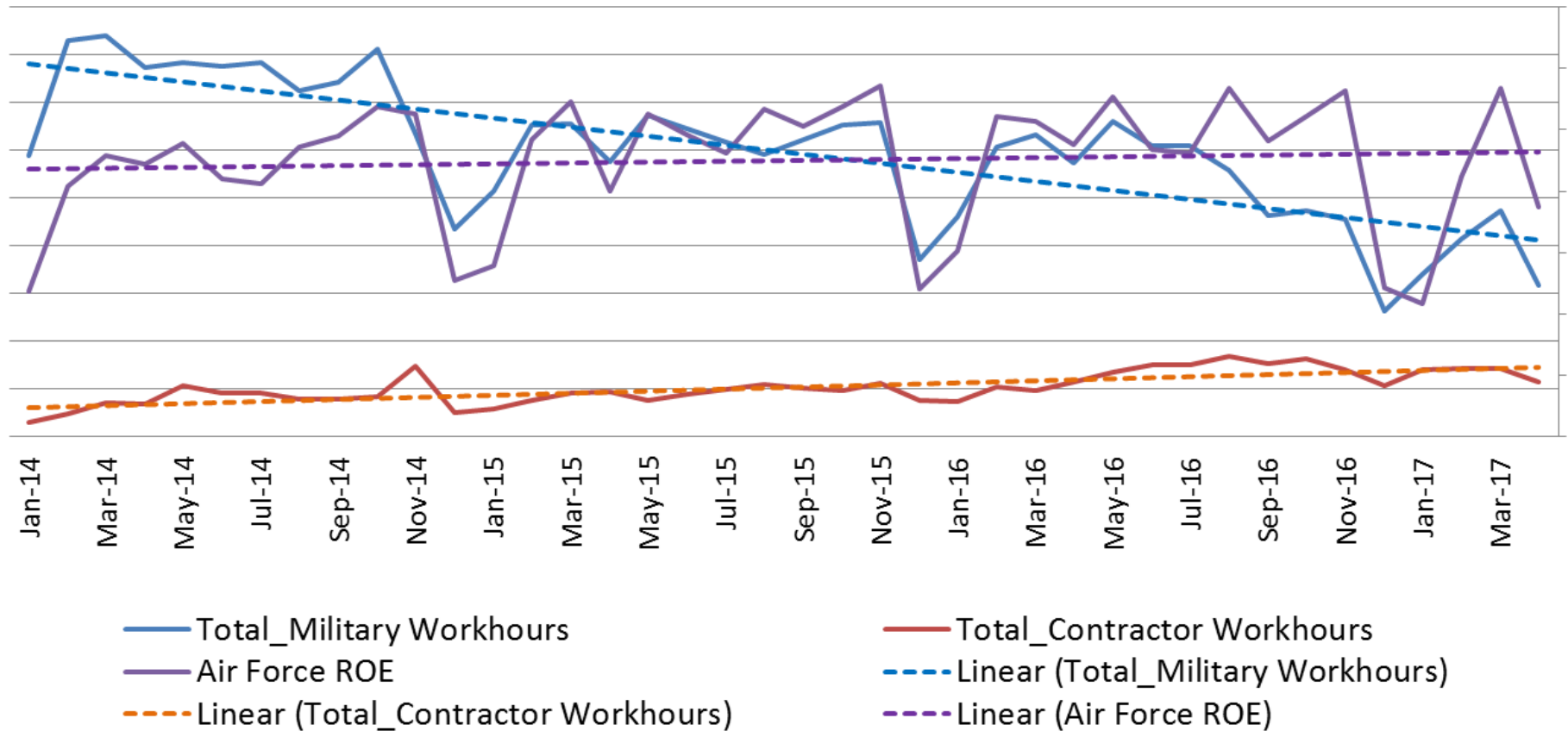
- The Air Force Maintenance Workforce is currently in a state of significant reform through the execution of efficiency and capability related Programs & Projects
- One key Program is the Maintenance Productivity Improvement Program (MPIP)
 - Increased productivity through cross-platform and single platform initiatives
 - Productivity improvement is enabling the release of positions to support capability requirements

Examples of Maintenance Reform

- Workforce Size Reviews
- Workforce Structural Review
- Fleet Management Reform
- Independent Maintenance Inspection Review
- Cross-Trade Employment
- Initial Employment Training rationalisation
- Multi-National Interoperability
- WiFi on Flightline
- Publications Rationalisation
- Time Recording Management
- C-17 Home Station Check
- Centralisation of Maintenance Control

Measuring Maintenance Reform

Air Force OM Military & Contracted Workhour



AIR FORCE

UNCLASSIFIED

Battle Worthiness

- Can I fly the aircraft
 - Airworthiness
- Can I fight the Aircraft (and survive)
 - Battle worthiness



Questions?