Application of Asset Management to Military Aircraft Sustainment:

JSF Asset Management – 21 Jul 17

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AIR FORCE
EVOLUTION

"Asset management is about extracting value more than what you do to assets. It is about using assets to deliver value and achieve the organisation's objectives"

Asset Management – an anatomy version 3 December 2015
The Institute of Asset Management

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JSF context 1: A global program

The Australian F-35A Integrated Sustainment System is primarily comprised of the:

F-35 Global Support Solution (GSS)

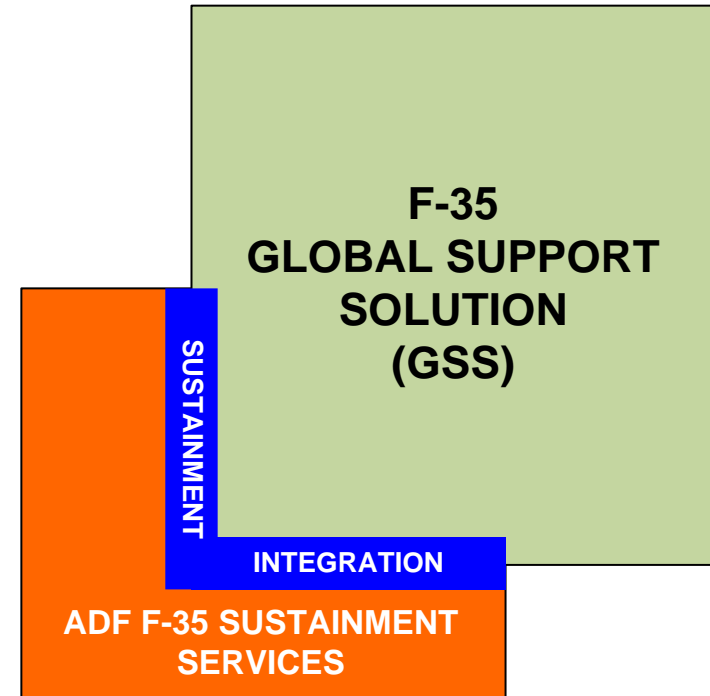The services provided by the GSS are customised where possible to meet Australian specific:

Sovereign Sustainment Requirements

However, as the GSS <u>does not</u> provide an entire Sustainment Solution for the Australian F-35 capability. GSS 'gaps' are filled through:

ADF F-35A Sustainment Services

The effective and efficient capability based sustainment services are enabled through

Sustainment Integration

F-35 GLOBAL SUPPORT SOLUTION (GSS)

SUSTAINMENT

INTEGRATION

ADF F-35 SUSTAINMENT SERVICES

A global cooperative program. Not FMS.

JSF context 2: Sustainment integration

Global Support Solution

INTERFACE / ADAPTOR

The interface (between the Global Support Solution and the ADO) will be critical in achieving Australian FIC Integration and optimising capability realisation. The interface needs to describe the people, policy, process and ways of working as part of a global support system

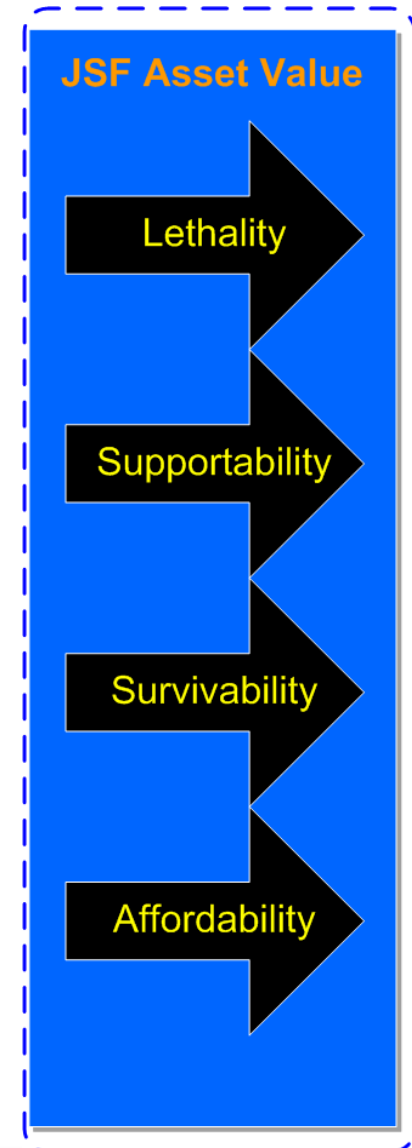**ADF Sustainment**

JSF context 3: Different boundary conditions

Aspect	Less…	More…
Resources	Resource control	Resource orchestration (bringing together teams)
Decisions & Options	"Internal" decisions and options only considered	Facilitating of external decisions, interactions and options
Value	Optimising Air Force Value	Maximising whole of "ecosystem" value to our allies and partners to maximise Air Force value
Fleet focus	Working with a national fleet	Working within a global fleet
Logistics	Traditional ILS	Autonomic
Implementation	Implementation by self	Influence "blueprint" design and architecture of the support system
Systems approach	Systems	Interoperable systems of systems and sub-systems
Generational change analogies (reconceptualising the same functions into so much more…)	• PC-Desktop / mouse • Video recorder cassette tape • Paper files • Analogue • Fuel • Horse and cart	• Smartphone-Tablet / touchscreen • Audio/visual files • Electronic data files • Digital • Energy • Car

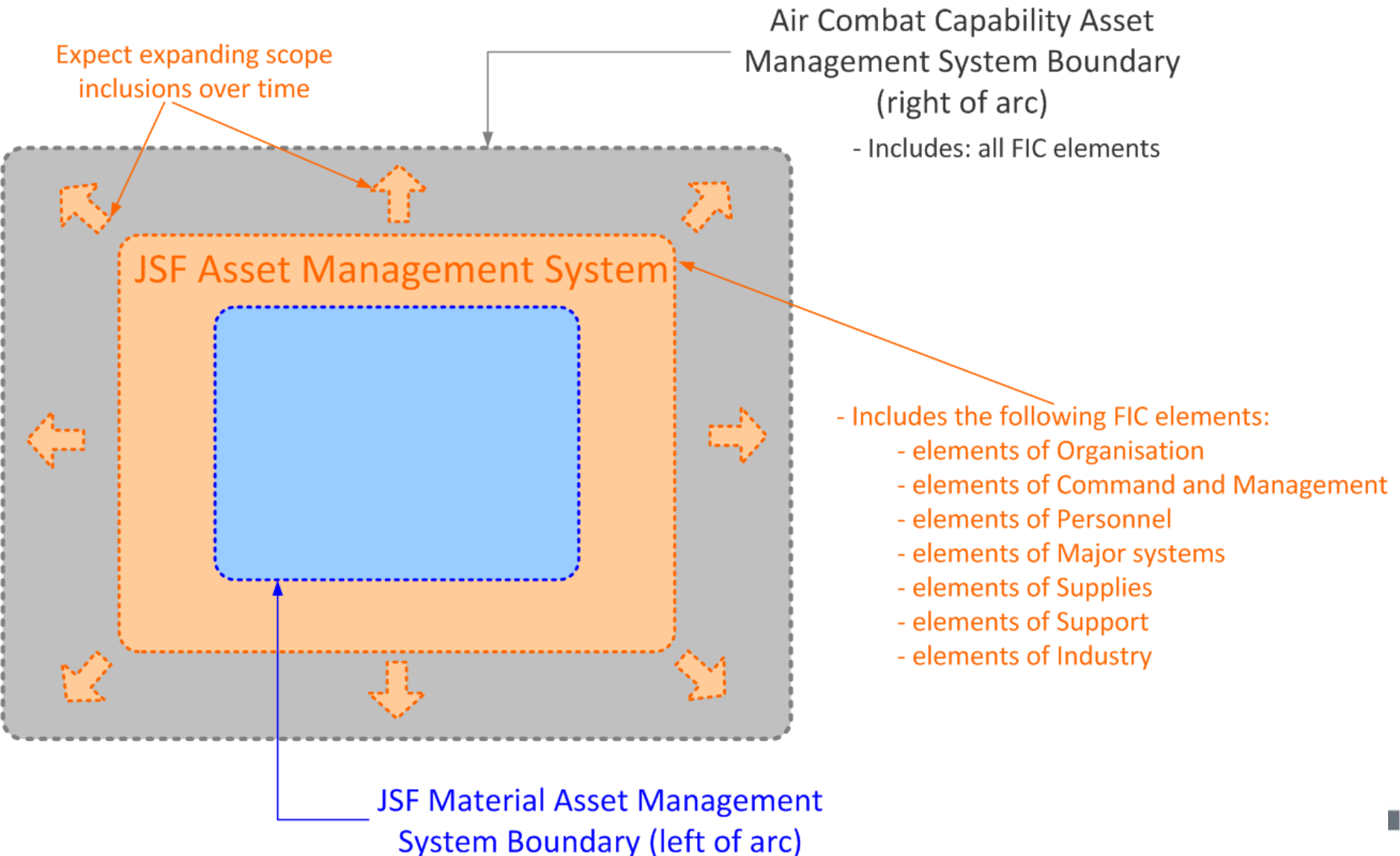# JSF Strategic Program Asset Management Plan

Key insights

Asset Management is not item management

- Asset management is:
  - Economic
  - A shaping philosophy for lifecycle decision making
- Asset Value = the 4 program pillars
- Line-of sight / traceability
- Balance between performance, cost and risk; risk includes opportunities!
- Determine the Asset Management System boundary
- Key enablers that underpin success:
  - "Soft" skills: Culture and leadership
  - Transformation (to get there)
  - Continuous improvement (evolution not revolution)
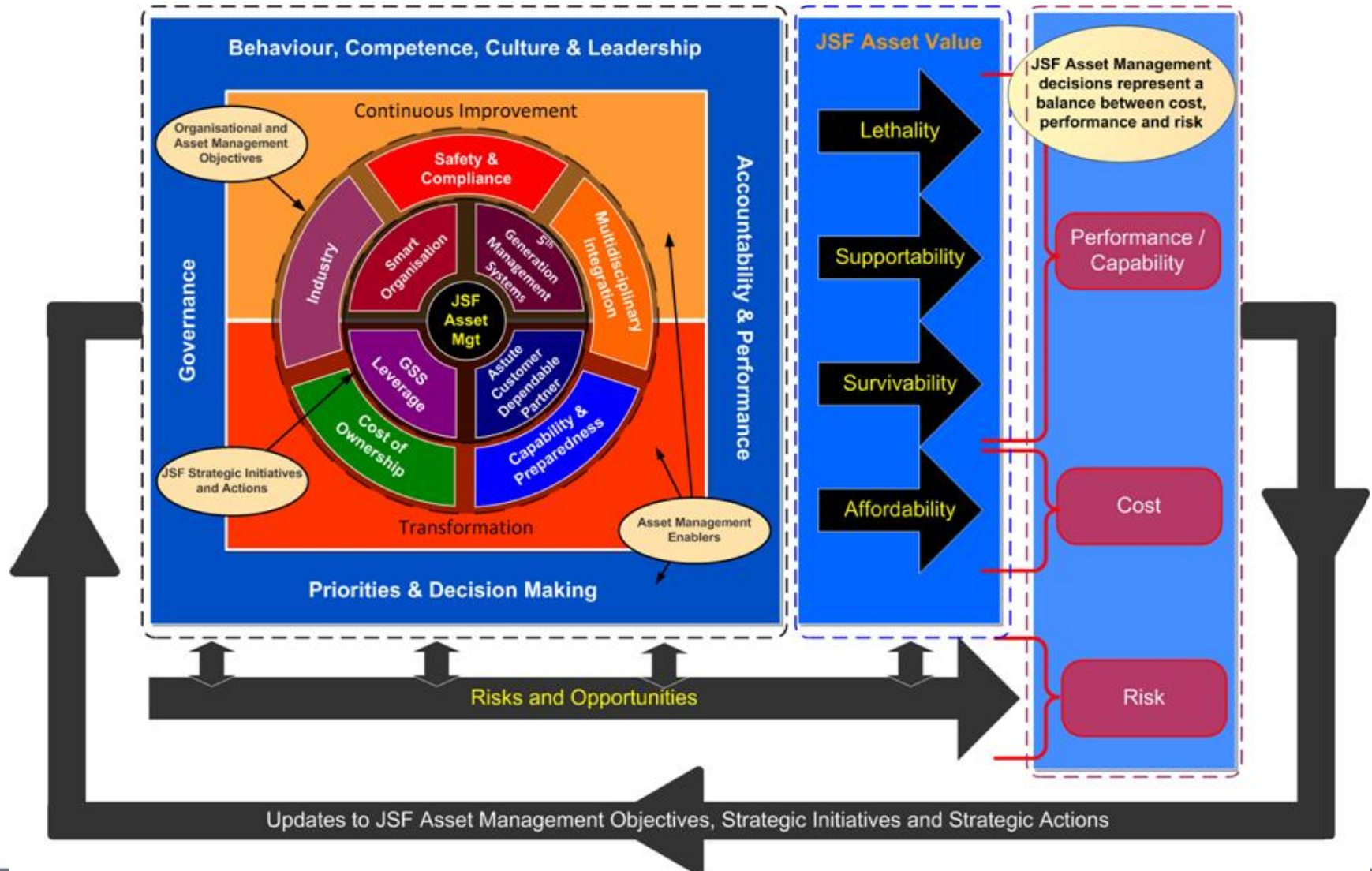- Capability lifecycle reforms

JSF Asset Value

Lethality

Supportability

Survivability

Affordability

Defining the Asset Management System

Expect expanding scope inclusions over time

Air Combat Capability Asset Management System Boundary (right of arc)

- Includes: all FIC elements

JSF Asset Management System

- Includes the following FIC elements:
    - elements of Organisation
    - elements of Command and Management
    - elements of Personnel
    - elements of Major systems
    - elements of Supplies
    - elements of Support
    - elements of Industry

JSF Material Asset Management System Boundary (left of arc)

JSF Asset Management Model: a summary

Questions?