

# *Air and Space Interoperability Council*

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## **ASCC → ASIC: A Transformed Interoperability Organization**



**Wing Commander Rod Dawson, RAAF  
Management Committee**



# Mission & Vision

- ASIC precedes NATO

-  US: 1948 (USN: 1951)

-  UK: 1948

-  CA: 1948

-  AU: 1964

-  NZ: 1965

-  US Army: 200X?

- **Mission:**

- ‘To enhance current and future Air and Space warfighting capabilities through joint and coalition interoperability’

- **Vision:**

- ‘Allies striving towards fully interoperable and integrated Air and Space forces’



# ***Standardization Products - A Strong Legacy***

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- **Aviation Fuels, Lubricants, Associated Products and Gases**
- **Air Armament**
- **Aerospace Engineering, Maintenance and Logistics**
- **Air Transport Systems**
- **Air Operations and Doctrine**
- **Aerospace Medicine, Life Support and Aircrew Systems**
- **Mission Avionics**
- **Intelligence, Surveillance and Reconnaissance**
- **NBC Defensive Measures**
- **Aeronautical Information Airfield Facilities and Air Traffic Services**



# Key Issues

## - Precipitating Transformation

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- **Staffing Issues**
- **Productivity:**
  - 103 Active Projects (One completed in 2 years!)
  - 350 published Standards
  - Balance current versus future interoperability (need to be more forward looking)
- **Broader interoperability issues – versus Standardization**
  - Bottom-Up driven
- **Not focused on Expeditionary Warfare**
- **Performance Measures:**
  - Increased coalition efficiency and effectiveness?
  - ASIC effectiveness?
  - **Business case for additional ASIC resources**



# Capstone Concept

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- **Foundation document which provides strategic direction**
  - **What has changed ...**
    - Strategic Environment, ASIC Interoperability Priorities
  - **Where ASIC is going ...**
    - Values, Vision, Mission, Key Attributes
  - **How ...**
    - **Interoperability Framework**
      - Whole of warfighting
      - Whole of capability
      - Scenario based
      - Measures of Interoperability (Metric based)



# Functional Concepts: (Whole of Warfighting)

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- **Agreed set of effects based warfighting functions:**
  - Agile Combat Support
  - Air Mobility
  - Command & Control
  - Intelligence, Surveillance, Target Acquisition and Reconnaissance
  - Force Application
  - Force Protection
- **Definitions and descriptions are developed in an interoperability context (*not doctrinally pure*):**
- **Describes desired levels of interoperability so that work can be properly focused**
- **Lists roles/tasks**



# Capability Elements: (Whole of Capability)

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- **Agreed set of terms to ensure that ASIC takes a ‘whole of capability’ approach to considering interoperability issues**
  
- **Adaptation of the:**
  - **US - DOTMLPF**
  - **AU – Fundamental Inputs to Capability**
  - **CA – PRICIE (Functional Development Portfolio)**
  - **UK – Lines of Development**



# *Time Dimension*

- **Must balance current, evolving and future force interoperability**
  - **Force-in-Being**
    - Lessons Learnt
    - Operational Imperatives
    - Exercises

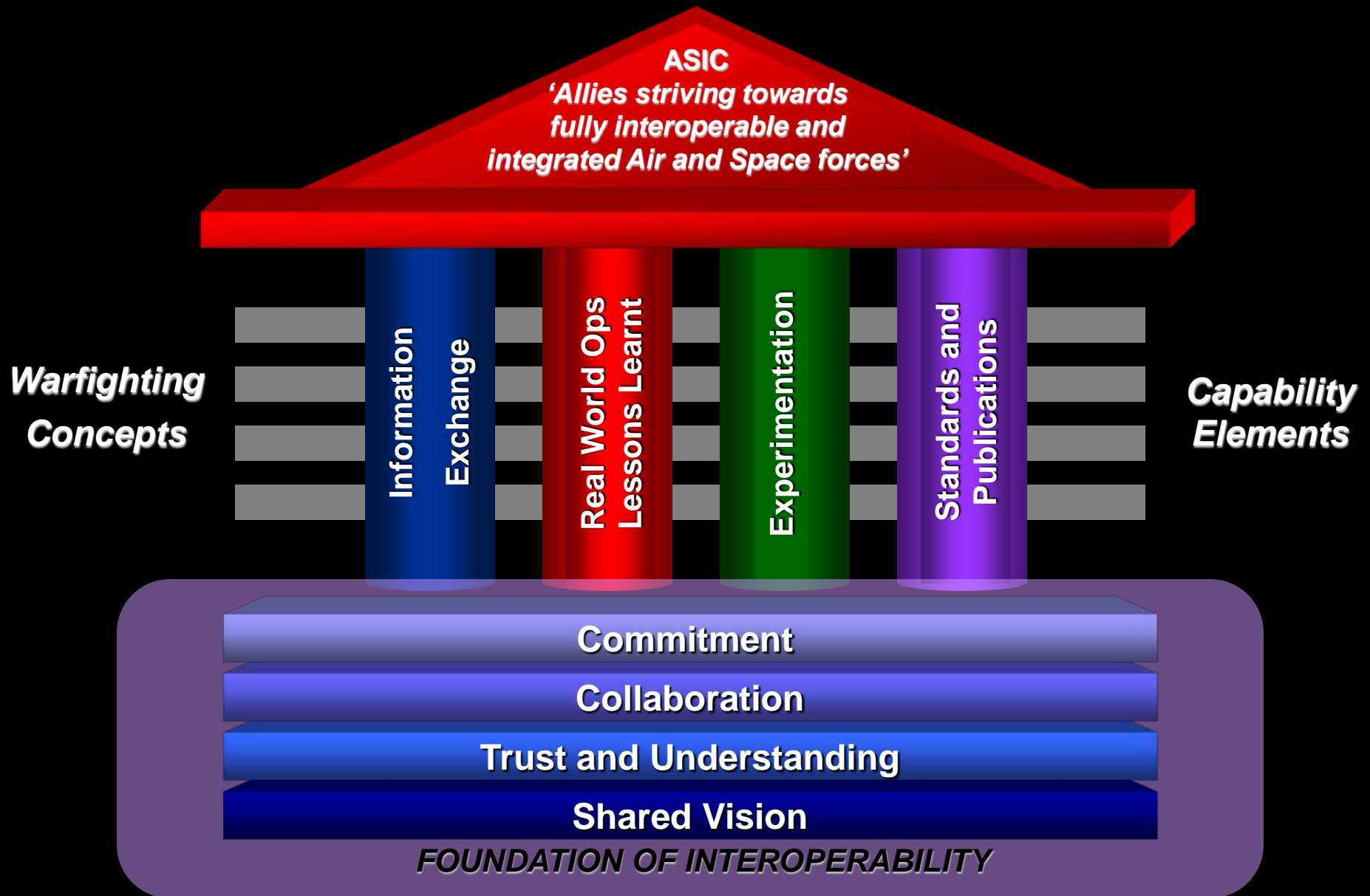
## **COALITION WARFIGHTING CAPABILITY OVER TIME**

### **- INFORM NATIONAL CAPABILITY DEVELOPMENT PLANS**

- **Future Force**
  - Future concepts and architectures
  - Experimentation (People/Organization/Doctrine and Technology)
  - CTDs/TDPs



# ASIC - VISION





# *Interoperability Framework*

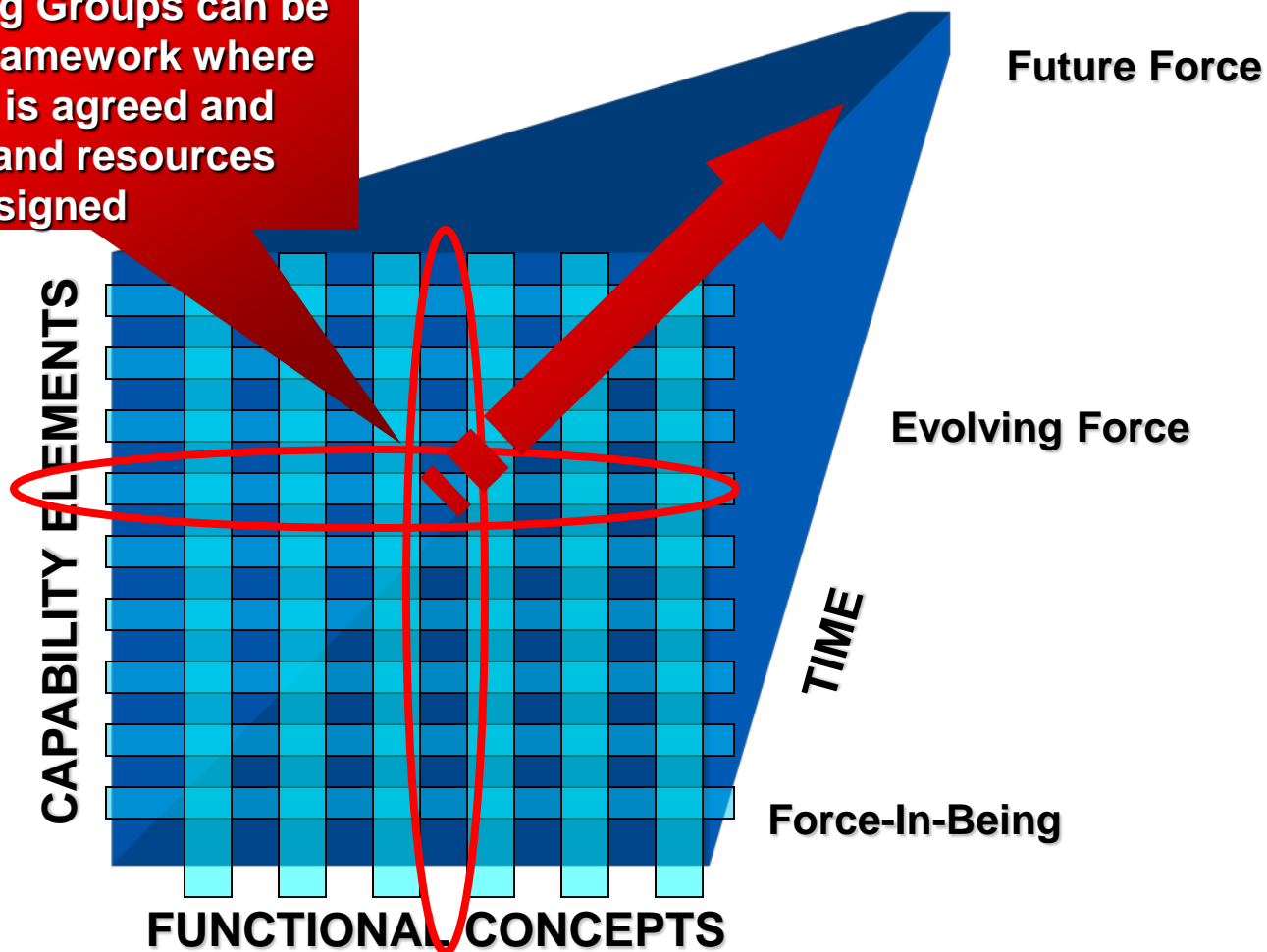
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- **Maps Functional Concepts and Capability Elements against desired levels of interoperability**
- **Major purpose is to facilitate validation of existing *and future* projects, activities, documents, Information Exchanges, Liaisons**
- **Identify activities / tasks that no longer meet strategic guidance and / or identifying gaps where ASIC needs to commence work / liaison**



# Framework Illustrated

ASIC Working Groups can be aligned to framework where emphasis is agreed and priorities and resources assigned





# *Interoperability Survey*

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- **Survey designed to identify the most important interoperability shortfalls within a given scenario:**
  - **Humanitarian Relief Operations (HUMRO)**
  - **Non-combat Evacuation Operations (NEO)**
  - **Peace Support Operations (PSO)**
  - **Global War on Terrorism, and (GWOT)**
  - **Major Combat Operations (MCO)**
- **Derivative of USAF Capabilities Review & Risk Assessment (CRRRA) Capability Planning Process**
  - **Must be structured, repeatable and analytically sound**
    - **Apply analytic principals to question selection and weighting process**
    - **Not a capabilities gap analysis, but interoperability gap analysis**



# Survey Methodology

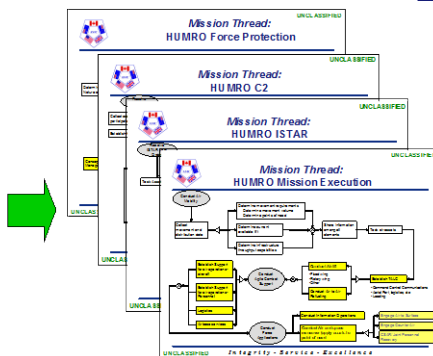
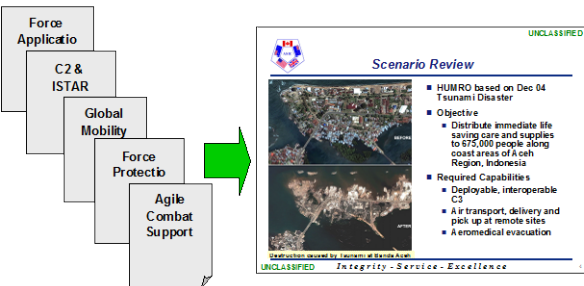
## Functional Concepts

## HUMRO Scenario

## HUMRO Mission Threads

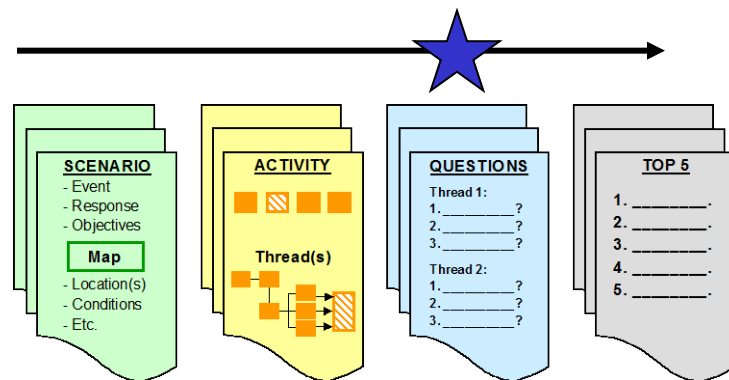
## Operational Context: Humanitarian Relief Operation (HUMRO)

- Scenario: Tsunami Disaster Relief
- Focus Areas: Deployable & interoperable C3, Air Transport, Aeromed. Evac. (AE)



■ Approach focuses the survey by determining the **activities** that make the greatest **contribution** to the **functional concepts** that have the greatest **impact** on the success of the **HUMRO mission**

- Questions on importance, level, impact, obstacles and future of interoperability



## National Perspectives

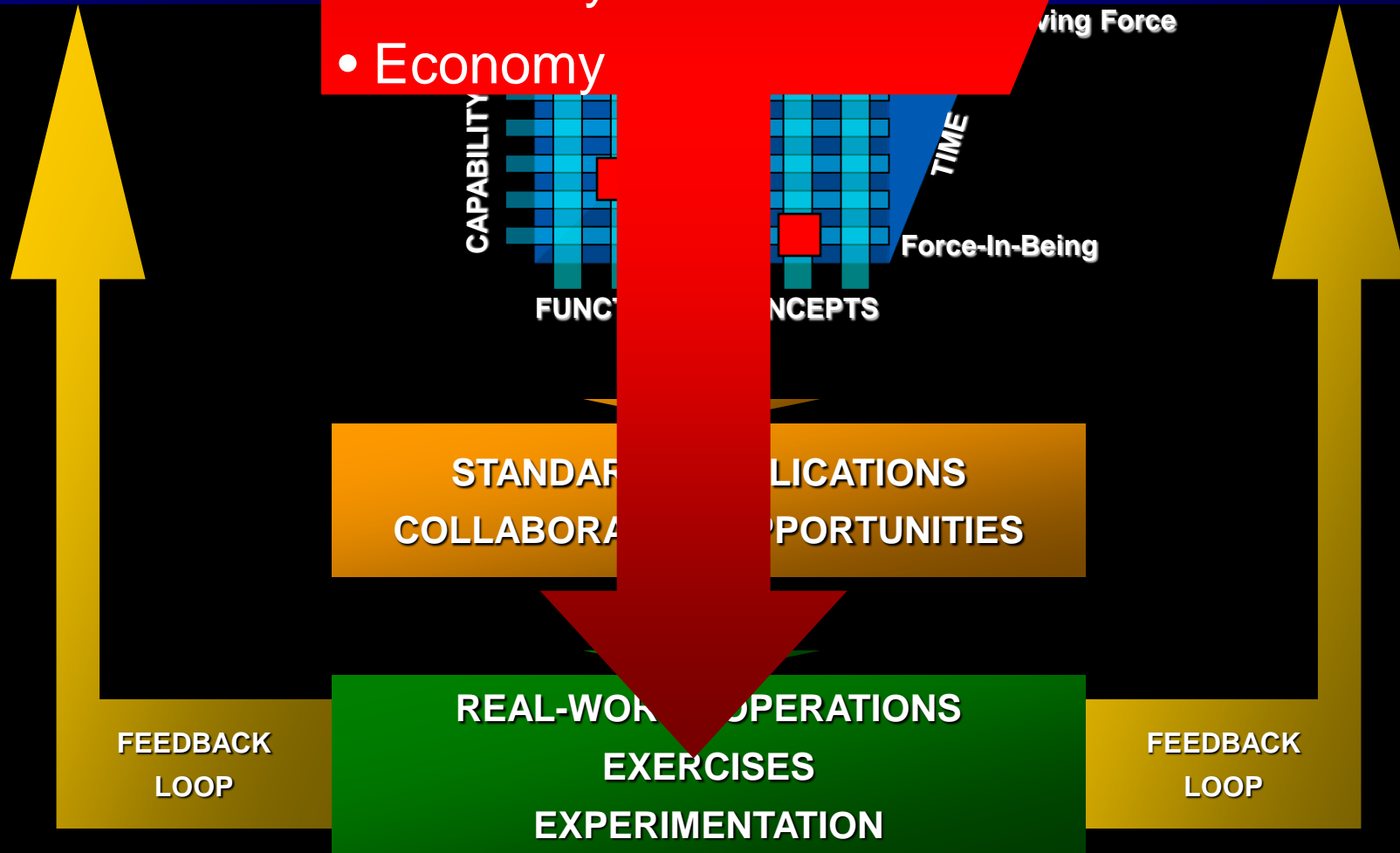
- Subject Matter Experts
- Lessons Learnt
- Interoperability Assessment
- National Architectures
- National Force structure

## Measures of Interoperability

- Effectiveness
- Performance
- Suitability
- Economy

## Survey Process

- Capability based
- Coalition Architectures
- Measures of Interoperability
- Interoperability Gaps and Shortfalls





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# QUESTIONS?

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