Enterprise Information Management
MilCIS
“We’ve entered the next generation of warfare. Our war fighting prowess requires information - it’s the only thing that differentiates a good decision from a bad decision, and being able to move quickly from insight into action. Information is a key enabler of 5th generation warfighting.

It’s not that we don’t have enough information. In fact, we’re extraordinarily rich in information, but it’s trapped in thousands of applications, and tens of thousands of reports. We have to jump from screen to screen, copy information from different applications and print hard copies as a last resort. The quality, currency and consistency of our information limits our ability to make fast, informed decisions.

It’s time that we placed the same value on our information as we do on our infrastructure - it’s a strategic asset for Defence.

Revolutionising how we store, access and use information is a critical, and fundamental, part of our digital transformation. It’s why we’ve embarked on the Enterprise Information Management Sub-Program.

EIM will deliver trusted and accurate information and information services to the ‘point of need’ to enhance military and business operations.

Right now, it’s like we are speaking foreign languages to each other. We need to create a universal language for Defence, one that allows information to easily be shared and used by those who need it. That’s what EIM will do: simplify how we store and use information so that it can be easily accessed quickly by anyone who needs it.

In the coming decades, it will be more important than ever before for us to have a strong foundation of knowledge that will be easily and universally accessed in real time. It will give us a common battlespace awareness, increase our Joint Force effectiveness and extend our ability to use advanced capabilities such as F-35s, Air-Warfare Destroyer and Land 400. The changes made through EIM will enable the success other strategic projects such as ERP.”
The EIM journey commenced in early 2015 to address recommendations from the First Principles Review.

- **April 2015**: The First Principles Review identified five recommendations for information management across Defence.
- **Late 2015/Early 2016**: Engagement with the business led to the collection of 1200 EIM business requirements.
- **November 2016**: Architectural framework and guidelines for EIM, EIM CoE detailed design and portfolio assessments complete.
- **March 2017**: Structure of EIM CoE defined and all FPR recommendations successfully complete.
- **December 2016**: EIM Gate 0 Business Case was endorsed at the Defence Investment Committee.
- **April 2017**: Tranche 1 EIM Initiatives commenced:
  1. IM in Deployed Environments
  2. Joint Force Authority Decision Support
  3. Data Warehouse Consolidation
  4. Service Oriented Architecture

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The Defence Enterprise Information Strategy 2015 – 2025 set the vision and intent for EIM.

Information Stewards were appointed, representing all 25 Defence domains, to provide EIM leadership and governance.

We are here.
Defence's EIM sub-program will be delivered through four tranches

**Mid-2018**

- EIM Sub-Program Gate 1 Business Case submission to Government.

**Mid-2019**

- EIM Sub-Program Gate 2 Business Case submission to Government.

**Tranche 2**

Progress EIM Sub-program *tranche 2 initiatives* as endorsed by the 2-Star/Band 2 steering group and Government

**Tranche 3**

Progress EIM Sub-program *tranche 3 initiatives* as endorsed by the 2-Star/Band 2 steering group and Government

**Tranche 4**

Progress EIM Sub-program *tranche 4 initiatives* as endorsed by the 2-Star/Band 2 steering group and Government

**Target state**

2018 —— 2025
The first tranche of EIM activities is bound by four initiatives

Initiative 1: **Information Management in the Deployed Environments**
- Provides a warfighter focus for EIM and will address the information challenges faced in deployed environments.

Initiative 2: **Joint Force Authority Decision Support**
- Improve the effectiveness of decision making by addressing the disparate methods and systems used to capture and define aspects of current (preparedness) and future (Force design and Capability Life Cycle) capability across Defence.

Initiative 3: **Service-Oriented Architecture**
- Through Service-Oriented Architecture, EIM will provide enterprise information services to deliver timely, trusted and accurate exchanges between Defence systems, including extending into the deployed environment.

Initiative 4: **Data Warehouse Consolidation**
- The initiative will rationalise the current data warehouse environment through a 'store once, use many' scenario to avoid replicated data and inconsistent information, and improve responsiveness.
The Information Management in the Deployed Environment (IMDE) initiative will improve battle-space awareness and decision making in the deployed and disconnected environment.

### Initiative Purpose

Operational consequences arise from challenges faced by deployed force elements in the information management when the available tools, technologies and policies are unable to cope with the deployed environment. Whilst there are a number of projects across Defence which focus on solving some of these issues, there is no standardised approach or guidelines, resulting in potential gaps in capability development as well as incompatible and non-interoperable systems that may increase the complexity of battle space awareness.

This initiative will develop and deliver strategies and solutions to improve the information management in the deployed environment with a focus on the information management tools required to improve situational awareness and decision making.

### Background

The First Principles Review (FPR) highlighted the importance of information superiority in the success of the future Australian Defence Force as a highly technical but comparatively small force. The 2016 Defence White Paper (DWP) supported the findings of the FPR and acknowledged that there had been a lack of consistent support and understanding of the importance of information management systems in the development of a highly capable future Defence force.

As a result of these reviews, the Government has made a strong commitment to the development of enterprise-wide information management capabilities that support the warfighter.
The scope of the Information Management in the Deployed Environments initiative scope is centred on three key areas

Establish necessary *policy, standards and training requirements* for Defence authorities (VCDF/COO/CIO)

Multiple Projects and Initiatives, including:

**JP 9111**  **JP 2096**  **JP 2064**  **JP 2221**  **ERP**  
**SEA 2273**  **LAND 200**  **AIR 6500**  **eDLAN**  **SC2S**  … and others

*Focus on potential gaps and conflicts in the deployed IM landscape*  
supporting the Defence C4ISR Design Authority (VCDF) and C4ISR Technical Authority (CTO)

Next Generation (2025+)

Supporting the Defence C4ISR Authorities (VCDF and CTO)

Architecture Approach to Information Layers:

- **Deployed IM Reference Architecture and technical solutions** – supporting Defence C4ISR Technical Authority (CTO)
- This may include enabling layer technology solutions - except those already covered by other projects
- User Prioritisation and achievable sequencing – supporting relevant Defence Authorities
The IMDE initiative aims to overcome the complexity of multiple sources by using SOA and micro-services to provide a single virtual interface.