Integrated Soldier Systems
INDUSTRY FORUM

Tuesday 18 October 2016
CQ Functions, Melbourne
Integrated Soldier Systems Branch
Capability Acquisition and Sustainment Group

October 2017 - The Road to Reform and Opportunities for Industry

Brigadier Simon Welsh
Director General Integrated Soldier Systems
Scope

- New Government Policy and Defence Reform
- CASG’s Reform Journey
- Integrated Soldier Systems Branch
  - What we do
  - Our current priorities
  - Industry opportunities
  - Reform and innovation initiatives
- Open forum
The First Principles Review provided a clear strategy for reintegration of the acquisition and sustainment functions into the Department of Defence.

A key recommendation was the abolition of the independent Defence Materiel Organisation and the creation of the Capability Acquisition and Sustainment Group within the Defence Department.
• Released 25 February 2016

• **White paper** – explains how the Australian Government is investing in Australia’s defence capabilities.
  
  – **Increase** in the Defence budget from $32.4 billion in FY2016-17 to $58.7 billion in FY2025-26
  
  – **Approximately** $195 billion will be invested in our capabilities over the decade to 2025-26 in all aspects of Defence capability, a significant proportion of which will be spent in Australia
Four key components:

- **Delivering Defence capability** through a more focussed and coordinated relationship between Defence and industry

- **A new approach to innovation** by streamlining engagement with industry and academia

- **Driving competitiveness and export potential** by maximising opportunities for competitive Australian businesses, build export potential, depth of skills and diversification for Australian defence industry

- **Cutting red tape** by Streamline tendering and contracting procedures, rationalise industry programs and make it simpler and less costly for industry to support Defence
Integrated Investment Program

• For the first time, includes all Defence-related investments.
  – 20-year outlook, with greater detail on first 10 years.

• Annual updates released with the Defence budget from 2017-18.

• Builds consistency and predictability for Defence and industry.
  – Defence will work closely with industry to inform industry planning.
• **What is a Smart Buyer approach?**
  
  – Seeks to provide the best possible outcome for CASG’s customers, appropriate financial returns for our suppliers, and value for money outcomes for the taxpayer. In practice this means -
    
    • Engaging with industry earlier
    
    • Consolidating our approach to procurements
      
      – Possibly more prime contracts that are responsible for acquisition and sustainment by handing over some functions to industry where appropriate
    
    – CASG will ensure our business structure and processes streamline the way we do business
      
      • We are keen to reduce the cost burden to you and therefore ourselves
      
      • We are keen to hear your opinions on how we can help and what we can do to make thing better
The Capability Acquisition and Sustainment Group (CASG) seeks to **partner** with industry to deliver Defence capability.

- Reform, implement and embed the First Principles Review recommendations
- Improve our relationship with our owners (Government) and customers (Capability Managers)
- Improve our strategic level partnerships with industry
- Achieve full cost and performance transparency of our projects and operations
- Develop, support and professionalise our people
• Commonwealth Procurement Rule 5.3
  “The Australian Government’s procurement framework is non-discriminatory. All potential suppliers to government must, subject to these CPR’s, be treated equitability based on their commercial, legal, technical and financial abilities and not be discriminated against due to size, degree of foreign affiliation or ownership, location or the origin of their goods and services”

• ISSB Commitment
  “ISSB always seeks to maximise Australian Industry Content without Compromising capability, schedule or cost.”
ISSB Industry Content - Examples

SERVICE DRESS - AUSTRALIAN INDUSTRY PARTICIPATION

- Slouch Hat
  - Akubra
  - South Kempsey, NSW

- Puggaree and Chinstrap
  - Mountcastle
  - Yaronga, QLD

- Shirt
  - Australian Defence Apparel
  - Thomastown, VIC
  - (Vietnam manufactured)

- Tie
  - Australian Defence Apparel
  - Thomastown, VIC
  - manufactured by subcontractors
  - - TD Noone - Niddrie, Vic
  - - Shandong Yehya, China

- Sam Browne
  - Larosa Leather Goods
  - Thomastown, VIC
  - manufactured by subcontractors

- ADF Parade Boot
  - R.M. Williams
  - Salisbury S.A.

- Metal Insignia and Buttons
  - Cash’s Awards and Promotion Solutions
  - Frankston VIC

- Embroidered Insignia
  - Babylon Industries
  - Sydney, NSW
  - Mr Badges
  - Sydney, NSW
  - A1 Insignia
  - Hobart, TAS

- Army Service Dress Uniform
  - (China manufactured)
  - Australian Defence Apparel (ADA)
  - Thomastown, VIC

- Socks
  - Wilderness Wear
  - Preston, VIC
  - Humphrey Law & Co
  - Heathmont, VIC

- ADF Combat Boots I
  - (Vietnam manufactured)
  - Thales Australia
  - Lithgow, NSW

- ADF Combat Boots II
  - Redback Boots
  - Waterloo, NSW

- ADF Combat Socks
  - Humphrey Law
  - Heathmont VIC

COMBAT SOLDIER - AUSTRALIAN INDUSTRY PARTICIPATION

- Load Carriage Equipment
  - Australian designed – Manufactured Vietnam
  - Australian Defence Apparel
  - Bendigo, VIC

- Tiered Combat Helmet
  - (US manufactured)
  - Aquaterro
  - Dandenong, VIC

- Ballistic Laser Ocular Protection System
  - (US supplier)
  - Frontline Safety Australia
  - Carrington, NSW

- Protection Elements
  - Craig International Ballistics
  - Brisbane, QLD

- Embroidered Insignia
  - Babylon Industries
  - Sydney, NSW
  - Mr Badges
  - Sydney, NSW
  - A1 Insignia
  - Hobart, TAS

- EF88 Rifle
  - Thales Australia
  - Lithgow, NSW

- ADF Combat Boots I
  - (Vietnam manufactured)
  - Ansell Ltd
  - Richmond, VIC

- Combat Gloves
  - (Vietnam manufactured)
  - Platypus
  - Hallam, VIC

- ADF Combat Boots II
  - Salisbury S.A.

- ADF Parade Boot
  - R.M. Williams
  - Salisbury S.A.

- Combat Hearing Protection
  - (US supplier)
  - Defcon Technologies Group
  - Canberra, ACT

- Australian Multicam Uniform Shirt and Trouser
  - Australian Defence Apparel
  - Bendigo, VIC

- Cash’s Awards and Promotion
  - South Kempsey, NSW

- Australian designed – Manufactured Vietnam

- Mountcastle
  - Yaronga, QLD
  - (US supplier)

- Frontline Safety Australia
  - Carrington, NSW

- Australian Defence Apparel
  - Bendigo, VIC

- HELMTech
  - Bendigo, VIC

- Australian Defence Apparel Solutions
  - Bendigo, VIC

- Australian Defence Apparel
  - Bendigo, VIC

- Ballistic Laser Ocular Protection System
  - Frontline Safety Australia
  - Carrington, NSW
Integrated Soldier Systems Branch acquires and sustains land materiel for the Australian Defence Force.
• **Armaments**
  • Small Arms
  • Direct Fire Support Weapons
  • Surveillance Systems

• **ADF clothing**
  • Combat Clothing
  • Non-Combat Clothing

• **Soldier Modernisation**
  • Personal and Field Equipment
  • Chemical Biological Radiological and Nuclear Defence
  • Aerial Delivery Equipment
  • Adventure Training

• **Health Systems**
  • Pharmaceuticals
  • Medical and Dental Equipment
  • Combat Rations

• **Diggerworks**
  • Future Soldier Systems Development,
  • Soldier System Configuration
  • Soldier System Integration
Key Projects

- Land 40 Phase 2: Direct Fire Support Weapons ($150-200m) Gate 2
- Land 53 Phase 1BR: NINOX Night Fighting Equipment - Technology Refresh ($300-500m) Gate 2
- Land 125 Phase 3C: Soldier Systems Integration – Lethality ($400-500m) Gate 2
- Land 125 Phase 3B: Soldier Enhancement – Survivability ($150-200m) Gate 2
- Land 2110 Phase 1B: Chemical, Biological, Radiological and Nuclear Defence ($200-300m) Pre Gate 2
- Land 3025 Phase 1: Deployable Incident Response Regiment Capability ($25-50m) Gate 2
- JP 2060 Phase 3: Deployable Health ($250-400m) Pre Gate 2
- Land 125 Phase 4: Integrated Soldier Systems Closing

NEW PROJECTS

- Land 125 Phase 4: Soldier Systems Integration – version 3 ($500-1000m) (Gate 0 Achieved)
- Land 3025 Phase 2: Deployable Incident Response Regiment Capability (Pre Gate 0)
- Land 1508: Special Operations Capability (Pre Gate 0)
- LAND 159: Small Arms Replacement (Pre Gate 0)
- LAND 4108: Direct Fire Support Weapons (Pre Gate 0)
Initiatives

- Defence Industry Forums
- Prime Vendors
- Adaptive Acquisition
- Innovation opportunities

Challenges

- Large Number of Small to Medium Enterprises
- Industry Capacity and Capability
- Number of Industry Supply Agents representing Overseas OEM

Key Messages

- Early Engagement of Industry
- Transparency in the way we work
- Educate and then work with Industry
- Performance Based Contracting
  - Guarantee Cash flow
  - Enduring contracts extension
- Significant Media / Ministerial Scrutiny
ISSB Initiatives

• Existing in play
  – Pharmaceuticals, Medical & Dental Consumables Prime Vendor
  – Combat Rations Prime Vendor
  – Medical and Dental Equipment Managed Equipment Service
  – Armaments Fleet Upgrade and Repair Contract

• Future
  – Soldier Combat Ensemble Prime Vendor
  – Commodity Reform Program
    • Adventure Training
    • Personal and Field Equipment
• As part of Defence and CASG’s reform journey, ISSB is continuing its Industry engagement and partnership approach.

• In partnership with Industry we seek to fully implement a Smart Buyer approach.

• We are already a Smart Buyer in many ways. However, we can get better and need your help in doing so – your feedback is essential.

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Armament Systems Program Office

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Key Roles and Activities

• **Small Arms Fleet**
  – Supports the sustainment and disposal of commercial off the shelf, military off the shelf and specialised weapons up to 7.62mm (not including crew served weapons) and attachments.

• **Direct Fire Support Weapons Fleet**
  – Supports the sustainment, maintenance and disposal of machine guns, anti-materiel rifles, grenade launchers and anti-armour weapon fleets, including support to a number of weapon mounts, sighting systems and training aids.

• **Surveillance Systems Fleet**
  – Supports the sustainment, maintenance of Night Fighting Equipment, Thermal and Laser, Optical Surveillance Equipment, and Night sighting systems.
• **LAND 40 Phase 2 – Direct Fire Support Weapons**
  – 84mm M3 Carl Gustaf and a BAE Systems thermal sight delivered in 2010.
  – Light Weight Automatic Grenade Launcher (LWAGL) and a Fire Control System.

• **LAND125 Phase 3C – Lethality**
  – Enhanced version of F88 weapon system with improved ammunition interoperability, 40mm Grenade Launcher Attachment (GLA) and a range of weapon ancillaries.

• **LAND 53 Phase 1BR – Night Fighting Equipment Replacement**
  – Improved military off the shelf (MOTS) Night Vision Goggles (NVG); and a more ergonomic helmet mounting systems (Mounts and Head Harnesses) and Laser Aiming, Illumination Device (LAID) and Laser Aiming Illumination Ranging Device (LAIRD) for small arms weapons.
ENHANCED F88 WEAPON SYSTEM

- Steyr Mannlicher SLB F88 Grenade Launcher Attachment (GLA) will be issued to select Tier 2 and Tier 3 Dismounted combatants.
- Raytheon ELCAN Sight unit Dual Range 1x4x and 5x44mm F2 Specter enhanced day sight will be issued to all combatants.
- Elbit Systems Sight unit XACT THX5 F4 Thermal Imager System (TIS) will be issued to select Tier 2 Dismounted combatants.
- Glopig 3rd Generation In-Line F5 Image Intensifier System (IIS) will be issued to select Tier 2 Dismounted combatants.
- Grip pod Systems GFS-02-CL forward grip with bi-pod and extended rail will be issued to select Tier 2 Dismounted combatants.
- Knights International basic forward grip for the carbine and issued as alternate grip for the grenadier.
- Ham's N225-BM weapon stabiliser will be issued to select Tier 2 Dismounted combatants.

**TIER 2 DISMOUNTED**

<table>
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<tr>
<th>COMMANDER</th>
<th>MARKSMAN</th>
<th>RIFLEMAN</th>
<th>GRENADE</th>
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**TIER 2 MOUNTED**

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<th>CARBINE</th>
<th>STANDARD</th>
<th>GRENADE</th>
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<td>P90-457</td>
<td>P90-356</td>
<td>P90-367</td>
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**TIER 3**

- Land Systems Division
• **Current/upcoming opportunities**
  – Future Project to Gate 0 including:
    • LAND 159 - Small Arms Replacement
    • LAND 4108 - Direct Fire Support Weapons
    • LAND 1508 - Grey fin (weapon systems component)
  – Standing Offer for Small Arms Targets Request for Tender new requirements (Tranche 2 - Q3 2018).
  – Polymer Weapon for LAND 125 Phase 3C Request for Tender to be released Q3 2016.

• **Industry Visit Program**
  – Contact ISSB Industry e-mail.
Soldier Modernisation
Systems Program Office

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• **LAND 125 Phase 3B**
  - Delivery of the Soldier Enhancement Version 2 – Survivability (Soldier Combat Ensemble)

• **LAND 2110 Phase 1B**
  - Improved capabilities against existing and emerging Chemical, Biological, Radiological and Nuclear (CBRN) threats, including environmental hazards

- **LAND 3025 Phase 1**
  - Deployable Special Operations Engineer counter-CBRNE Capability
SMSPO - Key Responsibilities (Acquisition)

- **LAND 125 Phase 4**
  - Provide a continuous, iterative modernisation of the Soldier Combat System (SCS)

- **LAND 1508**
  - A programmatic acquisition and sustainment approach to the technical refresh of a broad range of SOCOMD capability

- **LAND 3025 Phase 2**
  - Enhance the specialised and rapidly deployable counter-CBRNE Special Operations capability
LAND 125 Phase 3B – Soldier Survivability

- Individual survivability components that provide the combatant with increased body, ocular and hearing protection, as well as improved load carriage capability
- Soldier Combat Ensemble
  - Protection Elements (Combat Body Armour)
  - Load Carriage Equipment
  - Combat Helmets
  - Combat Hearing Protection
  - Ballistic and Laser Protective Eyewear
- Separate contracts for each element of the Soldier Combat Ensemble
- Rollout commenced in April 2015
- Final Operational Capability delivered by April 2018
• Improved capabilities against existing and emerging CBRN threats, including environmental hazards
• Seeking technologically mature capabilities - Commercial Off The Shelf (COTS) or Military Off The Shelf (MOTS) items
• CBRND capability sub-systems:
  – Detection, Identification and Monitoring
  – Warning and Reporting
  – Physical Protection
  – Hazard Management
  – Medical Support
• Tender released on 15 January 2015 and closed on 15 June 2015. RFT evaluation is complete.
• Offer Definition and Improvement Activity (ODIA) from Jun 16 to Oct 17. ODIA evaluation is being finalised.
• Government approval (Second Pass) planned for April 2017
• Establish a specialised and rapidly deployable counter-CBRNE Special Operations capability
• Seeking technologically mature COTS/MOTS capabilities
• Industry engaged by an Expression of Interest and a Panel of Suppliers established
• Majority of preferred tenders selected - 58 mission systems
• Government Approval (Second Pass) pending
• Provide a continuous, iterative modernisation of the Soldier Combat System (SCS) including training and education.

• **SCS capabilities to be included:**
  – Soldier Combat Ensemble
  – Field Equipment
  – Individual Multi-spectral Camouflage systems
  – Land Tactical Surveillance System
  – Live Instrumentation System (LIS) Soldier Equipment
  – Targetry
  – Individual Soldier Power Management

• Government approval (Second Pass) planned for 2019
• Establish a programmatic acquisition and sustainment approach to the technical refresh of a broad range of SOCOMD capability over the next 20 years
• Scope is inclusive of high fidelity short term acquisition to counter emergent threats
• Tranched acquisition delivery approach commencing with simple acquisition and moving through the levels
• Seeking technologically mature COTS/MOTS capabilities in early tranches
• Government Approval (Second Pass) planned 20/21
• Enhance the specialised and rapidly deployable counter-CBRNE Special Operations capability

• Seeking technologically mature COTS/MOTS, and leading edge / developmental solutions to counter emergent threats

• Tranched acquisition delivery approach commencing with COTS/MOTS for Tranche 0 and moving through the levels

• Seeking leading edge technologies for Tranche 1, and consideration of developmental solutions for Tranche 2

• Government Approval (Second Pass) planned 19/20
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Systems Program Office - Sustainment

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Key Roles, Activities and Achievements

- **Soldier Combat Ensemble Fleet**
  - Combat Protective Equipment includes
    - body armour,
    - helmets,
    - eye protection,
    - hearing protection,
    - load carriage equipment

- **Key areas of focus:**
  - Transition to support for LAND 125 Phase 3B equipment
  - While disposing of legacy equipment
Key Roles, Activities and Achievements

• **Chemical, Biological, Radiological, Nuclear and Explosive Defence**
  – Equipment used for detection and protection in a Chemical, Biological, Radiological, Nuclear or Explosive hazard environment

• **Key areas of focus:**
  – maintaining current equipment until LAND 3025 Phase 1 and LAND 2110 Phase 1B start to deliver
  – supporting the ADF in operations
Key Roles, Activities and Achievements

- **Field and Aerial Delivery Equipment Fleet**
  - Personal Field Equipment includes canteens, packs, trunks
  - Non Lethal Force Equipment includes shields, batons
  - Aerial Delivery Equipment includes parachutes, rigging equipment
  - Adventurous Training Equipment includes kayaks, abseiling, ropes
• **Duffle Bags**  
  – Army has decided to transition to a roller bag currently being supplied by LAND 125 Phase 3B

• **Face Paint, Camouflage**  
  – Standing Offer released September 2016  
  – Closes end November 2016  
  – $1.2 - $1.7m over 5 years

• **Multi-tool**  
  – Open tender release July 2017 ($560k)
SMSPO (Sustainment) Key Staff

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Key Roles and Activities

• **Combat Clothing** - Uniforms, footwear and clothing accessories worn specifically for the conduct of combat operations

• **Non-Combat Clothing** - Uniforms, footwear and clothing accessories worn for the purpose of military duties other than the conduct of combat operations. It includes clothing of a military and non-military nature and personal protective clothing

• **Accoutrements** - Items worn to distinguish service, corps and trade, rank and special appointments. Includes Metal Insignia, Embroidered Insignia, Sashes, Lanyards and Aiguillettes. Accoutrements are worn with both combat and non-combat clothing
• **Non-Combat Uniforms (NCC)**
  - Ongoing ceremonial requirements
  - Modernisation of uniform design and performance in terms of design, fabric, fit and function of selected Non Combat Garments.
  - The Army Service Dress Uniform – Design enhancements include:
    - Cut/Design
    - Size Range
    - Fabric
    - Colour
  - Other areas of consideration include Maternity Wear, Utility Jackets and Service Dress Shirts.
  - Enhancements being considered by Navy and Air Force.
**Head Dress**
Broad Brim Hat, Air Force Baseball Cap, Unit Cap, Garrison Cap, Kepi Cap, Beret or Hat Fur Felt.

**Under Shirt**
Air Force dark blue t-shirt, Unit t-shirt or brown t-shirt (until 2019).

**BrownTerra and Safety Boots**
Authorised for wear until 2019.

**BlackTerra Boots**
Upon exchange of unserviceable brown Terra boots through fair wear and tear only.

**Black Safety Boots**
Upon exchange of unserviceable brown safety boots through fair wear and tear only.

**Belts**
Chain of Command can approve military style belts to be purchased at member’s expense.

**GPU Jacket**
Roll out to occur to southern states initially.

**GPU Tarmac Jacket**
Available for flightline personnel only from mid 2016.

**GPU Wet Weather Ensemble**
Roll out to Security Force Squadrons and Point of Entry Units initially during 2016, with roll out to remaining members from 2017.

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Note: Personnel will only be entitled to either GPU Jacket or Tarmac Jacket.

Details on the roll out schedule of all garments can be found on the Deputy Chief of Staff, Air Force Headquarters website on the DRN or email HQACG.PU@adm.mil.au.
• **Non Combat Clothing**
  - Non Combat Clothing Standing Offer Deed was signed on 30 April 2015 for provision of Non Combat Uniform items (Work Package 1), with options for the remaining Non Combat Clothing products (Work Package 2) and potential supply chain services (Work Package 3).
  - Deed was signed with an initial term of three years (2018), with two by three year extensions at the Commonwealth’s discretion.

• **Combat Clothing**
  - The SCU comprises of the shirts and pants for the range of camouflage clothing (DPCU, DPNU, AMP, AMCU, MMPU and GPU).
  - Deed signed on 17 December 2012 for an initial term of five years (2017), with four by one year extensions at the Commonwealth’s discretion.
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Health Systems Program Office

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• Health Systems Program Office Responsible for:

– Acquisition, fleet management and through life support of medical and dental equipment, medical and dental consumables, and pharmaceuticals.

– Over 15000 items (low value / high turnover)

– Introduction of new and additional medical and dental capability.

– Acquisition and fleet management of combat rations.

– Significant streamlining of procurement in pharmaceuticals, consumables and combat rations through introduction of separate Prime Vendor Contracts.
JP2060 Ph3 – Deployable Health Capability

- Update the extant Deployable Health Capability (DHC) Health Effects.
- Introduce new Health Effects.
- Introduce a more responsive and efficient sustainment mechanism (e.g. Technical refresh).
- Reduce equipment support burden on Defence to maximise medical training opportunities.
- RFT scheduled for release three months after Government approval.
- Industry brief approximately one month after RFT release.
• Pharmaceuticals and Medical & Dental Consumables

  – Establish a single **Prime Vendor** for the supply and delivery of Pharmaceuticals and Consumables.

  – Tender closed responses currently being evaluated.

  – Contract signature expected December 2016.
• **Combat Ration Packs (CRP)**
  
  – Seeking a *Prime Vendor* for CRP and ancillaries (insect repellent, foot powder, personal stoves/fuel and water purification tablets).
  
  
  – Industry Briefing: Victoria Barracks Melbourne, commencing at 1.00pm on 3 November 2016.
• **Medical & Dental Equipment**
  - Seeking a partnering arrangement with a contractor to:
    • **Part A**: Sourcing, Acquisition and Introduction into Service of new and replacement Medical and Dental Equipment
    • **Part B**: Potential future Managed Equipment Service for Garrison and Deployable Health Capabilities
  
  • Tender released 27 September 2016 /close 25 November 2016
    (AusTender ATM ID:CASG/LSD/RFT0991/15)
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Integrated Soldier Systems Development Directorate

Diggerworks

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Established in 2011 to address equipment and capability shortfalls, especially from troops deployed in Afghanistan.
- Much of the equipment concerns were due to age, obsolescence, or not fit for purpose – often despite meeting user requirements and specifications
- Senate estimates 2011 – Chief of Army and CEO DMO
  - Impetus for change
  - Champion for change

Memorandum of Understanding 2011
- AHQ, DMO, DSTO, CDG

Current situation
- Significant organisational change since 2011
  - DMO-CASG
  - DSTO-DSTG
  - Demise of CDG
  - Restructuring of AHQ – 10 program offices
    - Creation of the Soldier Systems Program
  - MOU now being revised to align with organisational structure and priorities
  - Provides an opportunity to examine our structure
What We Do:

• Solving operational soldier systems problems (Operationally Urgent Requirements)
• Engaging with soldiers – the users
• Understanding the operational environment
• Engaging with industry
• Ensure that the combat soldier is an integrated combat system and not an aggregation of individual components
• Continually improve SCS and finding solutions to short and medium term problems that affect the performance of the ADF Land Combatant

Multi-Disciplinary Team of Four Pillars

• Close Combatant Experts
• Project Managers
• Land Engineers
• Defence Scientists
**Mission:**
Diggerworks is to identify options and develop integrated soldier combat system solutions to enhance the capability of the warfighter.

**Key Lines of Effort**
- Development – continually improving Soldier Combat System
- Systems Integration of new capabilities
- Modernisation
- Engagement
- Configuration Management

**Method and Functions**
- Focus on short to medium term (0-3 years) SCS capability gaps.
- Close engagement with ADF Land Combatants and commanders to identify SCS capability gaps.
- Leverage industry to identify SCS capability trends and emerging technologies.
- Maintain an agile, adaptive, responsive and rigorous approach to problem solving that harnesses Diggerworks’ unique, multi-disciplinary team.
- Integrate components and manage contribute the configuration of SCS.

**End State**
- The ADF Warfighter’s capability enhanced by continuous adaption and improvement to ensure that the ADF maintains a regionally superior, potent and agile soldier combat capability.
Land Systems Division

Capability Gap
(problem to be solved)

Soldier engagement
Industry engagement
RODUMs
Theatre / enemy
Allies
AHQ
CASG Project Offices
DW ideas

Problem scope and define
Develop solution
Evaluate and confirm solution
User Requirements
AHQ Endorsement

Transition to Acq / Sustainment Office

AHQ
HQ JOC
FORCOMD
SOCOMD
Bdes/Units
CAG
Diggerworks

Immediate – 3 years
Development, Integration and User Evaluation activities
Immediate – 6 months
Urgent Operational Issue
Diggerworks HANDOVER to...

Current Operations

Item validated and funded

Planned Input to Modernisation Projects

Systems Program Office
PROJECT JP/Land XXX
Minor Acquisitions

Land Systems Division
Future Outlook 2016-2018 Program Focus

**Ballistic & Protective Elements (BPE)**
- Modernisation of Tiered Body Armour System (TBAS) for next generation;
- TBAS sizing system to be able to incorporate 5-95% of ADF population;
- Body armour - protection level, functionality;
- Helmet systems - protection level and functionality.

**Load Carriage Equipment (LCE)**
- Develop LCE options to ensure that the ADF's SCE remain leading edge;
- Adaptive acquisition approach;
- Identify and trial improvements for the soldier system;
- Load Carriage Enhancements.

**Dismounted Electronic Systems (DES)**
- COTS/MOTS Dismounted Electronic System options to reduce weight, space and power burden system;
- Development of the Generic Soldier Architecture;
- Integration with ADF C4I systems and structures;
- Ensure the soldier is the key consideration for new technologies.

**Soldier Configuration**
- Functional Baseline Analysis; Current capability, gaps and the requirements for the next 'step' change in SCS.

**Armoured Fighting Systems & Modernisation**
- Integrated soldier system for Land400 platforms and structures;
- AHQ SCS Program Modernisation Initiatives.
Please email diggerworks@defence.gov.au if you wish to contact the team directly on proposed enhancements to the soldier combat systems.
The Capability Acquisition and Sustainment Group (CASG) purchases and maintains military equipment and supplies in the quantities and to the service levels that are required by Defence and approved by Government.