

Web Tables D.1 Top 30 - Sustainment Products by expenditure 2022-23

Product name	Product environment/ number	Budget estimate 2022-23 ¹ \$m	Actual expenditure 2022-23 \$m	Variation \$m	Product update and explanation of variation 2022-23
		(a)	(b)	(b-a)	
Air Domain					
F/A18F Super Hornet & Growler Weapon System	CAF21	550	506	(44)	<p>The Air Combat and Airborne Electronic Attack capability comprises a fleet of 24 F/A-18F Super Hornet and 12 EA-18G Growler aircraft, with associated support elements. Defence received Government approval to procure one additional Growler (under AIR 5349 Phase 3), restoring the fleet to 12 (following loss in 2018). The F/A-18F Super Hornet delivers Air Combat capability. The EA-18G Growler is an electronic attack aircraft capable of disrupting, deceiving or denying a broad range of military electronic systems, including radars and communications. Both capabilities are operated from RAAF Base Amberley, QLD.</p> <p>During 2022-23, the product successfully maintained fleet mission capability and availability, meeting the requirements of Air Combat Groups.</p> <p>The variation is due to delays in delivery of software and electronic warfare modifications under the upgrade program.</p>
Joint Strike Fighter	CAF30	367	397	30	<p>The F-35A Lightning II capability currently comprises 63 aircraft based at RAAF Base Williamtown, NSW, and RAAF Base Tindal, NT. The aircraft and associated support elements are transitioning into service and will provide Australia with a fifth-generation Air Combat capability.</p> <p>During 2022-23, the focus was on establishing and assuring support to F-35A fleet at RAAF Base Tindal, while maturing the Australian F-35A sustainment support system.</p> <p>The variation is due to foreign exchange rate variances and increased support costs for materiel and maintenance.</p>
Airborne Early Warning and Control System - AEWC	CAF20	296	318	21	<p>The Airborne Early Warning and Control capability comprises six E-7A Wedgetail aircraft and associated support elements operated from RAAF Base Williamtown, NSW.</p> <p>During 2022-23, efforts were focused on maintaining the mission capability and availability of the E-7A fleet while addressing emerging obsolescence and security requirements.</p> <p>The variation is due to increased support costs for materiel and workforce.</p>
P-8A Poseidon Maritime Patrol and Response	CAF35	190	193	3	<p>The Maritime Patrol and Response capability currently comprises 12 P-8A Poseidon aircraft and associated support elements operated from RAAF Base Edinburgh SA.</p> <p>During 2022-23, the P-8A program successfully focused on integrating the Depot Maintenance contract and ensuring overall sustainment.</p> <p>The minor variation is due to foreign exchange rate variances.</p>
Lead-In Fighter and Combat Control Capability	CAF03	165	148	(17)	<p>The Lead-In Fighter Training capability comprises 33 Hawk 127 Lead-in Fighter aircraft and associated support systems, operated from RAAF Bases Williamtown, NSW and Pearce, WA.</p> <p>During 2022-23, the Hawk aircraft program focused on enhancing fleet availability within current engine limitations to support Air Force Introductory Fighter Course and ADF support outcomes.</p> <p>The variation is due to deferred delivery for long lead items for combat controllers; together with lower than expected Joint Terminal Attack Controller training costs.</p>
KC-30A Weapon System Multi-role Tanker Transport	CAF22	165	189	25	<p>The Multi Role Tanker Transport capability comprises seven KC-30A aircraft and associated support elements (including a flight simulator), and is operated from RAAF Base Amberley, QLD.</p> <p>During 2022-23, the KC-30A sustainment program met capability requirements. The focus was on advancing sustainment performance while supporting military operations.</p> <p>During 2022-23, funding was transferred from acquisition (finalised in February 2023) to deliver remaining activities, which increased the total CAF22 budget from \$165m to \$187m. An additional \$3m enabled the procurement of high value and long-lead-time supply items to maintain aircraft availability.</p>
C-17 Heavy Air Lift Weapons System	CAF19	138	142	4	<p>The Heavy Airlift capability comprises eight C-17A Globemaster III aircraft and associated support elements (including training simulators), and is operated from RAAF Base Amberley, QLD.</p> <p>During 2022-23, the focus was on the US Air Force engine sustainment support contract for the C-17 fleet, aiming to enhance repair throughput and heavy maintenance/modifications activities in US.</p> <p>The variation is due to an increase in expenditure to improve engine availability across the global C-17 fleet.</p>
C130J-30 Weapon System	CAF06	128	131	2	<p>The Medium Airlift capability consists of 12 C-130J Hercules aircraft and associated support elements (including a flight simulator) operated from RAAF Base Richmond, NSW.</p> <p>During 2022-23, the focus was on efficiently delivering concurrent deeper maintenance and enhancing five aircraft through the Block Upgrade Program. Notable improvements were made in the engine program, with industry partners enhancing service delivery to minimize risks throughout the aircraft's lifespan.</p>

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Pilot Training System	CAF37	108	110	3	<p>The Pilot Training System comprises of 49 turbo prop aircraft, seven flight training devices, six cockpit procedural trainers, mission pre-briefing and debriefing systems, personal learning devices, learning environment and courseware.</p> <p>During 2022-23, the focus was on maturing the enterprise performance by increasing student throughput and implementing system enhancements.</p> <p>The variation is due to foreign exchange rate movements.</p>
Wide Area Surveillance (OTHR)	CAF13	102	90	(12)	<p>The Wide Area Surveillance Capability is delivered through the High Frequency Radar system, known as the Jindalee Operational Radar Network (JORN). The Network comprises three Over-The-Horizon-Radars (OTHR) located in proximity to Longreach, QLD; Laverton, WA; and Alice Springs, NT. The radars are supported by BAE Systems Australia.</p> <p>During 2022-23, the JORN Support Contract maturity was improved and multiple obsolescence remediation projects were progressed.</p> <p>The variation is due to savings in sustainment tasks and delays in associated science and technology, and the JORN Future Energy System trial.</p>
MC-55A Peregrine Airborne ISREW Capability	CAF40	98	40	(58)	<p>The Airborne Intelligence Surveillance, Reconnaissance and Electronic Warfare Capability will consist of four MC-55 Peregrine aircraft and associated support systems.</p> <p>During 2022-23, the focus was on establishing the initial sustainment arrangements for the aircraft and ground support systems under the Initial In-Service Support Foreign Military Sales case.</p> <p>The variation is due to delays acquiring the MC-55A Peregrine fleet under project AIR 555 Phase 1.</p>
Air Battlespace Management System Capability	CAF14	92	82	(10)	<p>The Air Battlespace Management System provides surveillance and air defence command and control within Australia and overseas, supporting the joint force, allies and partners.</p> <p>During 2022-23, industry partners worked to develop the second major increment of the spiral sustainment capability assurance program, remediating obsolescence to deliver a relevant, credible and reliable air surveillance and control capability. The enterprise management framework was matured, while supporting Air Force's transition to new Integrated Air and Missile Defence capability delivered by AIR 6500.</p> <p>The variation is due to the replanning, early in the financial year, of the sustainment capability assurance program to match the forecast availability of industry.</p>
Defence Enterprise Programs					
Explosive Ordnance Manufacturing Facilities	CJC01	97	124	26	<p>The product ensures the Explosive Ordnance Manufacturing Facilities as Government Owned Contractor Operated (GOCO) operations at the munitions factories at Benalla and Mulwala are safe, compliant, and sustainable, in order to provide stock surety by maintaining a surge capability munitions, as well as delivering specified ADF domestic munitions.</p> <p>During 2022-23, the key focus of CJC01 was on sustaining product activities, including exploring opportunities for enhanced munitions manufacturing capabilities that are practical, sustainable, and economically viable, providing a capability boost and increased supply assurance to the ADF.</p> <p>The variation was due an increase in procurement activity and an earlier than forecast recognition of the Strategic Domestic Munitions Manufacturing contract escalation payment forecast in 2023-24. The contract escalation indexes have been higher than forecast noting large increases in Australian manufacturing, supply and construction indices.</p>
Information and Cyber					
Joint Data Networks	CJC03	83	56	(27)	<p>The Joint Data Network enables the ADF to securely distribute specific tactical information in near real-time to provide situational awareness to platforms, commanders, and operators. The Joint Data Network comprises two key capabilities: The Multi-Tactical Data Link Network systems/components and the integrated broadcast service systems/components, at fixed, deployable and mobile sites/platforms.</p> <p>During 2022-23, Defence worked closely with industry partners in the continuation of modernisation of identified Link systems, remediation of select system hardware components and facilities, and refreshed the current in-service support contracts.</p> <p>The variation is due to lower than forecast requirements for training and contracted support, and later than forecast delivery of Initial Common Support Infrastructure equipment and facilities.</p>
Land Domain					
Multi Role Helicopter - MRH90	CA48	296	226	(70)	<p>The MRH90 Taipan capability provides battlefield airlift support to the joint force. In-Service Support is provided by a prime contract with Airbus Australia Pacific. The fleet is located at the 5th Aviation Regiment in Townsville QLD, 6th Aviation Regiment in Sydney NSW, and Army Aviation Training Centre in Oakey QLD. Deeper maintenance is conducted in Brisbane QLD.</p> <p>During 2022-23, efforts were made to assure the capability and improve availability and sustainability of the platform through collaboration with Airbus Australia Pacific and the European Defence Industry.</p> <p>The variation is primarily due to a reduction in expenditure as a result of reduced Rate of Effort.</p>

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Army Munitions & Guided Weapons	CA59	271	278	7	<p>The Army Munitions and Guided Weapons product supports Army's explosive ordnance inventory which consists of small arms ammunition, pyrotechnics, mortar and artillery ammunition, special purpose ammunition, demolitions stores, vehicle ammunition, direct fire and Army guided weapons. Guided weapons are the Javelin anti-tank missile, RBS 70 Bolide Missile anti-aircraft missile and the AGM114 Air to Ground missile. CA59 includes sustainment of inventory used by Navy and Air Force where Army is the lead Service.</p> <p>During 2022-23, the focus of the Artillery Product Family was on remediation efforts to address availability issues and achieve the allocated budget.</p> <p>The variation was due to earlier than forecasted deliveries of demolition stores and small arms ammunition.</p>
Armed Reconnaissance Helicopter Weapons System	CA12	164	141	(23)	<p>The 22 Tiger Armed Reconnaissance Helicopters are capable of performing advanced reconnaissance and providing precision firepower in support of both ground and airborne assets in a range of weather conditions.</p> <p>During 2022-23, efforts were made to enhance the availability and sustainability of the platform, through close collaboration with Airbus Australia Pacific.</p> <p>The variation is due to reduced requirements, foreign exchange rate variance and delays to obsolescence activities.</p>
Battlespace Communication Systems	CA31	153	142	(11)	<p>The Battlespace Communications System comprises of a range of deployable voice and data communications systems used for command and control.</p> <p>During 2022-23, key activities included capability enhancements to the trunk system (the back bone of a deployed network), reduction and disposal of obsolete radio systems and support for design, acquisition and sustainment to related systems.</p> <p>The variation is due to supply chain fragility and Foreign Military Sales activity.</p>
ADF Clothing	CA39	89	84	(5)	<p>The ADF Clothing comprises over 16,000 line items of uniform, footwear and other items supplied by the textile, clothing and footwear industry.</p> <p>During 2022-23, key product sustainment activities included:</p> <ul style="list-style-type: none"> - evaluation of industry responses for the Future Clothing System, which will introduce a contemporary supplier engagement model for the delivery of ADF clothing; - ongoing enhancement of the Standard Combat Uniform, including introduction of a female-specific sizing range to supplement the existing unisex Standard Combat Uniform range; and - ongoing procurement of clothing and footwear to meet the ADF's operations and 'raise, train and sustain' requirements. <p>The variation is due to supplier delivery capacity.</p>
Protected Mobility Vehicles	CA04	84	82	(2)	<p>The Protected Mobility Product Schedule provides in-service support for the ADF's fleet of Protected Mobility Vehicle - Medium (Bushmaster) and the Protected Mobility Vehicle - Light (Hawkei). The product schedule provides funding to support the vehicles through Thales Australia (the vehicle manufacturer) and Regional Joint Logistics Units. A through-life support contract is in place with Thales Australia for repair, maintenance and overhaul services.</p> <p>During 2022-23, the key sustainment activities included:</p> <ul style="list-style-type: none"> - support to the in-service Bushmaster and Hawkei fleet; - supporting the preparation and delivery of Bushmaster vehicles and a support package for gifting to Ukraine and Indonesia; - concluding support arrangements, as Bushmaster was withdrawn from deployed operations; and - ongoing modernisation of the Bushmaster fleet. <p>The variation is due to lower than planned inventory purchases resulting from spares unavailability.</p>

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Maritime Domain					
Collins Class Submarine	CN10	740	744	4	<p>The Collins class submarine product comprises support arrangements to safely maintain the materiel capability of six Collins class submarines and the present submarine escape and rescue capability. This work is conducted under enterprise arrangements with industry and through key contracts with ASC Pty Ltd, Raytheon Australia, Thales Australia, BAE Systems Australia, PMB Defence, James Fisher Defence and other providers.</p> <p>During 2022-23, the Navy's submarine requirements were challenged as the effects of COVID-19, a significant fire onboard HMAS Waller in an earlier period as well as the impacts from international supply chains filtered through the program. Ongoing Collins class life-of-type extension work under CN62, alongside ongoing effective sustainment (CN10) and selected capability enhancements (most specifically (SEA 1439) continued to inform materiel plans for the Collins class fleet.</p> <p>The variation was due to procurement of additional inventory.</p>
Anzac Class Frigate	CN02	372	369	(3)	<p>The Anzac Class Frigate product comprises support arrangements to maintain the capability of the eight Anzac class frigates and support systems through the provision of materiel support, maintenance and engineering services.</p> <p>During 2022-23, the focus was on completing the scheduled Anzac class maintenance activities. The Anzac Midlife Capability Assurance Program also continued over this period. This program progressed upgrades to maritime communications under SEA 1442 Phase 4, and Air Search Radar Replacement under SEA 1448 Phase 4B.</p> <p>The variation in expenditure was primarily related to receipt of inventory items.</p>
Hobart Class Destroyer (DDG)	CN40	247	204	(43)	<p>The Hobart class destroyer product comprises support arrangements to maintain the capability of three Hobart class destroyers through the provision of materiel support and ongoing maintenance of the ships and associated equipment, systems and operator training facilities.</p> <p>During 2022-23, the majority of scheduled Hobart class maintenance activities were completed to ensure Navy's requirements were achieved while examining opportunities for continual improvement and efficiency. Preparations increased to support the intended Aegis Upgrade Program (SEA 4000 Phase 6), and direction to integrate the Tomahawk cruise missile into the class.</p> <p>The variation in expenditure was due to reduction in product expenditure approved by Navy, together with delays to the scheduled HMAS Hobart maintenance period to accommodate the HMAS Supply unplanned docking.</p>
Navy Explosive Ordnance	CN54	201	275	74	<p>The Navy Explosive Ordnance product supports Navy's guided weapons and explosive ordnance, including precision guided munitions, countermeasures, navigational outfits and Naval gunnery. Navy's guided weapons are categorised into three main streams: maritime strike and munitions, underwater weapons and air and missile defence.</p> <p>During 2022-23, key sustainment activities included prioritisation and planning of Guided Weapons & Explosive Ordnance Group priorities including acceleration of domestic manufacture and maintenance to foster opportunities for Australian industry in sustainment and related activities, and acquisition of guided weapons and explosive ordnance. Additionally, operations commenced in the newly constructed missile maintenance facility at Defence Establishment Orchard Hills.</p> <p>The variation was predominately due to accelerated acquisition of guided weapons, consistent with recommendations outlined in the Defence Strategic Review (DSR).</p>
Collins Class Submarine Program Life Of Type Extension (LOTE)	CN62	188	192	4	<p>The Collins Class Submarine Program LOTE is planning to extend the life of all six Collins class submarines. Integrated with ongoing sustainment (under CN10) and select capability investments (most specifically under SEA 1439), LOTE will assure the Collins class remains potent and agile, able to shape, deter and respond to the strategic environment well into the 2040s. The first LOTE work package is planned to be installed in HMAS Farncomb at Osborne, in South Australia, in 2026.</p> <p>During 2022-23, the program progressed engineering design work with the completion of a System Design Review. The program also signed First of Class procurement contracts for three major suppliers, for the main motor, propulsion switchboard and diesel generators.</p> <p>The variation overspend was due to the award of three major subcontracts in June 2023.</p>
Canberra Class Landing Helicopter Dock	CN34	169	160	(10)	<p>The Canberra Class Landing Helicopter Dock products support comprises arrangements to maintain the capability of the two Canberra class Landing Helicopter Docks and 12 Landing Helicopter Docks landing craft, through the provision of materiel support and ongoing maintenance of the ships and associated equipment, systems and operator training facilities.</p> <p>During 2022-23, the focus was on delivering the scheduled maintenance activities, achieving a steady state for the in-service support arrangements, finalisation of platform and support system remediation activities conducted under amphibious ships project (JP 2048 Phase 4A/B), and progression of design activities for the Canberra class capability assurance program (SEA 2048 Phase 6).</p> <p>The variation was due to reduction in product expenditure approved by Navy, together with the receipt of inventory items.</p>

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MH-60R Seahawk Romeo Helicopter	CN35	167	150	(18)	<p>The Seahawk Romeo capability is operated from HMAS Albatross in Nowra, NSW and is supporting eight embarked flights in Navy ships.</p> <p>During 2022-23, the focus was on expanding sustainment arrangements for the additional MH-60R Seahawk Romeo helicopters that will be delivered under the Improved Embarked Logistics Support Helicopter project (SEA 9100 Phase 1), which will expand the helicopter fleet.</p> <p>The variation is due to lower than forecast expenditure on contracted support, spares and repairable items.</p>
Armidale Class Patrol Boat	CN09	114	77	(36)	<p>The Armidale Class Patrol Boat supports arrangements to maintain the capability of the Armidale class patrol boats, Cape class patrol boats and evolved Cape class patrol boats through the provision of materiel support and ongoing maintenance of the ships and associated equipment, systems and operator training facilities.</p> <p>During 2022-23, the focus was on supporting the program to achieve continued operational capability for the Patrol Boat Enterprise, whilst continuing phase-out activities for the remaining Armidale class patrol boats and the phase-in of evolved Cape class patrol boats currently being acquired, in conjunction with ongoing activities to remediate the deficiencies in the platform and support systems.</p> <p>The variation was due to delays in procurement and contracted works costs being lower than anticipated.</p>
Auxiliary Oiler Replenishment (AOR)	CN50	102	80	(21)	<p>The Auxiliary Oiler Replenishment product comprises support arrangements to maintain the capability of the two Supply class ships and support systems through the provision of materiel support, maintenance and engineering services.</p> <p>During 2022-23, CN50's key activities included delivering the scheduled and corrective maintenance activities whilst supporting the capability acceptance process.</p> <p>The variation in expenditure was due to reduction in product expenditure approved by Navy, earlier recognition of maintenance work in 2021-22 and lower than anticipated contractor costs.</p>
Aegis Combat System	CN60	85	90	5	<p>The CN60 Product Schedule supports the upkeep and update of the Aegis Combat System products in the Hobart class destroyers, as well as related shore based test and training infrastructure, both in Australia and the United States.</p> <p>During 2022-23, the product's focus was on commencing the installation of a major update for the combat system computer program; delivering software and hardware updates for Aegis Weapon System elements; designing and development of the next combat system computer program build and associated Aegis Weapon System element updates.</p> <p>The variation was due to higher than anticipated disbursements associated with the Foreign Military Sales (FMS) cases. These FMS cases provide ongoing upkeep and update of the Aegis Combat System in the Hobart class destroyers.</p>
Total -Top 30 Products		6,021	5,818	(203)	
Other Approved Sustainment Product		2,906	3,347	441	
Total Sustainment Product Funds Available		8,927	9,165	239	
Support to Operations		71	99	28	
Total Sustainment and Operations Funding		8,998	9,264	266	

Notes:

1. The budget estimate for 2022-23 was published in the October Portfolio Budget Statements 2022-23.
2. Totals in the columns may not total due to rounding.

Web Table D.2: Top 30 acquisition projects by expenditure 2022-23

Domain/Project Name	Project Number/ Phase	Project Inputs to Capability	Approved project expenditure ¹ \$m	Cumulative expenditure to 30 June 2022 \$m	Budget estimate 2022-23 ² \$m	Final plan ³ 2022-23 \$m	Actual expenditure ⁴ 2022-23 \$m	Variation ⁵ \$m	Project update and explanation of variation 2022-23
Air Domain									
New Air Combat Capability	AIR 6000 Phase 2A/B	Military Equipment Acquisition	16,425	10,743	976	933	1,090	156	The New Air Combat Capability is approved to acquire 72 F-35A Lightning II (Joint Strike Fighter) aircraft and supporting elements to form four squadrons: three squadrons for operations and one squadron for training. The Prime Contractor, Lockheed Martin, is contracted to the United States Government to develop and produce F-35A aircraft. Australia is procuring the aircraft through a cooperative program.
		Other Project Inputs to Capability	1,726	1,530	2	2	9	7	During 2022-23, the project's focus was on the delivery of the remaining aircraft, infrastructure and logistics support capacity for stand up of 75 Squadron as well as weapons integration and finalisation of Australian F-35 training capabilities in preparation for Australian Final Operational Capability; and warehousing and depot repair under the United States Joint Project Office Global Support Solution. The variation is due to Lot 15 costs that were incurred earlier than planned.
P-8A Maritime Patrol & Response Aircraft System	AIR 7000 Phase 2	Military Equipment Acquisition	5,645	4,344	284	256	247	(9)	The P-8A Maritime Patrol & Response Aircraft System is approved to acquire 14 P-8A Poseidon aircraft and supporting elements for maritime patrol and other intelligence, surveillance, and reconnaissance roles. There remain two aircraft yet to be delivered in 2024. The aircraft and systems are procured through a cooperative program with the United States Navy. This includes a suite of aircrew and maintenance training systems, three Mobile Tactical Operations Centres, and logistics support elements.
		Other Project Inputs to Capability	943	762	41	38	52	14	During 2022-23, updates continued across the Australian fleet to align the aircraft and training system configurations with the latest P-8A capability baseline. These efforts aimed to enhance operational effectiveness and maintain compatibility with evolving defence requirements. The variation is due to revised aircraft and training system requirements.
Long Range ISREW Aircraft	AIR 555 Phase 1	Military Equipment Acquisition	2,360	1,498	181	212	193	(19)	The Long Range ISREW Aircraft is approved to acquire four MC-55A Peregrine aircraft including mission, ground and support systems, and Australian based facilities. The project is primarily a developmental Foreign Military Sales acquisition through the United States Air Force.
		Other Project Inputs to Capability	514	202	119	110	104	(6)	During 2022-23 the project focused on aircraft modification and integration, specifically, the integration of initial ground and support systems for the MC-55A capability commencing at the Initial Operating Facility. The variation is primarily due to schedule delays to aircraft modification and flight testing.
Multi-mission Unmanned Aircraft System	AIR 7000 Phase 1B	Military Equipment Acquisition	2,404	660	238	227	266	39	The Multi-Mission Unmanned Aircraft System is approved to acquire the MQ-4C Triton Remotely Piloted Aircraft System for maritime patrol and other intelligence, surveillance, and reconnaissance roles. The aircraft and systems are being procured through a cooperative program with the United States Navy. The approved scope includes the first three aircraft, associated operations and training systems, facilities, and integration into Defence networks. Additional tranches of aircraft and support systems will be considered in subsequent submissions to Government.
		Other Project Inputs to Capability	643	61	37	35	48	13	During 2022-23, the project delivered additional capabilities to support network test and integration. The conversion of existing facilities at RAAF Base Tindal will serve as an interim solution for the receipt of the first aircraft and Forward Operating Base, with plans for facility construction at RAAF Base Edinburgh and RAAF Base Tindal pending Public Works Committee approval. The variation is primarily due to expenses for the first four aircraft being incurred earlier than anticipated and bringing forward a Memorandum Of Understanding payment.
Ground Based Air & Missile Defence Enhancement	LAND 19 Phase 7B	Military Equipment Acquisition	1,233	632	158	182	190	8	The project will deliver Army's new Short Range Ground Based Air Defence system. The capability delivered will be an enhanced version of the jointly developed Raytheon/Kongsberg National Advanced Surface to Air Missile System which incorporates guided missiles and missile launchers, command and control shelters, electro-optical sensors and radars, all mounted on current Army vehicles. Australian-developed radars from CEA Technologies will be provided as Government furnished equipment to replace the United States-developed Sentinel radar in the system.
		Other Project Inputs to Capability	287	13	69	45	9	(35)	During 2022-23 the project completed whole-of-system testing, including a full system flight trial, and initiated the delivery and acceptance of the initial major systems. These milestones mark significant progress towards an Initial Operating Capability. The variation is primarily due to earlier than planned Foreign Military Sales disbursements for the Advanced Medium-Range Air to Air Missile case.
MQ-28A Ghost Bat	DEF 6014 Phase 2	Military Equipment Acquisition	454	-	220	233	218	(15)	The MQ-28A Ghost Bat (formerly referred to as Loyal Wingman) aims to deliver a low-cost uncrewed combat air system with fighter-like performance to contribute to the joint force.
		Other Project Inputs to Capability	3	-	-	2	0	(2)	During 2022-23, the project continued to test and experiment the MQ-28A. A Combat Collaborative Aircraft Project Arrangement was signed between the United States and Australia. The variation is primarily due to production components that were delayed to 2023-24.

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Civil Military Air Traffic System (CMATS)	AIR 5431 Phase 3	Military Equipment Acquisition	1,010	519	131	128	92	(36)	The project will provide the Defence element of a single national CMATS, being progressed jointly under the OneSKY Australia program with Airservices Australia. Airservices Australia is the lead agency for OneSKY, which is intended to provide operational benefits and efficiencies for military and civil airspace users. The Defence scope element includes Air Traffic Management automation systems, communications infrastructure, training systems at 12 Defence airbases, communications infrastructure, training systems and Defence's share of a joint software support facility.
		Other Project Inputs to Capability	448	429	7	6	4	(2)	During 2022-23, the project was declared a Project of Concern due to significant schedule, technical and cost challenges. Defence has collaborated with Airservices Australia and Thales Australia to develop and implement a plan to remediate the project. The variation is due to a pause in payments to Airservices Australia, under the On Supply Agreement, resulting from the significant delay to delivery of CMATS supplies from Thales Australia.
Joint Air Battle Management System	AIR 6500 Phase 1	Military Equipment Acquisition	370	70	106	124	127	3	The project will replace the existing Wakulda and Warden Air Battle Management systems with a foundation for Integrated Air and Missile Defence to detect, deter, deny, and defeat airborne threats to the Joint Force. The project will provide deployable sensors and operations centres with command and control systems that will act as the primary interface to multi-domain contributory capabilities. Tranche 1 will deliver four radars from Canberra based CEA Technologies. Tranche 2 will deliver the rest of the Joint Air Battle Management System over a series of sub-tranches. The first of these (Tranche 2A) was approved by Government in Quarter 3, 2023 and included the selection of Lockheed Martin Australia as the Strategic Partner.
		Other Project Inputs to Capability	69	7	17	7	6	(1)	During 2022-23, the project focused on sub-system production and integration design for the Tranche 1 radars and execution of the Tranche 2 competitive evaluation process. The variation is due to the early delivery of Tranche 1 equipment and higher than planned expenditure for the Tranche 1 prime contract.
Airborne Early Warning and Control (AEWC) Capability Upgrade	AIR 5077 Phase 6	Military Equipment Acquisition	214	54	117	119	100	(20)	The Airborne Early Warning and Control (AEWC) Capability Upgrade will provide mid-life treatment of critical obsolescence issues with intent to maintain the E-7A Wedgetail Minimal Viable Capability (MVC), and assure continued safe operation in assigned roles through to planned withdrawal date of 2035 and beyond. Throughout the year, the project prioritised risk reduction, technical studies, tender evaluation, and activities focused on offer definition and improvement.
		Other Project Inputs to Capability	9	3	4	6	4	(1)	During 2022-23 the project advanced key project objectives, including refining scope to identify a solution that was both affordable and aligned with operational requirements. The variation is primarily due to delays in the 'Early Works' program, Foreign Military Sales expenditure and Radar Development activity.
Lead-In Fighter Capability Assurance	AIR 5438 Phase 2	Military Equipment Acquisition	522	93	121	77	73	(4)	The Lead-In Fighter Capability Assurance is upgrading the Hawk 127 Lead-In Fighter Training System and replacing the aircraft engines, ensuring the training system is safe and fit for purpose through to the revised planned withdrawal date of 2032.
		Other Project Inputs to Capability	-	-	-	-	-	-	-
Enterprise Programs									
COMSEC Remediation	JNT 9141 Phase 1	Military Equipment Acquisition	750	264	117	111	109	(2)	The project will remediate selected ADF radios and encryption devices to meet upcoming algorithm obsolescence. This will ensure ongoing availability of secure communications in support of Defence operations, including through interoperability with key partner communications and intelligence networks.
		Other Project Inputs to Capability	46	14	8	7	5	(2)	During 2022-23 the project focused on compliance and technical certification of radios and devices for platforms, meeting the necessary technical requirements, and the successful delivery of radios, encryption devices and ancillary equipment. The variation is due to a minor Foreign Military Sale radio delivery delay.

Web Table D.2: Top 30 acquisition projects by expenditure 2022-23

Domain/Project Name	Project Number/ Phase	Project Inputs to Capability	Approved project expenditure ¹ \$m	Cumulative expenditure to 30 June 2022 \$m	Budget estimate 2022-23 ² \$m	Final plan ³ 2022-23 \$m	Actual expenditure ⁴ 2022-23 \$m	Variation ⁵ \$m	Project update and explanation of variation 2022-23
Information and Cyber									
Joint Data Networks	JNT 9347 Phase 1	Military Equipment Acquisition	565	42	135	95	61	(34)	<p>The project will deliver systems to assure Defence's Joint Data Network Capability that enable the rapid exchange of sensor and Command and Control data between Defence's maritime, air and land platforms and those of our partners.</p> <p>During 2022-23, the project progressed design reviews for the Network Management and Expanded Network Coverage System. The project entered contract to upgrade Defence's Integrated Broadcast Service capability. The project also established updated Foreign Military Sales agreements for modern Joint Data Network equipment to support ADF Platforms.</p> <p>The variation is primarily due to the delay in signing of the Memorandum of Understanding for access to NATO Improved Link Eleven.</p>
		Other Project Inputs to Capability	144	64	19	16	10	(6)	
Land Domain									
Mounted Combat Reconnaissance Capability	LAND 400 Phase 2	Military Equipment Acquisition	5,657	1,851	686	616	570	(47)	<p>The project will deliver 211 Boxer 8x8 Combat Reconnaissance Vehicles for Reconnaissance, Joint Fires and Surveillance, Multi-Purpose, Command, Repair and Recovery roles. An additional 12 Mission Modules will be delivered, providing the Army the ability to rapidly re-role from one variant to another. The vehicles will replace the ADF's current combat reconnaissance vehicle capability, the Australian Light Armoured Vehicle. The primary role of the vehicles will be to perform ground-based reconnaissance and counter-reconnaissance activities.</p> <p>During 2022-23, the project was focused on the progression of the designs of the Block II variants and the commencement of production activities in preparation for delivery of the first Australian assembled Boxer vehicle.</p>
		Other Project Inputs to Capability	128	38	10	9	9	(1)	
Protected Mobile Fires	LAND 8116 Phase 1	Military Equipment Acquisition	1,316	182	244	251	256	5	<p>The project will deliver a new self-propelled artillery capability and supporting systems to complement the Australian Army's existing towed artillery capability. The capability delivered will be an enhanced version of Hanwha's K9 Self-Propelled Howitzer and K10 Armoured Ammunition Resupply Vehicles, incorporating significant capability upgrades to meet Australian protection and digital integration requirements.</p> <p>During 2022-23, the project's primary focus was maturing the system design in preparation for the commencement of production; completing the preliminary design review and progressing the system detailed design. Additionally, the project commenced testing activities supporting the integration of ADF 155mm munitions.</p>
		Other Project Inputs to Capability	42	2	5	2	3	0	
Tactical Training Vehicles	LAND 121 Phase 5B	Military Equipment Acquisition	1,170	641	165	167	189	22	<p>The Tactical Training Vehicles project will complete the medium and heavy vehicle capability replacement program that commenced under project LAND 121 Phase 3B. It will acquire an additional 1,044 medium and heavy vehicles, 872 modules and 812 trailers. The Project will also acquire Land Mobility Tactical Training systems to enable individual and collective crew procedural training.</p> <p>During 2022-23 the project has continued to accept and introduce-into-service vehicles, modules and trailers.</p> <p>The variation is due to progressing the early delivery of contract milestones.</p>
		Other Project Inputs to Capability	230	78	82	72	78	7	
Battlefield Command Systems (Tranche 2)	LAND 200 Phase 2-A	Military Equipment Acquisition	971	661	200	168	102	(66)	<p>The project was scoped to provide Army with a Battle Management System and deliver a new Tactical Communications Network that transforms command and control of Land Forces into a modern networked system.</p> <p>During 2022-23, the project focused on commercial negotiations with the prime contractors for the Battle Management System and the Tactical Communications Network.</p> <p>The variation is due to delays to delivery of contract milestones.</p>
		Other Project Inputs to Capability	48	43	2	2	2	(0)	
Main Battle Tank Upgrade, Combat Engineering Vehicles	LAND 907 Phase 2	Military Equipment Acquisition	2,283	72	181	142	80	(62)	<p>The project will deliver 75 M1A2 Abrams Main Battle Tanks to replace the in-service M1A1 variant, 52 Combat Engineering Vehicles and associated training and simulation systems. The upgraded vehicles will be acquired through the United States Government Foreign Military Sales program.</p> <p>During 2022-23, the project completed work in preparation for delivery of the vehicles, introduction into service, support of the capabilities and long-term support in partnership with the United States Government. Defence established contracts with Australian Industry for training systems and engineering logistics support.</p> <p>The variation is due to the timing of Foreign Military Sales disbursements related to the Combat Engineering Vehicles and Main Battle Tank Foreign Military cases, however the project remains on schedule to deliver all vehicles and training systems in line with Government Approval.</p>
		Other Project Inputs to Capability	36	8	3	2	2	1	

Web Table D.2: Top 30 acquisition projects by expenditure 2022-23

Domain/Project Name	Project Number/ Phase	Project Inputs to Capability	Approved project expenditure ¹ \$m	Cumulative expenditure to 30 June 2022 \$m	Budget estimate 2022-23 ² \$m	Final plan ³ 2022-23 \$m	Actual expenditure ⁴ 2022-23 \$m	Variation ⁵ \$m	Project update and explanation of variation 2022-23
Project Overlander - Protected Mobility Vehicle - Light	LAND 121 Phase 4	Military Equipment Acquisition	1,972	1,527	153	156	154	(2)	The project will deliver 1,098 Overlander - Protected Mobility Vehicle – Light (PMV-L) 'Hawkei' vehicles and 1,058 companion trailers, for command, liaison, utility and reconnaissance roles. During 2022-23, achievement of Final Operating Capability was re-scheduled to June 2024 due to initial challenges meeting Full-Rate-Production and uplift capacity requirements, as well as COVID-19 related disruptions to global supply chains. This has impacted Army's ability to complete the necessary training for the introduction of the capability. Defence and Thales continue to work collaboratively to resolve the Hawkei brake safety issue. The minor variation is due to the delayed acceptance of vehicles, which have been impacted by the Hawkei brake safety issue.
		Other Project Inputs to Capability	0	0	-	-	-	-	-
Additional Chinook Helicopters	LAND 4502 Phase 2	Military Equipment Acquisition	440	120	143	144	140	(5)	The project will acquire four additional CH-47F helicopters, including additional modifications to the aircraft fleet, spares, tooling and upgrades to ground training devices. The additional CH-47F helicopters, spares and tooling will be acquired through Foreign Military Sales and Direct Commercial Sales. The major component of this rapid acquisition project has been delivered, with the arrival of four CH-47F aircraft during 2021 and 2022. During 2022-23, the project achieved Certificates of Airworthiness for the four aircraft and made significant progress towards the declaration of Initial Operating Capability, which is expected to be achieved early in 2023-24. The variation is primarily due to delays in delivery of spares.
		Other Project Inputs to Capability	0	-	0	-	-	-	-
Joint Counter Improvised Explosive Device	LAND 154 Phase 4	Military Equipment Acquisition	546	190	125	109	95	(14)	The project is delivering a Joint Counter Improvised Explosive Device Capability to protect against radio controlled improvised explosive devices, equipment for Explosive Ordnance Disposal teams and search, neutralisation and exploitation capabilities for the ADF. During 2022-23, the project examined the wider threat environment, the methods to best achieve the necessary operational outcomes, and engaged with industry for the purpose of risk reduction in support of the program.
		Other Project Inputs to Capability	56	12	7	7	6	(2)	The variation is due to supply chain issues and delays to Foreign Military Sales expenditure.
Armed Reconnaissance Helicopter (ARH) Replacement	LAND 4503 Phase 1	Military Equipment Acquisition	4,393	44	120	66	51	(15)	The project will acquire the AH-64E Apache, as a proven, mature and off-the-shelf attack helicopter that replaces the current Tiger helicopter capability. During 2022-23, the project focused on the implementation of Foreign Military Sales arrangements with the United States Army, as the Prime System Integrator, and conducted a tender for an Initial Support Contract with Boeing Defence Australia.
		Other Project Inputs to Capability	584	6	5	6	3	(3)	The variation is due to delays in the United States Government establishing the Boeing Apache Multi-Year II Production contract for aircraft production and the delay to the acquisition of a donor airframe from the United Kingdom as the basis for the production of a maintenance training device.
Tactical Unmanned Aerial Vehicles Upgrade	LAND 129 Phase 3	Military Equipment Acquisition	371	38	109	98	57	(41)	The project will replace and enhance the existing Unmanned Aerial System capability. It will grow the capability to provide a third Tactical Unmanned Aerial System sub-unit to enable training and support across Combat Brigades. During 2022-23, the project progressed through preliminary and detailed design reviews. Army successfully deployed the interim training system as part of Exercises FALCONS CRAWL and TALISMAN SABRE.
		Other Project Inputs to Capability	76	3	11	11	3	(7)	The variation is primarily due to milestone delays, and commencement of facilities works moving to 2023-24.
Multi-Role Helicopter (MRH)	AIR 9000 Phase 2	Military Equipment Acquisition	3,655	3,497	106	92	77	(14)	The project acquired 47 MRH90 [Taipan] helicopters and support systems for the Army and the Navy. During 2022-23, following the approval of the MRH Rapid Replacement Project (LAND 4507 Phase 1), the path to project closure is confirmed. A contract change proposal has been developed to implement reductions in scope required to close the project.
		Other Project Inputs to Capability	24	24	-	-	-	-	-

Web Table D.2: Top 30 acquisition projects by expenditure 2022-23

Domain/Project Name	Project Number/ Phase	Project Inputs to Capability	Approved project expenditure ¹ \$m	Cumulative expenditure to 30 June 2022 \$m	Budget estimate 2022-23 ² \$m	Final plan ³ 2022-23 \$m	Actual expenditure ⁴ 2022-23 \$m	Variation ⁵ \$m	Project update and explanation of variation 2022-23
Maritime Domain									
Future Frigate - Design and Construction	SEA 5000 Phase 1	Military Equipment Acquisition	6,148	1,828	725	725	742	17	<p>This project will introduce into service nine new anti-submarine warfare frigates. Based on the Type 26 Global Combat Ship, the Hunter class frigates will replace the existing fleet of eight Anzac class frigates and form the next generation of major surface combatants.</p> <p>During 2022-23, SEA5000PH1 continued to progress design and productionisation activities, including prototyping activities, supply of long lead items for production and progressing towards a whole of ship preliminary design review. The project also furthered its engagement and efforts to advance Australian industry capability.</p> <p>The variation is predominantly due to increased expenditure by the Head Contractor, together with higher than anticipated Foreign Military Sales expenditure.</p>
		Other Project Inputs to Capability	1,011	264	218	203	234	30	
Offshore Patrol Vessel	SEA 1180 Phase 1	Military Equipment Acquisition	3,664	1,045	515	344	292	(52)	<p>The project will acquire 12 new vessels based on an existing design, to replace and improve upon the capability delivered by the Armidale class patrol boats. The Arafura class offshore patrol vessel's (OPV) primary role will be the maritime patrol and response operations in support of the National Civil Surveillance Program in order to contribute to protecting Australia's territory, territorial seas, and Economic Exclusion Zone.</p> <p>During 2022-23, the project continued to progress the build of six OPVs. (OPV 1 to be delivered in Quarter 2 2024 and launch of OPV 2 is planned for Quarter 4 2024.)</p> <p>The variation is mainly due to sparing and support system activities now being funded by the OPV System Project Office, a lower than anticipated spend for Boomeranger Seaboats and slower than anticipated increase in the project office contracts.</p>
		Other Project Inputs to Capability	984	148	199	210	190	(19)	
Navy Guided Weapons Sub-Program	SEA 1300 Phase 1	Military Equipment Acquisition	6,264	779	246	300	423	123	<p>The Navy Guided Weapons Sub-Program was established through the 2020 Force Structure Plan, to introduce a programmatic approach in delivering Navy guided weapon capabilities. The programmatic approach will ensure alignment with the National Naval Shipbuilding Enterprise, the Guided Weapons and Explosive Ordnance Group and Navy's combat management systems.</p> <p>During 2022-23, the project continued to progress development and accelerate acquisition activities related to long-range anti-ship missiles, extended range surface-to-air missiles, advanced light weight torpedos and maritime land strike capabilities.</p> <p>The variation was predominately driven by the accelerated acquisition of Navy weapons and costs associated with domestic weapon production being brought forward consistent with Defence Strategic Review (DSR) recommendations.</p>
		Other Project Inputs to Capability	44	2	4	2	0	(2)	
AWD AEGIS Capability Upgrade	SEA 4000 Phase 6	Military Equipment Acquisition	938	102	174	130	130	0	<p>This project will increase the ADF air and missile defence capability. The project will upgrade the three destroyers' Aegis combat system to Aegis Baseline 9 and replace the Kongsberg Australian Tactical Interface with a Saab Australia developed Australian Interface. The project achieved Interim First Pass approval in mid-2021.</p> <p>During 2022-23, SEA4000PH6 continued to progress planning and development work in the lead up to Second Pass approval.</p> <p>The project delivered against the financial plans.</p>
		Other Project Inputs to Capability	14	2	6	5	2	(4)	
Evolved Cape Class Patrol Boats	SEA 1445 Phase 1	Military Equipment Acquisition	469	201	158	142	156	13	<p>The Evolved Cape Class Patrol Boats project will deliver eight vessels that will assist the Navy with transition from the existing Armidale class patrol boats to the new, more capable Arafura class offshore patrol vessels.</p> <p>During 2022-23, the project focussed on ensuring the earliest achievable delivery dates for the first 4 vessels, to meet transition schedule imperatives, with some consequent delays to boats 5 & 6 due to the COVID 19 pandemic.</p> <p>Boats 7 & 8 experienced a 20 week delay to delivery of propulsion engines and generators from Caterpillar, USA as a result of COVID 19. Boat 8 is now due for delivery in November 2024.</p> <p>The variation is primarily attributable to the milestone completion accruals for work completed on Boat 6, Boat 7 and Boat 8.</p>
		Other Project Inputs to Capability	-	-	-	-	-	-	

Web Table D.2: Top 30 acquisition projects by expenditure 2022-23

Domain/Project Name	Project Number/ Phase	Project Inputs to Capability	Approved project expenditure ¹ \$m	Cumulative expenditure to 30 June 2022 \$m	Budget estimate 2022-23 ² \$m	Final plan ³ 2022-23 \$m	Actual expenditure ⁴ 2022-23 \$m	Variation ⁵ \$m	Project update and explanation of variation 2022-23
Undersea Support Vessel	SEA 3033 Phase 5	Military Equipment Acquisition	161	-	155	145	121	(23)	<p>The Undersea Support Vessel capability seeks to deliver a Navy capability to support trials and integration of undersea warfare and surveillance systems. The vessel will also deliver the ability to host a variety of small teams and on-board and off-board systems, both optionally crewed and un-crewed remote and autonomous systems.</p> <p>During 2022-23, the project purchased an existing vessel, the MV Normand Jarl, for \$107.2 million and immediately underwent essential certification, upkeep and upgrade activities in Singapore, before the vessel's transit to Sydney under the Australian flag ahead its planned introduction into service before the end of 2023.</p> <p>The variation was primarily due to activities relating to procuring long lead items (seaboat davits and replacement main crane wire) and undertaking necessary vessel modifications subsequently forecast to be completed in 2023-24. These future vessel modifications are planned to be implemented on the Undersea Support Vessel between Initial Operational Release, Initial Operational Capability and Final Operational Capability.</p>
		Other Project Inputs to Capability	2	-	2	1	0	(1)	
Space Domain									
Protected Satellite Communications	JNT 9103 Phase 1	Military Equipment Acquisition	482	148	136	140	134	(6)	<p>The project seeks to provide a sovereign, modern, secure and highly effective Advanced Extremely High Frequency (AEHF) satellite communications capability to maximise the combat effects of an integrated and networked ADF. The project will deliver the ground, space and management segments of the AEHF capability. The project will also provide the network routing solution for Maritime Tactical Wide Area Network integration for selected ADF platforms.</p> <p>During 2022-23, the project focused on delivering remaining elements of the Ground Station, Management and Control Centre, and integration of ADF platforms and network communications.</p> <p>The variation is due to rescheduled Foreign Military Sales payments and delayed platform installation due to platform unavailability based on operational requirements.</p>
		Other Project Inputs to Capability	28	7	6	2	1	(2)	
Total Top 30 Projects (Gross Plan) - Total			80,992	35,570	8,010	7,439	7,317	(122)	
Total Top 30 Projects (Gross Plan) - Other Project Inputs to Capability			8,140	3,724	884	807	785	(22)	
Total Top 30 Projects (Gross Plan) - Military Equipment Acquisition			72,852	31,846	7,126	6,631	6,532	(100)	
Other Approved Project Gross Plans - Military Equipment Acquisition			72,101	52,532	4,241	3,294	2,685	(609)	
Total Approved Projects (Gross Plan) - Military Equipment Acquisition			144,953	84,378	11,367	9,926	9,217	(709)	

Notes:

- Differences between the approved project expenditure for the same project in October Portfolio Budget Statements and the Defence Annual Report are primarily due to foreign exchange movements.
- The budget estimate 2022-23 was published in the October Portfolio Budget Statements 2022-23.
- The final plan 2022-23 is the final approved annual budget for the project, inclusive of variations for foreign exchange movements and changes to materiel acquisition agreements.
- Actual expenditure includes transactions in foreign currency applicable at the exchange rate at the time of the transaction. The budget estimate, revised estimate and final plan include foreign currency exposures converted using the budgeted exchange rates applicable to the respective budget update.
- Variation is difference between actual expenditure 2022-23 and final plan 2022-23 .
- Figures may not add due to rounding.

Web Table D.3: Top 30 acquisition projects budget status, 2022-23

Project name	Project number and phase	Project Inputs to Capability	Government Approvals at Second Pass ^{1,2} \$m	Subsequent Government Approvals - Scheduled ³ \$m	Subsequent Government Approvals - Scope Variation ⁴ \$m	Real Cost Variation ⁵ \$m	Transfer ⁶ \$m	Foreign Exchange Variation ⁷ \$m	Price Indexation ⁸ \$m	Total Approval \$m
Air Domain										
New Air Combat Capability	AIR 6000 Phase 2A/B	Military Equipment Acquisition	2,752	10,515	0	(3)	(39)	2,849	351	16,425
		Other Project Inputs to Capability	1,516	-	-	-	210	0	-	1,726
P-8A Maritime Patrol & Response Aircraft System	AIR 7000 Phase 2	Military Equipment Acquisition	3,578	1,720	(20)	(145)	(4)	496	21	5,645
		Other Project Inputs to Capability	774	-	-	-	169	-	-	943
Long Range ISREW Aircraft	AIR 555 Phase 1	Military Equipment Acquisition	2,166	-	-	(3)	46	151	-	2,360
		Other Project Inputs to Capability	560	-	-	-	(45)	0	-	514
Multi-mission Unmanned Aircraft System	AIR 7000 Phase 1B	Military Equipment Acquisition	2,071	270	-	(4)	18	48	0	2,404
		Other Project Inputs to Capability	489	-	-	143	11	0	-	643
Ground Based Air & Missile Defence Enhancement	LAND 19 Phase 7B	Military Equipment Acquisition	1,274	-	-	-	-	(42)	-	1,233
		Other Project Inputs to Capability	287	-	-	-	1	-	-	287
MQ-28A Ghost Bat	DEF 6014 Phase 2	Military Equipment Acquisition	451	-	-	-	-	3	-	454
		Other Project Inputs to Capability	3	-	-	-	-	-	-	3
Civil Military Air Traffic System (CMATS)	AIR 5431 Phase 3	Military Equipment Acquisition	731	-	-	241	34	4	-	1,010
		Other Project Inputs to Capability	391	-	-	-	57	-	-	448
Joint Air Battle Management System	AIR 6500 Phase 1	Military Equipment Acquisition	347	-	-	-	21	2	-	370
		Other Project Inputs to Capability	88	-	-	-	(19)	-	-	69
Airborne Early Warning and Control (AEWC) Capability Upgrade	AIR 5077 Phase 6	Military Equipment Acquisition	218	-	-	-	(3)	(1)	-	214
		Other Project Inputs to Capability	2	-	-	-	7	-	-	9
Lead-In Fighter Capability Assurance	AIR 5438 Phase 2	Military Equipment Acquisition	586	-	(64)	-	-	0	-	522
		Other Project Inputs to Capability	-	-	-	-	-	-	-	-
Enterprise Programs										
COMSEC Remediation	JNT 9141 Phase 1	Military Equipment Acquisition	766	-	-	-	-	(16)	-	750
		Other Project Inputs to Capability	46	-	-	-	-	(0)	-	46
Information and Cyber										
Joint Data Networks	JNT 9347 Phase 1	Military Equipment Acquisition	556	-	-	-	(0)	10	-	565
		Other Project Inputs to Capability	142	-	-	-	(1)	3	-	144
Land Domain										
Mounted Combat Reconnaissance Capability	LAND 400 Phase 2	Military Equipment Acquisition	5,763	-	-	-	-	(105)	-	5,657
		Other Project Inputs to Capability	119	-	2	-	6	0	-	128
Protected Mobile Fires	LAND 8116 Phase 1	Military Equipment Acquisition	1,288	-	-	-	-	28	-	1,316
		Other Project Inputs to Capability	42	-	-	-	-	0	-	42

Web Table D.3: Top 30 acquisition projects budget status, 2022-23

Project name	Project number and phase	Project Inputs to Capability	Government Approvals at Second Pass ^{1,2} \$m	Subsequent Government Approvals - Scheduled ³ \$m	Subsequent Government Approvals - Scope Variation ⁴ \$m	Real Cost Variation ⁵ \$m	Transfer ⁶ \$m	Foreign Exchange Variation ⁷ \$m	Price Indexation ⁸ \$m	Total Approval \$m
Tactical Training Vehicles	LAND 121 Phase 5B	Military Equipment Acquisition	1,170	-	-	-	32	(31)	0	1,170
		Other Project Inputs to Capability	226	-	-	-	4	0	-	230
Battlefield Command Systems (Tranche 2)	LAND 200 Phase 2-A	Military Equipment Acquisition	930	-	-	-	-	41	-	971
		Other Project Inputs to Capability	45	-	-	-	2	-	-	48
Main Battle Tank Upgrade, Combat Engineering Vehicles	LAND 907 Phase 2	Military Equipment Acquisition	2,066	-	-	-	-	217	-	2,283
		Other Project Inputs to Capability	40	-	-	0	(4)	0	-	36
Project Overlander - Protected Mobility Vehicle - Light	LAND 121 Phase 4	Military Equipment Acquisition	1,945	-	-	-	-	26	0	1,972
		Other Project Inputs to Capability	0	-	-	-	-	-	-	0
Additional Chinook Helicopters	LAND 4502 Phase 2	Military Equipment Acquisition	412	-	-	-	-	28	-	440
		Other Project Inputs to Capability	0	-	-	-	-	-	-	0
Joint Counter Improvised Explosive Device	LAND 154 Phase 4	Military Equipment Acquisition	797	-	0	(244)	(10)	3	-	546
		Other Project Inputs to Capability	91	-	-	(38)	3	0	-	56
Armed Reconnaissance Helicopter (ARH) Replacement	LAND 4503 Phase 1	Military Equipment Acquisition	3,875	-	-	-	-	517	-	4,393
		Other Project Inputs to Capability	584	-	-	-	-	(0)	-	584
Tactical Unmanned Aerial Vehicles Upgrade	LAND 129 Phase 3	Military Equipment Acquisition	362	-	-	-	-	10	-	371
		Other Project Inputs to Capability	77	-	-	-	(0)	-	-	76
Multi-Role Helicopter (MRH)	AIR 9000 Phase 2	Military Equipment Acquisition	957	2,566	32	(204)	(239)	(136)	680	3,655
		Other Project Inputs to Capability	24	-	-	-	-	-	-	-
Maritime Domain										
Future Frigate - Design and Construction	SEA 5000 Phase 1	Military Equipment Acquisition	6,184	-	-	-	(19)	(17)	-	6,148
		Other Project Inputs to Capability	1,836	-	(922)	(22)	119	(0)	-	1,011
Offshore Patrol Vessel	SEA 1180 Phase 1	Military Equipment Acquisition	3,639	-	-	-	0	25	-	3,664
		Other Project Inputs to Capability	952	-	-	-	32	0	-	984
Navy Guided Weapons Sub-Program	SEA 1300 Phase 1	Military Equipment Acquisition	4,256	-	-	-	1,690	318	-	6,264
		Other Project Inputs to Capability	44	-	-	-	0	-	-	44
AWD AEGIS Capability Upgrade	SEA 4000 Phase 6	Military Equipment Acquisition	963	-	-	-	(18)	(7)	-	938
		Other Project Inputs to Capability	8	-	-	-	6	-	-	14
Evolved Cape Class Patrol Boats	SEA 1445 Phase 1	Military Equipment Acquisition	345	124	-	-	-	(1)	-	469
		Other Project Inputs to Capability	-	-	-	-	-	-	-	-
Undersea Support Vessel	SEA 3033 Phase 5	Military Equipment Acquisition	150	-	-	-	(2)	13	-	161
		Other Project Inputs to Capability	-	-	-	-	2	-	-	2
Space Domain										
Protected Satellite Communications	JNT 9103 Phase 1	Military Equipment Acquisition	490	-	-	-	(2)	(6)	-	482
		Other Project Inputs to Capability	38	-	-	-	(10)	-	-	28
Total			59,512	15,196	(972)	(279)	2,053	4,430	1,052	80,992

Web Table D.3: Top 30 acquisition projects budget status, 2022-23

Project name	Project number and phase	Project Inputs to Capability	Government Approvals at Second Pass ^{1,2} \$m	Subsequent Government Approvals - Scheduled ³ \$m	Subsequent Government Approvals - Scope Variation ⁴ \$m	Real Cost Variation ⁵ \$m	Transfer ⁶ \$m	Foreign Exchange Variation ⁷ \$m	Price Indexation ⁸ \$m	Total Approval \$m
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Notes:

1. Government Approvals at Second Pass represents the initial and/or second pass approved budget amount for the project, loaded in the Defence Corporate Budget Management System.
2. Major capital equipment projects are managed in two stages: a definition stage, which is funded at first pass, and an acquisition stage, which is funded at second pass. There also may be multiple passes through Government in obtaining approvals for the various phases of a project.
3. Subsequent Government Approvals - Scheduled represents all subsequent Government Approvals since the Original and/or Second Pass Government Approval and endorsement, where these were scheduled with the Government within Defence's Integrated Investment Program.
4. Subsequent Government Approvals - Scope Variation are approved by Government to address a formal scope increase or decrease, that were not originally scheduled for the project.
5. Real Cost Variation represents an increase, or decrease in the value of a project, that is not related to changes in scope.
6. Transfer of funding from one approved project element to another to support holistic achievement of overall project scope. This would typically be within the holistic approval of a single IIP Project across different Delivery Groups. Can also include transfers to sustainment to deliver residual project scope upon closure.
7. Foreign Exchange Variation represents the impact on the project approval value caused by changes in budgeted foreign exchange rates.
8. Price Indexation represents the impact on the project approval value caused by the change in budgeted price indexation rates. This process was discontinued after the 2010-11 Portfolio Budget Statements.
9. Figures may not add due to rounding.

Web Table D.4: Major military equipment acquisition projects closed in 2022-23

Project name	Project number and phase	Project approval value \$m	Total expenditure \$m	Budget Remaining from Approval ³ \$m
Airborne Early Warning and Control Systems	AIR05077PH3	3,885	3,770	116
Future Submarine Design and Construction - Program Design and Mobilisation Stage	SEA01000PH1B	3,104	3,102	2
C-17A Globemaster III Post Combined Pass Acquisition	AIR08000PH4	1,316	1,178	138
Additional KC-30A Multi- Role Tanker Transport (MRTT)	AIR07403PH3	836	663	174
Battlespace Communications System (Land) PH2A	JNT02072PH2A	438	376	62
UHF SATCOM	JNT02008PH5A	421	385	36
Bridging Air Combat Capability – Super Hornet Weapons	AIR05349PH2	303	234	69
ANZAC Electronic Support System Improvements	SEA01448PH4A	270	220	50
Woomera Range Remediation	JNT03024PH1	254	213	41
Battlespace Communications System (Land) PH1	JNT02072PH1	261	238	23
Wideband Transportable Land Terminals	JNT02008PH5B1	207	195	12
Remediation of Land Tactical Electronic Warfare	DEF00500PH1	181	157	24
Nuka Missile Decoy Enhancements	SEA01397PH5C	176	168	8
Air Warfare Destroyer Operational Test And Evaluation	SEA4000PH3.3-A	116	83	33
Initial Common Support Infrastructure (ICSI)	JNT02089PH2A	122	113	10
Force Level Electronic Warfare	DEF00224PH3	98	91	8
Deployable Special Operations Engineering Capability	JNT03025PH1	52	42	10
Land Force Mortar Replacement Project	LND00136PH1	51	36	15
Medium Altitude Long Endurance Remotely Piloted Aircraft System	AIR07003PH1	23	14	9
Special Operations Rotary Wing Capability	LND02097PH4	6	6	0
Total—closed major projects		12,123	11,283	840

Notes:

1. Figures shown as 0 are amounts greater than \$0 but less than \$0.5m.
2. The table represents military equipment acquisition projects closed. There may be other project inputs relating to the same capability that are ongoing.
3. Includes the value of funding transferred to sustainment to deliver residual scope upon project closure.
4. Figures may not add due to rounding.

Web Table D.5: New major military equipment acquisition projects approved by Government in 2022-23

Project name	Project number and phase	Programmed estimate 2022-23 \$m	Actual expenditure 2022-23 \$m	Variation \$m	Project summary and explanation of variation
		(a)	(b)	(b-a)	
Multi-Role Helicopters (MRH) Rapid Replacement	LND04507PH1	349	174	(176)	<p>The project will deliver 40 UH-60M Black Hawk helicopters to Army, providing multi-mission aviation capabilities including air movement of troops and equipment across the battlefield, as well as search and rescue, evacuation and counter-terrorism support.</p> <p>During 2022-23, the focus was to prepare certification and support systems to enable the rapid delivery of the first three aircraft. The project also conducted a tender for an Initial Support Contract with Lockheed Martin Australia.</p> <p>The variation is due to re-baselining activities following Government approval.</p>
Enhanced Defence High Frequency Communication System (EDHFCS)	JNT09101PH1	148	146	(3)	<p>The project will enhance the Defence High Frequency Communications System including facilities upgrades at sites across Australia, replacing ageing equipment and introducing modern technology to the existing system. The enhanced capability will provide greater communications capacity, faster speeds and improved reliability. This will improve interoperability between the Defence and its coalition partners.</p> <p>During 2022-23, the focus was on activation of the acquisition and legacy software support contracts, and completion of the System Definition Review.</p> <p>The variation is due to later than planned System Definition Review, which was completed in June 2023.</p>
Advanced Growler	AIR05349PH6	51	90	39	<p>The project is a long-term developmental project, driven by the requirement to keep the Australian Growler Airborne Electronic Attack Capability common and fully interoperable with the United States Navy (USN). A key element of the project is the cooperative development of the Next Generation Jammer weapon system, and upgrades to the Mobile Threat Training Emitter System first acquired under AIR 5349 Phase 3.</p> <p>During 2022-23, the focus was getting the first of Australia's Next Generation Jammer-Mid Band pods onto contract, and contracting for upgrades to the Mobile Threat Training Emitter System.</p> <p>The variation is due to earlier than planned payments for the Next Gen Jammer pods and Mobile Threat Training Emitter System.</p>
Collins Life of Type Extension	SEA01450PH1	30	-	(30)	<p>The Collins Class Submarine Program Life of Type Extension (LOTE) project is planning to extend the life of all six Collins class submarines. Integrated with ongoing sustainment (under CN10) and select capability investments (most specifically under SEA 1439), the LOTE project will assure the Collins class remains potent and agile well into the 2040s. Collins class service life extension will commence with HMAS Farncomb from mid-2026.</p> <p>During 2022-23, the program progressed engineering design work with the completion of a System Design Review under Sustainment Product CN62. The program also signed First of Class procurement contracts for three major suppliers, for the main motor, propulsion switchboard and diesel generators.</p> <p>Government approval was received in March 2023 to transfer SEA1450 Phase 1 from the current hybrid acquisition/sustainment approach to an orthodox acquisition approach to enable Defence to better contend with risks facing the project. In June 2023, a budget transfer of \$30m occurred, reflective of 2022-23 expenditure under current sustainment management arrangements.</p>
Maritime Communications Modernisation	SEA1442PH5-G1	21	9	(12)	<p>The project is tasked with undertaking the enhancement of the Royal Australian Navy's maritime communications capability to major fleet units. The overall objective is to enable meshed internet protocol communications networking of an amphibious task group in a denied, degraded, intermittent or limited situation. The project will also deliver three training suites, at locations yet to be determined, and covering the delivered capability elements.</p> <p>During 2022-23, the focus was on the initiation of the work package for the delivery of primary and alternate satellite communications.</p> <p>The variation is due to later than planned completion of risk reduction activities, which have now been finalised.</p>
Bulk Fuel Distribution	JNT08190PH1	19	20	1	<p>JP 8190 Phase 1 Land Systems Bulk Fuel Distribution Military Equipment Acquisition DFG to provide DFG to provide 19 DFG to provide 20 1 The project will provide the ADF with a modern, scalable, integrated and sustainable bulk fuel distribution capability. The capability will allow for distribution, storage and delivery of bulk amounts of fuel, in order to support a deployed force and Humanitarian Assistance and Disaster Relief (HADR) operations.</p> <p>During 2022-23, The acquisition and support contracts were both signed. The project focus was maturing the system design in preparation for production.</p> <p>The variation is due to higher than planned escalation costs.</p>

Web Table D.5: New major military equipment acquisition projects approved by Government in 2022-23

Project name	Project number and phase	Programmed estimate 2022-23 \$m	Actual expenditure 2022-23 \$m	Variation \$m	Project summary and explanation of variation
		(a)	(b)	(b-a)	
JORN Enhancement	AIR02025PH8	12	3	(9)	<p>The project represents a significant JORN capability enhancement, that will be delivered by maturing and operationalising two Defence Science and Technology Group developed High Frequency technologies.</p> <p>During 2022-23, the project commenced the execution of the delivery contract. The project team was established and commenced procurement of long lead time items.</p> <p>The variation is due to commencing later than planned.</p>
Long Range Fires	LND08113PH1	5	5	0	<p>The project will provide the ADF with a land based, long range multi-domain strike capability and contribute significantly to the ADF's strategy of denial by providing anti-access/area denial capabilities. Long Range Fires is a new capability for the ADF that will consist of launchers, munitions, and support systems.</p> <p>During 2022-23, the project achieved Government Second Pass approval and entered into a Foreign Military Sales case with the US Government.</p>
New Air Combat Capability Enablers	AIR06000PH2C	5	-	(5)	<p>The project is to provide sovereign maintenance and support elements to ensure the F-35 capability remains lethal, survivable, deployable and available throughout its life of type.</p> <p>During 2022-23, the focus was to obtain government approval and mature design of the aircraft coating facility.</p> <p>The variation is due to delayed payments for initial design of the aircraft coating facility.</p>
P-8A Poseidon Capability Assurance Program	AIR07000PH2C	5	3	(2)	<p>The project is supplying a Capability Assurance Program - Increment 3 Upgrade - to P-8A Poseidon capability (aircraft, mission support, training systems & Australian network integration)</p> <p>During 2022-23, the focus was on maturing project documentation for Gate 2 approval, which was achieved in April 2023.</p> <p>The variation is due to revised phasing of early project planned activities with ICT integration, which have moved to 2023-24.</p>
Aviation & Field Fire Truck Capability	LND08180PH1	1	1	(0)	<p>The project will deliver a suite of dedicated, purpose built Rescue and Firefighting vehicles that provide domestic emergency response to airfield incidents, limited combat rescue tasks, and wildfire suppression resulting from weapons testing or severe environmental conditions.</p> <p>During 2022-23, the project completed Aviation Fire Vehicle contract negotiations, contract signature, and Preliminary Design Review.</p>
Total—new major projects		648	451	(196)	

Notes:

1. Figures shown as 0 are amounts greater than \$0 but less than \$0.5m.
2. New projects are reported when second pass approval is awarded, but not subsequent second pass approvals.
3. Figures may not add due to rounding.

Web Table D.6: Performance of Capital Facilities Projects, 2022-23

Status key			
Met - All targets were met or executed.			
Substantially met - Targets were mostly met and any issues were being managed.			
Partially met - Some targets were met and any issues were being managed.			
Not met - No or minimal progress was made against targets.			
Project	State/Territory and Electorate	Status	2022-23 Achievements
New Air Combat Capability Facilities Project (AIR 6000 Phase 2A/B)	Various	Met	This project provided new and upgraded facilities and infrastructure to support the introduction of the Joint Strike Fighter at RAAF Base Williamtown NSW and RAAF Base Tindal NT with support facilities and infrastructure at Defence Establishment Myambat NSW. The works are complete and the project is now in the Defects Liability Period.
Enhanced Land Force (ELF) Stage 2	Various	Met	This project provided purpose-built facilities and supporting infrastructure to support Enhanced Land Force capabilities. This included the construction of new and refurbished accommodation, common use and training facilities, and site infrastructure upgrades. The works are complete with the exception of an underpass at the Caltana Training Area SA which is scheduled for completion in late 2024 having previously reported mid 2023.
RAAF Base Tindal Redevelopment Stage 6 and United States Force Posture Initiative Airfield Works and Associated Infrastructure	NT - Lingiari	Met	This program is delivering a range of enhanced facilities and infrastructure, including airfield improvements, at RAAF Base Tindal, NT. Government approved a Real Cost Increase in September 2022 due to construction industry pressures associated with material and labour costs. This program of works commenced construction in late 2020 and is scheduled for completion in late-2027.
Navy Capability Infrastructure Sub-program: Offshore Patrol Vessel (OPV) Facilities (SEA 1180 Phase 1)	Various	Met	This project is providing berthing, training, maintenance, logistics, and support facilities to support the introduction into service of the Arafura class OPVs at HMAS Coonawarra and RAAF Base Darwin in the NT, HMAS Cairns in QLD and HMAS Stirling and Henderson Maritime Precinct in WA. This project commenced construction in mid 2021 and is scheduled for completion in late-2026.
Navy Capability Infrastructure Sub-program: Hunter Class Frigate Program Facilities (SEA 5000 Phase 1)	Various	Met	This project is providing upgraded facilities and infrastructure to support the introduction of the new Hunter Class Frigates to replace the current Anzac class frigates at HMAS Watson and the Garden Island Defence Precinct in NSW, St Kilda and Osborne Naval Shipyards in SA, and HMAS Stirling and Henderson Maritime Precinct in WA. This project commenced construction in mid 2021 and is scheduled for completion in mid-2027.
Maritime Patrol Aircraft Replacement (AIR 7000 Phase 2B)	Various	Met	This project is providing new and upgraded facilities and infrastructure to support the introduction of P-8A aircraft at RAAF Base Edinburgh in SA, RAAF Base Townsville in QLD, RAAF Base Pearce in WA, RAAF Base Darwin in NT and HMAS Stirling in WA. This project commenced construction in late 2019 and scheduled for completion at each base up to early-2026.
USFPI Northern Territory Training Areas and Ranges Upgrades	NT - Lingiari	Met	This project is providing upgraded range facilities and associated infrastructure at the Bradshaw Field, Kangaroo Flats, Mount Bundy and Robertson Barracks Close training areas in the NT. This includes range control, training camp accommodation, small arms, ranges, roads, and supporting facilities and infrastructure. This project commenced construction in early 2022 and is scheduled for completion in mid-2026.
Larrakeyah Defence Precinct Redevelopment Program	NT - Solomon	Met	This program is upgrading critical base infrastructure, improving the working environment, delivering new facilities, and supporting future growth on the Larrakeyah Defence Precinct NT. This program is also delivering a new wharf, fuel storage and refuelling capabilities to support Navy's major surface combatant ships operating in the north of Australia. This program commenced construction in late 2018 and is scheduled for completion in late-2023.
HMAS Cerberus Redevelopment	VIC - Flinders	Met	This project upgraded engineering services, refurbished living-in-accommodation, constructed a new logistics precinct, upgraded the gym, refurbished training facilities and galley, and demolished redundant buildings at HMAS Cerberus VIC. This project commenced construction in early 2018. The works are complete and the project is now in the Defects Liability Period.
HMAS Watson Redevelopment	NSW - Wentworth	Met	This project is addressing functionality deficiencies, capacity constraints, and non-compliances with facilities and infrastructure at HMAS Watson, Sydney, NSW. This project commenced construction in early 2020 and is scheduled for completion in early 2027.
Battlefield Airlifter Facilities (AIR 8000 Phase 2)	QLD - Blair	Met	This project provided facilities at RAAF Base Amberley QLD to accommodate and support the operation of the new C-27J Battlefield Airlifter aircraft. This project commenced construction in mid-2016. The works are complete and the project is now in the Defects Liability Period.
HMAS Stirling Redevelopment Stage 3A	WA - Brand	Met	This project upgraded and refurbished infrastructure and facilities at HMAS Stirling WA. This project commenced construction in mid-2017. The works are complete and the project is now in the Defects Liability Period.
AIR 555 Phase 1 Airborne Intelligence Surveillance Reconnaissance Electronic Warfare Capability Facilities Works	Various	Met	This project is providing facilities and infrastructure to support the introduction into service of the MC-55A Peregrine Airborne Intelligence Surveillance Reconnaissance Electronic Warfare capability at RAAF Base Edinburgh, SA, RAAF Base Darwin, NT, RAAF Base Townsville, QLD and Cocos (Keeling) Islands. This project commenced construction in late-2020 and is scheduled for completion in mid-2024.
Garden Island (East) Critical Infrastructure Recovery Program (CIRP) Stage 2	NSW - Sydney	Met	This project is providing upgraded wharves and engineering services to address condition, capacity and compliance issues at the Garden Island Defence Precinct, Sydney, NSW. This project commenced construction in mid-2019 and is scheduled for completion in late-2023.
Facilities to Support LAND 19 Phase 7B Short Range Ground Based Air Defence	SA - Spence	Met	This project is providing new working accommodation, operational support, storage, training and living-in-accommodation facilities to support new air defence capability at RAAF Base Edinburgh SA. This project commenced construction in mid-2023 and is scheduled for completion in late 2024.
Garden Island (East) Critical Infrastructure Recovery Program (CIRP) Stage 1	NSW - Sydney	Met	This project is addressing critical structural, condition and engineering services issues and risks on the Cruiser and Oil wharves at the Garden Island Defence Precinct, Sydney, NSW. This project commenced construction in 2018. The works are complete and the project is in the Defects Liability Period.
Joint Health Command Garrison Facilities Upgrades	Various	Met	This project is providing, contemporary Garrison Health Facilities at 14 bases around Australia. This project commenced construction in late 2018. The majority of the works are complete except for those at RAAF Base Darwin NT, which are scheduled for completion in mid-2024.
Armoured Fighting Vehicles Facilities Program Stage 1	Various	Met	Stage 1 of this program is providing facilities and infrastructure to support, sustain, and train Army personnel on the next generation of Armoured Fighting Vehicles capability at Lavarack Barracks QLD, Edinburgh Defence Precinct SA and the Puckapunyal Military Area VIC. This project commenced construction in late 2021 and is scheduled for completion in late 2023.
Point Wilson Waterside Infrastructure Remediation Project	VIC - Corio	Met	This project remediated waterside infrastructure at Point Wilson VIC to enable the recommencement of bulk Explosive Ordnance importation operations. This included refurbishing the existing jetty, and providing a new wharf, amenities building, landside infrastructure and engineering services. This project commenced construction in 2020. The works are complete and the project is now in the Defects Liability Period.
Navy Capability Infrastructure Sub-program: Maritime Operational Support Capability Facilities (SEA 1654 Phase 3)	Various	Met	This project is providing new and upgraded facilities and infrastructure to support the introduction of the Supply Class replenishment ships at HMAS Stirling WA, and Randwick Barracks and the Garden Island Defence Precinct NSW. This project commenced construction in 2018 and is scheduled for completion in early 2024.
Land 121 Phase 5B Facilities Project	Various	Met	This project is providing facilities and infrastructure to support and sustain vehicles, modules and trailers at various bases around Australia. This project commenced construction in mid-2021 and is scheduled for completion in early-2024.
Airfield Capital Works P0008 (RAAF Williamtown)	NSW - Paterson	Substantially Met	This project is maintaining aircraft pavements, aeronautical ground lighting and airfield drainage, and delivering associated airfield upgrade works at RAAF Base Williamtown, NSW. This project commenced construction in early 2022 and is scheduled for completion in early 2024 having previously reported late 2023.
Shoalwater Bay Training Area Remediation Project	QLD - Capricornia	Met	This project redeveloped the Shoalwater Bay Training Area QLD to support the introduction of amphibious capability, and ensure sustainability into the future through airfield, road and creek crossing upgrades, and new camp, field hospital infrastructure, and training facilities. This project commenced construction in 2020. The works are complete and the project is now in the Defects Liability Period.
DEF101 Data Centre Upgrade	ACT - Bean	Substantially Met	This project is providing infrastructure to support and ensure ongoing communications capability at HMAS Harman ACT through the expansion and fit out of existing facilities. This project commenced construction in mid-2020 and is scheduled for completion in early 2024 having previously reported mid-2023.

Project	State/Territory and Electorate	Status	2022-23 Achievements
Airfield Capital Works P0006 (Curtin, Tindal and Townsville)	Various	Met	This project is maintaining aircraft pavements and airfield lighting at RAAF Base Curtin WA, RAAF Base Tindal NT and RAAF Base Townsville QLD. The works at Curtin and Tindal are complete while the works at Townsville have been reprogrammed to align with similar works being delivered under a related project to minimise disruption to airfield operations. This project commenced construction in early 2016 and is scheduled for completion in early 2026.
North Queensland Mid-Term Refresh Program: RAAF Townsville Mid-Term Refresh Project	QLD - Herbert	Substantially Met	This project is upgrading engineering services including potable water and power, refurbish working accommodation, and provide additional transit living-in accommodation at RAAF Townsville QLD. This project commenced construction in mid-2023, having previously reported early 2023, and is scheduled for completion in early-2025.
AIR 2025 Phase 6 Jindalee Operational Radar Networks (JORN) Facilities Project	Various	Substantially Met	This project is providing new facilities and infrastructure to support the mid-life upgrade of JORN capability at Mount Everard and Harts Range near Alice Springs NT, Murray Bridge Training Area SA and RAAF Learmonth and Kojarena WA. This project commenced construction in mid-2019 and is scheduled for completion in early 2024 having previously reported early to mid-2023.
Facilities to Support SEA 2273 Fleet Information Environment Modernisation Project	Various	Substantially Met	This project is providing an upgraded information system that supports maritime and naval operations at HMAS Kuttabul NSW, HMAS Cerberus VIC, HMAS Stirling WA, HMAS Coonawarra NT and HMAS Cairns QLD. This project is scheduled for completion in early-2024 having previously reported late 2023.
Anglesea Paterson Project	Various	Met	This project is upgrading engineering services and refurbishing buildings at Anglesea Barracks and Youngtown Depot TAS, and will construct new facilities in North Launceston TAS. This project is scheduled for completion in mid-2024.
LAND 4502 Phase 1 Additional CH-47F Chinook Facilities	QLD - Herbert	Met	This project is providing new facilities for 5 Aviation Regiment at RAAF Base Townsville QLD to support the introduction and sustainment of new CH-47F Chinook Medium Lift Helicopters. This project commenced construction in mid-2019 and is scheduled for completion in early-2024.
Puckapunyal Mid-Term Refresh	VIC - Nicholls	Substantially Met	This project is addressing condition, capacity and compliance issues with existing infrastructure at the Puckapunyal Military Area VIC including remediating and upgrading engineering services and constructing a new storage facility. This project commenced construction in mid-2021 and is scheduled for completion in late 2023 having previously reported early to mid-2023.
Puckapunyal Health and Wellbeing Centre	VIC - Nicholls	Met	This project is providing a new health and wellbeing centre at the Puckapunyal Military Area VIC. This project commenced construction in mid-2021. The works are complete and this project is now in the Defects Liability Period.
SEA 1397 Phase 5D Nulka Assembly and Maintenance Facilities Project	NSW - Lindsay	Met	This project constructed a new purpose-built facilities at Defence Establishment Orchard Hills NSW to assemble, maintain, test and store decoy capability. This project commenced construction in late 2020. The works are complete and the project is now in the Defects Liability Period.
Oakey Mid-Term Refresh	QLD - Groom	Met	This project upgraded engineering services and demolished redundant buildings at Swartz Barracks QLD. This project commenced construction in mid-2021. The works are complete and the project is now in the Defects Liability Period.
Holsworthy Mid-Term Refresh	NSW - Hughes	Met	This project addressed power supply reliability issues, serviceability of high voltage infrastructure, and serviceability of training living-in-accommodation at Holsworthy Barracks NSW. This project commenced construction in early 2021. The works are complete and the project is now in the Defects Liability Period.
LAND 555 Phase 6 Force Level Electronic Warfare, Signals Intelligence and Vehicles	QLD - Groom	Met	This project provided vehicle storage, extending a workshop and remediating vacated facilities to accept training modules at Boneo Barracks QLD to support deployable electronic warfare capabilities. This project commenced construction in mid 2020. The works are complete and the project is now in the Defects Liability Period.
HMAS Waterhen Mid-Term Refresh	NSW - Northern Sydney	Met	This project addressed condition, capacity and compliance issues with existing facilities and infrastructure at HMAS Waterhen NSW including shore power, mechanical services, working accommodation, security and access. This project commenced construction in early 2022. The works are complete and the project is now in the Defects Liability Period.
North Queensland Mid-Term Refresh Program: Townsville Field Training Area Mid-Term Refresh Project	QLD - Kennedy	Substantially Met	This project is upgrading engineering services including power, sewerage, stormwater and ICT, and constructing a new entry point at the Townsville Field Training Area QLD. This project commenced construction in mid-2023, having previously reported early-2023, and is scheduled for completion in mid-2024.
LAND 2110 Phase 1B - Chemical, Biological, Radiological and Nuclear Defence (CBRND) Facilities	Various	Substantially Met	This project is providing new and refurbished facilities, including training and storage facilities, at 14 bases around Australia. This project commenced construction in early 2021 and is scheduled for completion in late 2023 having previously reported early 2023.
North Queensland Mid-Term Refresh Program: HMAS Cairns Mid-Term Refresh Project	QLD - Leichardt	Substantially Met	This project is upgrading engineering services including firefighting systems, potable water, sewerage and stormwater, and delivering minor building refurbishment works at HMAS Cairns QLD. This project commenced construction in mid-2023 and is scheduled for completion in late-2024.
Space Domain Awareness Project Mirror Recoating Facility	WA - Durack	Substantially Met	This project is constructing a Mirror Recoating Facility to recoat Space Surveillance Telescope mirrors at Harold E Holt WA. This project commenced construction in mid-2022 and is scheduled for completion in 2023 having previously reported early to mid-2023.
2nd Combat Engineer Regiment Compensatory Hardstand Project	QLD - Ryan	Substantially Met	This project is providing an appropriate hardstand area for the 2nd Combat Engineer Regiment at Gallipoli Barracks, QLD. This project commenced construction in mid-2022 and is scheduled for completion in mid-2023 having previously reported early to mid-2023.

Web table D.7: Major Defence establishments and bases

Establishment and base	Federal electorate	Location
Australian Capital Territory (and Jervis Bay Territory)		
Anzac Park West	Canberra	Parkes
Australian Defence College	Bean	Weston
Australian Defence Force Academy (ADFA)	Canberra	Canberra
Beecroft Training Range	Fenner	Jervis Bay Territory
Brindabella Park	Canberra	Canberra Airport
Campbell Park Offices	Canberra	Campbell
Defence Establishment Fairbairn	Canberra	Canberra Airport
HMAS Creswell	Fenner	Jervis Bay Territory
HMAS Harman	Bean	Canberra
Majura Training Area	Canberra	Canberra
Royal Military College	Canberra	Duntroon
Russell Offices	Canberra	Russell
New South Wales		
Blamey Barracks	Riverina	Kapooka
Defence Establishment Orchard Hills	Lindsay	Orchard Hills
Defence Plaza Sydney	Sydney	Sydney
Garden Island Defence Precinct	Sydney	Sydney
General John Baker Complex	Eden–Monaro	Bungendore
HMAS Albatross	Gilmore	Nowra
HMAS Penguin	Warringah	Balmoral
HMAS Waterhen	North Sydney	Balmoral
HMAS Watson	Wentworth	Watsons Bay
Holsworthy Training Area	Hughes	Liverpool
Kapooka Training Area (KTA)	Riverina	Wagga Wagga
Liverpool Military Area	Hughes	Liverpool
Lone Pine Barracks	Hunter	Singleton
Marrangaroo Training Area (MARRTA)	Calare	Marrangaroo
RAAF Base Glenbrook	Macquarie	Glenbrook
RAAF Base Richmond	Macquarie	Richmond
RAAF Base Wagga	Riverina	Wagga Wagga
RAAF Base Williamstown	Paterson	Williamstown
Randwick Barracks	Kingsford Smith	Randwick
Singleton Training Area (STA)	Hunter	Singleton
Victoria Barracks, Sydney	Wentworth	Paddington
Northern Territory		
Bradshaw Field Training Area	Lingiari	Katherine
Defence Establishment Berrimah	Solomon	Coonawarra
Delamere Range Facility	Lingiari	Delamere
Joint Defence Facility - Pine Gap	Lingiari	Alice Springs
Kangaroo Flat Training Area	Solomon	Winnellie
Larrakeyah Defence Precinct	Solomon	Larrakeyah
Marksmanship Training Range (MTR) Range Control	Lingiari	Holtze
Mount Bunday Training Area	Lingiari	Darwin
RAAF Base Darwin	Solomon	Winnellie
RAAF Base Tindal	Lingiari	Katherine
Robertson Barracks	Lingiari	Holtze
Robertson Barracks Close Training Area	Lingiari	Holtze
Shoal Bay Receiving Station	Lingiari	Berrimah

Establishment and base	Federal electorate	Location
Queensland		
Atherton Rifle Range (ARR)	Kennedy	Atherton
Borneo Barracks	Groom	Cabarlah
Cabarlah Rifle Range (CAB)	Groom	Cabarlah
Canungra Field Training Area (CTA)	Wright	Canungra
Cowley Beach Training Area (CBTA)	Kennedy	Cowley Beach
Damascus Barracks, Meeandah	Lilley	Pinkenba
Enoggera Close Training Area (EBTA)	Ryan	Enoggera
Gallipoli Barracks	Ryan	Enoggera
Greenbank Training Area (GBTA)	Wright	Greenbank
Halifax Bay Training Area (HBTA)	Kennedy	Halifax
HMAS Cairns	Leichhardt	Portsmith
HMAS Moreton	Griffith	Bulimba
Kokoda Barracks	Wright	Canungra
Komiatum Barracks	Dawson	Mackay
Lavarack Barracks	Herbert	Townsville
Lavarack Close Training Area (LCTA)	Herbert	Townsville
Macrossan Training Area (MTA)	Kennedy	Charters Towers
Mount Isa Rifle Range (MIRR)	Kennedy	Edmonton
Mount Stuart Training Area (MSTA)	Herbert	Townsville
New Defence Training Area, Greenvale	Kennedy	Greenvale
DSTG Pin Gill Hill - Innisfail	Kennedy	Innisfail
Porton Barracks	Kennedy	Edmonton
Purga Rifle Range (PUR)	Blair	Purga
RAAF Base Amberley	Blair	Amberley
RAAF Base Scherger	Leichhardt	Weipa
RAAF Base Townsville	Herbert	Townsville
Ross Island Barracks	Herbert	Townsville
Sarpeye Barracks Thursday Island	Leichhardt	Thursday Island
Shoalwater Bay Training Area (SWBTA)	Capricornia	Rockhampton
Staging & Support Rockhampton (Woolcock Barracks)	Capricornia	Rockhampton
Swartz Barracks (Army Aviation Centre Oakey)	Groom	Oakey
Townsville Field Training Area (TFTA)	Kennedy	Charters Towers
Tully Training Area (TTA)	Kennedy	Tully
Victoria Barracks	Brisbane	Brisbane
Wangetti Rifle Range (WRR)	Leichhardt	Wangetti
Wide Bay Training Area	Wide Bay	Wide Bay
South Australia		
Cultana Training Area (CUTA)	Grey	Port Augusta
Edinburgh Defence Precinct	Spence	Edinburgh
Hampstead Barracks	Adelaide	Greenacres
Keswick Barracks	Adelaide	Keswick
Murray Bridge Training Area (MUTA)	Barker	Murray Bridge
Proof and Experimental Establishment Port Wakefield	Grey	Port Wakefield
RAAF Woomera Range Complex	Grey	Woomera
Warradale Barracks	Boothby	Oaklands Park
Woodside Barracks	Mayo	Woodside

Establishment and base	Federal electorate	Location
Tasmania		
ADF Cadets	Bass	Launceston/Georgetown
Anglesea Barracks	Clark	Hobart
Australian Defence Cadet Facilities	Lyons	Bridgewater
Buckland Military Training Area	Lyons	Buckland
Burnie Depot (Wivenhoe)	Braddon	Burnie
Defence Science and Technology Group (DSTG) Scottsdale	Bass	Scottsdale
Derwent Barracks	Clark	Dowsing Point
Devonport Depot (Kokoda Barracks)	Braddon	Devonport
Fort Direction	Franklin	South Arm
Navy Cadet Training Ships (TS)	Clark	Hobart
Paterson Barracks	Bass	Launceston
Stony Head Military Training Area	Bass	Launceston
Warrane Depot	Franklin	Warrane
Youngtown Depot	Bass	Youngtown
Victoria		
AGO Bendigo Logistics Support Facility	Bendigo	Bendigo
Albury Wodonga Military Area	Indi	Albury / Wodonga
Benalla Munitions Facility	Indi	Benalla
Defence Plaza Melbourne	Melbourne	Melbourne
Fishermans Bend and Remote Sites	Macnamara	Fishermans Bend
HMAS Cerberus	Flinders	Crib Point
Monegeetta Proving Ground	McEwen	Melbourne
Proof and Experimental Establishment Graytown	Nicholls	Graytown
Puckapunyal Military Area	Nicholls	Seymour
Puckapunyal Training Area	Nicholls	Seymour
RAAF Base East Sale	Gippsland	East Sale
RAAF Base Williams (Laverton)	Gellibrand	Laverton
RAAF Base Point Cook	Lalor	Point Cook
Simpson Barracks	Jagajaga	Macleod
Victoria Barracks Melbourne	Macnamara	Southbank

Establishment and base	Federal electorate	Location
Western Australia		
Australian Defence Satellite Communications Station	Durack	Kojarena
Bindoon Training Area	Durack	Bullsbrook
Broome Rifle Range (BRR)	Durack	Broome
Campbell Barracks	Curtin	Swanbourne
Coolilup Rifle Range (CLRR)	Forrest	Capel / Busselton
Dampier Rifle Range (DRR)	Durack	Dampier / Karratha
Henderson Maritime Precinct	Fremantle	Fremantle
HMAS Stirling	Brand	Garden Island
Irwin Barracks	Curtin	Karrakatta
Lancelin Training Area	Durack	Bullsbrook
Leeuwin Barracks	Fremantle	Fremantle East
Muchea Training Area	Durack	Bullsbrook
Naval Communications Station, Harold E Holt	Durack	Exmouth
Northam Training Area (NTA)	Durack	Northam
Northam Training Camp	Durack	Northam
Palmer Barracks	Hasluck	Perth
RAAF Base Curtin	Durack	Derby
RAAF Base Learmonth	Durack	Learmonth
RAAF Base Pearce	Durack	Bullsbrook
RAAF Gingin	Durack	Gingin
Taylor Barracks	Durack	Karratha
Yampi Sound Training Area	Durack	Yampi Sound

Web Table D.8: Status of Capital Facilities Projects for that were Forecast for Consideration and Approval by the Parliamentary Standing Committee on Public Works (PWC) in 2022-23

Project	State/Territory and Electorate	PWC Referral Date[1]	PWC Hearing Date[1&2]	Parliamentary Approval Date[1]
Major projects that were foreshadowed for consideration and approval in 2022-23				
AIR 7000 Phase 1B Remotely Piloted Aircraft System Facilities Project	Multiple	03-Aug-22	19-Sep-22	09-Nov-22
HMAS Harman Redevelopment Project	ACT - Bean	27-Sep-22	03-Nov-22	01-Dec-22
Robertson Barracks Base Improvements Project	NT - Lingiari	27-Sep-22	03-Nov-22	01-Dec-22
Cultana Training Area Redevelopment Stage 2	SA - Grey	24-Nov-22	10-Feb-23	09-Mar-23
Cocos (Keeling) Island Runway Upgrade and Refurbishment	NT - Lingiari	24-Nov-22	03-Mar-23	29-Mar-23
Defence Fuels Transformation Program - Tranche 2 Facilities Project	Multiple	12-Sep-23	Late 2023	Late 2023
Facilities to Support JP 9101 Enhanced Defence High Frequency Communications System	Multiple	20-Jun-23	21-Jul-23	08-Aug-23
Fishermans Bend Redevelopment	VIC - Macnamara	20-Jun-23	16-Aug-23	12-Sep-23
Edinburgh Defence Precinct Mid-Term Refresh	SA - Spence	03-Aug-23	04-Oct-23	Late 2023
AIR5349 Phase 6 Facilities to Support Advanced Growler	Multiple	Late 2023	Early 2024	Early 2024
Explosive Ordnance Facilities Northern New South Wales Redevelopment	NSW - Lindsay	Early 2024	Early 2024	Mid 2024
Project	State/Territory and Electorate	Date of PWC Notification Approval[1]		
Medium projects that were foreshadowed for consideration and approval in 2022-23				
RAAF Amberley Sewerage Treatment Plant	QLD - Blair	08-Sep-22		
Facilities for A Company 41st Royal New South Wales Regiment Tweed Heads Region	NSW - Tweed	15-Sep-22		
Facilities for LAND3025 Phase 2 Deployable Special Operations Engineer Regiment	NSW - Hughes	27-Oct-22		
Facilities to Support Land129PH3 Tactical Unmanned Aerial Vehicle	QLD - Ryan	27-Oct-22		
Facilities to Support Lethality Weapons Systems	Multiple	01-Dec-22		
Facilities to Support LAND8116 Phase 1 Protected Mobile Fires	Multiple	01-Dec-22		
HMAS Creswell Mid Term Refresh	ACT - Fenner	23-Mar-23		
Relocation of Units from Elizabeth North Training Depot	SA - Spence	15-Jun-23		
Facilities to Support JP8190 Deployable Bulk Fuel Distribution	Multiple	15-Jun-23		
LAND8180 Phase 1 Aviation and Field Fire Truck capability	Multiple	Early 2024		

Notes:

1. Actual dates are shown in full. Forecast dates are shown as "Early", "Mid", or "Late".
2. Hearing dates are subject to PWC consideration and agreement.

Web Table D.9: Approved Facilities and Infrastructure Projects, Expenditure by State/Territory and Federal Electorate

Project	State/Territory, and Federal Electorate	Total Estimated Expenditure \$m ⁽¹⁾⁽⁴⁾	Cumulative Expenditure to 30 June 2022 \$m ⁽¹⁾⁽⁴⁾	2022-23 Budget Estimate \$m ⁽¹⁾⁽⁴⁾	2022-23 Revised Estimate \$m ⁽¹⁾⁽⁴⁾	2022-23 Actual Expenditure \$m ⁽¹⁾⁽⁴⁾
New Air Combat Capability Facilities Project (AIR 6000 Phase 2A/B)⁽²⁾						
RAAF Williamtown	NSW - Paterson	-	904.3	0.1	0.1	0.5
RAAF Tindal	NT - Lingiari	-	521.0	1.9	1.9	7.8
Defence Establishment Myambat	NSW - Hunter	-	8.5	-	-	-
Total		1485.8	1,433.8	2.0	2.0	8.3
Enhanced Land Force (ELF) Stage 2⁽²⁾						
Lone Pine Barracks	NSW - Hunter	-	115.8	-	-	-
Puckapunyal Training Area	VIC - Nicholls	-	11.7	-	-	-
Simpson Barracks, Watsonia	VIC - Jagajaga	-	20.2	-	-	-
RAAF Amberley	QLD - Blair	-	9.6	-	-	-
Lavarack Barracks, Townsville	QLD - Herbert	-	62.0	-	-	-
Townsville Training Area	QLD - Kennedy	-	3.9	-	-	-
Greenbank Training Area	QLD - Wright	-	120.7	-	-	-
Gallipoli Barracks, Enoggera	QLD - Ryan	-	828.9	-	-	-
Wide Bay Training Area	QLD - Wide Bay	-	78.3	-	-	-
Kokoda Barracks, Canungra	QLD - Wright	-	71.8	-	-	-
Cultana Training Area	SA - Grey	-	69.1	16.6	1.7	-
RAAF Edinburgh	SA - Spence	-	34.7	-	-	-
Majura Field Training Area	ACT - Canberra	-	13.4	-	-	-
RMC Canberra	ACT - Canberra	-	9.0	-	-	-
Mount Stuart	QLD - Kennedy	-	4.1	-	-	-
Total		1,476.0	1,453.2	16.6	1.7	0.0
RAAF Base Tindal Redevelopment Stage 6 and United States Force Posture Initiative Airfield Works and Associated Infrastructure						
RAAF Tindal	NT - Lingiari	1,582.0	267.8	176.8	186.8	292.5
Navy Capability Infrastructure Sub-program: Offshore Patrol Vessel (OPV) Facilities (SEA 1180 Phase 1)⁽²⁾						
HMAS Coonawarra	NT - Solomon	-	18.1	60.2	60.2	39.1
RAAF Darwin	NT - Solomon	-	5.0	3.7	3.7	2.5
HMAS Cairns	QLD - Leichhardt	-	9.4	61.1	61.1	7.6
HMAS Stirling	WA - Brand	-	53.5	76.6	76.6	112.5
Henderson Maritime Precinct	WA - Fremantle	-	25.8	17.2	17.2	25.8
Total		918.5	111.8	218.8	218.8	187.5
Navy Capability Infrastructure Sub-program: Hunter Class Frigate Program Facilities (SEA 5000 Phase 1)⁽²⁾						
HMAS Watson	NSW - Wentworth	-	-	-	-	-
Garden Island Defence Precinct	NSW - Sydney	-	-	-	-	-
St Kilda	SA - Spence	-	75.4	32.4	32.4	19.4
Osborne Naval Shipyard	SA - Hindmarsh	-	9.2	44.5	44.5	15.0
HMAS Stirling	WA - Brand	-	95.1	95.0	95.0	117.6
Henderson Maritime Precinct	WA - Fremantle	-	21.6	48.0	48.0	71.0
Total		915.5	201.3	219.9	219.9	223.0
Maritime Patrol Aircraft Replacement (AIR 7000 Phase 2B)⁽²⁾						
RAAF Edinburgh	SA - Spence	-	508.1	6.7	6.7	2.3
RAAF Darwin	NT - Solomon	-	151.2	19.2	19.2	7.4
RAAF Townsville	QLD - Herbert	-	0.2	12.0	12.0	0.1
RAAF Pearce	WA - Pearce	-	62.4	19.7	31.6	41.8
HMAS Stirling	WA - Brand	-	4.6	-	-	-
Total		896.9	726.5	57.6	69.5	51.7
USFPI Northern Territory Training Areas and Ranges Upgrades						
Bradshaw Field Training Area	NT - Lingiari	-	21.8	55.3	55.3	79.9
Kangaroo Flats Training Area	NT - Lingiari	-	5.2	16.5	16.5	12.3
Mount Bundey Training Area	NT - Lingiari	-	4.1	-	-	4.3
Robertson Barracks Close Training Area	NT - Lingiari	-	12.1	45.3	45.3	47.6
Total		747.0	43.1	117.1	117.1	144.1
Larrakeyah Defence Precinct Redevelopment Program						
Larrakeyah Defence Precinct	NT - Solomon	601.7	343.3	60.1	60.1	86.4
HMAS Cerberus Redevelopment						
HMAS Cerberus	VIC - Flinders	465.6	422.9	41.3	41.3	33.6
HMAS Watson Redevelopment						
HMAS Watson	NSW - Wentworth	430.5	131.6	51.8	51.8	65.5
Battlefield Airlifter Facilities (AIR 8000 Phase 2)						
RAAF Amberley	QLD - Blair	370.4	366.3	1.1	1.1	0.6
HMAS Stirling Redevelopment Stage 3A						
HMAS Stirling, Rockingham	WA - Brand	366.8	352.1	0.0	0.0	3.9
AIR555 Phase 1 Airborne Intelligence Surveillance Reconnaissance Electronic Warfare Capability Facilities Works⁽²⁾						
Territory of Cocos (Keeling) Islands	NT - Lingiari	-	0.5	7.0	7.0	3.5
RAAF Darwin	NT - Solomon	-	1.0	-	-	0.1
RAAF Townsville	QLD - Herbert	-	0.4	5.7	5.7	3.3
RAAF Edinburgh	SA - Spence	-	87.7	92.5	99.2	76.9
Total		293.7	89.6	105.2	111.9	83.8
Garden Island (East) Critical Infrastructure Recovery Program (CIRP) Stage 2						
Garden Island Defence Precinct	NSW - Wentworth	286.5	227.1	41.8	41.8	36.4
Facilities to Support LAND19 Phase 7B Short Range Ground Based Air Defence						
RAAF Edinburgh	SA - Spence	266.1	0.0	15.5	15.5	9.3
Garden Island (East) Critical Infrastructure Recovery Program (CIRP) Stage 1						
Garden Island Defence Precinct	NSW - Sydney	263.3	244.1	0.0	10.7	8.5

Project	State/Territory, and Federal Electorate	Total Estimated Expenditure \$m ⁽¹⁾⁽⁴⁾	Cumulative Expenditure to 30 June 2022 \$m ⁽¹⁾⁽⁴⁾	2022-23 Budget Estimate \$m ⁽¹⁾⁽⁴⁾	2022-23 Revised Estimate \$m ⁽¹⁾⁽⁴⁾	2022-23 Actual Expenditure \$m ⁽¹⁾⁽⁴⁾
Joint Health Command Garrison Facilities Upgrades⁽²⁾						
Simpson Barracks, Watsonia	VIC - Jagajaga	-	19.7	-	-	0.2
Puckapunyal Training Area	VIC - Nicholls	-	18.8	-	-	0.2
Albury-Wodonga, South Bandiana	VIC - Indi	-	17.3	-	-	0.0
Royal Military College	ACT - Canberra	-	45.3	0.1	0.1	4.2
Russell Offices	ACT - Canberra	-	-	-	-	-
Holsworthy Barracks	NSW - Hughes	-	8.0	-	-	0.0
Robertson Barracks	NT - Lingiari	-	5.1	-	-	-
Larrakeyah Barracks	NT - Solomon	-	14.9	-	-	-
Army Aviation Centre Oakey	QLD - Groom	-	18.2	-	-	0.4
Gallipoli Barracks, Enoggera	QLD - Ryan	-	11.0	-	-	0.1
Campbell Barracks	WA - Curtin	-	17.2	-	-	-
RAAF Townsville	QLD - Herbert	-	15.1	-	-	0.3
RAAF Pearce	WA - Pearce	-	5.7	-	-	0.0
RAAF Darwin	NT - Solomon	-	1.4	19.5	12.3	7.0
Total		251.8	197.9	19.6	12.4	12.3
Armoured Fighting Vehicles Facilities Program Stage 1⁽²⁾						
Lavarack Barracks	QLD - Herbert	-	18.7	10.9	10.9	12.8
Edinburgh Defence Precinct	SA - Spence	-	7.5	51.7	51.7	44.5
Puckapunyal Military Area	VIC - Nicholls	-	43.4	28.8	28.8	46.0
Total		248.5	69.7	91.4	91.4	103.3
Point Wilson Waterside Infrastructure Remediation Project						
Point Wilson	VIC - Corio	218.9	152.7	44.8	44.8	49.5
Navy Capability Infrastructure Sub-program: Maritime Operational Support Capability Facilities (SEA 1654 Phase 3)⁽²⁾						
HMAS <i>Stirling</i>	WA - Brand	-	113.3	20.4	20.4	40.8
Randwick Barracks	NSW - Kingsford Smith	-	26.4	-	-	-
Garden Island Defence Precinct	NSW - Sydney	-	-	-	-	-
Total		208.5	139.7	20.4	20.4	40.8
Land 121 Phase 5B Facilities Project⁽²⁾						
Lavarack Barracks	QLD - Herbert	-	7.0	-	-	-
Robertson Barracks	NT - Lingiari	-	-	-	-	-
Gallipoli Barracks	QLD - Ryan	-	31.3	57.9	57.9	58.3
Derwent Barracks	TAS - Clarke	-	10.3	2.8	2.8	6.6
Puckapunyal Military Area	VIC - Nicholls	-	9.0	1.1	1.1	-
Campbell Barracks	WA - Curtin	-	18.5	11.9	11.9	13.0
Porton Barracks	QLD - Kennedy	-	0.1	-	-	0.0
Total		183.3	76.2	73.7	73.7	78.0
Airfield Capital Works P0008 (RAAF Williamtown)						
RAAF Williamtown	NSW - Paterson	181.3	35.6	102.6	102.6	96.4
Shoalwater Bay Training Area Remediation Project						
Shoalwater Bay Training Area	QLD - Capricornia	135.4	142.9	0.0	0.0	1.6
DEF101 Data Centre Upgrade						
HMAS <i>Harman</i>	ACT - Bean	131.5	105.3	23.1	27.5	11.7
Airfield Capital Works P0006 (Curtin, Tindal and Townsville)⁽²⁾						
RAAF Townsville	QLD - Herbert	-	0.8	-	-	0.1
RAAF Curtin	WA - Durack	-	15.2	-	-	-
RAAF Tindal	NT - Lingiari	-	47.5	-	-	-
Total		95.3	63.5	0.0	0.0	0.1
North Queensland Mid-Term Refresh Program: RAAF Townsville Mid-Term Refresh Project						
RAAF Townsville	QLD - Herbert	72.8	-	28.7	28.7	3.6
AIR 2025 Phase 6 Jindalee Operational Radar Networks (JORN) Facilities Project⁽²⁾						
Alice Springs	NT - Lingiari	-	52.4	-	-	-
Murray Bridge Training Area	SA - Barker	-	1.4	-	-	-
RAAF Learmonth	WA - Durack	-	-	-	-	-
Kojarena	WA - Durack	-	-	0.1	0.1	3.2
Total		61.9	53.8	0.1	0.1	3.2
Facilities to Support SEA2273 Fleet Information Environment Modernisation Project⁽²⁾						
HMAS <i>Kuttubul</i>	NSW - Sydney	-	0.1	5.8	5.8	0.3
HMAS <i>Cerberus</i>	VIC - Flinders	-	0.0	-	-	0.5
HMAS <i>Stirling</i>	WA - Brand	-	0.0	1.7	1.7	8.8
HMAS Coonawarra	NT - Solomon	-	0.0	0.4	0.4	1.7
HMAS Cairns	QLD - Leichhardt	-	0.0	22.8	22.8	0.3
Total		58.6	0.1	30.7	30.7	11.6
Anglesea Paterson Project⁽²⁾						
Anglesea Barracks	TAS - Clarke	-	0.3	11.4	11.4	1.2
North Launceston Multi-User Depot	TAS - Bass	-	0.2	11.4	11.4	0.2
Youngtown Depot	TAS - Bass	-	0.9	17.0	17.0	0.1
Total		57.4	1.4	39.8	39.8	1.5

Project	State/Territory, and Federal Electorate	Total Estimated Expenditure \$m ^{[1][4]}	Cumulative Expenditure to 30 June 2022 \$m ^{[1][4]}	2022-23 Budget Estimate \$m ^{[1][4]}	2022-23 Revised Estimate \$m ^{[1][4]}	2022-23 Actual Expenditure \$m ^{[1][4]}
LAND 4502 Phase 1 Additional CH-47F Chinook Facilities						
RAAF Townsville	QLD - Herbert	49.9	36.1	10.9	10.9	7.0
Puckapunyal Mid-Term Refresh						
Puckapunyal Military Area	VIC - Nicholls	45.8	14.8	8.0	21.5	20.7
Puckapunyal Health and Wellbeing Centre						
Puckapunyal Military Area	VIC - Nicholls	39.8	15.3	18.0	18.0	17.5
SEA 1397 Phase 5D Nulka Assembly and Maintenance Facilities						
Defence Establishment Orchard Hills	NSW - Lindsay	31.6	22.4	0.1	0.1	6.5
Oakey Mid-Term Refresh						
Swartz Barracks	QLD - Groom	31.3	18.8	3.9	3.4	6.4
Holsworthy Mid-Term Refresh						
Holsworthy Barracks	NSW - Hughes	30.7	17.3	5.4	5.4	1.2
Land 555 Phase 6 Force Level Electronic Warfare, Signals Intelligence and Vehicles						
Borneo Barracks	QLD - Groom	29.6	22.5	0.0	0.4	4.7
HMAS Waterhen Mid-Term Refresh						
HMAS Waterhen	NSW - Northern Sydney	23.4	1.3	12.9	12.9	0.7
North Queensland Mid-Term Refresh Program: Townsville Field Training Area Mid-Term Refresh Project						
Townsville Field Training Area	QLD - Kennedy	22.8	0.0	17.3	17.3	1.4
LAND 2110 Phase 1B - Chemical, Biological, Radiological and Nuclear Defence (CBRND) Facilities^[2]						
HMAS Stirling	WA - Brand	-	0.3	-	-	0.5
Bindoon Training Area	WA - Pearce	-	0.3	0.2	0.2	0.2
Robertson Barracks	NT - Lingiari	-	0.6	-	-	-
RAAF Edinburgh	SA - Spence	-	0.4	0.2	0.2	-
Lavarack Barracks	QLD - Herbert	-	0.5	-	-	-
Gallipoli Barracks	QLD - Ryan	-	0.3	0.1	0.1	-
RAAF Amberley	QLD - Blair	-	0.4	-	-	-
Holsworthy Barracks	NSW - Hughes	-	0.3	0.3	0.3	0.7
Kapooka Military Area	NSW - Riverina	-	0.6	0.3	0.3	2.0
RAAF Base Wagga	NSW - Riverina	-	0.3	0.2	0.2	0.2
HMAS Creswell	ACT - Fenner	-	0.3	-	-	0.2
Majura Range	ACT - Canberra	-	0.4	0.2	0.2	0.2
HMAS Cerberus	VIC - Flinders	-	0.3	0.1	0.1	0.5
Dutson Air Weapons Range	VIC - Gippsland	-	0.3	0.2	0.2	0.5
Total		23.1	5.5	1.8	1.8	5.0
North Queensland Mid-Term Refresh Program: HMAS Cairns Mid-Term Refresh Project						
HMAS Cairns	QLD - Leichhardt	15.6	0.0	11.1	11.1	1.1
Space Domain Awareness Project Mirror Recoating Facility						
Harold E Holt	WA - Durack	17.6	0.0	0.6	0.6	10.5
2nd Combat Engineer Regiment Compensatory Hardstand Project						
Gallipoli Barracks	QLD - Ryan	6.5	2.0	2.2	2.5	0.3
Projects in or about to enter Defects Liability Period^[3]						
Total		13,639.2	7,609.4	1,771.5	1,821.9	1,821.7

Notes

1. Figures for Approved Facilities and Infrastructure Projects as at 30 June 2023.
2. These projects cross state and electoral boundaries. Cumulative expenditure, and estimated and actual expenditure, are provided in the table per location.
3. Figures are based on projects in or about to enter into their Defects Liability Period.
4. Figures shown as 0.0 are amounts greater than \$0 but less than \$50,000. Sum of the individual items may differ to the totals due to rounding.