

## APPENDICES

Appendix A: Defence Cooperation Program .....	102
Appendix B: Top 30 Military Equipment Acquisition Program Approved Projects .....	105
Appendix C: Top 30 Capability Sustainment Products Approved Projects.....	117
Appendix D: Enterprise Estate and Infrastructure Program .....	124
Appendix E: Status of Projects Foreshadowed for Government and Parliamentary Standing Committee on Public Works Consideration in 2021-22 .....	136
Appendix F: Top 5 Information and Communication Technology Approved Projects .....	141
Appendix G: Australian Government Indigenous Expenditure.....	142

## **APPENDIX A: DEFENCE COOPERATION PROGRAM**

The Defence Cooperation Program (DCP) has made a significant contribution to Australia's international defence engagement since the 1960s. The program:

- promotes the capacity of our international partners;
- improves Australia's capacity to work with partners in response to common security challenges; and
- builds strong people-to-people links with partner militaries at the tactical, operational and strategic levels.

The DCP advances Australia's strategic interests. In line with those interests, the DCP-priority countries and regions include Papua New Guinea, Indonesia, Timor-Leste, the South Pacific, South East Asia, Pakistan and the Middle East. The objective is to maximise Australia's security through developing close and enduring links with partners that support their capacity to protect their sovereignty, work effectively with the Australian Defence Force and contribute to regional security.

To achieve its objectives, the DCP suite of activities includes education courses, training, personnel exchanges, capacity building, military secondments, strategic dialogues, visits, infrastructure support, and exercises and operations.

The DCP supports the provision of education and training positions in Australia for international military personnel. Junior and senior officers from regional countries undertake short-and long-term courses at Australian military and civilian educational institutions. This training builds military professionalism by equipping participants with the skills they will use throughout their military careers. International military personnel also return home having developed a better understanding of Australia and having built networks with counterparts in the Australian Defence Force. These people-to-people links are further maintained through military alumni associations.

Australia maintains regular defence talks with regional countries in order to exchange views on regional security issues and to discuss defence cooperation priorities. The DCP also supports a program of visits by senior defence representatives to and from Australia. Through these visits, Australia gains an improved understanding of regional militaries and the strategic outlook of neighbouring countries.

Through capacity-building activities Defence seeks to develop the institutional and governance frameworks of regional defence organisations as well as the capabilities of their security forces. The DCP achieves these objectives through Australian Defence Force mobile training teams, support for logistics and infrastructure development, and the posting of Defence personnel as advisers to regional defence and security organisations. It is in Australia's interest to support professional and capable regional militaries that we can together operate with in support of regional security and stability.

A key element of the DCP, and the centrepiece of Australia's defence engagement in the South Pacific, is the Pacific Maritime Security Program. The Pacific Maritime Security Program is the successor to the original Pacific Patrol Boat Program, through which Australia provided 22 Patrol Boats (with in country advisory personnel, maintenance support, crew training and technical assistance) to 12 Pacific Island countries. Under the Pacific Maritime Security Program, Australia is replacing the existing fleet of Pacific Patrol Boats with new larger and more capable vessels. Austal Ships Pty Ltd is constructing 21 Guardian Class Patrol Boats for gifting to Pacific Island nations and Timor-Leste from 2018. Since 30 November 2018, Australia has handed over eight Guardian Class Patrol Boats to Papua New Guinea, Tuvalu, Tonga (two vessels), Samoa, Solomon Islands, Fiji and Palau. The Pacific Maritime Security Program expands the scope of the Pacific

Patrol Boat Program by including a region-wide integrated aerial surveillance capability and support for enhancing regional coordination. The Program engages Pacific navies and police maritime wings and is designed to enhance Pacific island countries ability to independently police their maritime zones

Our DCP activities also enhance the Australian Defence Force's operational familiarity with different environments and on building partner capacity in humanitarian assistance and disaster relief, peacekeeping, counter-terrorism, maritime security, and military governance and professionalism.

The Australian Defence Force conducts exercises with other militaries in order to build partner capacity and enhance Australia's capacity to work with partners in response to regional security contingencies. These exercises are conducted in the air, land and maritime domains and take place both in Australia and across the region. Exercising together promotes interoperability and builds familiarity between our armed forces and those of our regional military partners.

Australia's DCP with PNG is our largest with any country. The PNG DCP supports the PNG Defence Force (PNGDF) to be a more capable, sustainable and professional regional security partner, supported by the PNG Department of Defence (DoD), with approximately 41 Australian Defence personnel currently posted to PNG in 2020-21.

Current areas of focus for the PNG DCP include supporting its role in PNG's COVID-19 response; building PNGDF capability, including military and aviation capability; expanding our maritime security partnership; developing an enhanced infrastructure investment program, alongside the Lombrum Naval Base in Manus Province; and continuing to work with future leaders as they build a strong and resilient Defence Force. The PNG DCP will continue to facilitate the conduct of bilateral exercises, mobile training teams, infrastructure and logistics support, capability development, governance, training support and information sharing, especially on border issues.

**Table 51: Defence Cooperation Program Budget 2021-22**

	2020-21 Revised Estimate \$'000	2020-21 Estimated Actual \$'000 <sup>[c]</sup>	2021-22 Budget Estimate \$'000 <sup>[d]</sup>
Papua New Guinea	49,121	35,853	49,121
South Pacific Region	85,221	59,555	106,258
South-East Asia	30,589	22,054	33,971
Other regional activities <sup>[a]</sup>	11,471	6,799	24,953
Defence International Training Centre <sup>[b]</sup>	548	536	548
<b>Total</b>	<b>176,951</b>	<b>124,797</b>	<b>214,851</b>

**Notes**

a. Sri Lanka has been included as a Defence Cooperation Country from 2019-20.

b. The Defence International Training Centre (DITC) provides training in Australia to the defence forces of South-East Asia and South Pacific nations and to other selected overseas personnel. The DITC is managed by Joint Capabilities Group.

c. COVID-19 has adversely impacted Estimated Actual results for 2020-21, particularly affecting training, exercises, infrastructure works and maritime activities.

d. Key areas of growth in 2021-22 are in bilateral activities with Timor Leste, Vanuatu, Solomon Islands, Fiji, Malaysia and Indonesia, and in multilateral activities under the Pacific Patrol Boat Program / Pacific Maritime Security Program and Other Regional Engagement throughout the Indo-Pacific.

**Table 52: South Pacific Region Budget 2021-22**

	2020-21 Revised Estimate \$'000	2020-21 Estimated Actual \$'000	2021-22 Budget Estimate \$'000
Timor Leste	6,234	3,551	10,612
Vanuatu	3,775	1,293	5,223
Solomon Islands	1,456	1,497	2,408
Tonga	2,909	1,820	3,014
Samoa	610	89	610
Cook Islands	225	232	322
Republic of the Marshall Islands	442	122	562
Federated States of Micronesia	430	46	570
Fiji	4,747	2,008	5,847
Tuvalu	445	285	555
Kiribati	478	59	378
Palau	431	139	495
DCP Scheduled Support	6,102	7,704	7,102
Pacific Patrol Boat Program / Pacific Maritime Security Program	56,938	40,710	68,560
<b>Total</b>	<b>85,221</b>	<b>59,555</b>	<b>106,258</b>

**Table 53: South-East Asia Region Budget 2021-22**

	2020-21 Revised Estimate \$'000	2020-21 Estimated Actual \$'000	2021-22 Budget Estimate \$'000
Philippines	9,774	5,986	9,561
Thailand	3,411	2,200	3,411
Malaysia	4,558	3,765	6,309
Indonesia	7,096	6,323	8,196
Vietnam	3,583	2,602	4,064
Cambodia	1,096	871	1,350
Laos	407	213	768
Brunei	312	76	312
Myanmar	351	18	-
<b>Total</b>	<b>30,589</b>	<b>22,054</b>	<b>33,971</b>

## APPENDIX B: TOP 30 MILITARY EQUIPMENT ACQUISITION PROGRAM APPROVED PROJECTS

The Top 30 Military Equipment Acquisition Projects table is now presented with an enhanced view of Defence’s military equipment acquisition projects, which includes other elements of acquisition that contribute to an overall capability (excluding workforce). The projects are also grouped in the revised domain structure introduced through Defence’s Capability Program Architecture as detailed in the *2020 Force Structure Plan*.

The Military Equipment Acquisition line corresponds to the historical presentation for this table, which would principally include the project elements relating to the acquisition of major systems, such as aircraft, ships or vehicles.

Where projects involve other elements that are not part of the major capability system, these have been included within the Other Project Inputs to Capability line. This could include facilities, information communications technology, and research and development. Where these projects are disclosed specifically within Appendices D and F, this has been noted in the table.

**Table 54: Top 30 Military Equipment Acquisition Projects by 2021-22 Forecast Expenditure (Gross Plan) <sup>[a]</sup>**

Domain/Project Name	Project Number/Phase	Project Inputs to Capability	Approved Project Expenditure \$m	Estimated Cumulative Expenditure to 30 June 2021 \$m	Budget Estimate 2021-22 \$m	Top 30 Military Equipment Acquisition Project Descriptions
<b>Air Domain</b>						
New Air Combat Capability	<b>AIR 6000 Phase 2A/B <sup>[b]</sup></b>	Military Equipment Acquisition	15,631	8,878	1,949	This project 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 government-to-government agreement.
		Other Project Inputs to Capability	1,727	1,524	6	During 2021-22, the project is scheduled to accept 17 aircraft bringing the fleet to 56. Two of the 17 aircraft scheduled for acceptance in 2021-22 were initially forecast for delivery in 2020-21, but were impacted by COVID-19 production delays.
Multi-mission Unmanned Aircraft System	<b>AIR 7000 Phase 1B</b>	Military Equipment Acquisition	1,953	395	320	This project 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. The next tranches of aircraft and support systems will be considered in subsequent submissions to Government.
		Other Project Inputs to Capability	492	47	71	During 2021-22, Australia's approved aircraft and mission systems will continue production, the Network Integration Test Environment will complete delivery to support integration testing prior to aircraft delivery, spares purchased, and initial support arrangements developed.

Table 54: Top 30 Military Equipment Acquisition Projects by 2021-22 Forecast Expenditure (Gross Plan) (Continued) <sup>[a]</sup>

Domain/Project Name	Project Number/Phase	Project Inputs to Capability	Approved Project Expenditure \$m	Estimated Cumulative Expenditure to 30 June 2021 \$m	Budget Estimate 2021-22 \$m	Top 30 Military Equipment Acquisition Project Descriptions
<b>Air Domain (Continued)</b>						
Long Range ISREW Aircraft	<b>AIR 555 Phase 1</b> <sup>[b] [c]</sup>	Military Equipment Acquisition	2,194	1,256	294	This project is approved to acquire four MC-55A Peregrine aircraft including mission, ground and support systems, and Australian based facilities. The MC-55A is a first of type modified Gulfstream G550 aircraft with mission systems incorporated by L3 Harris USA. The project is primarily a developmental Foreign Military Sales acquisition through the United States Air Force.
		Other Project Inputs to Capability	559	106	84	During 2021-22 the first three MC-55A airframe modifications will continue with the fourth aircraft inducted by last quarter 2021. Construction of the Initial Operating Facility at RAAF Base Edinburgh is forecast for completion in quarter 2 2022.
Maritime Patrol & Response Aircraft System	<b>AIR 7000 Phase 2</b> <sup>[b]</sup>	Military Equipment Acquisition	5,633	4,199	255	This project is approved to acquire the P-8A Poseidon aircraft and supporting elements 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 14 aircraft (procurement of an additional two aircraft was approved by Government in December 2020), a suite of aircrew and maintenance training systems, three Mobile Tactical Operations Centres, and logistics support elements.
		Other Project Inputs to Capability	901	633	93	During 2021-22, updates continue across the Australian fleet to align the aircraft and training system configurations with the latest P-8A capability baseline.
Growler Airborne Electronic Attack Capability	<b>AIR 5349 Phase 3</b>	Military Equipment Acquisition	3,427	2,680	208	This project is approved to acquire an Airborne Electronic Attack Capability based on the EA-18G Growler platform. The systems are primarily being procured via Foreign Military Sales from the United States Navy. The approved scope includes the ALQ-99 Tactical Jamming System, anti-radiation captive training missiles, additional air-to-air missiles, simulators and other training devices. Aircrew and maintenance training will also be delivered. All aircraft have been delivered.
		Other Project Inputs to Capability	366	351	-	During 2021-22, the project will progress options to replace the 12th aircraft, and the remaining elements of the Mobile Threat Training Emitter System will undergo final integration, test and evaluation to allow electronic warfare training at ranges west of Amberley in Queensland and at Delamere in the Northern Territory.

Table 54: Top 30 Military Equipment Acquisition Projects by 2021-22 Forecast Expenditure (Gross Plan) (Continued) <sup>[a]</sup>

Domain/Project Name	Project Number/Phase	Project Inputs to Capability	Approved Project Expenditure \$m	Estimated Cumulative Expenditure to 30 June 2021 \$m	Budget Estimate 2021-22 \$m	Top 30 Military Equipment Acquisition Project Descriptions
<b>Air Domain (Continued)</b>						
Ground Based Air & Missile Defence Enhancement	<b>LAND 19 Phase 7B</b>	Military Equipment Acquisition	1,201	443	162	This 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 US-developed Sentinel radar in the system.
		Other Project Inputs to Capability	236	4	2	During 2021-22, the project will finalise manufacture of the initial major systems, and commence test and integration activities. The first-of-type CEA Technologies radars will be available as part of this test and integration.
Civil Military Air Traffic System (CMATS)	<b>AIR 5431 Phase 3 <sup>[b]</sup></b>	Military Equipment Acquisition	974	434	148	This project will provide the Defence element of a single national Civil Military Air Traffic Management System, being progressed jointly under the OneSKY Australia program with Airservices Australia. Airservices Australia is the lead agency for OneSKY and the joint project will provide operational benefits and efficiencies for both military and civil airspace users, in addition to reduced acquisition and support costs for Airservices Australia and Department of Defence. The Defence scope element includes 12 Air Traffic Management automation systems, communications infrastructure, training systems and Defence's share of a Joint Software Support Facility.
		Other Project Inputs to Capability	466	428	14	During 2021-22, Defence will work in partnership with Air Services and Industry to commence site rollout activities for the three Initial Operational Capability (IOC) sites, complete the Design Release Baseline Review and the Support System Critical Design Review for the IOC design configuration.

Table 54: Top 30 Military Equipment Acquisition Projects by 2021-22 Forecast Expenditure (Gross Plan) (Continued) <sup>[a]</sup>

Domain/Project Name	Project Number/Phase	Project Inputs to Capability	Approved Project Expenditure \$m	Estimated Cumulative Expenditure to 30 June 2021 \$m	Budget Estimate 2021-22 \$m	Top 30 Military Equipment Acquisition Project Descriptions
<b>Air Domain (Continued)</b>						
Advanced Growler Development	<b>AIR 5349 Phase 6</b>	Military Equipment Acquisition	505	236	112	<p>This project is approved to acquire a number of upgrades to the Airborne Electronic Attack capability, centered on the EA-18G Growler aircraft. The upgrades include the Next Generation Jammer being developed and procured through a cooperative program with the United States Navy. Other elements will be procured through a range of avenues and include: anti-radiation missiles; airborne decoys; aircraft system upgrades; and Electronic Warfare training range enhancements.</p> <p>During 2021-22, the focus of the project will be preparation for a submission to Government to approve the acquisition strategy, informed by engagement with US Navy and Industry. Major elements of the Next Generation Jammer weapon system will progress through United States Government approvals. The Next Generation Jammer Mid-Band capability is expected to begin Full Rate Production. The Next Generation Jammer Low-Band capability will continue progress through the engineering and manufacturing development phase. Next Generation Jammer High-Band capability will continue early requirements development activities. Residual activities associated with an initial buy of anti-radiation missiles will be completed. The project will continue engagement with Australian industry to study options for upgrading Electronic Warfare training ranges.</p>
		Other Project Inputs to Capability	72	11	15	
Weapons & Countermeasures for NACC	<b>AIR 6000 Phase 3</b>	Military Equipment Acquisition	739	118	126	<p>This project will deliver weapons (excluding Air-to Air-missiles) and countermeasures for the New Air Combat Capability (F-35A Lightning II and F/A-18F Super Hornet) and is linked to AIR 6000 Phase 2A/B, which is acquiring the F-35A Lightning II.</p> <p>Equipment will primarily be acquired through United States Government Foreign Military Sales with some items purchased via direct commercial sales, including supply of general purpose bombs through Australian Munitions.</p>
		Other Project Inputs to Capability	0	0	-	<p>During 2021-22, the project will focus on continuing to accept deliveries and conducting the associated engineering and logistics work packages to progress acceptance into service.</p>



**Table 54: Top 30 Military Equipment Acquisition Projects by 2021-22 Forecast Expenditure (Gross Plan) (Continued) [a]**

Domain/Project Name	Project Number/ Phase	Project Inputs to Capability	Approved Project Expenditure \$m	Estimated Cumulative Expenditure to 30 June 2021 \$m	Budget Estimate 2021-22 \$m	Top 30 Military Equipment Acquisition Project Descriptions
<b>Air Domain (Continued)</b>						
Airborne Early Warning & Control (AEWC) Interoperability Compliance Upgrade	<b>AIR 5077 Phase 5A</b>	Military Equipment Acquisition	1,179	936	94	This project is approved to deliver interoperability compliance upgrades to the E-7A Wedgetail airborne early warning and control aircraft and its associated support systems.
		Other Project Inputs to Capability	46	22	9	During 2021-22, cryptographic modernisation upgrades for the radios and Link 16 tactical datalink will complete testing and delivery activities. The project will also progress the development of the final E-7A Wedgetail fleet configuration incorporating all remaining interoperability upgrades approved by Government.
<b>Defence Enterprise Programs</b>						
COMSEC Remediation	<b>JNT 9141 Phase 1</b>	Military Equipment Acquisition	725	69	242	This 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. The project will deliver two types of physical solutions. The project is replacing encryption devices connected to radio and satellite communication systems and communication systems with inbuilt encryption devices. Equipment will be acquired via Foreign Military Sales or Direct Commercial Sales agreements.
		Other Project Inputs to Capability	46	10	11	During 2021-22, the project will complete radio and device technical certification activities and commence initial design activities for integration of radios and encryption devices on to ADF platforms. Manufacture and delivery of the main orders of radios and devices will continue during 2021-22.
Core Simulation Capability	<b>JNT 9711 Phase 1 [c]</b>	Military Equipment Acquisition	12	12	-	This project is approved to deliver the Core Simulation Capability. The capability is being delivered by Lockheed Martin Australia to support the conduct of simulation enabled Joint Collective Training. The Core Simulation Capability will provide a common managed simulation environment for Defence; integrate 'live', 'virtual' and 'constructive' elements into safe and realistic training activities; and provide a significant increase in the number of complex and repeatable simulation supported activities that can be conducted by the ADF.
		Other Project Inputs to Capability	377	163	108	During 2021-22, the project will be in the technical build phase, with the first production release of system components scheduled to be delivered. The project will also continue to deliver managed services to support the conduct of simulation enabled Joint Collective Training.

Table 54: Top 30 Military Equipment Acquisition Projects by 2021-22 Forecast Expenditure (Gross Plan) (Continued) <sup>[a]</sup>

Domain/Project Name	Project Number/Phase	Project Inputs to Capability	Approved Project Expenditure \$m	Estimated Cumulative Expenditure to 30 June 2021 \$m	Budget Estimate 2021-22 \$m	Top 30 Military Equipment Acquisition Project Descriptions
<b>Land Domain</b>						
Mounted Combat Reconnaissance Capability	LAND 400 Phase 2	Military Equipment Acquisition	5,655	1,452	665	<p>This 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 acquired providing the Army the ability to rapidly re-role from one variant to another. The vehicles will replace the ADF's current reconnaissance capability, the Australian Light Armoured Vehicle. The Combat Reconnaissance Vehicle will modernise Army's Armoured Fighting Vehicle capability, providing mounted support to Defence operations into the future. The primary role of the vehicles will be to perform ground-based reconnaissance and counter-reconnaissance activities.</p> <p>During 2021-22, the project will focus on setting the conditions for the achievement of Initial Operational Capability (in particular through support to Army's test and evaluation of the Block I capability) and progression of the designs of the Block II variants (for production in 2023 onwards).</p>
		Other Project Inputs to Capability	113	29	10	
Project Overlander - Protected Mobility Vehicle-Light	LAND 121 Phase 4	Military Equipment Acquisition	1,953	1,200	548	<p>This project will deliver 1,100 Protected Mobility Vehicles – Light ('Hawkei') for command, liaison, utility and reconnaissance roles. In addition, approximately 1,058 companion trailers will be acquired to enhance payload carrying capacity.</p> <p>The Hawkei balances requirements for survivability, mobility, payload, communications, useability and sustainability, providing a high level of protection against blast and ballistic threats, with the mobility to enable operations in high threat environments. The prime contractor is Thales Australia.</p> <p>During 2021-22, the project will continue to deliver Full Rate production vehicles, companion trailers and the Hawkei support system. Introduction Into Service Training and the rollout of Full-Rate Production mission systems to Army and Air Force will continue in support of the achievement of Final Operational Capability.</p>
		Other Project Inputs to Capability	0	0	-	
Tactical Training Vehicles	LAND 121 Phase 5B <sup>[b]</sup>	Military Equipment Acquisition	1,173	348	231	<p>This project will complete the medium and heavy vehicle capability replacement program commenced under project LAND 121 Phase 3B. It will acquire an additional 1,044 medium and heavy vehicles, 872 modules and 812 trailers. The prime contractors are Rheinmetall MAN Military Vehicles Australia and Haulmark Trailers (Australia).</p> <p>During 2021-22, the project will continue to deliver production vehicles, modules and trailers.</p>
		Other Project Inputs to Capability	226	6	37	

**Table 54: Top 30 Military Equipment Acquisition Projects by 2021-22 Forecast Expenditure (Gross Plan) (Continued) <sup>[a]</sup>**

Domain/Project Name	Project Number/Phase	Project Inputs to Capability	Approved Project Expenditure \$m	Estimated Cumulative Expenditure to 30 June 2021 \$m	Budget Estimate 2021-22 \$m	Top 30 Military Equipment Acquisition Project Descriptions
<b>Land Domain (Continued)</b>						
Multi-Role Helicopter (MRH)	<b>AIR 9000 Phase 2</b>	Military Equipment Acquisition	3,770	3,455	167	Project AIR 9000 Phase 2, 4 and 6 acquired 47 MRH-90 [Taipan] multi-role helicopters and support systems for the Army and the Navy. Phase 2 acquired 12 aircraft for an additional Army air mobile squadron. Phase 4 will replace the Black Hawk fleet. Phase 6 replaced Navy Sea Kings helicopters. The 47th and final production aircraft was accepted into service in July 2017 and the fleet was modified to the latest production baseline.
		Other Project Inputs to Capability	22	22	-	During 2021-22 the project will continue work on the remaining deliverables required to enable achievement of Final Materiel Release and project closure in 2022.
Battlefield Command Systems (Tranche 2)	<b>LAND 200 Phase 2-A</b>	Military Equipment Acquisition	962	691	156	The Battlefield Command System provides Army with tactical digital radios and an integrated Battle Management System that is transforming command and control of Land forces from a paper-based system to a modern digital system. LAND 200 Tranche 2 is to integrate the Battlefield Command System into additional land platforms; enhance the Tranche 1 software to deliver a new Enterprise Battle Management System; deliver a new Tactical Communications Network; deliver a new Weapon Integrated Battle Management System; and embed training into the Army's individual and collective training institutions.
		Other Project Inputs to Capability	47	39	3	During 2021-22, the project is scoped to deliver further software releases for the Battle Management System, the Tactical Communications Network and will establish integration and installation contracts for the vehicle modification work.
Special Operations Capability Enhancement	<b>LAND 1508 Phase 1</b>	Military Equipment Acquisition	257	71	100	This project will provide enhancements and continuous development to the ADF Special Operations capability, delivering prioritised equipment in multiple tranches over a twenty year period. The program will ensure ADF special forces have the leading edge capabilities to contribute to Australia's security, including: body armour; weapons; diving; parachuting; roping and climbing systems; medical and search and rescue; communications; human performance training; and support.
		Other Project Inputs to Capability	90	31	25	During 2021-22, the project will continue to deliver the first tranche of equipment to Special Operations, while preparing for Government consideration of the second tranche of capability.

Table 54: Top 30 Military Equipment Acquisition Projects by 2021-22 Forecast Expenditure (Gross Plan) (Continued) <sup>[a]</sup>

Domain/Project Name	Project Number/Phase	Project Inputs to Capability	Approved Project Expenditure \$m	Estimated Cumulative Expenditure to 30 June 2021 \$m	Budget Estimate 2021-22 \$m	Top 30 Military Equipment Acquisition Project Descriptions
<b>Land Domain (Continued)</b>						
Australian Defence Force Deployable Health	<b>JNT 2060 Phase 3G2</b>	Military Equipment Acquisition	401	22	107	This project will provide a deployable health capability with a contemporary system of 'effects-based' modules to enable the provision of contemporary military medicine to support ADF elements on operations ranging from warfighting to humanitarian assistance and/or disaster relief. The modules are grouped to build capabilities that are tailored for specific missions or tasks. The project has engaged a prime contractor, Saab Australia, for system design, acquisition and through-life support of the deployable health capability.
		Other Project Inputs to Capability	12	6	1	During 2021-22, the project will complete key design activities; finalise the establishment of the Deployable Health Capability Support Centre facility; deliver equipment to enable Acceptance Test and Evaluation and commence integration of Military and Commercial Off The Shelf equipment into Health Modules for Initial Materiel Release and subsequent materiel releases.
Joint Counter Improvised Explosive Device	<b>LAND 154 Phase 4</b>	Military Equipment Acquisition	623	77	100	This project is delivering a Joint Counter Improvised Explosive Device (IED) Capability to protect against radio controlled IEDs, equipment for Explosive Ordnance Disposal teams and Search, Neutralisation and Exploitation Capabilities for all three Services. Tranche 1 is to acquire dismounted, vehicle mounted and Explosive Ordnance Disposal carry forward Joint Counter IED capabilities through United States Foreign Military Sales arrangements. Tranche 2 includes acquisition of further quantities of Tranche 1 equipment, urgently required Explosive Ordnance Disposal systems and Remote Positioning Vehicles for land and maritime. Tranche 3 builds on the delivered Counter IED capabilities, including systems' technology refresh, updates to testing and training facilities, Search Capability to detect and classify emplaced IEDs, and Personal Electronic Counter Measures systems.
		Other Project Inputs to Capability	35	13	7	During 2021-22, the project intends to further examine the wider threat environment and the method to best achieve the necessary operational outcomes for the ADF, including ongoing Industry engagement for Risk Reduction Activities.

Table 54: Top 30 Military Equipment Acquisition Projects by 2021-22 Forecast Expenditure (Gross Plan) (Continued) <sup>[a]</sup>

Domain/Project Name	Project Number/Phase	Project Inputs to Capability	Approved Project Expenditure \$m	Estimated Cumulative Expenditure to 30 June 2021 \$m	Budget Estimate 2021-22 \$m	Top 30 Military Equipment Acquisition Project Descriptions
<b>Land Domain (Continued)</b>						
Battlespace Communications System (Land)	JP 2072 Phase 2B	Military Equipment Acquisition	942	773	104	<p>This project is providing Army and Air Force with a modern deployable Integrated Battlefield Telecommunications Network (IBTN) delivered in three releases, each of increasing capability effect. An acquisition and a performance based support contract were signed together in 2015 with Boeing Defence Australia as the prime systems integrator. Release 1 achieved Initial Operational Capability in March 2018.</p> <p>During 2021-22, Release 2 is scoped to complete Introduction Into Service by mid-2021. Release 3 is scoped to commence delivery in late-2021 and is scheduled to be completed by September 2022. The final date of delivery is subject to contract negotiations as a result of COVID-19 schedule impacts. Final Operational Capability is scheduled for September 2022. IBTN equipment delivered to date has been very well received by Army and Air Force units and has been successfully deployed on Operation APEC Assist 2018 and a number of major Defence exercises.</p>
		Other Project Inputs to Capability	-	-	-	
<b>Maritime Domain</b>						
Future Submarine Design and Construction	SEA 1000 Phase 1B	Military Equipment Acquisition	5,818	2,041	982	<p>This project will deliver Australia's regionally superior Attack Class Submarine with sovereignty over its operation and sustainment.</p> <p>During 2021-22, Defence will continue working with Naval Group and Lockheed Martin Australia on the design of the submarine. Delivery of the infrastructure needed to build submarines in Adelaide will also continue.</p>
		Other Project Inputs to Capability	537	238	64	
Future Frigate - Design and Construction	SEA 5000 Phase 1 <sup>[b]</sup>	Military Equipment Acquisition	6,047	1,209	655	<p>As a foundation project in the Australian Government's Continuous Naval Shipbuilding Program, the Hunter Class frigates 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>Commenced in December 2020, the SEA 5000 Phase 1 Project will continue to progress Design and Productionisation activities during 2021-22. This will include undertaking the System Definition Review (SDR), which is forecast to commence in quarter 1 2021. Work will also continue on maturing Australian Industry Capability strategies, with BAE Systems Maritime Australia having already issued request for proposals and executed subcontracts for provision of goods and services that will support prototyping activities. The Combat System Design will continue to progress as well as the land based facilities design.</p>
		Other Project Inputs to Capability	1,011	110	116	

Table 54: Top 30 Military Equipment Acquisition Projects by 2021-22 Forecast Expenditure (Gross Plan) (Continued) <sup>[a]</sup>

Domain/Project Name	Project Number/Phase	Project Inputs to Capability	Approved Project Expenditure \$m	Estimated Cumulative Expenditure to 30 June 2021 \$m	Budget Estimate 2021-22 \$m	Top 30 Military Equipment Acquisition Project Descriptions
<b>Maritime Domain (Continued)</b>						
Offshore Patrol Vessel (OPV)	<b>SEA 1180 Phase 1</b> <sup>[b]</sup>	Military Equipment Acquisition	3,670	795	366	<p>Project SEA 1180 Phase 1 Offshore Patrol Vessel (OPV) will acquire 12 new vessels based on an existing design, to replace and improve upon the capability delivered by the 13 Armidale Class Patrol Boats (ACPB). The primary role of the SEA 1180 Phase 1 OPV will be maritime patrol and response operations in support of the National Civil Surveillance Program (NCSP) in order to contribute to protecting Australia's territory, territorial seas, and Economic Exclusion Zone (EEZ) (Constabulary Tasks).</p> <p>Build commenced on OPV 1 (<i>Arafura</i>) at Osborne, South Australia in November 2018. Construction of OPV 2 (<i>Eyre</i>) commenced in June 2019 at Osborne. OPV 3 (<i>Pilbara</i>) commenced construction at Cimec's facility at Henderson, Western Australia in March 2020. OPV 4 (<i>Gippsland</i>) commenced construction at Henderson in January 2021.</p> <p>During 2021-22, the project will progress the build of five OPVs with OPV 5 (<i>Illawarra</i>) scheduled to commence construction in November 2021. OPV 1 (<i>Arafura</i>) is scheduled for launch in the latter half of 2021 and delivery in the first half of 2022.</p>
		Other Project Inputs to Capability	981	65	128	
Air Warfare Destroyer Program	<b>SEA 4000 Phase 3</b>	Military Equipment Acquisition	9,094	8,147	238	<p>The Air Warfare Destroyer program is delivering three Hobart Class Air Warfare Destroyers and their support system to the Royal Australian Navy, under an alliance-based contracting arrangement between ASC Shipbuilder Pty Ltd, Raytheon Australia Pty Ltd and the Commonwealth represented by Defence.</p> <p>The prime contractor is the Air Warfare Destroyer Alliance, with support from shipbuild manager, Navantia.</p> <p>Final Operational Capability is expected to be declared in June 2021. During 2021-22, the project is expecting to achieve Program Closure.</p>
		Other Project Inputs to Capability	-	-	-	
Navy Guided Weapons Sub-Program	<b>SEA 1300 Phase 1</b>	Military Equipment Acquisition	2,022	629	210	<p>The Force Structure Plan 2020 established this project to consolidate management and governance of Navy's Guided Weapons. The project approach is aligned with Navy's combat streams and will periodically update and adjust Government approvals. The project is assessing and developing missiles for Surface Combat, and assessing weapon options for Undersea Combat.</p> <p>During 2021-22, this project will establish contractual arrangements for the early development of weapon systems for above water combat and undersea combat. The project will continue to assess weapon options for surface combat and develop centre-led and strategically aligned options to inform future Government decisions.</p>
		Other Project Inputs to Capability	35	1	2	

Table 54: Top 30 Military Equipment Acquisition Projects by 2021-22 Forecast Expenditure (Gross Plan) (Continued) <sup>[a]</sup>

Domain/Project Name	Project Number/Phase	Project Inputs to Capability	Approved Project Expenditure \$m	Estimated Cumulative Expenditure to 30 June 2021 \$m	Budget Estimate 2021-22 \$m	Top 30 Military Equipment Acquisition Project Descriptions
<b>Maritime Domain (Continued)</b>						
Evolved Cape Class Patrol Boats	<b>SEA 1445 Phase 1</b>	Military Equipment Acquisition	343	102	160	The Evolved Cape Class Patrol Boat project will deliver 6 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. The contract with Austal Ships Pty Ltd was signed in April 2020. Four vessels are currently under construction, with the fifth due to commence in mid July 2021.
		Other Project Inputs to Capability	-	-	-	The delivery of the vessels has been delayed due to an unforeseen materials issue which required significant production rework to resolve. The first vessel is now scheduled for delivery in December 2021 (previously September 2021) and the last in April 2023 (previously March 2023).
AWD Aegis Capability Upgrade	<b>SEA 4000 Phase 6</b>	Military Equipment Acquisition	806	38	155	The Hobart class Destroyer Upgrade Project (SEA 4000 Phase 6) will increase the ADF's air and missile defence capability. The project will upgrade the three destroyers' combat management system to Aegis Baseline 9 and replace the Kongsberg Australian Tactical Interface with a Saab Australia developed Australian Interface.
		Other Project Inputs to Capability	2	2	-	Interim pass to Government is scheduled in June 2021.
Future Naval Aviation Combat System (FNACS)	<b>AIR 9000 Phase 8</b>	Military Equipment Acquisition	3,148	2,457	116	This project has delivered all 24 Seahawk Romeo aircraft, with the final delivery to Australia occurring in September 2016. Six minor Australian-led modifications are being progressively integrated in the aircraft.
		Other Project Inputs to Capability	206	204	-	The MH-60R capability is operated from HMAS <i>Albatross</i> in Nowra and is currently supporting up to eight embarked flights in Navy ships. Final Operational Capability is forecast for December 2023, when all eight Anzac Class Frigates (FFHs) are modified for MH-60R embarked operations.
Collins Satellite Communications	<b>JNT 9103 Phase 1</b>	Military Equipment Acquisition	441	60	97	JNT 9103 Phase 1 (formerly SEA 1442 Phase 6) will provide a secure and highly effective Protected Military Satellite Communications capability to maximise the combat effects of the ADF. The project will leverage off the United States Protected SATCOM capability and will deliver sovereign ground stations and network integration in the East and West coasts of Australia. The project will also integrate selected high-priority platforms into the system.
		Other Project Inputs to Capability	28	8	4	During 2021-22, JNT 9103 Phase 1 plans to deliver Protected Satellite Ground Station West, management and control centre, and platform and ADF network communications integration.

**Table 54: Top 30 Military Equipment Acquisition Projects by 2021-22 Forecast Expenditure (Gross Plan) (Continued)** <sup>[a]</sup>

Domain/Project Name	Approved Project Expenditure \$m	Estimated Cumulative Expenditure to 30 June 2021 \$m	Budget Estimate 2021-22 \$m
<b>Total Top 30 Projects (Gross Plan) – Total</b>	<b>89,933</b>	<b>47,295</b>	<b>9,877</b>
<b>Total Top 30 Projects (Gross Plan) - Other Project Inputs to Capability</b>	<b>8,634</b>	<b>4,074</b>	<b>809</b>
<b>Total Top 30 Projects (Gross Plan) - Military Equipment Acquisition</b>	<b>81,299</b>	<b>43,221</b>	<b>9,067</b>
Other Approved Project Gross Plans - Military Equipment Acquisition	39,994	29,785	2,574
<b>Total Approved Projects (Gross Plan) - Military Equipment Acquisition</b>	<b>121,293</b>	<b>73,006</b>	<b>11,641</b>
Management Margin: Slippage - Military Equipment Acquisition			-2,323
<b>Payments Required for the Approved Programme - Military Equipment Acquisition</b>			<b>9,319</b>

**Note**

- a. Approved Project Expenditure, Estimated Cumulative Expenditure to 30 June 2021 and Budget Estimate 2021-22 are on an accrual basis, and funded by appropriation.  
b. Includes project referenced in Appendix D: Enterprise Estate and Infrastructure Program.  
c. Includes project referenced in Appendix F: Top 5 Information and Communication Technology Approved Projects.  
d. Budget estimates shown as 0 are amounts greater than \$0 but less than \$500,000.



## APPENDIX C: TOP 30 CAPABILITY SUSTAINMENT PRODUCTS APPROVED PROJECTS

The Top 30 Capability Sustainment products are grouped in the revised domain structure introduced through Defence's Capability Program Architecture as detailed in the *2020 Force Structure Plan*.

**Table 55: Top 30 Capability Sustainment Products by End of Financial Year Outcome 2021-22**

Product Name	Product Serial	Budget Estimate 2021-22 \$m <sup>[a]</sup>	Top 30 Capability Sustainment Product Descriptions
<b>Air Domain</b>			
F/A18F Super Hornet & Growler Weapon System	CAF21	521	<p>The Air Combat and Airborne Electronic Attack capability comprises a fleet of 24 F/A-18F Super Hornet and 11 EA-18G Growler aircraft, with associated support elements. 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>The Super Hornet achieved Final Operational Capability in December 2012. The Growler achieved Initial Operational Capability in April 2019, with Final Operational Capability due mid 2022. In-service support arrangements are through prime contracts with Boeing Defence Australia (platform stewardship), Raytheon Australia (training support) and GE II (engine support).</p> <p>During 2021-22, spiral capability upgrades will continue on both Super Hornet and Growler aircraft and associated support systems. Growler aircrew training will remain a priority with the ongoing introduction of the Mobile Threat Training Emitter System which will provide broad benefits across the Air Combat Program.</p>
Airborne Early Warning and Control System - AEWC	CAF20	249	<p>The Airborne Early Warning and Control capability comprises six E-7A Wedgetail aircraft and associated support elements operated from RAAF Base Williamtown NSW. Boeing Defence Australia (as the prime contracting partner) together with Boeing Defence Systems, Northrop Grumman Systems Corporation, BAE Systems Australia, and Thales Australia, provide a performance-based support arrangement for maintenance, logistics, engineering, training and program management in order to support the capability.</p> <p>During 2021-22, the focus will be on maintaining fleet mission capability and availability throughout the AIR 5077 Phase 5A modification program while continuing to assess, prioritise and address emerging obsolescence requirements and minor modifications to maintain the capability.</p>
F-35 Joint Strike Fighter	CAF30	216	<p>The F-35A Lightning II capability currently comprises 33 aircraft based at RAAF Base Williamtown NSW, and is planned to grow to 39 by June 2021 and 56 by June 2022. The aircraft and associated support elements are transitioning into service and will provide Australia with a fifth-generation Air Combat capability. In-service sustainment is primarily delivered through the F-35 Global Support Solution facilitated by the US-based F-35 Joint Program Office, and supplemented through local direct commercial arrangements.</p> <p>During 2021-22, longer-term activities will be progressed to expand and mature the Australian F-35A sustainment support system, comprising deeper maintenance (air vehicle, propulsion and components), off-board information systems, reprogramming, aircrew and maintainer training, and local spares supply arrangements.</p>

**Table 55: Top 30 Capability Sustainment Products Approved Projects by End of Financial Year Outcome 2021-22 (Continued)**

Product Name	Product Serial	Budget Estimate 2021-22 \$m <sup>[a]</sup>	Top 30 Capability Sustainment Product Descriptions
<b>Air Domain (Continued)</b>			
KC-30A Weapon System Multi-role Tanker Transport	<b>CAF22</b>	175	<p>The KC-30A Multi Role Tanker Transport capability comprises seven aircraft and associated support elements (including a flight simulator) operated from RAAF Base Amberley QLD. All seven aircraft are capable of air-to-air refueling from pod and boom systems, and airlift logistics support. In 2019, the 7th aircraft was delivered with a government transport configuration.</p> <p>Northrop Grumman Australia (as the prime contracting partner) together with Airbus Defence and Space and CAE, provide a performance based support arrangement for maintenance, logistics, engineering, training and program management in order to support the capability.</p> <p>During 2021-22, the focus will be on continued maturation of sustainment performance, while supporting military operations and the expansion of additional aircraft types certified as capable of air-to-air refueling from the KC-30A Multi Role Tanker Transport. In addition, the integration of cryptographic related capability assurance upgrades concurrent with ongoing KC-30A sustainment will be progressed.</p>
Lead-In Fighter Hawk 127 Weapon System	<b>CAF03</b>	165	<p>The Lead-In Fighter Training capability comprises 33 Hawk 127 lead-in fighter aircraft and related support systems and is operated from RAAF Bases Williamtown and Pearce. The Hawk Lead-in Fighter Training System is supported by BAE Systems Australia Limited as the aircraft in-service support contractor and CAE as the simulator support contractor.</p> <p>During 2021-22, focus will continue on finalising Hawk 127 planned withdrawal date extension proposals to align with the introduction of project AIR 6002 Phase 1A – Future Lead-In Fighter Training System.</p>
P-8A Poseidon Maritime Patrol and Response	<b>CAF35</b>	129	<p>The Maritime Patrol and Response capability currently comprises 12 P-8A Poseidon aircraft and support elements operated from RAAF Base Edinburgh SA. Following recent Government approval, the fleet will grow to 14 post 2021-22. Support elements include three Mobile Tactical Operation Centres (including deployable flyaway kits), and various Training Support Systems (including two Operational Flight Trainers and Weapons Tactics Trainers).</p> <p>The capability is supported via a P-8A Cooperative Program with the United States Navy (USN), and a Through Life Support contract with Boeing Defence Australia (and Airbus Australia Pacific as a principal sub-contractor).</p> <p>During 2021-22, focus will shift slightly to optimising the now-integrated Through Life Support contract arrangements, and establishing a Depot Maintenance support element. The program will continue to adopt the latest P-8A capability baseline updates leveraging the USN cooperative program.</p>
C-17 Heavy Air Lift Weapons System	<b>CAF19</b>	122	<p>The Heavy Airlift capability comprises eight C-17A Globemaster III aircraft and associated support elements (including a flight simulator) operated from RAAF Base Amberley QLD. The majority of sustainment support for aircraft and training systems is provided via US Air Force Foreign Military Sales global support arrangements for the worldwide C-17A Globemaster fleet. These global sustainment arrangements are supplemented by a contract with Boeing Defence Australia for support services.</p> <p>During 2021-22, the focus will be transition to a new US Air Force support contract in 4th quarter 2021.</p>
C130J-30 Weapon System	<b>CAF06</b>	119	<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. The capability is supported by two prime performance based contracts: Airbus Group Australia Pacific provides deeper level maintenance, logistics and engineering support for the aircraft; and Standard Aero Limited provides support for the propulsion system.</p> <p>During 2021-22, the focus will be on improving the fleet's deeper maintenance program, including fleet embodiment of the C-130J Block Upgrade. Also, focus will be applied to further improvements in engine availability, reliability, and cost of ownership.</p>

**Table 55: Top 30 Capability Sustainment Products Approved Projects by End of Financial Year Outcome 2021-22 (Continued)**

Product Name	Product Serial	Budget Estimate 2021-22 \$m <sup>[a]</sup>	Top 30 Capability Sustainment Product Descriptions
<b>Air Domain (Continued)</b>			
Wide Area Surveillance (OTHR)	<b>CAF13</b>	96	<p>The Wide Area Surveillance Capability consists of High Frequency Radar and Space systems. The High Frequency Radar system, known as the Jindalee Operational Radar Network, comprises three Over-The-Horizon-Radars located in proximity to Longreach, QLD; Laverton WA; and Alice Springs, NT. The radars are maintained by BAE Systems Australia. The Space Surveillance capability includes access to Overhead Persistent Infrared sensors and a C-Band Radar surveillance system located near Exmouth, WA, which provides data into the No 1 Remote Sensor Unit Battlespace Surveillance Centre at RAAF Base Edinburgh SA, along with the High Frequency Radar feeds. The C-Band radar is sustained by a combined support contract with Raytheon Australia and US Space Force partners.</p> <p>During 2021-22, BAE Systems Australia will continue to progress multiple obsolescence remediation projects to ensure the capability remains effective until the radar upgrade is conducted under project AIR2026 Phase 6 - Jindalee Operational Radar Network Mid-Life Upgrade.</p>
Pilot Training System	<b>CAF37</b>	95	<p>The Pilot Training system comprises of 49 turbo prop aircraft, 7 flight training devices, 6 cockpit procedural trainers, mission pre-briefing debriefing systems, personal learning devices, learning environment and courseware. The capability is supported by 3 commercial contractors: Lockheed Martin Australia as the Prime Contractor supported by subcontracts with Pilatus Defence and Hawker Pacific. This capability provides an integrated fixed wing pilot training system for ab-initio pilots and qualified flying instructors for Navy, Army and Air Force. Aircraft operate from RAAF Bases at East Sale VIC, Pearce WA, Edinburgh SA and Williamtown NSW.</p> <p>During 2021-22, the final milestones and contractual acceptance will be achieved. Final Operational Capability is forecast for December 2021.</p>
C27J Spartan Battlefield Airlifters	<b>CAF34</b>	73	<p>The Battlefield Airlift capability comprises 10 C-27J Spartan aircraft and related support systems operated from RAAF Base Amberley QLD. The C-27J Spartan is supported by two prime performance based contracts. Northrop Grumman Australia Technology Services provides logistics and engineering support for the aircraft and Standard Aero Limited provides support for the propulsion system.</p> <p>During 2021-22, the focus will be on improving the C-27J Spartan engineering and logistics systems and the support contracts to deliver an increased flying rate of effort.</p>
<b>Defence Enterprise Programs</b>			
ADF Clothing	<b>CA39</b>	97	<p>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 2021-22, key product sustainment activities will include:</p> <ul style="list-style-type: none"> <li>• the ongoing enhancement of the Standard Combat Uniform, including development and introduction into service of the new Maritime Multicam Pattern Uniform to Navy;</li> <li>• replication of Standard Combat Uniform items in a women's sizing range, together with the introduction of a specific female fitting combat boot;</li> <li>• continued engagement with Navy, Army and Air Force regarding the program of design and technical enhancements of combat and non-combat clothing items; and</li> <li>• ongoing procurement to meet clothing and footwear requirements for the ADF's operations and raise, train and sustain activities.</li> </ul>

Table 55: Top 30 Capability Sustainment Products Approved Projects by End of Financial Year Outcome 2021-22 (Continued)

Product Name	Product Serial	Budget Estimate 2021-22 \$m <sup>[a]</sup>	Top 30 Capability Sustainment Product Descriptions
<b>Defence Enterprise Programs (Continued)</b>			
Explosive Ordnance Manufacturing Facilities	<b>CJC01</b>	95	<p>The objectives of Explosive Ordnance Manufacturing Factories are to provide safe, compliant, and sustainable operations of the Government Owned Contractor Operated munitions factories at Benalla and Mulwala, and the delivery of specified ADF domestic munitions requirements. The munitions are acquired by Defence through separate Army, Navy and Air Force product schedules. Excess capacity provides future Defence manufacturing opportunities, and commercial sales provides a latent surge capability when required by Defence.</p> <p>During 2021-22, key product sustainment activities include:</p> <ul style="list-style-type: none"> <li>• Focusing on realising and continuing to progress new opportunities for increased manufacturing capabilities where it is practicable, sustainable and economically viable.</li> <li>• Delivering multi-tenancy opportunities at the Benalla and Mulwala facilities.</li> <li>• Investigation of further opportunities for investment in the factories to ensure they remain capable of providing the capabilities required to support the ADF.</li> </ul>
<b>Land Domain</b>			
Multi Role Helicopter - TLH MRH90	<b>CA48</b>	292	<p>The final MRH-90 [Taipan] multi-role helicopter production aircraft was accepted into service in July 2017. In-Service Support is provided by a prime contract with Airbus Australia Pacific which expires in December 2022. The MRH-90 [Taipan] multi-role helicopter fleet is located at the 5th Aviation Regiment, 6th Aviation Regiment, Army Aviation Training Centre and 808 Squadron, with deeper maintenance being conducted at the Airbus Australia Pacific facility in Brisbane.</p> <p>Aircraft availability continues to be a key focus in 2021-22, in particular supply chain and deeper maintenance performance. The introduction of the MRH-90 [Taipan] multi-role helicopter into the 6th Aviation Regiment, to replace the Black Hawk in the aviation support role to Special Operations, remains another key priority for the sustainment program.</p>
Explosive Ordnance - Army Munitions Branch	<b>CA59</b>	235	<p>The Army Munitions and Guided Weapons product schedule supports Army's explosive ordnance inventory which consists of small arms ammunition, pyrotechnics, mortar and artillery ammunition, special purpose ammunition, demolitions stores 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 2021-22, key product sustainment activities include:</p> <ul style="list-style-type: none"> <li>• Continuation of the rationalisation of Land Explosive Ordnance inventory, with a reduction of the number of explosive ordnance types where appropriate.</li> <li>• Finalisation of the 10 year, Through Life Management Plans for families of explosive ordnance to improve inventory planning and budget management, and facilitate transition to new capabilities being procured through major projects, and</li> <li>• Continuing the development and prioritised implementation of plans to support the transition from overseas sourced Explosive Ordnance and munitions to domestic manufacture where it is practicable, sustainable and economically viable.</li> </ul>
Armed Reconnaissance Helicopter Weapons System	<b>CA12</b>	176	<p>All 22 Tiger armed reconnaissance helicopters are in-service in their final mature configuration. In-Service Support is provided under a prime contract with Airbus Australia Pacific. An Award Term Extension to extend the Through Life Support Contract until 31 December 2025 was agreed on 4 September 2019. All caveats associated with the Tiger armed reconnaissance helicopter Final Operational Capability have been closed by Chief of Army.</p> <p>During 2021-22, Defence will continue to work closely with Airbus Australia Pacific to further improve Tiger armed reconnaissance helicopter serviceability and rate of effort achievement. Other key areas of activity are the management and treatment of technical obsolescence to ensure continued capability through to the Tiger Planned Withdrawal Date in 2028.</p>

**Table 55: Top 30 Capability Sustainment Products Approved Projects by End of Financial Year Outcome 2021-22 (Continued)**

Product Name	Product Serial	Budget Estimate 2021-22 \$m <sup>[a]</sup>	Top 30 Capability Sustainment Product Descriptions
<b>Land Domain (Continued)</b>			
Command Support Systems - Battlespace	CA33	100	<p>The Command Support Systems – Battlespace CA33 product schedule sustains the Battle Management System acquired from Elbit Systems and supported by Elbit Systems of Australia; and the Force XXI Battle Command Brigade and Below – Blue Force Tracker system acquired from the US Army and supported by FMS.</p> <p>During 2021-22, key activities include further refinement of the performance based Battle Management System sustainment contract to improve the visibility of overall system performance, and the sustainment of operational and training software baselines in accordance with Capability Manager (Army) direction.</p>
Protected Mobility Fleet - Bushranger	CA04	90	<p>The Protected Mobility Product Schedule provides in service support for the ADF's fleet of Protected Mobility Vehicle - Medium (Bushmaster) and, commencing in 2021-22, 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. Land Domain has a Through Life Support Contract with Thales Australia that delivers engineering support, spare parts and heavy grade repair of the vehicles.</p> <p>During 2021-22, key sustainment activities include:</p> <ul style="list-style-type: none"> <li>• Commencement of sustainment of the Protected Mobility Vehicle - Light (PMV-L) Hawkei.</li> <li>• Ongoing support for vehicles on deployed operations.</li> <li>• Ongoing modernisation of the Bushmaster fleet under the Protected Mobility Integrated Capability Assurance (PMICA) program.</li> </ul>
Battlespace Communication Systems	CA31	86	<p>The Battlespace Communication Systems comprises a range of deployable data and voice communication systems used for battlespace command and control.</p> <p>During 2021-22, key activities will include the delivery of new radios via JP9141 (DELPHIC) and the reduction and disposal of obsolete and legacy Combat Net Radios. Capability enhancement of the Integrated Battlefield Telecommunications Network and the delivery of the Protected Mobility Integration and Capability Assurance Program will continue.</p>
<b>Maritime Domain</b>			
Collins Class Submarine	CN10	671	<p>The Collins Class Submarine Program manages the sustainment of Collins submarine materiel capability, ensuring availability requirements are met and submarines are materially prepared to undertake scheduled operational activities. This work is conducted under enterprise arrangements with industry and through key contracts with ASC Pty Ltd, Raytheon Australia, Thales Australia, BAE Systems, PMB Defence and other providers.</p> <p>During 2021-22, the Program will continue to ensure Navy's submarine materiel requirements are achieved as continual improvement and efficiency initiatives are implemented. Ongoing Collins life of type extension work will continue to inform sustainment plans for the Collins fleet.</p>
Anzac Class Frigate	CN02	338	<p>The support objective is to maintain the materiel capability of the eight Anzac Class Frigates through the provision of materiel support and ongoing maintenance of the ships and associated equipment, systems and operator training facilities.</p> <p>During 2021-22, the focus will be on completing the scheduled Anzac Class maintenance activities, along with the ongoing installation and integration activities associated with the Anzac Midlife Capability Assurance Programme inclusive of Platform Systems Remediation, Project SEA 1442 Phase 4 (Maritime Communications Modernisation Project), and Project SEA 1448 Phase 4B (Anzac Air Search Radar Replacement) on HMA Ships <i>Perth</i>, <i>Stuart</i>, <i>Toowoomba</i> and <i>Ballarat</i>.</p>

**Table 55: Top 30 Capability Sustainment Products Approved Projects by End of Financial Year Outcome 2021-22 (Continued)**

Product Name	Product Serial	Budget Estimate 2021-22 \$m <sup>[a]</sup>	Top 30 Capability Sustainment Product Descriptions
<b>Maritime Domain (Continued)</b>			
Destroyer Designated Guided (Air Warfare)	<b>CN40</b>	211	The support objective is to maintain the materiel capability of the in-service Hobart Class Destroyers through the provision of materiel support and ongoing maintenance of the ships and associated equipment, systems and operator training facilities. During 2021-22, the focus will be on completing the scheduled Hobart Class maintenance activities for the three in-service ships to ensure Navy's materiel requirements are achieved while examining opportunities for continual improvement and efficiency. Preparations will increase to support the intended Aegis Upgrade Program to be conducted through Project SEA 4000 Phase 6.
Navy Explosive Ordnance	<b>CN54</b>	185	The Navy Explosive Ordnance product schedule supports Navy's guided weapons and explosive ordnance including Guided Weapons, Navigational Outfits, Medium and Large Calibre Gunnery, Pyrotechnics and Cartridge Actuated Devices, Countermeasures, and Force Protection and demolition stores. Navy's Guided Weapons are categorised into four main streams: Missiles, Mine-warfare, Heavy Weight Torpedoes (including Encapsulated Harpoon Certification Training Vehicle) and Lightweight Torpedoes. CN54 includes sustainment of inventory used by Army and Air Force where Navy is the lead Service. During 2021-22, key product sustainment activities include: <ul style="list-style-type: none"> <li>• Close collaboration with Navy to prioritise procurement activities and funding to meet Navy's Raise, Train, Sustain requirements, the Navy Guided Weapon Load-out Plan and the Five Year Guided Weapon Firing Plan.</li> <li>• Tender evaluation for MU90 Light Weight Torpedo in-country maintenance support, and</li> <li>• Continuing the development and prioritised implementation of plans to support the transition from overseas sourced Explosive Ordnance and munitions to domestic manufacture where it is practicable, sustainable and economically viable.</li> </ul>
Canberra Class Landing Helicopter Dock	<b>CN34</b>	159	The support objective is to maintain the materiel capability of the two Canberra Class Landing Helicopter Dock vessels and twelve Landing Helicopter Dock Landing Craft, through the provision of materiel support and ongoing maintenance of the ships and associated equipment, systems and operator training facilities. During 2021-22, the focus will be on delivering HMAS <i>Adelaide's</i> first five-yearly docking maintenance period in which the newly manufactured/upgraded pods and new propeller design will be fitted, as well as achieving a steady state for the in service support arrangements and finalisation of platform and support system remediation activities, conducted under project JP2048 Phase 4A/B.
MH-60R Seahawk Romeo Helicopter	<b>CN35</b>	147	Project AIR 9000 Phase 8 was approved by Government in June 2011 and has delivered 24 Sikorsky-Lockheed Martin built MH-60R Seahawk Romeo helicopters. The majority of the associated mission and support systems, training devices, and weapons have been delivered. The Seahawk Romeo capability is operated from HMAS <i>Albatross</i> in Nowra NSW and is supporting eight embarked flights in Navy ships.
Armidale Class Patrol Boat	<b>CN09</b>	115	The support objective is to maintain the materiel capability of the twelve Armidale Class Patrol Boat vessels and two Cape Class vessels, through the provision of materiel support and ongoing maintenance of the ships and associated equipment, systems and operator training facilities. During 2021-22, the focus will be on supporting the program to achieve continued Operational Capability for the Patrol Boat Enterprise vessels, whilst commencing phase-out activities for the remaining Armidale Class vessels and the phase-in of the evolved Capes eleven to sixteen, in conjunction with ongoing activities to remediate the deficiencies in the platform and support systems.
Auxiliary Oiler Replenishment (AOR)	<b>CN50</b>	83	The support objective is to establish and maintain the materiel capability of the two new Auxiliary Oiler Replenishment vessels through the provision of effective materiel support of the ships and associated equipment, systems and operator training facilities. During 2021-22, the focus will be on accepting into naval service the new Auxiliary Oiler Replenishment capability and delivering the scheduled and corrective maintenance activities, for two Auxiliary Oiler Replenishment ships and associated equipment.

**Table 55: Top 30 Capability Sustainment Products Approved Projects by End of Financial Year Outcome 2021-22 (Continued)**

Product Name	Product Serial	Budget Estimate 2021-22 \$m <sup>[a]</sup>	Top 30 Capability Sustainment Product Descriptions
<b>Maritime Domain (Continued)</b>			
Aegis Combat System	CN60	78	<p>The Aegis Capability addresses sustainment of Aegis Combat System (ACS) products in the Hobart Class Destroyer and shore based test and training infrastructure both in Australia and the United States.</p> <p>The core requirements are to:</p> <p>a. Support Update and Upkeep of the ACS products in all Australian User Classes and all shore based test and training infrastructure,</p> <p>b. Support Australian Industry Content to fully develop and leverage sovereign ACS Update and Upkeep capability.</p> <p>Major activities for CN60 in 2021-22 include:</p> <ul style="list-style-type: none"> <li>• Delivery of major update to the ACS computer program (A1.2) in all Hobart Class platforms</li> <li>• Delivery of Tactical Data Link Upgrades to support Joint Force Authority Directive 02/2018</li> <li>• Commencement of next ACS computer program build (A1.3)</li> <li>• Design and development activities to support Standard Missile 6 Block I (SM6 Blk I) / Evolved Sea Sparrow Missile Block II (ESSM Blk II) and possible Tomahawk Block IV (Blk IV) solutions into the Hobart Class.</li> </ul>
Maritime Cross Platform	CN49	72	<p>The support objective is to deliver integrated cross class sustainment services and seaworthy materiel that is common across multiple platforms, and for which Maritime Cross Platform Systems Program Office is the identified Designated Logistics Manager. The materiel includes common standardised items related to weapon and sensor systems, platform and propulsion systems, and combat survivability and lifesaving systems.</p> <p>During 2021-22, the focus will be continuing to deliver cross class support to Maritime capability, improving asset management, expanding the portfolio and further implementing and leveraging a revised industry engagement strategy to best support expanded efforts across continuous Naval ship building and sustainment.</p>
Mine Hunter Coastal	CN14	66	<p>The support objective is to maintain the materiel capability of the four Huon Class Mine Hunter Coastal ships through the provision of materiel support and ongoing maintenance of the ships and associated equipment, systems and operator training facilities.</p> <p>During 2021-22, the focus will be on delivering the scheduled Huon Class maintenance activities, along with ongoing remediation of obsolescence issues.</p>
<b>Total – Top 30 Capability Sustainment Products</b>		<b>5,253</b>	
Other Approved Sustainment Product Estimates		2,233	
<b>Total Capability Sustainment Product Funds Available</b>		<b>7,486</b>	
Support to Operations		63	
<b>Total Capability Sustainment including Support to Operations</b>		<b>7,549</b>	

**Note**

a. Budget Estimate 2021-22 is on an accrual basis, and funded by appropriation.

## APPENDIX D: ENTERPRISE ESTATE AND INFRASTRUCTURE PROGRAM

The Enterprise Estate and Infrastructure Program component of the Integrated Investment Program comprises approved and yet to be approved major and medium capital facilities projects. These projects support and sustain current and future capability requirements and other government initiatives; meet legislative obligations; and provide engineering and infrastructure services and upgrades to existing facilities.

Major capital facilities projects are defined as having expenditure over \$75 million (excluding GST) and are subject to Government and Parliamentary approval. Medium capital facilities projects have expenditure between \$2 million and \$75 million (excluding GST), and are subject to Government approval and notification to the Parliamentary Standing Committee on Public Works (PWC). Details of approved major and medium capital facilities projects are provided in this Appendix.

### Approved Enterprise Estate and Infrastructure Program Projects

The table below, and the following descriptions, provide details on the progress and expenditure for 2021-22 on approved major and medium capital facilities projects.

Where projects contribute to broader capability acquisitions within the Top 30 military equipment acquisition projects, the value of these projects are also included within the 'Other Project Inputs to Capability' lines in Table 54.

**Table 56: Approved Enterprise Estate and Infrastructure Program Projects by State and Federal Electorate**

	State and Electorate	Total Estimated Expenditure \$m	Estimated Cumulative Expenditure to 30 June 2021 \$m	2021-22 Budget Estimate \$m
<b>New Air Combat Capability Facilities Project (AIR 6000 Phase 2A/B) <sup>[a] [d]</sup></b>				
RAAF Williamtown	NSW - Paterson	-	897.1	3.3
RAAF Tindal	NT - Lingiari	-	519.8	2.2
Defence Establishment Myambat	NSW - Hunter	-	8.0	0.0
<b>Total</b>		<b>1,485.8</b>	<b>1,424.9</b>	<b>5.5</b>
<b>Enhanced Land Force (ELF) Stage 2 <sup>[a]</sup></b>				
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	-	69.4	11.1
RAAF Edinburgh	SA - Spence	-	34.7	0.0
Majura Field Training Area	ACT - Canberra	-	13.4	-
RMC Canberra	ACT - Canberra	-	9.0	-
Mount Stuart	QLD - Kennedy	-	4.1	-
<b>Total</b>		<b>1,457.8</b>	<b>1,453.5</b>	<b>11.1</b>
<b>RAAF Base Tindal Redevelopment Stage 6 and United States Force Posture Initiative Airfield Works and Associated Infrastructure</b>				
RAAF Tindal	NT - Lingiari	1,173.9	71.0	123.7



**Table 56: Approved Enterprise Estate and Infrastructure Program Projects by State and Federal Electorate (Continued)**

	State and Electorate	Total Estimated Expenditure \$m	Estimated Cumulative Expenditure to 30 June 2021 \$m	2021-22 Budget Estimate \$m
<b>Navy Capability Infrastructure</b>				
<b>Sub-program: Hunter Class Frigate</b>				
<b>Program Facilities (SEA 5000 Phase 1) [a] [d]</b>				
HMAS <i>Watson</i>	NSW - Wentworth	-	-	-
Garden Island Defence Precinct	NSW - Sydney	-	-	-
St Kilda	SA - Spence	-	40.5	43.1
Osborne Naval Shipyard	SA - Hindmarsh	-	6.0	13.7
HMAS <i>Stirling</i>	WA - Brand	-	4.8	41.5
Henderson Maritime Precinct	WA - Fremantle	-	14.4	12.1
<b>Total</b>		<b>918.8</b>	<b>65.7</b>	<b>110.3</b>
<b>Navy Capability Infrastructure</b>				
<b>Sub-program: Offshore Patrol Vessel</b>				
<b>(OPV) Facilities (SEA 1180 Phase 1) [a] [d]</b>				
HMAS <i>Coonawarra</i>	NT - Solomon	-	3.0	23.8
RAAF Darwin	NT - Solomon	-	-	6.3
HMAS <i>Cairns</i>	QLD - Leichhardt	-	2.0	14.8
HMAS <i>Stirling</i>	WA - Brand	-	7.7	63.8
Henderson Maritime Precinct	WA - Freemantle	-	6.6	11.6
<b>Total</b>		<b>918.5</b>	<b>19.3</b>	<b>120.2</b>
<b>Maritime Patrol Aircraft Replacement</b>				
<b>(AIR 7000 Phase 2B) [a] [d]</b>				
RAAF Edinburgh	SA - Spence	-	504.3	9.0
RAAF Darwin	NT - Solomon	-	73.9	42.0
RAAF Townsville	QLD - Herbert	-	4.4	11.0
RAAF Pearce	WA - Pearce	-	40.8	13.3
HMAS <i>Stirling</i>	WA - Brand	-	4.7	0.0
<b>Total</b>		<b>792.6</b>	<b>628.1</b>	<b>75.3</b>
<b>Larrakeyah Defence Precinct Redevelopment Program</b>				
Larrakeyah Defence Precinct	NT - Solomon	<b>495.6</b>	<b>216.4</b>	<b>89.6</b>
<b>HMAS <i>Cerberus</i> Redevelopment</b>				
HMAS <i>Cerberus</i>	VIC - Flinders	<b>465.6</b>	<b>337.0</b>	<b>51.4</b>
<b>HMAS <i>Watson</i> Redevelopment</b>				
HMAS <i>Watson</i>	NSW - Wentworth	<b>430.5</b>	<b>50.3</b>	<b>62.7</b>
<b>Air Traffic Control Complex Infrastructure Project and Fixed Base Defence Air Traffic Management and Control System</b>				
<b>(AIR 5431 Phases 2 &amp; 3) [a] [d]</b>				
RAAF Amberley	QLD - Blair	-	52.2	0.7
Army Aviation Centre Oakey	QLD - Groom	-	37.9	1.4
RAAF Townsville	QLD - Herbert	-	40.9	0.5
RAAF Richmond	NSW - Macquarie	-	30.1	0.0
HMAS <i>Albatross</i>	NSW - Gilmore	-	20.3	0.2
RAAF Williamtown	NSW - Paterson	-	45.6	0.5
RAAF East Sale	VIC - Gippsland	-	10.5	0.7
RAAF Woomera	SA - Grey	-	0.9	0.0
RAAF Edinburgh	SA - Spence	-	8.9	0.1
RAAF Gingin	WA - Pearce	-	8.2	0.0
RAAF Pearce	WA - Pearce	-	36.0	0.1
RAAF Darwin	NT - Solomon	-	51.5	2.9
RAAF Tindal	NT - Lingiari	-	47.8	0.8
<b>Total</b>		<b>409.9</b>	<b>390.8</b>	<b>7.9</b>

**Table 56: Approved Enterprise Estate and Infrastructure Program Projects by State and Federal Electorate (Continued)**

	State and Electorate	Total Estimated Expenditure \$m	Estimated Cumulative Expenditure to 30 June 2021 \$m	2021-22 Budget Estimate \$m
<b>Battlefield Airlifter Facilities (AIR 8000 Phase 2)</b>				
RAAF Amberley	QLD - Blair	370.4	367.1	0.2
<b>HMAS Stirling Redevelopment Stage 3A</b>				
HMAS Stirling, Rockingham	WA - Brand	366.8	348.8	0.0
<b>AIR555 Phase 1 Airborne Intelligence Surveillance Reconnaissance Electronic Warfare Capability Facilities Works <sup>[a]</sup></b>				
Territory of Cocos (Keeling) Islands	NT - Lingiari	-	0.5	1.5
RAAF Darwin	NT - Solomon	-	0.5	0.0
RAAF Townsville	QLD - Herbert	-	0.4	0.0
RAAF Edinburgh	SA - Spence	-	32.3	34.3
<b>Total</b>		<b>294.5</b>	<b>33.7</b>	<b>35.8</b>
<b>Garden Island (East) Critical Infrastructure Recovery (CIRP) Stage 2</b>				
Garden Island Defence Precinct	NSW - Sydney	286.5	125.5	50.0
<b>LAND 121 Stage 2A <sup>[a]</sup></b>				
Lavarack Barracks, Townsville	QLD - Herbert	-	128.5	0.0
Gallipoli Barracks, Enoggera	QLD - Ryan	-	54.1	0.0
RAAF Amberley	QLD - Blair	-	1.3	0.0
RAAF Townsville	QLD - Herbert	-	3.3	0.0
RAAF Williamtown	NSW - Paterson	-	12.9	0.0
Holsworthy Barracks, Holsworthy	NSW - Hughes	-	2.0	0.0
RAAF Richmond	NSW - Macquarie	-	2.4	0.0
Puckapunyal Training Area	VIC - Nicholls	-	30.6	6.5
Campbell Barracks	WA - Curtin	-	8.2	0.0
RAAF Edinburgh	SA - Spence	-	9.2	0.0
Robertson Barracks	NT - Lingiari	-	1.1	0.0
RAAF Darwin	NT - Solomon	-	5.0	0.0
<b>Total</b>		<b>276.5</b>	<b>258.6</b>	<b>6.5</b>
<b>RAAF Base Williamtown Redevelopment Stage 2</b>				
RAAF Williamtown	NSW - Paterson	274.0	262.4	5.1
<b>Garden Island (East) Critical Infrastructure Recovery (CIRP) Stage 1</b>				
Garden Island Defence Precinct	NSW - Sydney	263.3	238.1	9.2
<b>Armoured Fighting Vehicles Facilities Program Stage 1 <sup>[a]</sup></b>				
Lavarack Barracks	QLD - Herbert	-	8.9	25.6
Edinburgh Defence Precinct	SA - Spence	-	4.0	10.0
Puckapunyal Military Area	VIC - Nicholls	-	23.1	51.7
<b>Total</b>		<b>235.1</b>	<b>36.0</b>	<b>87.3</b>
<b>Navy Capability Infrastructure Sub-program: Maritime Operational Support Capability Facilities (SEA 1654 Phase 3) <sup>[a]</sup></b>				
HMAS Stirling	WA - Brand	-	78.3	21.5
Randwick Barracks	NSW - Kingsford Smith	-	26.7	0.0
Garden Island Defence Precinct	NSW - Sydney	-	0.0	0.0
<b>Total</b>		<b>220.5</b>	<b>105.0</b>	<b>21.5</b>

**Table 56: Approved Enterprise Estate and Infrastructure Program Projects by State and Federal Electorate (Continued)**

	State and Electorate	Total Estimated Expenditure \$m	Estimated Cumulative Expenditure to 30 June 2021 \$m	2021-22 Budget Estimate \$m
<b>Point Wilson Waterside Infrastructure Remediation Project</b>				
Point Wilson	VIC - Corio	218.9	67.6	70.3
<b>Joint Health Command Garrison Facilities Upgrades <sup>[a]</sup></b>				
Simpson Barracks, Watsonia	VIC - Jagajaga	-	18.0	1.2
Puckapunyal Training Area	VIC - Nicholls	-	18.2	0.6
Albury-Wodonga, South Bandiana	VIC - Indi	-	17.5	0.0
Royal Military College	ACT - Canberra	-	40.4	5.2
Russell Offices	ACT - Canberra	-	0.0	0.0
Holsworthy Barracks	NSW - Hughes	-	7.9	0.0
Robertson Barracks	NT - Lingiari	-	5.1	0.0
Larrakeyah Barracks	NT - Solomon	-	14.3	0.1
Army Aviation Centre Oakey	QLD - Groom	-	14.0	1.7
Gallipoli Barracks, Enoggera	QLD - Ryan	-	7.4	1.5
Campbell Barracks	WA - Curtin	-	17.0	0.5
RAAF Townsville	QLD - Herbert	-	12.4	0.4
RAAF Pearce	WA - Pearce	-	5.3	0.5
<b>Total</b>		<b>212.5</b>	<b>177.5</b>	<b>11.7</b>
<b>Land 121 Phase 5B Facilities Project <sup>[a] [d]</sup></b>				
Lavarack Barracks	QLD - Herbert	-	0.0	0.0
Robertson Barracks	NT - Lingiari	-	0.0	0.0
Gallipoli Barracks	QLD - Ryan	-	3.0	26.2
Derwent Barracks	TAS - Clarke	-	0.4	5.0
Puckapunyal Military Area	VIC - Nicholls	-	0.0	0.0
Campbell Barracks	WA - Curtin	-	0.7	5.4
<b>Total</b>		<b>183.3</b>	<b>4.1</b>	<b>36.6</b>
<b>Airfield Capital Works P0007 (East Sale, Gingin and Oakey) <sup>[a]</sup></b>				
RAAF East Sale	VIC - Gippsland	-	89.9	0.0
RAAF Gingin	WA - Pearce	-	1.8	9.9
Army Aviation Centre Oakey	QLD - Groom	-	42.1	0.0
<b>Total</b>		<b>149.0</b>	<b>133.8</b>	<b>9.9</b>
<b>Shoalwater Bay Training Area Remediation Project</b>				
Shoalwater Bay Training Area	QLD - Capricornia	135.4	81.4	30.0
<b>DEF101 Data Centre Upgrade</b>				
HMAS <i>Harman</i>	ACT - Bean	131.5	77.3	25.7
<b>Naval Guided Weapons Maintenance Facilities Project</b>				
Defence Establishment Orchard Hills	NSW - Lindsay	95.5	59.5	1.4
<b>Airfield Capital Works P0006 (Curtin, Tindal and Townsville) <sup>[a]</sup></b>				
RAAF Townsville	QLD - Herbert	-	6.0	8.0
RAAF Curtin	WA - Durack	-	15.2	0.0
RAAF Tindal	NT - Lingiari	-	47.6	0.0
<b>Total</b>		<b>95.3</b>	<b>68.8</b>	<b>8.0</b>
<b>Defence High Performance Computing Centre</b>				
RAAF Edinburgh	SA - Spence	68.8	60.2	0.4

**Table 56: Approved Enterprise Estate and Infrastructure Program Projects by State and Federal Electorate (Continued)**

	State and Electorate	Total Estimated Expenditure \$m	Estimated Cumulative Expenditure to 30 June 2021 \$m	2021-22 Budget Estimate \$m
<b>AIR 2025 Phase 6 Jindalee Operational Radar Networks (JORN) Facilities Project</b>				
Alice Springs	NT - Lingiari	-	45.1	1.8
Murray Bridge Training Area	SA - Barker	-	0.0	0.0
RAAF Learmonth	WA - Durack	-	0.0	1.9
Kojarena	WA - Durack	-	0.0	0.0
<b>Total</b>		<b>50.7</b>	<b>45.1</b>	<b>3.7</b>
<b>Puckapunyal Mid-Term Refresh</b>				
Puckapunyal Military Area	VIC - Nicholls	45.8	1.4	15.6
<b>Singleton Mid-Term Refresh</b>				
Singleton Military Area	NSW - Hunter	42.2	23.7	9.8
<b>Puckapunyal Health and Wellbeing Centre</b>				
Puckapunyal Military Area	VIC - Nicholls	39.8	5.0	21.4
<b>SEA 1397 Phase 5D Nulka Assembly and Maintenance Facilities Project</b>				
Defence Establishment Orchard Hills	NSW - Lindsay	31.6	6.2	17.6
<b>Oakey Mid-Term Refresh</b>				
Swartz Barracks	QLD - Groom	31.3	3.1	11.9
<b>Land 555 Phase 6 Force Level Electronic Warfare, Signals Intelligence and Vehicles</b>				
Borneo Barracks	QLD - Groom	29.6	12.6	9.5
<b>Holsworthy Mid-Term Refresh</b>				
Holsworthy Barracks	NSW - Hughes	29.5	9.7	13.4
<b>HMAS <i>Waterhen</i> Mid-Term Refresh</b>				
HMAS <i>Waterhen</i>	NSW – Northern Sydney	23.4	0.0	11.1
<b>LAND 2110 Phase 1B - Chemical, Biological, Radiological and Nuclear Defence (CBRND) Facilities<sup>[a]</sup></b>				
HMAS <i>Stirling</i>	WA - Brand	-	0.5	0.2
Bindoon Training Area	WA - Pearce	-	0.1	0.1
Robertson Barracks	NT - Lingiari	-	0.3	1.4
RAAF Edinburgh	SA - Spence	-	0.2	0.8
Lavarack Barracks	QLD - Herbert	-	1.0	0.9
Gallipoli Barracks	QLD - Ryan	-	0.2	0.3
RAAF Amberley	QLD - Blair	-	1.6	1.1
Holsworthy Barracks	NSW - Hughes	-	0.7	0.4
Kapooka Military Area	NSW - Riverina	-	3.9	1.5
RAAF Base Wagga	NSW - Riverina	-	0.4	0.2
HMAS <i>Creswell</i>	ACT - Fenner	-	0.8	0.6
Majura Range	ACT - Canberra	-	1.7	0.5
HMAS <i>Cerberus</i>	VIC - Flinders	-	0.6	0.3
Dutson Air Weapons Range	VIC - Gippsland	-	0.8	0.4
<b>Total</b>		<b>16.7</b>	<b>12.8</b>	<b>8.7</b>
<b>Robertson Barracks Close Training Area</b>				
Robertson Barracks	NT - Lingiari	7.6	5.9	1.4
<b>RAAF Pearce – Upgrade of Potable Water</b>				
RAAF Pearce	WA - Pearce	7.5	7.1	0.1
<b>Robertson Barracks Small Arms Range</b>				
Robertson Barracks	NT - Lingiari	6.9	6.6	0.0

**Table 56: Approved Enterprise Estate and Infrastructure Program Projects by State and Federal Electorate (Continued)**

	State and Electorate	Total Estimated Expenditure \$m	Estimated Cumulative Expenditure to 30 June 2021 \$m	2021-22 Budget Estimate \$m
<b>2nd Combat Engineer Regiment Compensatory Hardstand Project</b>				
Gallipoli Barracks	QLD - Ryan	6.5	0.0	5.8
<b>Projects in or about to enter Defects Liability Period <sup>[b]</sup></b>				<b>4.1</b>
<b>Total <sup>[c]</sup></b>		<b>12,795.9</b>	<b>7,301.6</b>	<b>1,201.4</b>

**Notes**

- The projects crosses state and electoral boundaries. Estimated cumulative expenditure to 30 June 2021 and expenditure estimates for 2021-22 are provided in the table per location.
- This amount represents the expenditure estimates for contract administration of seven completed projects during their first year in-use.
- Sum of the individual items may differ to the totals due to rounding. Budget estimates shown as 0.0 are amounts greater than \$0 but less than \$50,000.
- Project referenced in Appendix B: Top 30 Military Equipment Acquisition Program Approved Projects.

## Explanation of Projects

### Australian Capital Territory

#### DEF101 Data Centre Upgrade

This project is providing infrastructure to support and ensure ongoing communications capability at HMAS *Harman*, ACT through expansion and fit out of existing facilities. This project is scheduled for completion in early 2022.

### New South Wales

#### HMAS *Watson* Redevelopment

This project is addressing functionality deficiencies, capacity constraints, and non-compliances in facilities and infrastructure at HMAS *Watson*, Sydney, NSW. This project is scheduled for completion in early 2027.

#### Garden Island (East) Critical Infrastructure Recovery Program (CIRP) Stage 2

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 is scheduled for completion in early 2024.

#### RAAF Base Williamstown Redevelopment Stage 2

This project is sustaining and improving the functionality and capability of RAAF Base Williamstown, NSW, including upgrading or replacing critical ageing infrastructure to meet future requirements. This project is scheduled for completion in late 2021.

#### Garden Island (East) Critical Infrastructure Recovery Program (CIRP) Stage 1

This project is addressing critical structural, condition and engineering services risks on the Cruiser and Oil wharves at the Garden Island Defence Precinct, Sydney, NSW. This project is scheduled for completion in late 2021.

#### Naval Guided Weapons Maintenance Facilities Project

This project is delivering new facilities at Defence Establishment Orchard Hills, NSW to enhance the maintenance of existing and new guided weapons. This project is scheduled for completion in late 2021.

#### Singleton Mid-Term Refresh

This project is remediating trunk infrastructure, and delivering new and refurbished buildings for base support and logistics in the Singleton Military Area, NSW. This project is scheduled for completion in late 2021.

#### SEA 1397 Phase 5D Nulka Assembly and Maintenance Facilities Project

This project will construct new purpose-built facilities at Defence Estate Orchard Hills, NSW to assemble, maintain, test and store decoy capability. This project is scheduled to commence construction by mid 2021 for completion in early 2022.

#### Holsworthy Mid-Term Refresh

This project is addressing power supply reliability issues, serviceability of high voltage infrastructure, and serviceability of training living-in-accommodation at Holsworthy Barracks, NSW. This project is scheduled for completion in early 2023.

#### **HMAS *Waterhen* Mid-Term Refresh**

This project will address 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 is scheduled to commence construction in late 2021 for completion in early 2023.

#### **Northern Territory**

##### **RAAF Base Tindal Redevelopment Stage 6 and United States Force Posture Initiative Airfield Works and Associated Infrastructure**

This program is addressing functional deficiencies, capacity constraints and non-compliances with facilities and infrastructure, and delivering airfield improvements at RAAF Base Tindal, NT. This program of works is scheduled for completion in late 2027.

##### **Larrakeyah Defence Precinct Redevelopment Program**

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 refueling capabilities to support Navy's major surface combatant ships operating in the north of Australia. This program of works is scheduled for completion in mid 2023.

##### **Robertson Barracks Close Training Area**

This project is providing perimeter fencing, signage, fire break installations; clearing rubbish; and removing asbestos to ensure the Robertson Barracks Close Training Area, NT, is suitable for Defence use. This project is scheduled for completion in late 2021.

##### **Robertson Barracks Small Arms Range**

This project addressed issues that impact on Darwin-based units to maintain mandated levels of readiness through the construction of a 25m/100m small-arms range within the Robertson Barracks Close Training Area, NT. The works are complete except for a stop butt, which is scheduled for completion in late 2021.

#### **Queensland**

##### **Battlefield Airlifter Facilities (AIR 8000 Phase 2)**

This project provided facilities at RAAF Base Amberley, QLD to accommodate and support the operation of the new C-27J Battlefield Airlifter aircraft. The works are complete except for resolving minor defects, which are scheduled for completion by mid 2021.

##### **Shoalwater Bay Training Area Remediation Project**

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 is scheduled for completion in late 2021.

##### **Oakey Mid-Term Refresh**

This project will upgrade engineering services and demolish redundant buildings at Swartz Barracks, QLD. This project is scheduled to commence construction by mid 2021 for completion in mid 2023.

#### Land 555 Phase 6 Force Level Electronic Warfare, Signals Intelligence and Vehicles

This project is providing vehicle storage, workshop extension, heavy vehicle weighbridge, access gate automation, and remediation of vacated facilities to accept training modules at Borneo Barracks, QLD to support deployable electronic warfare capabilities. This project is scheduled for completion in late 2021.

#### 2nd Combat Engineer Regiment Compensatory Hardstand Project

This project will provide an appropriate hardstand area for the 2<sup>nd</sup> Combat Engineer Regiment within Gallipoli Barracks, QLD. This project is scheduled to commence construction in late 2021 for completion in mid 2022.

### South Australia

#### Defence High Performance Computing Centre

This project is providing facilities to house high performance computing equipment as well as meeting, auditorium, and training facilities at RAAF Base Edinburgh, SA. This project is scheduled for completion by mid 2021.

### Victoria

#### HMAS *Cerberus* Redevelopment

This project is upgrading engineering services, refurbishing living-in-accommodation, constructing a new logistics precinct, upgrading the School of Survivability and Ship Safety, upgrading the gym, refurbishing training facilities and galley, and demolishing redundant buildings at HMAS *Cerberus*, VIC. This project is scheduled for completion in mid 2023.

#### Point Wilson Waterside Infrastructure Remediation Project

This project is remediating waterside infrastructure at Point Wilson, VIC to enable the recommencement of bulk Explosive Ordnance importation operations. This project will refurbish the existing 2.4 km jetty, and provide an entirely new wharf, amenities building, landside infrastructure and engineering services. This project is scheduled for completion in late 2022.

#### Puckapunyal Mid-Term Refresh

This project will address 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 is scheduled to commence construction by mid 2021 for completion in late 2022.

#### Puckapunyal Health and Wellbeing Centre

This project will replace obsolete, unsafe and non-compliant training facilities with a new fit-for-purpose health and wellbeing centre at the Puckapunyal Military Area, VIC. This project is scheduled to commence construction by late 2021 for completion in early 2023.

### Western Australia

#### HMAS *Stirling* Redevelopment Stage 3A

This project upgraded and refurbished existing critical shortfalls to infrastructure and facilities at HMAS *Stirling*, WA. The works are complete except for undertaking a final commissioning activity, which is scheduled for completion in late 2021.



### RAAF Pearce - Upgrade of Potable Water

This project is providing a compliant base-wide potable water system modification at RAAF Base Pearce, WA, to address potable water supply and infrastructure issues that are critical to the ongoing operations of the base. This project is scheduled for completion in late 2021.

### Various Locations

#### New Air Combat Capability Facilities Project (AIR 6000 Phase 2A/B)

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 majority of the works are complete with the exception of final demolition works. This project is scheduled for completion in mid 2022.

#### Enhanced Land Force (ELF) Stage 2

This project provided modern purpose-built facilities and supporting infrastructure for the 8th/9th Battalion, the Royal Australian Regiment and supporting elements of the Army's 7th Brigade at Gallipoli Barracks in Enoggera, Brisbane, QLD. This project included the construction of new and refurbished accommodation and training facilities, as well as common use facilities and site infrastructure upgrades at Enoggera and other Defence sites across four States and both mainland Territories.

Facilities at Townsville, Singleton, Duntroon and Watsonia provide modern accommodation and supporting infrastructure for increased Army career training. In Sydney, at RAAF Bases Amberley and Edinburgh, and at nine other Defence Training Areas, new and refurbished facilities with site infrastructure upgrades have been provided for Army and joint enabling elements supporting the Enhanced Land Force capabilities.

All works are complete with the exception of works at Cultana Training Area, which includes the delivery of a wash point approved as part of the Hardened Networked Army facilities project. This project is scheduled for completion by mid 2021.

#### Navy Capability Infrastructure Sub-program

This program of works is providing new and upgraded facilities and infrastructure around Australia to support the introduction into service and sustainment of new Frigate, Offshore Patrol, and Maritime Operational Support Capability vessels:

##### Hunter Class Frigate Program Facilities (SEA 5000 Phase 1)

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, NSW; St Kilda and Osborne Naval Shipyard, SA; and HMAS *Stirling* and Henderson Maritime Precinct, WA. This project is scheduled for completion in mid 2026.

##### Offshore Patrol Vessel (OPV) Facilities (SEA 1180 Phase 1)

This project is providing berthing, training, maintenance, logistics, and support facilities to support the introduction into service of new OPVs at HMAS *Coonawarra*, NT; RAAF Base Darwin, NT; HMAS *Cairns*, QLD; and HMAS *Stirling* and Henderson Maritime Precinct, WA. This project is scheduled for completion in mid 2026.

#### Maritime Operational Support Capability Facilities (SEA 1654 Phase 3)

This project is providing new and upgraded facilities and infrastructure to support the introduction of the Supply Class Auxiliary Oiler Replenishment vessels at HMAS *Stirling*, WA, and Randwick Barracks and the Garden Island Defence Precinct, NSW. This project is scheduled for completion in mid 2024.

#### Maritime Patrol Aircraft Replacement (AIR 7000 Phase 2B)

This project is providing new and upgraded facilities and infrastructure to support the introduction of the P-8A aircraft at RAAF Base Edinburgh SA, RAAF Base Townsville QLD, RAAF Base Pearce WA, and RAAF Base Darwin NT, as well as additional explosive ordnance facilities at HMAS *Stirling*, WA. This project is scheduled for completion in late 2022.

#### Air Traffic Control Complex Infrastructure Project and Fixed Base Defence Air Traffic Management and Control System (AIR 5431 Phases 2 & 3)

This project provided facilities in support of replacement Air Traffic Management Surveillance, Command and Control Systems under AIR 5431 Phases 2 and 3, incorporating the replacement of aged and degraded Air Traffic Control Towers, at 13 bases. Construction work at all bases is complete with the exception of minor works at RAAF Base Amberley and HMAS *Albatross*, which are scheduled for completion in mid-2021. The staged demolition of redundant facilities is scheduled for completion in late 2024.

#### AIR555 Phase 1 Airborne Intelligence Surveillance Reconnaissance Electronic Warfare Capability Facilities Works

This project is providing fit-for-purpose 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 Territory of Cocos (Keeling) Islands. This project is scheduled for completion in mid 2024.

#### LAND 121 Stage 2A

This project is providing facilities across 12 bases to sustain the B-vehicle fleet in accordance with the Basis of Issue for Army, the Royal Australia Air Force, and Joint Logistics Command. These facilities will maintain (workshops and repair parts storage), support (fuel points, loading ramps, wash points and weighbridges), and sustain (shelters and hardstand) the LAND 121 vehicles. This project is scheduled for completion in late 2021.

#### Armoured Fighting Vehicles Facilities Program Stage 1

Stage 1 of this program is providing fit-for-purpose 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 Puckapunyal Military Area, VIC. Stage 1 is scheduled for completion in mid 2023.

#### Joint Health Command Garrison Facilities Upgrades

This project is providing fit-for-purpose, contemporary Garrison Health Facilities around Australia. The works are complete except for those at Robertson Barracks, Puckapunyal Training Area, Royal Military College, Russell Offices, RAAF Townsville, Simpson Barracks, and Gallipoli Barracks which are progressively scheduled for completion in late 2021.

#### Land 121 Phase 5B Facilities Project

This project will provide fit-for-purpose facilities and infrastructure to support and sustain vehicles, modules, and trailers being procured through the LAND 121 Vehicle Acquisition Program. This project is scheduled to commence construction by mid 2021 and scheduled for completion in mid 2024.

#### Airfield Capital Works P0007 (East Sale, Gingin and Oakey)

This project is providing major maintenance to aircraft pavements and airfield lighting at RAAF Bases East Sale VIC, Army Aviation Centre Oakey, QLD which are both complete, and Gingin WA, which is scheduled for completion in late 2021.

#### Airfield Capital Works P0006 (Curtin, Tindal and Townsville)

This project is providing major maintenance to aircraft pavements and airfield lighting at RAAF Bases Curtin WA, Tindal NT and Townsville QLD. This project is scheduled for completion in late 2022.

#### AIR 2025 Phase 6 Jindalee Operational Radar Networks (JORN) Facilities Project

This project is providing new facilities and infrastructure to support the mid-life upgrade of JORN capability, with priority works at the JORN Radar 3 Receive (Mount Everard) and Transmit (Harts Range) sites near Alice Springs, NT. Supplementary works are located at Murray Bridge Training Area in South Australia, and RAAF Learmonth and Kojarena in Western Australia. This project is scheduled for completion in early 2022.

#### LAND 2110 Phase 1B - Chemical, Biological, Radiological and Nuclear Defence (CBRND) Facilities

This project is providing new and refurbished facilities, including training and storage facilities at 14 bases to support Australian Defence Force CBRND activities. This project is scheduled for completion in early 2022.

## APPENDIX E: STATUS OF PROJECTS FORESHADOWED FOR GOVERNMENT AND PARLIAMENTARY STANDING COMMITTEE ON PUBLIC WORKS CONSIDERATION IN 2021-22

### Program of Works Foreshadowed for Consideration and Approval

During 2021-22, Defence expects to present a number of capital facilities project proposals to the Parliamentary Standing Committee on Public Works (PWC). The following tables detail the proposed major capital facilities projects expected to be referred to the PWC, and medium capital facilities projects expected to be notified to the PWC, in 2021-22.

**Table 57: Major Capital Facilities Projects Foreshadowed for PWC Consideration and Approval in 2021-22**

	State/Electorate	Actual / Indicative PWC Referral Date <sup>[a]</sup>	Actual/ Indicative PWC Hearing Date <sup>[a] [b]</sup>	Parliamentary Approval Date <sup>[a]</sup>
Explosive Ordnance Facilities Northern New South Wales Redevelopment	NSW - Lindsay	Mid 2021	Mid 2021	Late 2021
Canberra Future Office Accommodation Project	ACT - Canberra	Mid 2021	Late 2021	Late 2021
General John Baker Complex Capability Assurance Project – Tranche 2	NSW - Eden-Monaro	Mid 2021	Late 2021	Late 2021
AIR 7000 Phase 1B Remotely Piloted Aircraft System Facilities Project	Multiple	Late 2021	Late 2021	Late 2021
Cultana Training Area Redevelopment Stage 2	SA - Grey	Late 2021	Early 2022	Early 2022
Cocos (Keeling) Island Runway Upgrade and Refurbishment	NT - Lingiari	Early 2022	Early 2022	Mid 2022
Victoria Barracks Melbourne Redevelopment	VIC - McEwan	Early 2022	Early 2022	Mid 2022
RAAF Williams (Point Cook) Redevelopment Project	VIC - Lalor	Early 2022	Early 2022	Mid 2022
Defence Fuels Transformation Program - Tranche 2 Facilities Project	Multiple	Early 2022	Mid 2022	Mid 2022
Guided Weapons Explosive Ordnance Storage Project	Multiple	Mid 2022	Mid 2022	Late 2022
Facilities to Support AIR 5077 Phase 6 – Wedgetail Airborne Early Warning and Control	Multiple	Mid 2022	Mid 2022	Mid 2022

#### Notes

- Actual dates are shown in full. Forecast dates are shown as “Early”, “Mid”, “Late”.
- Hearing dates are subject to the PWC’s consideration and agreement.

**Table 58: Medium Capital Facilities Projects Foreshadowed for Consideration and Approval in 2021-22**

	State/Electorate	Actual / Indicative PWC Notification Date <sup>[a]</sup>	Indicative PWC Approval Date <sup>[b]</sup>
E&IG ACT Office Pilot (BP26 Flexible Working Pilot)	ACT - Bean	Mid 2021	Mid 2021
Section Urban Assault Range	NSW - Hunter	Late 2021	Late 2021
Facilities for A COY 41 Royal NSW Regiment in Tweed Heads	NSW - Tweed	Late 2021	Late 2021
Puckapunyal Combined Arms Heritage and Learning Centre	VIC - Nicholls	Early 2022	Early 2022
LAND 3025 Phase 2 Deployable Special Operations Engineer Regiment Facilities Project	NSW - Hughes	Early 2022	Early 2022
HMAS <i>Harman</i> Redevelopment Project	ACT - Bean	Early 2022	Early 2022
Amberley Sewerage Treatment Plant and Water Treatment Plant	QLD - Blair	Early 2022	Mid 2022
LAND129 Phase 3 – Tactical Unmanned Aerial Vehicle Upgrade Facilities Project	Multiple	Mid 2022	Mid 2022
Facilities to Support Project LAND 159 Small Arms Replacement Project and LAND 4108 Direct Fire Support Weapons Replacement	Multiple	Mid 2022	Mid 2022
DEF2063 Phase 1 Geospatial Intelligence Facilities	VIC - Bendigo	Mid 2022	Mid 2022
Keswick Barracks Mid-Term Refresh	SA - Adelaide	Mid 2022	Mid 2022
Relocation of Units from Elizabeth North Training Depot	SA - Spence	Mid 2022	Mid 2022

**Note**

- a. Actual dates are shown in full. Forecast dates are shown as “Early”, “Mid”, “Late”.
- b. Hearing dates are subject to the PWC’s consideration and agreement.

## Explanation of Projects

### Project Narratives by State and Various Locations

#### Australian Capital Territory

##### Canberra Future Office Accommodation Project

This major project proposes to provide a fit-for-purpose workplace environment for Defence personnel operating within Canberra, ACT to support their associated capability. Subject to Parliamentary approval, construction is planned to commence in mid 2022 for completion in late 2025.

##### E&IG ACT Office Pilot (BP26 Flexible Working Pilot)

This medium project proposes to provide an exemplar in Canberra, ACT of the new Defence office accommodation principles. Subject to PWC approval, construction is planned to commence in late 2021 for completion in mid 2022.

##### HMAS *Harman* Redevelopment Project

This medium project proposes to deliver various infrastructure upgrades to HMAS *Harman*, ACT. Subject to Government and PWC approvals, construction is planned to commence in mid 2023 for completion in mid 2024.

#### New South Wales

##### Explosive Ordnance Facilities Northern New South Wales Redevelopment

This major project proposes to remediate existing facilities and provide new facilities and infrastructure to support activities at Defence Establishment Orchard Hills and Myambat Explosive Ordnance Depot, NSW. Subject to Government and Parliamentary approvals, construction is planned to commence in early 2022 for completion in mid 2024.

##### General John Baker Complex Capability Assurance Project - Tranche 2

This major project proposes to provide new and updated facilities at Headquarters Joint Operations Command at Bungendore, NSW. Subject to Government and Parliamentary approvals, construction is planned to commence in late 2022 for completion in late 2024.

##### Section Urban Assault Range

This medium project proposes to build a prototype range at Singleton Military Area, NSW. Subject to Government and PWC approval, construction is planned to commence in early 2022 for completion in mid 2022.

##### Facilities for ACOY41 Royal New South Wales Regiment in the Tweed Heads

This medium project proposes to provide fit-for-purpose facilities and infrastructure for ACOY41 Royal New South Wales Regiment at a newly acquired green field site in Tweed Heads, NSW. Subject to Government and PWC approvals, construction is planned to commence in mid 2022 for completion by early 2023.

##### LAND 3025 Phase 2 Deployable Special Operations Engineer Regiment Facilities Project

This medium project proposes to provide facilities and related infrastructure to accommodate increases at Holsworthy Barracks, NSW. Subject to PWC approval, construction is planned to commence in late 2022 for completion by early 2024.

## **Northern Territory**

### **Cocos (Keeling) Island Runway Upgrade and Refurbishment**

This major project proposes to undertake pavement and lighting works at the Cocos Keeling Island airfield. Subject to Government and Parliamentary approvals, construction is planned to commence in mid-2022 for completion in mid-2024.

## **Queensland**

### **Amberley Sewerage Treatment Plant and Water Treatment Plant**

This medium project proposes to replace treatment plant at RAAF Base Amberley, QLD, to support current and future needs. Subject to Government and PWC approvals, construction is planned to commence in mid 2022 for completion in mid 2023.

## **South Australia**

### **Cultana Training Area Redevelopment Stage 2**

This major project proposes to provide new infrastructure and facilities at the Cultana Training Area, SA. Subject to Government and Parliamentary approvals, construction is planned to commence in late 2022 for completion in late 2023.

### **Keswick Barracks Mid-Term Refresh**

This medium project proposes to sustain facilities and infrastructure at Keswick Barracks, SA, until the next major redevelopment. Subject to Government and PWC approvals, construction is planned to commence in mid 2022 for completion in mid 2023.

### **Relocation of Units from Elizabeth North Training Depot**

This medium project proposes to relocate Reserve and Cadet units to RAAF Base Edinburgh, SA. Subject to Government and PWC approvals, construction is planned to commence in mid 2023 for completion in early 2025.

## **Victoria**

### **Victoria Barracks Melbourne Redevelopment**

This major project proposes to ensure the facilities and infrastructure at Victoria Barracks, VIC, remain fit-for-purpose until the next phased redevelopment. Subject to Government and Parliamentary approvals, construction is planned to commence in late 2023 for completion in late 2025.

### **RAAF Williams (Point Cook) Redevelopment Project**

This major project proposes to upgrade infrastructure to ensure RAAF Base Williams (Point Cook), VIC, is enduring. Subject to Government and Parliamentary approvals, construction is planned to commence in late 2022 for completion in mid 2024.

### **Puckapunyal Combined Arms Heritage and Learning Centre**

This medium project proposes to provide facilities at the Puckapunyal Military Area, VIC, to accommodate combined arms heritage collections. Subject to Government and PWC approvals, construction is planned to commence in late 2022 for completion in mid 2024.

### **DEF2063 Phase 1 Geospatial Intelligence Facilities**

This medium project proposes to provide a new facility at Bendigo, VIC. Subject to Government and PWC approvals, construction is planned to commence in late 2023 for completion in late 2024.

## **Various Locations**

### **AIR 7000 Phase 1B Remotely Piloted Aircraft System Facilities Project**

This major project proposes to deliver new facilities and infrastructure at RAAF Bases Edinburgh, SA, and Tindal, NT, in support of the associated capability. Subject to Parliamentary approval, construction is planned to commence in late 2021 for completion in late 2025.

### **Defence Fuels Transformation Program – Tranche 2 Facilities Project**

This major project proposes to support the need to ensure supply of fuels at multiple sites Australia wide. Subject to Government and Parliamentary approvals, construction is planned to commence in early 2023 for completion in mid 2026.

### **Guided Weapons Explosive Ordnance Storage Project**

This major project proposes to deliver a range of efficiencies at Orchard Hills, NSW, and RAAF Base Amberley, QLD, to support capability. Subject to Government and Parliamentary approvals, construction is planned to commence in early 2023 for completion in late 2024.

### **Facilities to support AIR 5077 Phase 6 – Wedgetail Airborne Early Warning and Control**

This major project proposes to provide facilities and infrastructure at RAAF Amberley, QLD, and RAAF Williamtown, NSW, in support of the associated capability. Subject to Government and Parliamentary approvals, construction is planned to commence in early 2023 for completion in early 2025.

### **LAND129 Phase 3 Tactical Unmanned Aerial Vehicle Upgrade Facilities Project**

This medium project proposes to provide new buildings and minor refurbishments at various sites nationally in support of the associated capability. Subject to Government and PWC approval, construction is planned to commence in early 2023 for completion in mid 2024.

### **Facilities to Support Project LAND 159 Small Arms Replacement Project and LAND 4108 Direct Fire Support Weapons Replacement**

This medium project proposes to deliver facilities to support the associated capabilities. Subject to Government and PWC approvals, construction is planned to commence in early 2023 for completion in early 2025.



## APPENDIX F: TOP 5 INFORMATION AND COMMUNICATION TECHNOLOGY APPROVED PROJECTS

The Information and Communication Technology (ICT) Program component of the Integrated Investment Program comprises approved and yet to be approved ICT projects. These projects support and sustain current and future capability requirements through the delivery of ICT to enable Command, Control, Communications, Computing, Intelligence, Surveillance, and Reconnaissance (C4ISR) and Defence's corporate functions.

Where projects contribute to broader capability acquisitions within the Top 30 military equipment acquisition projects, the value of these projects are also included within the 'Other Project Inputs to Capability' lines in Table 54.

**Table 59: Top 5 ICT Approved Projects by 2021-22 Forecast Expenditure (Gross Plan) <sup>[a]</sup>**

Project Name	Project Number/ Phase	Approved Project Expenditure \$m	Estimated Cumulative Expenditure to 30 June 2021 \$m	Budget Estimate 2021-22 \$m	Top 5 ICT Project Descriptions
Defence Enterprise Resource Planning (ERP) Program	ICT 2283	604	315	146	This project will meet Australian Defence Force demands as it modernises capabilities and builds high-performing business functions. The Program will modernise, integrate and transform Defence's approach to managing its finance, logistics, supply, engineering, and maintenance functions.
Fleet Information Environment Modernisation	NAV 2273 Phase 1	621	186	114	The project will transform the Navy IT systems to a modern IT platform. It is replacing the current Fleet Information Environment and delivering a continuous design and update capability that will perpetually refresh the IT platform, hardware and software to improve cyber security and avoid obsolescence.
Core Simulation Capability	ICT 9711 Phase 1-A <sup>[b]</sup>	315	155	84	The project will deliver services required to deliver a Core Simulation Capability. This will provide critical training support to the ADF's future force through a significant upgrade and expansion of its simulation capability. The capability will: enable Defence to link live and simulated training together for large scale Joint and Combined collective training; and deliver on-demand distributed mission training to the single services of the ADF and Joint Operations Command.
Vetting Transformation	ICT 2270	150	48	61	The Vetting Transformation Project will deliver a transformed vetting capability to support implementation of agreed personnel security reforms and will improve identification, assessment and mitigation of personnel security risks, in response to increasing insider and foreign interference threats directed at Australia.
Airborne ISREW Capability	ICT 555 Phase 1 <sup>[b]</sup>	194	52	47	This project is approved to procure and install the necessary Information Communications Technology into Defence's Single Information Environment to enable the four MC-55A Peregrine aircraft including mission, ground and support systems being procured by the parent CASG delivered project AIR555 Phase 1.
<b>Total Top 5 ICT Projects (Gross Plan)</b>		<b>1,883</b>	<b>757</b>	<b>451</b>	

### Note

a. Approved Project Expenditure, Estimated Cumulative Expenditure to 30th June 2021 and Budget Estimate 2021-22 are on an accrual basis and funded by appropriation.

b. Project referenced in Appendix B: Top 30 Military Equipment Acquisition Program Approved Projects.

## APPENDIX G: AUSTRALIAN GOVERNMENT INDIGENOUS EXPENDITURE

**Table 60: Australian Government Indigenous Expenditure**

		2020-21 Estimated Actual \$'000	2021-22 Budget Estimate \$'000
	<b>Program</b>		
<b>Defence Indigenous Employment Strategy</b>	2.12	5,639	8,702
<b>Army Aboriginal Community Assistance Program</b>	2.6	2,490	6,700
<b>Total Australian Government Indigenous Expenditure</b>		<b>8,129</b>	<b>15,402</b>

### Defence Indigenous Employment Strategy

Defence remains committed to Reconciliation and the *National Agreement on Closing the Gap*. The *Defence Reconciliation Action Plan (D-RAP) 2019-2022* provides the strategic roadmap on how Defence will enhance its commitment to provide better socio-economic outcomes for Aboriginal and Torres Strait Islander Peoples. The D-RAP focus areas include:

- Building stronger relationships with Aboriginal and Torres Strait Islander Peoples and communities.
- Cultivating a deeper understanding and respect for Aboriginal and Torres Strait Islander culture, history and contemporary issues across the organisation.
- Increasing Aboriginal and Torres Strait Islander participation through employment and procurement opportunities.
- Improving the retention of Aboriginal and Torres Strait Islander personnel, and providing career development opportunities.

As at 01 February 2021, Defence's total workforce meets the Government's Indigenous participation target of 3.0 per cent. The ADF participation rate is 3.2 per cent and the APS participation rate is 2.7 per cent.

Defence has set Indigenous representation targets of 3.0 per cent for the Defence Australian Public Service (APS) workforce by 2022, and 5.0 per cent for the Australian Defence Force (ADF) by 2025.

Defence continues to exceed Australian Government targets under the Indigenous Procurement Policy (IPP). Since the introduction of the IPP in 2015, over \$4 billion of Commonwealth Government contracts have been awarded to Indigenous businesses. Of this, Defence has awarded over \$1.9 billion in contract value to Indigenous-owned businesses.

Defence is committed to developing and implementing a number of Indigenous programs and initiatives to enhance Indigenous attraction, recruitment and retention. This includes:

- Collaborating with the Australian Human Rights Commission (AHRC) to further explore how Defence can best support, develop and retain our Indigenous personnel.
- A Mina Proud Campaign which is focussed on 'storytelling' and 'connection' as a way for Indigenous personnel to feel comfortable in sharing the histories, stories, cultures and Indigenous Identity. Dual-naming major Defence bases in Traditional language which acknowledges Indigenous culture and communities.
- A Cultural Learning Strategy which is an online education portal that provides Defence personnel with ongoing and nationwide access to Indigenous cultural learning resources.
- Appointing a fulltime Navy Indigenous Advisor and Army announced the appointment of their second Indigenous Elder. Air Force are strengthening their community relationship with the National Aboriginal Community Controlled Organisation, extending the Kummundoo Program for a further five years.

## **Defence Indigenous Programs**

Defence continues to offer a range of programs for Indigenous Australians interested in a career in the Australian Defence Force or Defence Australian Public Service workforce and existing Indigenous members of Defence.

The Australian Defence Force continues to conduct the Navy and Army Indigenous Development Programs and Indigenous Pre-Recruit Program across Australia. Air Force creates individual Pathway Programs developed to suit the candidate's needs and growth areas. Indigenous Youth Programs are run on Air Force Bases as engagement and recruitment opportunities.

Defence participates in a number of Indigenous Australian Public Service programs that enable employment pathways into Defence through apprentice, trainee and graduate recruitment.

Defence is delivering the Indigenous Graduate Pathway (IGP) Program on behalf of Whole of Government. Since taking over the management and delivery of the IGP in October 2020, Defence has increased the number of participating agencies by approximately 30 percent (34 participating agencies in 2020 to 44 agencies in 2021).

A number of programs are offered to existing personnel to support their career development and retention, including a mentoring program for Indigenous Australian Public Servants, Indigenous leadership training and a regional Defence Aboriginal and Torres Strait Islander Network.

Defence is ensuring a culturally inclusive and respectful workplace by incorporating Indigenous awareness sessions into existing leadership development programs and seeking the advice of Defence Indigenous cultural advisory groups.

## **Army Aboriginal Community Assistance Program**

The Army Aboriginal Community Assistance Program (AACAP) is a joint initiative between Army and the National Indigenous Australians Agency (NIAA). The aim of AACAP is to improve the infrastructure, health and living conditions within remote aboriginal communities. This aim supports the federal government's commitment to 'closing the gap' between indigenous and non-indigenous Australians. One project is undertaken each calendar year. These AACAP projects leverage the ability of Army to deliver a range of services in remote areas, providing infrastructure works, employability skills training, health promotion and community support in a holistic and effective manner. Army also benefits from the opportunities afforded by the conduct of AACAP Projects to exercise and test various operational capabilities. The planned 2020 Project in Pormpuraaw in Far North Queensland was postponed due to COVID-19 impacts and has been rescheduled for completion as the 2021 project. The 2022 Project is planned for Gapuwiyak, NT that has been rescheduled from 2021.

## **Air Force Kummundoo Program (Health)**

Kummundoo initiative involves a partnership between Air Force and National Aboriginal Community Controlled Health Organisation (NACCHO), as the national peak body for Aboriginal and Torres Strait Islander health, through which Air Force can contribute to enhancing health care outcomes in Aboriginal and Torres Strait Islander communities. It creates opportunities for Air Force people to deploy into unique environments to assist Aboriginal and Torres Strait Islander communities on mutually agreed projects.

This page intentionally left blank.