

PROGRAMMES AT A GLANCE: MAY 2020

- 10 Programmes updated
- 2 New Programmes



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| Country Programme Name | Schedule Contractor Team | Recent Procurement Activity Notes |
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| Australia: Land 53  | Procurement of night vision goggles, helmet mounts and other equipment approved. L-3 | L-3 awarded a contract worth \$208 million by the Australian Defence Force under Phase 1BR of the programme in mid-November 2016. It will provide a range of systems, such as binocular night vision goggles and miniature laser rangefinders. The equipment is set to be delivered between 2017 and 2023, with the final materiel release set for March 2023 and final operational capability to be declared in September of that year. |
| Australia: Land 125 Phase 3C  | Thales Australia is the prime contractor manufacturing the Enhanced F88 rifle and supplying the Steyr Mannlicher-produced GLA. | This project is delivering a weapon system based on the Enhanced F88 rifle comprising a Grenade Launcher Attachment (GLA) and a suite of surveillance and target ancillaries, including an enhanced day sight and thermal and image-intensifier sights. A contract for the production of 30,000 Enhanced F88 rifles, 2,277 GLAs, repair parts and training aids was signed in July 2015. Deliveries commenced in August 2015 and will continue through to 2021. Surveillance and target ancillaries have been fully delivered. Deliveries of weapon systems into Queensland have been completed. Deliveries to units of the readying brigade primarily located in South Australia and the Northern Territory have commenced and will be completed in April 2019. Final Materiel Release is scheduled for December 2021, with Final Operational Capability in June 2022. |
| Australia: Land 125 Phase 4 (Army High Priority Capability Gaps - Next Soldier Enhancement)  | To be managed by Diggerworks. Equipping the soldier after 2020. Programme likely to be renamed. TBC | All personnel in Land 125-4 will already have L53-1BR - Night Fighting Equipment technology re-fresh L125-3B - Survivability - the Soldier Combat Ensemble (Protection, Platform, Pouches, Packs) L125-3C - Enhanced F88 with 'open architecture' Army Minors, Force Protection Review, Sustainment - F88SA2 and 3, 7.62mm MG, 7.62mm Marksman Rifle. The Australian Government has approved a project to enhance and continuously improve the equipment used by the Australian Defence Force. Minister for Defence, Christopher Pyne MP, said the Integrated Soldier Systems project, valued at up to \$1 billion over its 13-year life cycle, would deliver a range of items of equipment to the ADF for use by our troops. "We're taking a flexible approach here," said Minister Pyne, "investing up to \$240 million between now and 2023, with the flexibility to update and change things as technology develops into the future." The first tranche will deliver supplements to the basic equipment used by soldiers including body armor, helmets, hearing and eye protection and load carriage equipment; as well as field equipment like water purifiers, helmet torches, storage bags, cooking gear, and sleeping bags. In the future the project will continue to enhance the basic equipment used by soldiers to keep it up to date, as well as looking at things like hand-held translators, portable unmanned aerial vehicles and ideas like exoskeletons or 'mule' unmanned vehicles to help soldiers carry their equipment. |

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| Australia: Land 200 LAND 200 is made up of phases from three projects: Land 125, Land 75 and JP 2072.  | The Australian Federal Government announced that Eylex Pty Ltd has been selected to supply critical equipment to the \$5.2 billion Land 400 Phase 2 Commonwealth defence program, including Racal Acoustics RA4000 Magna and RA5001 Raptor headsets for Boxer 8x8 Combat Reconnaissance Vehicles (CRV) with deliveries later this year. Eylex Pty Ltd | LAND 200 Tranche 2 was endorsed by Government in August 2013 and will continue with PMV and G-Wagon installations, as well as installation of radios and systems into the M113AS4s, LAND 121 Medium Heavy Trucks, and PMV-Light. Invisio S10 v and S60 ordered. Thales MBITR and Harris Falcon II and 111 ordered. LAND 200 will undergo its greatest challenge between 2013 and 2018 in delivering a holistic Land Networking solution to two Army formations, enabling Brigades, training establishments, Special Forces and other Services. LAND 200 Tranche 3, planned for 2017 - 2021-22, will complete deliveries to the remainder of Defence and provide technical refresh of equipment previously delivered in Tranche 1 and 2. |
| Australia: Land 121 Phase 3   | The Land 121 Phase 3B contract commenced in April 2016 with a four year program focused on the delivery of a fleet of 2,536 vehicles in multiple configurations to form the logistics backbone of the Australian Defence Force. Deliveries to Australian Army facilities around Australia are expected to be completed by April 2020 under the Land 121 Phase 3B program schedule. | Deliveries of more than 2500 Rheinmetall MAN high mobility logistics vehicles to the Australian Defence Force have achieved a major new milestone with the Commonwealth of Australia declaring Initial Operating Capability (IOC) status for the LAND 121 Phase 3B program. The vehicles included under the Land 121 Phase 3B program and delivered to the Australian Army to date include the variants: Heavy Integrated Load Handling (HX-77); Heavy Tipper (HX-77); Medium Tipper (40-M); Tractor (HX-81); Heavy Recovery (45M); Medium-weight Tray with Crane (40M); Medium-weight Tray (40M). Australian industry capability (AIC) is a critical part of the Land 121 Phase 3B program and will be underscored during the next phase of the program - Land 121 Phase 3B/5B - which will see Rheinmetall deliver a further 1,044 vehicles and 872 modules, as well as on-going support to the capability to ensure it meets operational requirements. |
| Austria: Soldat der Zukunft  | 90 Million Euro investment. New visor system to be evaluated Elbit Systems | Glock P80 Pistols ordered. OPS-Core Sentry XP mid cut helmets ordered. Radio Conrad PNR 500. |
| Austria: Soldat 2018  | Combined with Soldat der Zukunft procurement. Elbit Systems | Madritsch delivered first batch of its AG77 A1/ML40. Soldat 2018 CRC kits to be delivered by 2020 |
| Belgium: BEST  | Invisio | 2019: Invisio has received a follow-up order from the Belgian Army to supply communication and hearing protection systems. The company won the order in partnership with Thales Belgium, which is the main contractor for the programme. The order is valued at around Skr25m (\$2.57m). Invisio expects to make deliveries in the fourth quarter of this year and the first half of next year. |

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| Brazil: Combatente Brasileiro (COBRA)  | <p>The project is expected to continue until 2021. The system will influence the decisions but will not be copied 100,000 troops by 2021.</p> <p> AMBINDE Systems Integrator.</p> | <p>\$14m award for Harris Falcon II&III radios in RF-7800V in Feb. 2011. First 86 VBTP-MR Guarani 6x6 IFVs delivered requirement for 2130. Impec's TPP-1400 ordered.</p> <p> The contract involves the supply of radios to the Brazilian army's center for communications and electronic warfare. Both the RF-7800V and RF-7800S systems are essential to the COBRA modernization program, as they will provide secure voice and high-bandwidth data applications, including video combat chat. There are a number of other types of equipment being supplied in the programme, such as the IA2 assault rifle.</p> |
| Canada: Integrated Soldier System Project (ISSP)  | <p>Rheinmetall Canada awarded a four-year contract in July 2015.</p> <p>As of July 2017 the qualification review for the new system to ensure it meets army requirements had been completed. The government exercised its option for the production of the first 1632 systems.</p> <p> Rheinmetall</p> | <p>Rheinmetall Canada is supplying the ISS in cooperation with Saab AB. The Canadian government has awarded Rheinmetall two major orders for army technology, whose total volume could reach CAD 493 million (about €350 million). Serving as prime contractor, Rheinmetall Canada Inc. Harris 7800s Radios and Invisio ear protection ordered.</p> |
| Croatia: 'Future Soldier'  | <p>EDA/LCG/1 participation only on C4I.</p> <p> Procurement for Afghanistan deployment inc. Motorola GP300, Kroko ballistic vest, Sestan Busch helmet.</p> | <p>New uniform and load carriage procured. First 1000 VHS 5.56mm assault rifle delivered.</p> <p> New sniper rifles demo-ed: Berta Projekt BP 08 M in .338 Lapua and .300 Win Mag and Agencija Alan's MACS M4 12.7mm.</p> |
| Czech Republic: Voják 21 'V21' or Soldier 21  | <p>V21 2004-6 single demonstrator Squad level 'Sesedak' experimentation in 2007-9.</p> <p> VOP-026 led V21 and 'Sesedak'.</p> | <p>Plans to acquire 10,000 CZ 805 Bren assault rifles, 7,000 CZ 75 Phantom pistols and 500 CZ Scorpion SMGs from 2014-2020.</p> |
| Denmark: 'Danish Army Network Enabled Soldier' (DANES)  | <p>May procure systems up to 2020. Hard systems by late 2018.</p> <p> As equipment.</p> | <p>National defence budget was increased by 4.5 billion kroner (600 million euros) by 2024.</p> <p>The Danish Army's transformation into a digital force is well under way and through its Army Tactical Communications Network (ATCN) programme the service is overhauling its radios, networks, and software solutions. Key to this is the roll out of Systematic's SitaWare suite of software across all layers of command.</p> |
| Finland: Now known as Warrior 2020  | <p>The system should be fielded by the end of 2019.</p> <p> TP2010 includes Savox as integrator and Millog, Nethawk and Insta.</p> <p>Elbit Systems has been selected to supply "soldier systems" to Finnish infantry commanders. This acquisition is the first phase of a comprehensive ISTAR (Intelligence, Surveillance, Target Acquisition and Reconnaissance) program known as STAR.</p> | <p>Tactical Headgear for Operational Requirements (THOR) has been adopted by the Finnish Defense Forces as the helmet component of their Soldier Modernization Program: Warrior 2020. A multi-year contract was recently let by the Finnish Defense Forces Logistics Command, with initial deliveries being used for acceptance testing. Savox is the prime contractor of the consortium behind THOR, along with industry partners, Millog Oy (night vision) and Fy-Composites Oy (ballistic protection).</p> <p> SAVOX has begun delivery of THOR Headgear for FDF. The initial order is for an undisclosed number of THOR tactical combat headgear systems destined for the FDF. These units will go into acceptance testing and approvals. The initial delivery is part of a rolling contract, which will see a steady ramping up of volume towards mass production later this year, with further options continuing for an undisclosed number of years. The FDF procurement has been handled by the FDF's joint procurement organisation, the Finnish Defence Forces Logistics Command, which manages all contracts for the Finnish Air Force, Army and Navy.</p> |

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| <p>France: FELIN (Fantassin à Équipements et Liaisons Intégrés)</p>  | <p>The programme is subject to an upgrade with more modern equipment.</p> <p> Safran</p> | <p>FELIN to become part of Scorpion as new programme title.</p> <p>The French Army will integrate its existing Fantassin à Équipements et Liaisons Intégrés (FELIN) dismounted soldier system into its Scorpion modernisation programme and is investigating capabilities to add even more, including an augmented reality (AR) visor.</p> <p>The overall Scorpion programme encompasses two new vehicles (the Griffon and Jaguar); an upgrade to the Leclerc main battle tank; the new Contact software-defined radio (SDR) from Thales to replace the PR4G; and the new Système d'Information du Combat SCORPION (SICS) battle management system from Atos that will be introduced at battle group (BG) level and below.</p> <p>The first SCORPION BG is planned for operational deployment in 2021 and the first brigade in 2023.</p> |
| <p>France: Arme Individuelle Future (AIF)</p>  | <p>Procurement for new assault rifle.</p> <p> Heckler & Koch</p> | <p>The tender called for a total of 90,000 weapons to be purchased, comprised of 45,000 assault rifles and 45,000 carbines, all chambered in 5.56 mm x 45 NATO ammunition. Under France's Military Programming Law 2014-19, more than 100,000 weapons – with the associated accessories, ammunition and services – will be delivered. A first batch of 400 rifles was received in May 2017.</p> <p> The bid request required the AIF standard to be integrated with the other aspects of France's FELIN future soldier system modernisation programme.</p> <p>Heckler & Koch's HK416F was selected in September 2016 to fulfill the requirement. This marks the first time that a France will acquire a standard-issue rifle from a foreign manufacturer.</p> |
| <p>France: Scorpion</p>  <p>UPDATED</p> | <p>In 2018 Safran Electronics & Defense won the contract for the French defense procurement agency DGA (Direction Générale de l'Armement) Science & Technology project, FURIOUS. Covering a period of five years, this project is designed to lay the groundwork for the integration of land robots in French armed forces, as part of the Scorpion modernization program. Safran will call on support from academia as well as the agility of small and medium-size enterprises (SME), to fulfill this contract, reflecting the DGA's policy of encouraging innovative partnerships between prime contractors, research organizations, SMEs and startups.</p> | <p>France views Project Scorpion as "preparation for future land combat systems, intended to build an armaments program to support [military] transformation," to be operationalized as a "system of contact for versatile capabilities and information networking,".</p> <p>The French Armed Forces Ministry ordered 56 Nerva and Caméléon Unmanned Ground Vehicles from Nexter, associated with ECA, on August 26, 2019 for the Army's Scorpion program, the Direction Générale de l'Armement (DGA) – the French armament procurement agency – announced. The agency said the light UGVs would contribute to the protection of dismounted soldiers in all kinds of environments, allowing them to counter potential threats at greater ranges. Equipped with different mission modules, the UGVs will allow engineers and infantry to gather intelligence regularly, the DGA added. The order is for three types of UGVs, all equipped with day/night cameras and a microphone: the 3 kg Nerva S reconnaissance, 5 kg Nerva LG extended reconnaissance, and 12 kg Nerva XX/Caméléon LG engineering UGV.</p> |
| <p>Germany: 'Gladius' IdZ-2/ES</p>  <p>UPDATED</p> | <p>Rheinmetall was contracted to deliver the IdZ-ES future soldier system to the German Bundeswehr in 2013. IdZ-ES is also known as the 'GLADIUS'.</p> <p>In 2017, the Bundeswehr ordered the next generation IdZ-ES plus for 68 platoons.</p> <p>The latest generation, IdZ-ES VJTF (also called GLADIUS 2.0) was contracted in 2018.</p> <p> Rheinmetall</p> | <p>New Equipment to reduce weight to 3.9kg by removing INS, new integrated tablet and squad leader display and upgrading C2 software. New 30% more battery capacity.</p> <p>In total, Rheinmetall has delivered over 3,500 systems to the German Bundeswehr.</p> <p>400 systems IdZ-ES VJTF will be delivered in 2021. That version is much more modular, flexible, lightweight and offers an open system architecture for the integration of several sub-systems. The soldier system is fully integrated in the troop carrier PUMA and sensor-to-shooter capability is realized.</p> |

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| <p>India: F-INSAS (Futuristic Infantry Soldier As a System)</p>   | <p>Phase 1 2012 weapons, body armour, clothing and individual equipment Phase 2 ISTAR 2015. Phase 3 C4I 2020.</p> <p> Thales and MKU have announced the co-development of the ELFIE Night Vision Device (NVD) for the armed forces in India. With this, both companies have further solidified the MoU signed in 2018 for strategic co-operation on developing optronic devices. This co-operation involves co-development of these devices at MKU's facility in Kanpur, Uttar Pradesh. A lightweight monocular with the widest field of view, ELFIE provides unprecedented mobility and night combat capability. Whether hands-free (on a face mask or helmet mount) or weapon-mounted, ELFIE is suitable for left or right eye use and provides stereoscopic vision in binocular configuration. ELFIE is ideal for vehicle-driving and for paratroopers and special forces operators. When mounted on a weapon, it provides a red dot sight or laser pointer to the user. The integration of the first pre-series of ELFIE at MKU's facility in Kanpur is expected to be completed in the first trimester of 2020.</p> | <p>Ordnance Factory Board (OFB) is reportedly in the process of developing a weapon with interchangeable barrels that would be capable of firing 5.56mm, 7.62mm and 6.8mm caliber ammunition.</p> <p>The project is ongoing. In January, it was reported that the army had issued Requests for Information (RFIs) on software-defined radios.</p> <p> CANCELLED: The new program will have two components: one to arm the future infantry soldier with the best available assault rifle, carbines and personal equipment, such as helmets and bulletproof vests. The second component is the Battlefield Management Systems. The program is modeled on the US military Future Warrior system.</p> <p>The Indian soldier's helmet will be made of a lighter-weight composite material so that it balances out the additions of the added, visor, camera and internal communication system, but still protects from 9mm carbine rounds and shrapnel.</p> <p>It is possible that armoured clothing could include a shear-thickening capability that not only disperses the impact of a gunshot or blast, but could potentially harness and transfer that energy for its own internal energy system.</p> <p>Simpler modifications are also being implemented to standard issue clothing to make the soldier more manoeuvrable, such as "modular" gloves that can be adapted for any type of weather and enable easy handling of a weapon.</p> |
| <p>Israel: Israeli Advanced Soldier / 'Shakhar' (Dawn)</p>  | <p>First deliveries of 'Dominator' system in 2009.</p> <p> Elbit Systems prime contractor.</p> | <p>Elbit Systems' Dominator scored a considerable success as some of its components are now part of programmes not only in Israel, but Finland, Australia and soon to be India.</p> <p>The key element of the new system is the Raptor, an all-in-one wearable computing unit specifically designed for soldier use. Weighing only 285 grams the Raptor features a 4.3-inch 800x480 resolution resistive touch screen that can be operated with gloves and be read in sunlight up to 600 cd/m2. It runs on an ARM Cortex A8 720MHz CPU and has a 512MB DDR2 SDRAM, storage coming in the form of a 16 GB SD card. The Raptor supports both Android and Linux operating systems. It features a built-in GPS and a digital compass while two USB ports are available, radio interface being provided by two RS-232 synchronous and asynchronous ports.</p> <p> No new updates to IAS, however, Israel's Defense Ministry announced that it had signed a \$100 million, 15-year contract with Motorola Solutions that will see the Israeli defence forces being equipped over the next several years with encrypted smartphones. These small, hand-held devices will offer not only the ability for individual soldiers to make encrypted calls and receive emails, but they will also come equipped with a built-in GPS system and be capable of sending and receiving digital media (the phone will have an eight-mega-pixel camera) as well as navigation information.</p> |

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| Italy: Soldato Futuro  | An industrial team, led by Selex Communications (formerly Selenia Communications), is developing the Italian Soldato Futuro, future soldier system. The industrial team includes Aero Sekur, Beretta, Galileo Avionica, Larimart and Sistema Compositi. | Sistemi Compositi led the development of the helmet, clothing and protection system. Selex Communications developed the command and control system and was in charge of software development. Larimart Computer was responsible for hardware. Beretta developed an ergonomically designed, lightweight rifle. Selex Communications developed a new individual pocket radio capable of transmitting voice and data simultaneously. The soldiers are issued with a Galileo Avionica individual night-vision unit based on a TV camera. |
| Japan: ACIES  | Evaluation complete. Delivery of first system in 2012-2019. Hitachi prime; HMD by Shimadzu, NEC IR camera and Brentronics power solution. | |
| Jordan: 'Future Soldier System'  | Completed Phase I studies. Entered Phase II. Led by Army and KADDB. Selex and Sagem amongst international partners. | Selecting which items can be developed produced locally or sourced internationally. Trialled weapons optics from Aselsan and Jels Polly & Norinco, Night Optics and STS. Also trialled gunshot location systems from QinetiQ, Raytheon and Ultra. |
| Netherlands: VOSS (Improved Operational Soldier System)   | Smart vest, power supply, load carriage and protection. The "Smart Vest" will be supplied by Elbit over a two-year period. Under this follow-on contract, Elbit Systems will supply additional wearable equipment consisting of soldier Load Carriage and Protection (LCP) systems. Under the VOSS programme, Elbit Systems is providing the Armed Forces of the Netherlands with man-pack E-LynX Software Defined Radio systems, RAPTOR wearable computing units, Command and Control capabilities as well as vehicle systems. | The system includes vests, backpacks, and ballistic protection, which are being tested in different combinations, according to the MoD, which added that VOSS communications equipment is undergoing tests in various vehicles. VOSS is being tested for comfort and functionality in different environments: urban areas, woods, arctic conditions, and airborne. In 2018, VOSS vests and backpacks were tested by the Royal Netherlands Marines in Norway and by the army's 13 Light Brigade in Germany. |
| Netherlands: VOSS 2   | Scoping Requirements. Includes enhancement for SF requirements. | The purchase of the Viper P6N helmets is part of the Defense Operational Clothing System program, which aims to replace the current combat clothing system of the entire Dutch armed forces. The DOKS program started in 2016, but was extended to all branches of the Dutch armed forces in 2018 following a defense budget increase. The program intends to provide a new combat clothing system to 40,000 to 45,000 soldiers of all branches. Sept 2019 - Revision was selected by the Dutch Ministry of Defence (MoD) to supply Batlskin Viper P6N helmet systems for Dutch Military Forces. The contract for delivery of approximately 48,800 combat helmets was awarded on a full and open competition basis to Revision. Additionally, a 15-year maintenance and support agreement was established, with an estimated completion date of 2034. The bespoke helmet system, developed to the Dutch MoD's rigorous performance standards and weight requirements, represents the first major advancement in helmet technology for Dutch Military Forces in over 20 years. |
| New Zealand: Soldier survivability programme of equipment (SSPE)  | Includes, BAE Elbit Systems, Harris, Thales & Selex. | Incorporates Australia's Land 125 Phase 3B contracts, which have been awarded to Bendigo-based Australian Defence Apparel (ADA) for the supply of load carriage equipment, including ballistic plate carriers, packs, basic pouches and equipment bags. |

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| <p>Norway: Nordic Combat Uniform</p>   | <p>Uniform deliveries are aimed to begin in 2021</p> <p> A number of contractors are believed to be interested in the contract, attending a meeting with representatives from the four countries in June 2016.</p> | <p>The NCU is a joint procurement between Denmark, Finland, Sweden and Norway, with the latter serving as lead nation in the project. It aims to provide an all-service combat uniform system for male and female soldiers. While this will be a joint procurement, it is expected that differences will remain between the nations, in camouflage patterns for instance.</p> <p>In May 2020 MilDef has signed a 7 year Framework Agreement with the Norwegian Defence Materiel Agency (NDMA) for delivery of tactical hardware.</p> <p>The framework agreement allows the Norwegian Armed Forces access to the MilDef product portfolio for use on their platforms and is expected to be valued at 350m NOK (34m US\$).</p> |
| <p>Pakistan: Concept phase</p>  | <p>TBC</p> <p> TBC but inc. POF on lethality.</p> | <p>Not part of "Future Soldier" Program, however, in July 2013, QinetiQ North America in Waltham, MA received a \$7.8 million sole-source, firm-fixed-price Pakistani contract for Talon IV robots external link, spares, and training. The Talon IV is used by US military EOD (explosive ordnance disposal technicians), using their remote cameras and robotic arm to investigate potential land mines.</p> |
| <p>Philippines: 'Future Soldier'</p>  | <p>Procurement under AFP Modernization Law and Battalion of Excellence programme.</p> <p> Various suppliers. Recently procured new GPS, Comms, EOD Bomb Suits, AFVs and LMGs.</p> | <p>Under the programme in March 2014, sources confirmed a purchase of 63,000 new Remington M4 carbines and plans call for all M4s issued to rifle platoons to be fitted with infrared laser aiming devices, and soldiers to receive image-intensified monocular devices that work with the lasers, plus handheld radios. The assault rifle procurement closely followed an order for 400 US-built Airtronic RPG-7 rocket launchers to replace obsolete M18 and M67 recoilless rifles. On the survivability front, an order for a reported 44080 force protection equipment sets is in the offing, each comprising a ballistic vest, plate inserts and a soft ballistic panel and weighing between six and seven kilograms (13-15 lb).</p> |
| <p>Poland: Tytan/ Polish Individual Battlesystem</p>  | <p>Three-phase R&D stage began in 2011.</p> <p> Led by Bumar Group includes FB Lucznik, PCO, PSO Maskpol, Radmor, CNPEP Radwar, OBRSM Tarnow, WB Electronics and ZM Tarnow.</p> | <p>The Polish Minister of National Defense, Mariusz Błaszczak, signed a Technical Modernization Plan until 2026 costing an approximate 185 billion Polish zlotys (about US\$48.9 billion).</p> <p>The technical modernization plan is a roadmap. All modern equipment will be directed to the new 4th division of the Polish Army.</p> <p>In the modernization plan, among the priority tasks, the Narew program (acquisition of anti-aircraft short-range rocket sets for combating, among others, unmanned aerial vehicles), Kruk (purchase of assault helicopters) and Orka (purchase of submarines) was registered.</p> |
| <p>Portugal: Soldado do Futuro</p>   | <p> TBC</p> <p>EID has signed a €16,7 million contract with the Portuguese Army to supply PRC-525 Combat Net Radios (CNR) and ancillaries, including deployable base systems, power amplifiers for vehicular use and antenna tuning units.</p> <p>The PRC-525 tactical radio is currently the standard man-pack and vehicular radio system used by the Portuguese Army, which has been widely used in various operational scenarios, including international defence and peace keeping missions. It achieved the "Army Tested" and "Combat Proven" certifications from the Portuguese Army. Deliveries started in 2019 and will continue to 2026.</p> | <p>For the light armament effort, about EUR42.8 million worth of gear is in a final phase of acquisition through the NATO Support and Procurement Agency (NSPA). This includes 11,000 5.56 mm assault rifles, of which 1,700 come with 40 mm grenade launcher; 300 7.62 mm assault rifles; 450 7.62 mm sniper rifles; 850 5.56 mm machine guns; 320 7.62 mm machine guns; 380 12-gage shotguns; and 3,400 detachable optics.</p> <p>The sensors and sighting auxiliaries subproject is worth EUR24.8 million and calls for 1,485 aiming and illuminating systems, 1,485 thermal imaging monoculars, 332 weapon thermal sights, 1,485 IFF beacons, 214 target locators and 1,485 flashlights.</p> <p>The C4I the project adds a battle management system (BMS) by Critical Software, and allocates EUR10.5 million for data and energy integrator systems, 292 handheld radios, 1,575 personal role radios, rugged tablets, headsets, batteries, and battery chargers.</p> |

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| Romania: Romanian Individual Fighting System (RIFS)  | Initial trial with demonstrator. TBC | Integrated with Romanian C4I systems based on RF-7800S, M, R5800V& H. Harmonised with EDA CEDS. Using the Quandtum3D Expedition DI systems with VBS2. |
| Russia: RATNIK  | Pursuing own Russian Technology after considering FELIN. Total of over 80,000 units to be deployed by 2019. | Added the new assault rifles, the AK-12 and the AK-103-4, Kalashnikov Concern. KRET is developing a battlefield identification system as part of the Ratnik combat equipment system. The new system has been designed to completely eliminate the possibility of friendly fire. The army will be fully equipped with the second generation of the system by 2020, according to reports. Russia is producing a new-age combat suit with a "powered exoskeleton" at the University of Science and Technology in Moscow called the Ratnik 3. The innovative Ratnik 3 combat suit contains a bevy of armor and protective pieces from head to toe. It also includes lower-body titanium framework designed to give the soldier more strength and stamina. Medical, reconnaissance, target-identifying and other information display on screens in the helmet. Ratnik 3 possesses more technological advancements in one set than entire generations of soldiers have had access to. |
| Serbia: Vojnik Buducnosti-10 (Future Soldier-10)/ M21  | Demo Phase. Yugoimport SPDR product/Serbian MoD. | M21BS-v10 5.56mm& M77 7.62mm weapons, new PBB VB-10 body armour and uniform. In June 2013, Serbian Yugoimport SPDR Company offered Azerbaijan direct sale or joint production of VB-10 equipment. Currently the Azerbaijani military is studying this system. |
| Singapore: Advanced Combat Man System (ACMS)  | Singapore reports three battalions fully equipped with the Advanced Combat Man System (ACMS). ST Engineering, ST Electronics, ST Kinetics and DSTA. | |
| Slovakia: Prokročily Individualny Bojovy System (PIBS)  | Last ten man squad trials in 2009. Funding halted after Concept Development and Experimentation Phase. Original plan was to equip brigade from 2012. | PIBS Programme in limbo due to budget concerns. |
| Slovenia: 21st Century Warrior or Slovenian Warrior  | Pre-study phase 1998. Study phase 1999-2005 procurement from 2002. Various suppliers. | Not Participating in EDA work. |
| South Africa: African Warrior  | Requirement Operational Capability was approved in 1999 Functional User Requirement Statement and the Logistic User Requirement in 2003 Project Study Report and the Customer Selection 2004. Now phased procurement. TBC | No progress due to budgetary concerns. |

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| <p>South Korea: Future Soldier</p>  <p>UPDATED</p> | <p>Concept and development phase. Acquisition from 2016 to field in 2020.</p> <p> ADD led Applied Research Phase; June 2009-Dec. 2011. Concept phase led by Samsung Thales.</p> <p>South Korea's Defense Acquisition Programme Administration (DAPA) has awarded a contract to LIG Nex1 who is Thales' local partner for the supply of IFF (Identification Friend or Foe) systems to replace Mode 4 with Mode 5 for enhancement capability.</p> <p>Short range TSA 1412 interrogators will be produced by local partners based on license production supported by Thales and will be Mode 5 compliant and certified to the latest NATO standard, which will soon be mandatory on coalition operations. The mid-range TSA 2522 interrogators will be upgraded</p> <p>Thales IFF systems will be integrated by LIG Nex1 who has been selected by DAPA, South Korea's Defense Acquisition Programme Administration, to supply TSA 1412 IFF (identification Friend or Foe) interrogators for integration with man-portable missile systems and TSA 2522 for air defence vehicles.</p> | <p>DSM Dyneema has been named to provide the ballistic protection material and key solution for enhanced lightweight armor for the Republic of Korea (South Korea) Army Multi-purpose Body Armor Program. The Multi-Purpose Body Armor Program is part of South Korea's efforts in soldier modernization, seeking to equip defense personnel with lightweight armor that provides enhanced protection over a large area of the body, thus increasing protection and survivability.</p> <p> International R&D co-operation sought in Energy Supply, Sensor Fusion and Virtual Simulation.</p> |
| <p>Spain: Combatiente Futuro (COMFUT)</p>  | <p> Airbus (formerly Cassidian) prime contractor plus Indra Sistemas, Iturri, Amopack SL, Fedur and GMV.</p> | <p>Operational trials of prototypes started at the end of September 2011 and May 2012. Due to Spain's economic woes, the programme is currently in limbo.</p> |
| <p>Sri Lanka: Special Infantry Operations Team (SIOT)</p>  | <p>Various suppliers.</p> | <p>Requirement for additional NV sights and navigation equipment per Team and two new under barrel GLs per team.</p> |
| <p>Sudan: Future Soldier</p>  | | <p>The Sudanese military has selected the Chinese QBZ-97 bullpup for their Future Soldier System. The Sudanese military has been using Chinese weaponry for some time now including: Type 96 main battle tank, HJ-8 anti-tank missile, Type 56 and Type 81 rifles, CQ rifle (copy of the M16A1), QJZ-89 50-cal heavy machine gun, M99 50-cal sniper rifle and the QLZ-87 automatic grenade launcher.</p> |
| <p>Sweden: MARKUS Markstridsutrustad Soldat (Swedish Project for Development and Acquisition of Equipment for Foot Soldiers)</p>  | <p>Plans finalised in 2010. Integrated Capability for MARKUS V1 from 2014. New small arms family from 2017.</p> <p> TBC</p> | <p>Acquired AeroVironment Puma AE SUAV in June. New small arms family planned from 2017. The new Carl-Gustaf® M4 multi-role weapon system has been purchased from SAAB.</p> <p> RFIs submitted in for Sweden's IGR programme, replacing/supplementing IGR 1 the PRR, Motorola LMR and IGR 2 Harris 7800 SPR. The IGR comprises 17,000 group radios and 8,000 platoon radios.</p> |

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| <p>Switzerland: IMESS (Integriertes Modulares Einsatzsystem Schweizer Soldat)</p>   | <p> Airbus won a contract for the prototype phase of the IMESS project from defence procurement agency Armasuisse in 2007, then received a CHF20 million (USD22 million) advanced production engineering contract from it in 2011, which was completed on schedule in 2014. The latter contract also included an option for series production of IMESS, valued at around USD160 million.</p> | <p>In July of 2014, Airbus Defence and Space has announced it has completed the development of the Swiss Army's planned new future soldier system and it is now ready to enter serial production.</p> <p> The next stage of the project will see the Swiss Army conduct field trials of IMESS over two years, with Airbus Defence and Space providing logistical support for the test phase.</p> <p>Subsystems of the IMESS system include: the Kongsberg TacLAN tactical high-capacity radio system (including the SR600 hand-held and vehicle-mounted VM600 short range radios); and Sagem optics, including the Sword T&D (Thermal and Day) weapon sight, as used in the French FELIN system.</p> <p>As part of its 2019 defence procurement programme, the Swiss Army recently placed an order with Rheinmetall for the VarioRay LLM laser light module. A contract to this effect was signed in December 2019 with Switzerland's Federal Office for Defence Procurement (Armasuisse). Delivery of 9,640 devices is set to commence in May 2020 and be complete by the end of 2022. The order is worth a figure in the lower two-digit euro million range.</p> <p>It also includes accessories, spare parts and training support. Rheinmetall Air Defence AG is the general contractor for the project; Rheinmetall Soldier Electronics GmbH is the manufacturer.</p> <p>Used for detecting, identifying and marking targets, the laser light modules – known as the LLM 19 in Swiss military parlance – will be mounted on soldiers' assault rifles. Weighing approximately 240 grams, the VarioRay LLM can be mounted on a MIL-STD 1913 rail on any assault rifle, and operated via a trigger cable. Together with the night vision and thermal imaging devices also acquired under the 2019 defence procurement programme, it will enable Swiss troops to perform their missions around the clock and in all weather conditions.</p> |
| <p>Thailand: SFT 21</p>  | <p>Concept phase. TBC</p> | |
| <p>United Kingdom: DCCS/FIST 2</p>  | <p>New home for FIST 1b from 2015. Currently Thales PCMO.</p> | <p>Major R&D thrust on burden reduction Goal to reduce burden to 40Kg by 2020. In mid-March 2013 Roke Manor Research Ltd, part of the Chemring Group, was awarded a three-year research contract under the Dismounted Close Combat Sensors (DCCS) Research Programme. Roke is leading a team that also includes SEA (Systems Engineering & Assessments) and QinetiQ to assess, mature and integrate innovative sensor technology for the dismounted close combat infantry soldier.</p> |

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| <p>UK: DSA/ Project Raven</p>  | <p> Raven involved Trellisware, BAE, Ultra and Black Diamond, using the US Nett Warrior BMA. Its main aim was to work out what they might need for DSA.</p> | <p>The British Army is investing more than £1 million in a hi-tech virtual reality (VR) programme that will depict hostile virtual reality environments to enable soldiers to hone their skills.</p> <p>A £1 million contract has been awarded to software developer Bohemia Interactive Simulations (BISim), which was spun-out of the games software company behind the game ARMA 3, to explore how VR can be incorporated into soldier training.</p> <p>Founded in Australia in 2001, BISim is known for developing military simulation and training software. The company employs more than 250 people in the US, UK, Australia, Germany, the Czech Republic, and Poland, and offers its products to more than 50 defence organisations to train their personnel.</p> <p>BISim's Virtual Reality in Land Training (VRLT) pilot programme aims to improve future military training by exploiting the advantages of VR technology.</p> <p>The programme will test a variety of virtual reality applications, including high resolution VR headsets to enhance environmental immersion; avatars that can be customised to imitate facial features and body structures of fellow soldiers; mixed reality enabling soldiers to interact with objects; and, technology offering analysis to help soldiers understand their own performance.</p> <p>The training programme will provide soldiers multiple hostile simulated scenarios - such as heavy crowds and cross-fires or a building occupied by enemy soldiers - which are usually difficult to create in traditional training grounds.</p> <p>The £1 million contract has been awarded via the £800 million Defence Innovation Fund, which aims to integrate advanced technology into the military frontline.</p> |
| <p>United Kingdom: FIST 3/DCC Inc 3</p>  | <p>Continuing Procurements and Contract awards.</p> | <p>Meggitt secures £13 million UK MoD small arms simulator upgrade.</p> <p> FIST enhancements to 59 of the MoD's 154 DCCTs include three simulators: an underslung grenade launcher sight, a thermal sight and a commander's target locator, for which Meggitt will provide associated ballistics and round effects for SA80/UGL rifle simulators, modifying them to accommodate new thermal sights.</p> <p>35,000 sets of kit are expected to be bought and issued between 2015 and 2020. This equipment is designed to bring the British infantryman up to standards and link with new technology currently employed, including the new underslung grenade launcher for the SA80 and the deployed Bowman communications network. It is not intended that every soldier be equipped with FIST: instead unit commanders will request FIST kits as necessary and so they can be tailored to the situation and mission aims.</p> <p>As well as linking into the new technology for the soldier it is designed to link in with other new communications including Cormorant and Talon as well as the UK UAV project called Watchkeeper.</p> |

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| <p>United States: Marine Expeditionary Rifle Squad (MERS) AKA - Gruntworks</p>   | <p>Continuing Soldier as a System approach.</p> <p> Looking at deploying up to 20,000 units by end of 2018.</p> <p>July 2019 - Ultra Electronics Advanced Tactical has been awarded a \$39.92 million, five-year, indefinite delivery/ indefinite quantity (IDIQ) contract to support the Program Executive Office, Land Systems (PEO LS), United States Marine Corps. This contract will provide software sustainment and upgrade of the Virtual Air Defense Systems Integrator (vADSI) used in the Common Aviation Command and Control System (CAC2S). The initial delivery order for 2019 will be \$2.18 million. CAC2S provides Marine Corps Marine Expeditionary Units (MEUs) and Marine Air-Ground Task Forces (MAGTFs) the ability to process and display mission critical data while automatically correlating air and ground targets allowing battlefield commanders the tactical advantage through enhanced decision-making.</p> <p>vADSI and CAC2S provides primary tactical and mission functionality that is interoperable in a Joint tactical data link environment, and meets US, UK and NATO combat mission requirements. Over the course of CAC2S development, the vADSI has been enhanced to integrate and interface with multiple tactical information systems and networks to enable CAC2S to fully support the future combat requirements of the Marine Corps.</p> | <p>The Gruntworks Squad Integration Facility showcased its latest initiatives to lighten and streamline the individual loads Marines carry into combat during the Navy League's 2015 Sea, Air, Space exposition in mid-April. On display was an advanced 3-D body scanner, a sophisticated computer simulation program, and a state-of-the art medical device commonly used by professional sports teams to measure performance and stress on joints.</p> |
| <p>United States: Nett Warrior</p>  | <p>System Approved.</p> <p> ADS Provides PEO Soldier PM GS ongoing assistance and support for Nett Warrior.</p> <p>ADS is a Prime on the DLA SOE TLS Contract, allowing us to provide PEO Soldier PM GS with much of the C4ISR equipment they require to increase mission readiness.</p> | <p>Delivery of 7000 ensembles delivered; futher 10,000 in production. Currently comprises chestmounted Samsung Galaxy S5 EUD; data power cable; prc-14 RIFLEMAND radio, DAGR; Central processor and conformal battery. Additonaly Squad power manager 5590.</p> <p> For the 2d Cavalry Regiment, Nett Warrior played a major role during Saber Strike 18, a multi-national exercise, located across four countries, encompassing 19 allied and partner nations. Through map graphics, orders and pinpoint location sharing, the system allows for quick, efficient communication from regiment to squadron command and staff teams all the way down to the platoon level.</p> <p>All 2CR tactical operations centres had the opportunity for quick situational awareness of every sister unit operation between Germany, Czech, Poland and Lithuania. This situational awareness is a rare feat to accomplish and it adds accurate planning considerations for squadrons to include in their orders.</p> |

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| United States: Air Soldier  | Strategy changed in Dec 2011. Changed from three to two increment approach. RFP issued in March 2012. Currently in EMD phase, procurement of Sub-Inc 1a in FY2014 and Sub-Inc 1b in FY2017. TBC | Air soldier goals: Reduce bulk and weight. Integrate Aviation Life Support Equipment. Improved operations in degraded visual environments. Increase operations in full MOPP and extreme temperatures. Operational and Limited User Tests led by Operational Test Command; UH-60M and CH-47F aircrews from the 25th Combat Aviation Brigade evaluated the Air SS including: LCE; Improved flight helmet; Helmet Display and Tracking System; Day/ Night Helmet Mounted Displays; Enhanced HMD Symbology. |
| United States: PEO Soldier PM Soldier Protection and Individual Equipment  | R&D and On going. TBD | The Maneuver Center of Excellence and U.S. Army Natick Soldier Research, Development and Engineering Center, are working together to find “evolutionary and revolutionary” approaches to lightening the Soldier load. Status Soldier Protection System (SPS) Soldier Protection System (SPS) replaces the capability of multiple current systems and has achieved a 10% weight reduction. |
| United States DARPA: Warrior Web  | | The Wyss Institute for Biologically Inspired Engineering at Harvard University announced that it has been awarded a first-phase \$2.9 million follow-on contract by the Defense Advanced Research Projects Agency to continue development of its Soft Exosuit. Wyss Institute will receive up to \$2.9 million to continue development of its soft exo-suit. |
| United States US Space and Naval Warfare Systems Command: Joint Effects Model (JEM) Increment 2  | On going. | General Dynamics Information Technology was awarded the Joint Effects Model (JEM) Increment 2 contract by the Space and Naval Warfare Systems Command (SPAWAR). JEM is the U.S. Department of Defense’s primary system for modeling the effects of chemical, biological, radiological and nuclear (CBRN) material releases. The cost plus fixed-fee award has a potential value of \$23.5 million over five years if all options are exercised. |
| United States: Armored Multi-Purpose Vehicle (AMPV)  | On going. BAE Systems | The initial \$382 million award, granted in December 2015, called for BAE to deliver 29 vehicles in five variants in a 52-month engineering, manufacturing and development phase that will lead to a contract to replace all of the obsolete 2,897 M113 vehicles in the Army’s Armored Brigade Combat Teams (ABCT). At AUSA Global Conference, 2015, April, Col. Mike Milner, the AMPV program manager, said he expects 180 vehicles a year from BAE. That’s enough vehicles to modernize 1.3 armored brigades a year. With 12 such brigades in the Army, the last would replace its M113s in the “late 2020s”. BAE rolled out the first prototype AMPV to the US Army in December 2016, the company stated. |
| United States: Enhanced Night Vision Goggle III and Family of Weapon Sight-Individual (ENVG III/FWS-I)  | The fully integrated ENVG III/FWS-I solution is being developed and manufactured at the company’s recently completed 47,000 square foot state-of-the-art facility in Hudson, New Hampshire. BAE Systems | The U.S. Army has awarded BAE Systems a five-year contract worth up to \$434 million for the company’s integrated night vision and thermal targeting solution, which improves the speed and accuracy of targeting by dismounted soldiers. The new offering helps troops to rapidly and covertly acquire targets in all weather and lighting conditions. In October 2016 BAE Systems was awarded a \$13.5 million order to begin producing the sights, which will cover 100 units. BAE Systems and DRS Technologies began providing the U.S. military with the Enhanced Night Vision Goggle III (ENVG III) technology in summer 2015 The long term-plan is to have 18 soldiers per platoon with the FWS-I and 24 soldier per platoon with ENVG IIIs, over the course of the programme. |

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| United States: M88A1 HERCULES Upgrade  | The U.S. Army needs to modernize the 36 M88A1 recovery vehicles to the M88A2 Heavy Equipment Recovery Combat Utility Lift Evacuation Systems (HERCULES) configuration. BAE Systems | The U.S. Army has awarded BAE Systems a contract modification worth \$109.7 million to convert 36 M88A1 recovery vehicles to the M88A2 Heavy Equipment Recovery Combat Utility Lift Evacuation Systems (HERCULES) configuration. Work on the contract is expected to begin in August by the existing workforce and will take place primarily at the company's York, Pennsylvania, and Aiken, South Carolina, facilities. Deliveries were set to begin in November 2017 and continue through August 2018. |
| United States DARPA: Positioning System for Deep Ocean Navigation (POSYDON)  | POSYDON aims to replace current navigational methods that pose a detection risk for undersea vehicles forced to surface periodically to access the space-based Global Positioning System (GPS), which cannot sufficiently penetrate seawater. In addition, access to above-water GPS may be denied by hostile signal jamming. BAE Systems | Under DARPA's POSYDON program, a BAE Systems-led team will create a positioning, navigation, and timing system designed to permit vehicles to remain underwater by using multiple, integrated, long-range acoustic sources at fixed locations around the oceans Other members of BAE Systems' POSYDON team are the University of Washington, the Massachusetts Institute of Technology, and the University of Texas at Austin. |
| United States Next Generation Squad Weapon program   | Recently the army selected three competitors for prototypes to build both an automatic rifle and a rifle with a common 6.8mm cartridge to replace the M4 for an as yet undetermined number of troops in the Army, Marine Corps and Special Operations Forces. AAI Corporation Textron Systems; General Dynamics-OTS, Inc.; and Sig Sauer, Inc. | The decision to go with an intermediate caliber between the currently fielded 5.56mm and 7.62mm calibers. That floated in the 6mm range for some time but the Army ultimately went with 6.8mm. The calendar goal is to have an infantry brigade combat team equipped with the automatic rifle, replacing the current 5.56mm Squad Automatic Weapon, by 2023. |