






## **PROGRAMMES AT A GLANCE: JUNE 2019**






- 9 Programmes updated
- 1 New Programme















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Country   Programme Name	Schedule   Contractor Team	Recent Procurement Activity   Notes
<b>Australia: Land 53</b> 	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.
<b>Australia: Land 125 Phase 3</b>  	Phase 2 completed. Phase 3 being acquired; 3A C4I, 3B Soldier Combat Ensemble and 3C is Enhanced Austeyr and STA.	Craig International Ballistics has secured a major long-term contract under Land 125 Phase 3B to supply advanced protective body armour to the Australian Defence Force. The contract involves the manufacture of around 20,000 sets of body armour for the Australian Army at a value of approximately \$49 million. The contract is for four years with a three year extension option. The delivery of rifles and ancillary devices to North Queensland under phase 3C has been completed, and deliveries were scheduled for South Queensland for the second half of 2017.   The Tier 3 TBAS plate carrier provides additional coverage of the combatant for greater protection, while the Tier 2 carrier maximises mobility and reduces the thermal burden (core temperature) of the soldier. Both tiers include the Modular Lightweight Load Carriage Equipment (MOLLE) which allows the attachment of other role-specific pouches directly onto the plate carriers. The Tiered Combat Helmet from US company Team Wendy utilises a high cut design with rails to facilitate the integration of head-borne equipment and provides protection from fragmentation, blunt force impact and rounds of up to 9mm. The helmet uses an over-ear protection system and external microphones to enable active listening, and also integrates with service radios, providing an increased level of situational awareness.
<b>Australia: Land 125 Phase 4</b> (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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<b>Australia: Land 200</b> LAND 200 is made up of phases from three projects: Land 125, Land 75 and JP 2072. 	LAND 200 Tranche 1 was endorsed by Government in November 2009. New radios and systems commenced delivery across Defence in May 2011. LAND 200 Tranche has reached full operational capability with the final delivery of all equipment. Under this Tranche, Army will receive digital Battle Management Systems for the soldier, Protected Mobility Vehicles, Unimog and G Wagon.   Elbit Systems	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.
<b>Austria: Soldat der Zukunft</b> 	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.
<b>Austria: Soldat 2018</b> 	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
<b>Belgium: BEST</b> 	Fielding is planned to begin in 2017. Combined Budgets of €150 million.   Elbit	Selected Elbit Systems Smart Vest System.   The first joint purchase under agreement between Benelux countries has been made for under USD150 million contract for the provision of Elbit's Smart Vest systems for the Benelux nation's future soldier programmes. These are Belgium's BEST programme, the Netherlands' VOSS programme, and Luxembourg's COMPASS.
<b>Brazil: Combatente Brasileiro (COBRA)</b> 	The project is expected to continue until 2021. The system will influence the decisions but will not be copied 100,000 troops by 2021.   AMBINDE Systems Integrator.	\$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.   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.

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<b>Canada: Integrated Soldier System Project (ISSP)</b> 	Rheinmetall Canada awarded a four-year contract in July 2015. 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.   Rheinmetall	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.
<b>Croatia: 'Future Soldier'</b> 	EDA/LCG/1 participation only on C4I.   Procurement for Afghanistan deployment inc. Motorola GP300, Kroko ballistic vest, Sestan Busch helmet.	New uniform and load carriage procured. First 1000 VHS 5.56mm assault rifle delivered.   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.
<b>Czech Republic: Voják 21 'V21' or Soldier 21</b> 	V21 2004-6 single demonstrator Squad level 'Sesedak' experimentation in 2007-9.   VOP-026 led V21 and 'Sesedak'.	Plans to acquire 10,000 CZ 805 Bren assault rifles, 7,000 CZ 75 Phantom pistols and 500 CZ Scorpion SMGs from 2014-2020.
<b>Denmark: 'Danish Army Network Enabled Soldier' (DANES)</b>  	May procure systems up to 2020. Hard systems by late 2018.   As equipment.	Tenders for CBRN clothing, sensor systems for handheld, headworn and weapon mounted optics, hand launched UAVs.   Parliament recently decided to increase the national defence budget by 4.5 billion kroner (600 million euros) by 2024. A reasonable percentage yet to be fully ratified will go to Modernizing and updating DANES.
<b>Finland: Now known as Warrior 2020</b> 	The system should be fielded by the end of 2019.   TP2010 includes Savox as integrator and Millog, Nethawk and Insta. 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.	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).   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.

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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><b>FELIN to become part of Scorpion as new programme title.</b></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 &amp; 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 &amp; 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>Germany: 'Gladius' IdZ-2/ES</p> 	<p>Rheinmetall formally transferred its new IdZ-ES future soldier system to the German Bundeswehr on 7 March 2013. IdZ-ES is also known as the "Gladius".</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>  Looking to equip a further 70 infantry platoons.</p>
<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>  BEL expected to be prime.</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>  <b>CANCELLED:</b> 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>








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<b>Israel: Israeli Advanced Soldier / 'Shakhar' (Dawn)</b> 	First deliveries of 'Dominador' system in 2009.   Elbit Systems prime contractor.	Elbit Systems' Dominador 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. 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.   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.
<b>Italy: Soldato Futuro</b> 	Testing completed of the 'Precursor systems'   Leonardo, Beretta & AeroSekur	L3 warrior Sensor has been selected by the Italian Ministry of Defence (MoD) to provide fusion night vision goggles as part of the country's soldier modernisation programme (Soldato Futuro). Fusion technology enables the soldier to switch from a thermal visual display to a traditional image-intensified display, or a combination of the two, without changing or adding a clip-on component to their goggle.   The Army's new standard rifle, the Beretta ARX-160, was deployed successfully in Afghanistan.
<b>Japan: ACIES</b> 	Evaluation complete. Delivery of first system in 2012-2019.   Hitachi prime; HMD by Shimadzu, NEC IR camera and Brentronics power solution.	
<b>Jordan: 'Future Soldier System'</b> 	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.



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<b>Malaysia: Future Soldier System (FSS)</b> 	To be advised.   Sapura	<p>The FSS comprises a wearable computer mounted in a backpack, a tactical display unit (TDU), a head mounted monocular display, personal role radio (PRR), remote control unit (RCU), central energy unit, and a head-mounted video camera. The system – which is integrated via physical cables as opposed to wireless connection – has been developed by Malaysian company Sapura Defence.</p> <p>The core of the assembly is the backpack computer, which can be accessed via the RCU. The RCU also enables the user to operate the radio and camera, as well as control the flow of imagery over different communications systems.</p> <p>The TDU is a chest-mounted android tablet, displaying a cut-down version of Sapura's battle management software. According to an army representative the central battery pack will provide four hours of operation with all the peripherals running, but this can be extended to eight hours if communications are restricted to voice only. The batteries are hot-swappable and can be recharged when the soldier is traveling in an armored vehicle. The PRR is the internet protocol (IP)-based Thales ST@RMille UHF software soldier radio, which weighs less than 380 g without a battery. It has an embedded GPS system and provides simultaneous voice, data, and tracking information. The system can be linked to other networks, including 3G communications and recently-acquired X-band mobile satellite communications system.</p>
<b>Netherlands: VOSS (Improved Operational Soldier System)</b>  	Smart Vest, power Supply, Load Carriage and Protection.	<p>The smart-vest has been refined and its modular approach will allow adapting it to the soldier's role. It includes all C4I equipment, such as Elbit Systems' PNR-100 software defined radio, the battery, cabling and smartphone. Ballistic protection can be added. The VOSS is currently at the end of the prototype phase, pre-production systems being now produced for deliveries in early 2019. The Netherlands will receive around 250 systems, enough to equip five platoons of the three services.</p> <p>Overall the Netherlands will acquire 5,500 VOSS systems, the Final Operational capability process being awaited to start in late 2019.</p>
<b>Netherlands: VOSS 2</b> 	Scoping Requirements.   Includes enhancement for SF requirements.	
<b>New Zealand: Soldier survivability programme of equipment (SSPE)</b> 	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.
<b>Norway: Nordic Combat Uniform</b> 	Uniform deliveries are aimed to begin in 2021   A number of contractors are believed to be interested in the contract, attending a meeting with representatives from the four countries in June 2016.	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.
<b>Norway: NORMANS Norwegian Modular Arctic Network Soldier</b> 		<b>COMPLETED</b>





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<b>Pakistan: Concept phase</b> 	TBC   TBC but inc. POF on lethality.	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.
<b>Philippines: 'Future Soldier'</b> 	Procurement under AFP Modernization Law and Battalion of Excellence programme.   Various suppliers. Recently procured new GPS, Comms, EOD Bomb Suits, AFVs and LMGs.	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).
<b>Poland: Tytan/Polish Individual Battlesystem</b>  	Three-phase R&D stage began in 2011.   Led by Bumar Group includes FB Lucznik, PCO, PSO Maskpol, Radmor, CNPEP Radwar, OBRSM Tarnow, WB Electronics and ZM Tarnow.	The Polish Minister of National Defense, Mariusz Blaszczak, signed a Technical Modernization Plan until 2026 costing an approximate 185 billion Polish zlotys (about US\$48.9 billion). The technical modernization plan is a roadmap. All modern equipment will be directed to the new 4th division of the Polish Army. 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.
<b>Portugal: Soldado do Futuro</b>  	TBC	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. 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. 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.
<b>Romania: Romanian Individual Fighting System (RIFS)</b> 	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.












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<b>Russia: RATNIK</b>  	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.
<b>Serbia: Vojnik Buducnosti-10 (Future Soldier-10)/ M21</b> 	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.
<b>Singapore: Advanced Combat Man System (ACMS)</b> 	Singapore reports three battalions fully equipped with the Advanced Combat Man System (ACMS).   ST Engineering, ST Electronics, ST Kinetics and DSTA.	
<b>Slovakia: Prokročily Individualny Bojovy System (PIBS)</b> 	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.
<b>Slovenia: 21st Century Warrior or Slovenian Warrior</b> 	Pre-study phase 1998. Study phase 1999-2005 procurement from 2002.   Various suppliers.	Not Participating in EDA work.
<b>South Africa: African Warrior</b> 	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.
<b>South Korea: Future Soldier</b> 	Concept and development phase. Acquisition from 2016 to field in 2020.   ADD led Applied Research Phase; June 2009-Dec. 2011. Concept phase led by Samsung Thales.	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.   International R&D co-operation sought in Energy Supply, Sensor Fusion and Virtual Simulation.

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<b>Spain: Combatiente Futuro (COMFUT)</b> 	Airbus (formerly Cassidian) prime contractor plus Indra Sistemas, Iturri, Amopack SL, Fedur and GMV.	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.
<b>Sri Lanka: Special Infantry Operations Team (SIOT)</b> 	Various suppliers.	Requirement for additional NV sights and navigation equipment per Team and two new under barrel GLs per team.
<b>Sudan: Future Soldier</b> 		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.
<b>Sweden: MARKUS Markstridsutrustad Soldat (Swedish Project for Development and Acquisition of Equipment for Foot Soldiers)</b> 	Plans finalised in 2010. Integrated Capability for MARKUS V1 from 2014. New small arms family from 2017.   TBC	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.   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.
<b>Switzerland: IMESS (Integriertes Modulares Einsatzsystem Schweizer Soldat)</b> 	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.	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.   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. 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.
<b>Thailand: SFT 21</b> 	Concept phase. TBC	
<b>United Kingdom: Future Integrated Soldier Technology (FIST) 1a/ DCC Inc 1</b> 		<b>FIST 1a- COMPLETED</b>

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<p>United Kingdom: DCCS/FIST 2</p> 	<p>New home for FIST 1b from 2015.   Currently Thales PCMO.</p>	<p>Major R&amp;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 &amp; Assessments) and QinetiQ to assess, mature and integrate innovative sensor technology for the dismounted close combat infantry soldier.</p>
<p>United Kingdom: DSA/ Project Raven</p>  <div style="border: 1px solid black; padding: 2px; display: inline-block; background-color: #003366; color: white; font-weight: bold;">NEW</div>	<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. 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. 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. BISim's Virtual Reality in Land Training (VRLT) pilot programme aims to improve future military training by exploiting the advantages of VR technology. 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. 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. 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>

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<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>
<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>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.</p> <p>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>
<p>United States: Land Warrior</p> 	<p>Development complete.</p>	<p><b>COMPLETED</b></p> <p>Future programme initiatives became Nett Warrior please <i>see above</i>.</p>

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<b>United States: Air Warrior</b> 		<b>COMPLETED</b>
<b>United States: Air Soldier</b> 	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.
<b>United States: PEO Soldier</b> 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.
<b>United States</b> <b>DARPA: Warrior Web</b> 		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.
<b>United States</b> <b>US Space and Naval Warfare Systems Command: Joint Effects Model (JEM) Increment 2</b> 	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.
<b>United States: Armored Multi-Purpose Vehicle (AMPV)</b> 	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.

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<b>United States:</b> 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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<b>United States:</b> 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.	
<b>United States</b> <b>DARPA:</b> 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.	