
PRESS NOTE

Leonardo first to market with multi-domain electronic warfare simulation

The new product, unveiled at the CANSEC 2022 exhibition in Ottawa, Canada, simulates complex multi-threat engagements between land, air, and naval forces.

Ottawa, 01/06/2022 – Leonardo has introduced **Newton**, a software product which simulates the latest threats to armed forces and the countermeasures they can take to improve survivability. Newton can be used to accelerate and validate the development of new electronic warfare (EW) technologies, tactics, and techniques. The virtual, physics-based environment allows new technologies to be digitally modelled and virtually tested in a true-to-life environment which replicates the battlefields of today and tomorrow.

Previously, simulations would only cover a single domain, however modern conflicts are much more likely to involve air, land, naval and even space forces in the same engagement. This is why the **EW experts** at Leonardo have assessed and evolved the company's existing simulation software to bring it up to date. Newton will be continuously updated to ensure it remains in line with the **multi-domain requirements** of modern armed forces.

Newton is also the first commercial tool on the market to simulate **integrated defensive aid suites** across the electro-optic (EO), infrared (IR) and radio frequency (RF) sensors and effectors for land, sea, and air forces. Another first-to-market feature is its ability to portray the kind of **complex multi-threat, multi-mode engagements** that armed forces will be expected to face in near-peer conflicts.

The ability to simulate a modern and congested EW environment makes Newton useful for a wide range of purposes including the development of **operational tactics** and **electronic countermeasures**, validation, support for advanced research and development and pre-operational mission simulation. Leonardo's EW software is in use by armed forces, research agencies, OEM and defence suppliers.

Newton replaces the company's Tactical Engagement Simulation Software (TESS™) product in the company's portfolio and builds on over **30 years of EW modelling and simulation experience** at the company's Ottawa-based Leonardo Canada – Electronics subsidiary. As with all of Leonardo's electronic warfare capabilities, as well as providing the product itself, Leonardo can provide training and support from a basic level all the way up to helping to **establish national EW centres of excellence** for a customer's Armed Forces.

Tech specs

Newton includes Electronic Attack, Electronic Protection and Electronic Support for Air, Land, and Sea, domains. Missile Multi-Mode Navigation, Multi-threat, Countermeasure Management System logic, Geospatial and, 2D/3D visualization, are all simulated in a physics-based and congested spectrum environment.

Newton scales to hundreds of platforms, sensors, threat, jammers, countermeasures all the while maintaining modelling fidelity. Its extensive simulation capabilities are accessed via a modern user-centric UI to provide an intuitive simulation environment. Newton's modelling includes an array of current, modern, and future threats, sensors, and jammers to provide the maximum protection of personnel and equipment.

About Leonardo Canada – Electronics

Leonardo Canada - Electronics produces EW tools, training, and consultancy for the international electronic warfare market. Leonardo Canada - Electronics' COTS simulation products are open, physics-based simulations used in more than thirty EW Operational Support Centers, Air and Maritime Warfare Centers, Intelligence Agencies, Operational Research, and EW Engineering Agencies around the world. See the full range of capabilities at: www.leonardocompany.ca

Leonardo, a global high-technology company, is among the top world players in Aerospace, Defense and Security and Italy's main industrial company. Organized into five business divisions, Leonardo has a significant industrial presence in Italy, the United Kingdom, Poland and the USA, where it also operates through subsidiaries that include Leonardo DRS (defense electronics), and joint ventures and partnerships: ATR, MBDA, Telespazio, Thales Alenia Space and Avio. Leonardo competes in the most important international markets by leveraging its areas of technological and product leadership (Helicopters, Aircraft, Aerostructures, Electronics, Cyber & Security Solutions and Space). Listed on the Milan Stock Exchange (LDO), in 2021 Leonardo recorded consolidated revenues of €14.1 billion and invested €1.8 billion in Research and Development. The company has been part of the Dow Jones Sustainability Indices (DJSI) since 2010 and has been confirmed among the global sustainability leaders in 2021. Leonardo is also included in the MIB ESG index.

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