



LEONARDO CANADA

nxt²on

Tactical Electronic Warfare
Simulation Technology

 **LEONARDO**



Newton - Electronic Warfare (EW) Modeling and Simulation (M&S) tools for air, land and naval engagements between single or collaborating platforms equipped with defensive aid systems, combat management systems or integrated self-protection suites defending against multiple multi-mode threat systems.

Newton is a powerful multi-domain physics-based modelling and simulation framework. Newton models Electronic Attack, Protection and Support equipment enabling users to evaluate and assess both single and coordinated attack and protection measures and how they can be utilized during an engagement with a kinetic effector (aka gun or missile).

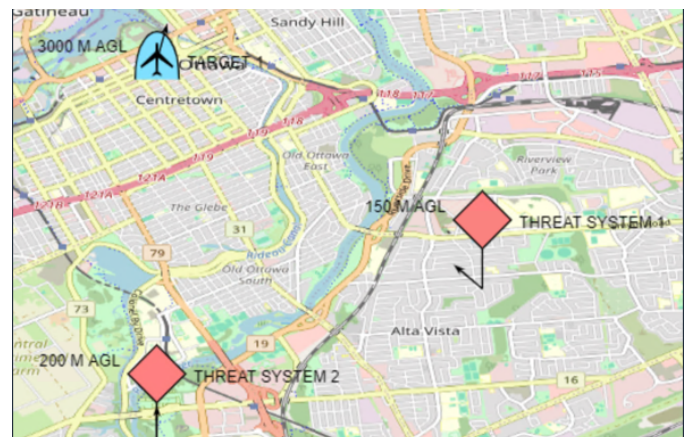
Use Cases

Newton provides flexible, low-cost and open engagement simulation solutions for:

- » Electronic Warfare Operational Support (EWOS) and Integrated Reprogramming Centers
- » Development of sovereign countermeasures (CM) expertise
- » EW Education Institutes and Training Academies
- » Development of effective self-protection tactics for improved survivability
- » Evaluating the effectiveness of EW systems
- » Software-In-The-Loop (SWIL) Simulations
- » Hardware-in-the-Loop Test and Evaluation
- » OT&E support
- » Communications and Datalink modelling
- » Reproducing EW theatre phenomena

- » Operator Training in ESM, ECM, ECCM, or RWR systems
- » Training in all aspects of EW involving electronic protection (EP), electronic attack (EA), electronic support (ES), avoidance, targeting, and any tactical employment of forces involving EW.

Newton simulation products, currently in their fifth generation, provide a standardized architecture, including uniform module interfaces across all Newton product classes. The modular Newton architecture provides ease of use for the end-user who may wish to manipulate certain aspects of the simulation to incorporate proprietary or classified algorithms or concepts and, advanced closed-loop analysis.



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