

LEONARDO ELECTRONICS

MIPS

Modular Integrated Protection System

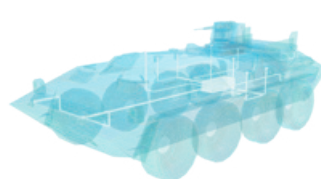
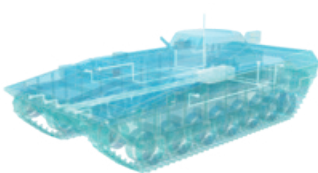
The Modular Integrated Protection System (MIPS) is being developed by a UK MoD-funded Implementation project to address active protection of military vehicles against multiple evolving threats, including Rocket Propelled Grenades (RPGs), Anti-Tank Guided Weapons (ATGWs), small Uncrewed Aerial Systems (UAS) and Electromagnetic Activities (EMA).

The MIPS Architecture will be the core framework of a new NATO STANAG 4822 - Land Defensive Aids Suite (DAS) Architecture. The MIPS Implementation project includes demonstrations of capability to validate and verify this architecture and its component interfacing technologies.

Once agreed, the Architecture Standard will allow defence authorities to configure active protection systems, built from the most capable sensor and effector modules on a standardised network, to suit different missions, vehicle types and operational theatres. Layered effects will be managed by MIPS control software assessing threats and managing countermeasure tactics in real time. By using a well-structured dependable (safe, secure, fast) network and agreed interfaces, MIPS capabilities can evolve to ensure that vehicles are deployed with the latest and most effective threat protection.

MIPS Implementation is being delivered by Team Minerva, comprising leading UK defence suppliers led by Leonardo UK as Principal System Integrator.

→ Modular system suited for all vehicle types



Key features of MIPS

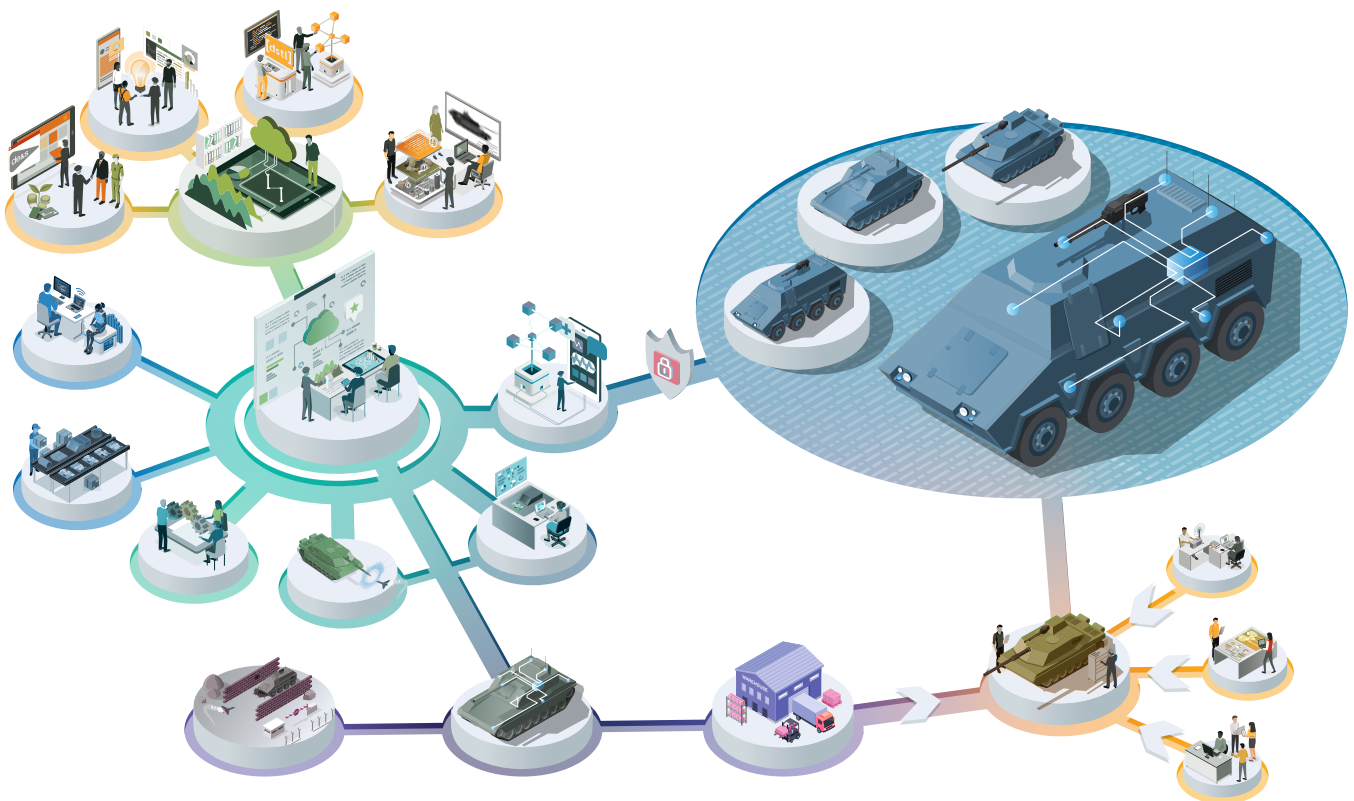
- Provides a layered response; combining soft-kill, hard-kill and crew awareness techniques to give a coordinated multi-faceted approach to vehicle protection
- A software driven modular approach to allow system configurations to evolve to counter new threats
- Allows national operational and vehicle independence at systems level, and uses class-leading Sensors and Effectors from an International supply chain
- A scalable dependable infrastructure with a pan-fleet applicability
- A low latency architecture using state-of-the art safety-certifiable control processors, and a secure physical network infrastructure
- Supports pan-fleet vehicle-agnostic delivery by a Capability Enterprise

Team Minerva

Leonardo formed Team Minerva with key UK defence companies, drawing on expertise from the Icarus project that shaped MIPS. Several team members are also aligning private investment and loaning assets while supporting the open Architecture Standard.



MIPS Capability Enterprise



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LDO_UK24_00615 08-25

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