



NATO Allied Command Transformation **Joint Force Development Experimentation & Wargaming Branch 2023 Fact Sheet – Artificial Intelligence Enabled Sensor Fusion**

- Background:** Achieving decisive overmatch requires superior battlespace awareness. Key to building this awareness is the process of collecting, processing, and fusing data from different sensors, in particular in the multi-domain context. In this project, we seek to explore the value of fusing existing sensors using machine learning. The project will produce a technical roadmap for implementing multi-sensor fusion and one or more demonstrators that will highlight and make concrete the value of this approach for select sensors. Demonstrators can be built either using live or simulated sensor data. Aspects of the problem were explored during a previous MCDC project resulting in the publication of the Guidebook for Military Uses of Artificial Intelligence, Automation & Robotics.
- Aim:** In this project we seek to explore the relative value—in terms of detection range, probability of detection, and other established measures—of using AI systems for this task.
- WDI:** Artificial Intelligence Enabled Sensor Fusion aligns under Allied Command Transformation Warfare Development Imperative (WDI) – Cross Domain Command and Integrated Multi-Domain Defence.
- Category:** Multinational Capability Development Campaign 2023-24
- Sponsors:** NATO ACT & Hungary
- Headquarters:** NATO Allied Command Transformation; Joint Force Development Directorate; Experimentation & Wargaming Branch
- EWB:** JFD EWB delivers transformation to the Alliance through the conduct of experiments and wargames. Visit www.act.nato.int/ewb-pressroom for more information, or visit us online at the CDE365 Website located on [NATO's Transformation Network](#).
- EWB Point of Contact:** MCDC National Director LTC Zdzislaw Darosz, zdzislaw.darosz@act.nato.int, +1 757-747-3719

PR Contact: Allied Command Transformation
Public Affairs Office (ACT PAO)
Address: 7857 Blandy Road, Suite 100
Norfolk, VA 23551-2490
Email: pao@act.nato.int
Telephone: +1 (757) 747-3600
Fax: +1 (757) 747-3234