

2020 Fact Sheet: Military Uses of Artificial Intelligence, Automation, and Robotics (MUAAR)

- Background:** The **Multinational Capability Development Campaign (MCDC)** series is an initiative led by the United States designed to collaboratively develop and assess concepts and capabilities to address the challenges associated with conducting joint, multinational and coalition operations.
- Capability relevance:** Artificial Intelligence, Automation, and Robotics (AA&R) has the potential to be the “fourth offset” or revolutionary means of conducting offensive and defensive operations and asymmetrically compensating for a disadvantage. It is widely accepted that the nation, or alliance, leading in AA&R will have a significant advantage over competitors.
- Capability/Deliverable:** The project will investigate uses for AA&R in competitive areas such as the electromagnetic spectrum, integrated air & missile defense, logistics, and the space, cyberspace, air, land and maritime domains. It will look at barriers to implementation/integration of AA&R capabilities and strategies to overcome those barriers.
- The project aims to provide a compendium of current/future military tasks, functions, etc. that could benefit from a blend of AA&R capabilities. It will conduct an estimate of which tasks, functions, etc. are currently poised to benefit and which would produce the largest payback in terms of efficiency, cost-savings, lethality, etc.
- NATO ACT involvement:** Co-Lead
- Headquarters:** NATO Allied Command Transformation
Joint Force Development Directorate
Operational Experimentation Branch
- OPEX:** OPEX is the intersection between Operators and Innovation. OPEX plans, designs, conducts, and analyses experiments in support of new concepts and capabilities development. Visit www.act.nato.int/opex-pressroom for more information, or visit us online at the CDE365 Website located on [NATO’s Transformation Network](#).
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- NATO HQ STRATCOM:** The Military Uses of Artificial Intelligence, Automation, and Robotics experiment aligns under the 2020 NATO Communications Strategy pillar of *NATO Protects, NATO Unites, and NATO Strengthens*.

NATO ACT STRATCOM:

The Military Uses of Artificial Intelligence, Automation, and Robotics experiment contributes to SACT's 2020 Objective #3 - *Preserve the edge of NATO's military instrument of power over our potential adversary*, and Objective #4 - *Exploit the benefits of cooperation*.

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February 2020

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