



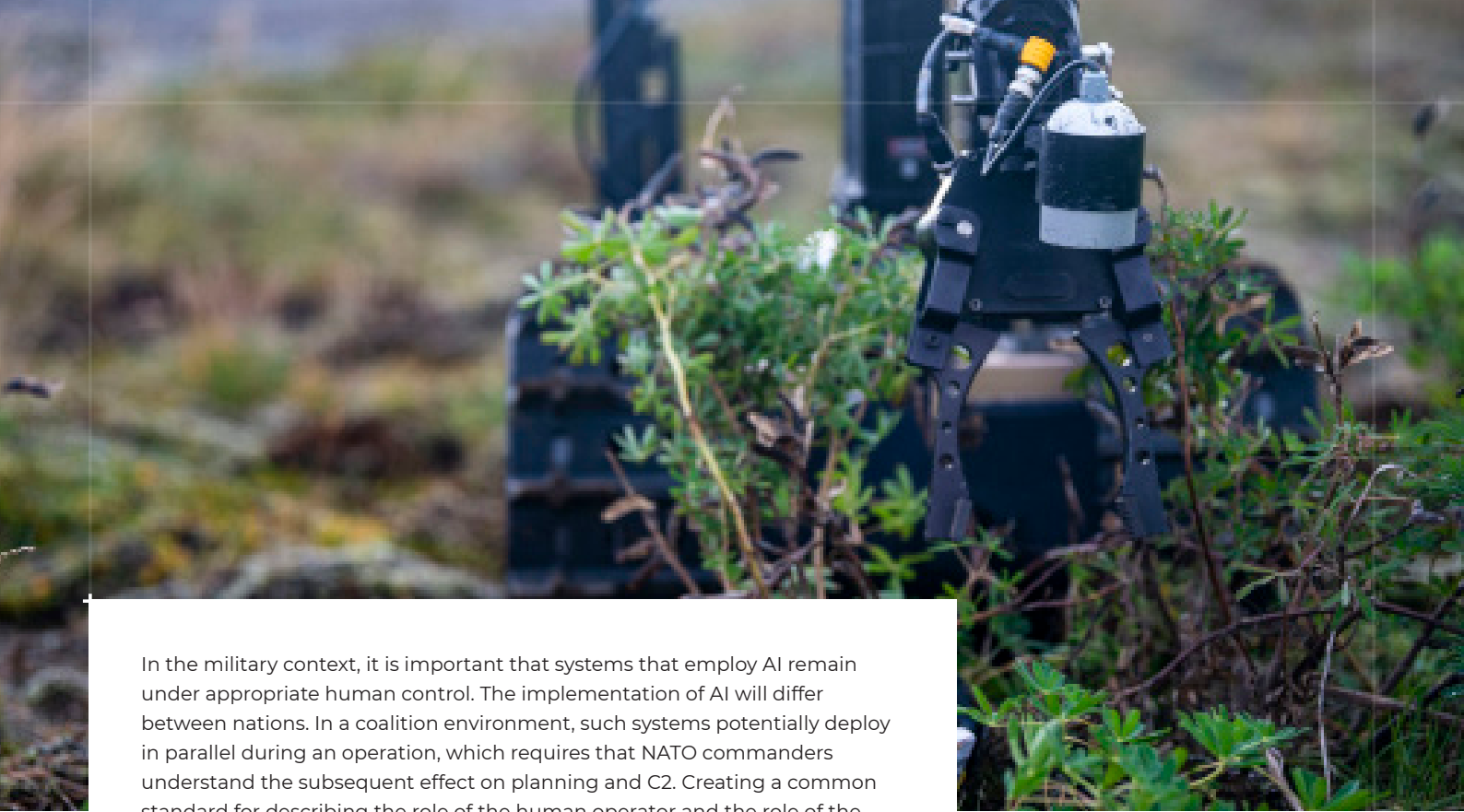
NATO STO IST-157



NATO
C2COE

Human in the loop Considerations for Artificial Intelligence C2

Work conducted by the Multinational Capability Development Campaign has concluded that “The prevalence of systems employing... [Artificial Intelligence (AI)]... is growing in the military sphere; such systems will likely become a permanent feature of military operations. The implications for military operations and capabilities are broad and significant. The role of AI in military systems is one of the most important considerations for defense policy makers in the near future. An important consideration for the design and operation of systems with autonomous capability is the level of human control in the system.”



In the military context, it is important that systems that employ AI remain under appropriate human control. The implementation of AI will differ between nations. In a coalition environment, such systems potentially deploy in parallel during an operation, which requires that NATO commanders understand the subsequent effect on planning and C2. Creating a common standard for describing the role of the human operator and the role of the machine in systems that use AI will help commanders incorporate such systems in their planning processes.

Since 2017, the NATO C2COE has participated with two C2 subject matter experts (SME) in the work of the IST-157. The goal for 2020 is to explore how the “Augmented Near real-Time Instrument for Critical Information Processing and Estimate” (ANTICIPE) AI-technology prototype affects C2 decision-making in complex situations. The test bed will be NATO’s STEADFAST JUPITER-JAGUAR Exercise. Outputs from the experimentation will inform broader IST-157 research.

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