NATO Allied Command Transformation

Joint Force Development Experimentation & Wargaming Branch Fact Sheet – STEADFAST JUPITER 2023

Background:

Exercise STJU23 is a SHAPE scheduled, Command Post Exercise and Computer Assisted Exercise, with a focus on the Joint Operational level. STJU23 will train SHAPE, JFC BS, Theatre Component Commands, JSEC, NSHQ, STRIKFORNATO, NRF24, ARRC, 1GNC, MNC SE, POL OPCOM & others in planning and conducting an Article 5 multi-JOA operation in different JOAs, with high intensity warfighting against a peer/near peer adversary. The Exercise Planning Process is underway, with the execution planned for 10-19 Oct 23.

Aim:

The following 7 x experiments currently planned for integration in Ex STJU23:

Human Considerations in Artificial Intelligence for Command and Control: Augmented Near real-Time Instrument for Critical Information Processing and Evaluation (ANTICIPE). This experiment aims to use Ex STJU23 to explore how the ANTICIPE affects C2 decision making in complex situations. It will also evaluate how an AI-enabled technology prototype affects command and control decision making, in operations. This experiment will also evaluate how an AI-enabled technology prototype affects the development, monitoring and assessment of an augmented Commanders' Critical Information Requirements process and allows high velocity Decision-Making. Project Lead – SACT Innovation Branch.

Special Operations Forces Command and Control Communication and Information System (SOF C2 CIS) Proof of Concept. The SOF C2 CIS Capability programme aims to provide a C2 CIS solution to NATO Special Operations Component Command (SOCC) and Special Operations Task Groups (SOTG), fully interoperable and compliant with Federated Mission Networking (FMN), to be used mainly by NATO Response Force (NRF). This experiment aims to use Ex STJU23 to provide specifically identified technical solutions in support of SOCC and SOTG, fully interoperable and compliant with FMN, to be used mainly by the NF. It will also finalise the SOF C2 Use Concept. Project Lead – SACT Operational Command and Control Branch.

NATO Medical Support to Operations. This experiment aims to use Ex STJU23 to validate medical planning application prototypes informing development of future medical capabilities and address risks and shortfalls identified by SHAPE JMED in the Medical Support Risk Assessment to Enablement of SACEUR's AOR, Sep 2018 (NC). It will also review Medical staff procedures to inform the evolution of medical support to operations, addressing gaps and shortfalls in SACEUR's AOR through the validation of Medical staff functions defined in MC 326/4 and reflected in the NATO Defence Planning Process (NDPP) capability code for Medical Director (MEDDIR) and appointed staff, which will inform the development of Med C3 concepts and capabilities. Project Lead – SACT Med Branch.

Resilience Training Provision Improvement (RTPI). This experiment aims to use Ex STJU23 to develop Resilience Training. Special consideration will be given to the likely evolution of resilience breakdown timelines with regards to short Phase IIIB execution to also determine the benefit of augmenting with TTX/Wargame options – and when these might optimally be scheduled. The aim will be to increase complexity & coherence of resilience stimulation such that resilience degradation has increased impact on operational conduct; measure effect IOT consolidate this in future. Project Lead – JWC Concepts, Capability Integration & Experimentation Branch.

The Integration of Gender Perspective Collective Defence. This experiment aims to use Ex STJU23 to identify the relevance of Gender Perspective Integration and the most suitable methodology for integrating and applying Gender Perspective in the design, development, conduct, and evaluation of an Article 5 exercise and assess the level of Training Audience's autonomy regarding actions related to Gender. It will also assess the use of Gender Perspective through all phases of the exercise, in order to identify the most suitable methodology. Project Lead – SACT GENAD.

Joint Concept for Operations in Cold Weather Environments. This experiment aims to use Ex STJU23 to provide NATO forces with solutions that support planning, preparation and execution of cold weather operations (CWO). Validate the Joint CWO concept solutions that support planning, preparation and execution of CWO. Prove the concept's relevance and added value for an Allied Joint Force planning and preparation. It will test if the concept results in a more effective use of joint forces in CWO and mitigate the risk to force / risk to mission in a cold weather environment. Project Lead – COE – CWO.

NATO Operational Energy Concept. This experiment aims to use Ex STJU23 to enhance energy efficiency in light of NATO's operations, to reduce dependence on traditional fossil fuels and to improve interoperability with new energy sources and technologies. The focus will be on the inefficient use of energy - Excessive dependence of NATO deployed forces on traditional fossil fuels - Interoperability of NATO deployed forces for new energy efficiency tools. It will assess & validate how energy efficient technologies (material and non-material) influence energy consumption of NATO deployed forces. It will also validate the improvements of interoperability of NATO deployed forces within the field of new energy technologies and discover the meaning of 'energy used in operations' or "operational energy" (OE) for NATO deployed force. Lay foundations for the future NATO doctrine about Energy Issues and Energy Security. Project Lead – COE – NATO Energy Security

WDI: Exercise STJU23 aligns under Allied Command Transformation Warfare Development Imperatives (WDI) – Cross Domain Command, Layered Resilience and Cognitive Superiority.

Category: Experimentation in Exercises

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.

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