



Vážení kolegové,

v tomto dokumentu máte přehled nově navržených výzkumných aktivit Organizace pro vědu a technologie NATO, kterých se mohou zúčastnit experti z České republiky.

V případě zájmu nebo upřesnění detailů některých aktivit nás můžete kdykoliv kontaktovat viz kontakty v zápatí.

Význam zkratk:

AVT – Panel Applied Vehicles Technologies

HFM – Panel Human Factors and Medicine

IST – Panel Information System Technologies

MSG – Skupina Modeling and Simulation Group

SAS – Panel System Analysis Studies

SCI – System Concept Integration

SET – Sensors Electronic Technologies

Class – označení utajované klasifikace

NU – NATO Unclassified

UU – NATO Public Release

NS – NATO Secret (bezpečnostní prověrka je vyžadována)

NR – NATO Restricted (bezpečnostní prověrka je vyžadována)

Typy aktivit:

RTG – Research Task Group

RSM – Research Specialist Meeting

RLS – Research Lecture Series

RWS – Research Workshop

RTC – Research Technical Course

ET – Exploratory Team (přípravné jednání před vlastní aktivitou s cílem stanovit cíle, obsah a záměr realizace aktivity)

ST – Specialist Team



## Návrhy nových aktivit Organizace pro vědu a technologie NATO podzim 2022

Activity Number	Activity Type	Activity Type	Class	Start Date	CZE participation
AVT-380	RTG	Ground Vehicle Ride Quality Testing And Analysis With Complex Terrain	NU	1.24	UO
AVT-381	RTG	Maintenance Modeling In UxV Design For Improved Readiness & Endurance	NU	1.24	
AVT-382	RTG	Dynamic Reconfigurable Mission Planning For Improved Readiness Of Autonomous Military Vehicles	NU	1.24	UO
AVT-383	RTG	Paint Removal Test Protocol And Application Guidelines	NU	1.24	
AVT-384	RSM	Novel Materials And Manufacturing In Military Vehicle Design	NU	1.23	
AVT-385	RLS	Multi-Fidelity Methods For Multidisciplinary Design Optimization	NU	1.23	
AVT-386	RTG	Assessment Of Vortex-Vortex Interaction And Cavitation Inception	NU	1.24	
AVT-387	RTG	Common Research Wind Tunnels For CFD Verification And Validation	NU	1.24	
AVT-388	RTG	Operation Of Unmanned Aerial Vehicles (UAVs) In Icing Environments	NU	1.24	
AVT-389	RTG	Understanding Risk Due To Reynolds Scaling Effects On The Stability And Control For Future Combat Aircraft Development	NU	1.24	
AVT-390	RTG	Vortex Flow Predictions For Stability And Control Of Missile Airframes	NU	1.24	
AVT-391	RSM	Advanced Wind Tunnel Boundary Simulation Iii	NU	1.23	
AVT-392	RTG	Assessment Of Numerical Methods For Complex Flow Over Marine Control Surfaces	NU	1.24	
AVT-393	RWS	Environmental And Thermal Barrier Coatings For Military Aircraft Engines	NU	1.23	



Activity Number	Activity Type	Activity Type	Class	Start Date	CZE participation
AVT-394	RSM	Water Sampling, Monitoring And Control/Remediation For Live-Fire Military Ranges	UU	I.23	
AVT-395	RTG	Enhanced Weapons Performance Through New Energetic Molecules/Formulations/Processing	NU	I.24	
AVT-SET-396	RSM	Technological Challenges For Hypersonic Flights	NU	I.23	
AVT-397	RTG	Sustainable Aviation Fuel (SAF) In Military Context	NU	I.23	
HFM-365	RTG	Human Capability & Survivability Enhancement: Augmenting People To Deliver An Enhanced And More Resilient Capability For Defence	NU	III.23	
HFM-IST-366	RWS	Stakeholder Involvement Methods For Ethical Legal And Societal Aspects Of Military AI	NU	I.23	
IST-201	RTG	Federated Communication And Collaboration Services At The Tactical Edge	NU	XII.22	
IST-202	RTG	Federated Tactical Networking	NU	I.23	
IST-203	RSM	Wireless Communications Standardization In NATO	UU	II.23	
MSG-209	RWS	Modelling And Simulation As A Service – Cloud Security	UU	XII.22	
MSG-210	RWS	Commercial Technologies And Games For Use In NATO And Nations	UU	I.23	
MSG-211	RTC	Modelling And Simulation Standards In NATO Federated Mission Networking	UU	VII.23	
SAS-IST-179	RTG	Semantic Representation To Enhance Exploitation Of Military Lessons Learned	NU	I.23	
SAS-MSG-180	RTG	Modelling & Simulation-Wargaming Integration For Intermediate Force Capabilities (IFC)	NU	I.23	
SAS-181	RTG	Exploiting Reinforcement Learning To Achieve Decision Advantage	UU	I.23	
SAS-182	RTG	The Effects Of Climate Change On Security	UU	I.23	
SAS-183	RTG	Energy Security Resilience, Capability And Interoperability	NU	I.23	



Activity Number	Activity Type	Activity Type	Class	Start Date	CZE participation
SCI-SET-355	RTG	Cross-Panel Collaborative Experimentation For Improved Space Situational Awareness (SSA)	NU	I.23	
SET-321	RTG	Development Of Standardized Targets For Military Search	NS	IV.23	
SET-322	RTG	Evaluation Framework For Multi-Sensor Tracking And Fusion Algorithms	NU	III.23	
SET-323	RTG	Advanced Methods For Laser Dazzle Evaluation	NR	IV.23	
SET-HFM-324	RTG	Surface And Ground Chemical Contamination Detection And Avoidance	NU	I.23	COE CBRN
SET-325	RTG	Shortwave Infrared Technology: Irradiance Measurements To Evaluate Reflective Band Systems	NU	III.23	
SET-326	RLS	STO Summer School	NU	I.23	
SET-327	RSM	Women In SET (WiS)	NU	I.23	

New Exploratory and Specialist Teams					
Activity Number	Activity Type	Activity Type	Class	Start Date	CZE participation
AVT-ET-231	ET	Criteria For Security Evaluation Of Tamper Protection Technologies For Military Systems	NU	I.23	
AVT-MSG-ET-232	ET	Machine Learning And Artificial Intelligence For Military Vehicle Design	NU	I.23	
AVT-ET-233	ET	Platform Implications For Hybrid Space Architectures For NATO Missions	NU	I.23	
AVT-ET-234	ET	Physics And Modeling Of Separated Flows Around Smoothly-Curved Bodies	NU	I.23	
AVT-ET-235	ET	Lecture Series For Computational-Experimental Collaborations For Complex Aerodynamics Analysis	NU	I.23	
AVT-ET-236	ET	Ground-Based Testing Of Powered-Lift Configurations	NU	I.23	



Activity Number	Activity Type	Activity Type	Class	Start Date	CZE participation
AVT-ET-237	ET	Emerging Propulsion Technologies For NATO Ground Vehicle Platform Systems	NU	I.23	
AVT-ET-238	ET	Munition Health Management Technologies: Technical Working Group	NU	I.23	
AVT-ET-239	ET	Per- And Polyfluoroalkyl Substances (PFAS) In The Environment: Mitigation, Remediation And Risk Management For NATO Members	NU	I.23	
HFM-ET-203 T	ET	Optimized Menstrual Health In Servicewomen	NU	I.23	
HFM-ET-204 T	ET	Additive Manufacturing To Support Forward Deployed Medical Forces- Printable On-Demand Medical Capabilities	NU	I.23	
HFM-ET-205 T	ET	Digital Mental Performance Training For Optimal Human Function	UU	I.23	
HFM-ET-206 T	ET	Biomanufacturing Of National Security Materials	NU	I.23	
HFM-ET-207 T	ET	Operational Vision In The Aircrew	NU	XII.22	
HFM-ET-208	ET	Definition Of A Methodology For The Assessment Of Sustainability Of Military Organizations, Operations And Logistics (MIL_SDG)	UU	I.23	
IST-ET-124	ET	Using An AI Maturity Model To Accelerate Successful AI Adoption	NU	I.23	
IST-ET-125	ET	Evolving Threat Landscape For Coalition AI/ML Systems	NU	I.23	
SAS-ET-FF	ET	Planning For Uncertain Defence Budget Increases	NU	XI.22	UO
SAS-ET-FG	ET	Prediction And Intelligence Analysis	NU	XII.22	UO
SAS-ET-FI	ET	Analytic Support For Military Adaptation In War	NU	I.23	
SAS-HFM-ET-FE	ET	Early Warning System For Cognitive Warfare In Cyberspace	NU	XI.22	UO, MU
SAS-HFM-ET-FH	ET	Inclusion Of Generation Z+ To Defence Organizations	NU	XII.22	



Activity Number	Activity Type	Activity Type	Class	Start Date	CZE participation
SCI-ET-063	ET	Laser Jamming Assessment And Techniques Against IR Guidance Seeker	UU	I.23	
SET-ET-131	ET	Applications Of Neuromorphic Cameras	NU	I.23	
SET-ET-132	ET	Quantum Algorithms For Data Fusion And Resources Management	NU	VI.23	
MSG-212	ST	M&S In Federated Battle Labs For Collaborative Concept Development And Experimentation (CD&E)	NU	XI.22	
MSG-213	ST	M&S In Support Of Building Resilience And Refugee Flow Management	NU	XI.22	
MSG-214	ST	M&S For Operational Mission Support	NU	XI.22	
MSG-215	ST	Cross-Domain Security In Distributed Simulation	NU	XI.22	
MSG-216	ST	AMSP-05 "Cax Handbook" Revision	NU	XI.22	
AVT-ST-009	ST	Technical Support To NATO Next Generation Rotorcraft Capability (NGRC)	NU	IV.23	