

Innovation Responses To Date

What is Ukraine Russia doing that is innovative that the U S or Allies could improve upon	Duty Position at SAG U
Drone usage	Fire Support Specialist
I would say Russia having jet powered OWADS, I think the U.S or Allies should do something like that	J34 AMD Nighttime Operator
Ukraine and Russia have demonstrated innovative use of massed drones, mobile air defense units, and integrated electronic warfare to challenge traditional defense constructs. U.S. and Allied forces could improve by accelerating C-UAS integration, enhancing mobility and dispersion of air defense assets, and strengthening resilience against electronic and cyber disruption.	Air and Missile Defense (AMD) Systems Integrator
Drone warfare is an innovation that the U.S. can improve on to better fight/defend military assets.	Personnel Specialist
"kids living in Mom's basement" are crafting new systems out of components and getting them tested and fielded in record time, with the help of universities and government programs. US Government needs to create a system or remove barriers to enable this kind of innovation.	SOK EW Advisor
UAS Drone Warfare	Night Chief of Operations (CHOPS)
use of drone warfare/ adjusting drone warfare to deal with the EW threats	EW NCOIC

Drone employment and counteraction tactics. We are way behind.	CFT East- Luhansk UAS/OPS/Fires Lead
No comment.	J-1 Adjutant
Nothing significant to report	J35 FUOPs Planner
Integration of Drones and utilization of squad and lower movements.	Dynamic Fires NCOIC
The UAS revolution and starlink communication	TMO Operator
procurement. They have the ability to push out new designs quickly. We don't have such an ability. After the major U.S arms firms had their last supper in the 90's we haven't been moving as much with innovation. We don't need great weapons that can do everything. We need good enough weapons that can be mass produced to scale	Targeting NCO
I believe their utilization of DELTA is a great way of keeping everyone informed and up to date	Forward Observer/ TMO Operator
Properly utilizing their HIMARS to the fullest by conducting what we would call RAID missions and always on the move and never utilizing the same Firing point/Hide point twice.	SAG-U Master Gunner
How quickly they adapt to emerging technologies.	ORSA

<p>Adapting force structure in response to the availability of defense articles and enemy TTPs.</p>	<p>Director, Joint Capabilities Acquisition Cell</p>
<p>Content captured in repository of lessons-learned submissions (at classified level).</p>	<p>J25</p>
<p>Ukraine's use of cheap solutions allows them to rapidly innovate, and inflict damage without over spending. I think our procurement system is set up to overpay for a 80% solution, than spend the same amount on a few 50% solutions. By buying more of the cheap solution, we are both creating a stronger demand signal, and giving us disposable gear that our Soldiers/Marines/Sailors/etc. can perform realistic training on without fear of filling out a DD-200 every time they get back from the field. This has been widely discussed with drones, but could just as easily apply to vehicles or ships. We talk about using asymmetric warfare as an advantage, but our partners and enemies seem to be gaining an advantage over us.</p>	<p>Civil Affairs Planner</p>
<p>I did not have much interaction with Ukrainians.</p>	<p>J-1 Adjutant</p>
<p>- UAS Drone employment for ISR/Strike capabilities. Everything's changed about fires. How we are using drones is different. Drone is ammunition and not a piece of equipment. Modularity versus sole source contracting. Be smart about how we contract—do not tie ourselves to contractors (this increases the price e.g., monopoly on product, which leads to lower quantity available).</p>	<p>CFT-East Fires Lead</p>
<p>Observations of Ukrainian military operations indicate that the ability to assemble, operate, and tactically employ sUAS, has become a foundational, 10-level skill for frontline soldiers. This proficiency is not limited to specialized personnel but is widespread among infantry and other ground units, enabling a high degree of tactical agility and lethality. This development represents a significant shift in the character of modern warfare and warrants a review of our own doctrine and training priorities.</p>	<p>J33 CJOC NCOIC</p>
<p>The use of drones/fiber drones is a big impact on the battlefield, and we should be learning from that.</p>	<p>EW NCO</p>

They are far more proactive than we in certain aspects of Public Affairs (Speed of release and use of Social Media) and seem to be more effective at Psychological Operations than the U.S. has traditionally been. This is a difficult correlation to make as our circumstances are different. We (The U.S.) are not the ones in the fight as the Ukrainians are. In an Apples to Apples world, we may also be as effective.	PAO
Medical logistics drones. The delivery of medical and other supplies to the FLOT and autonomous extraction of casualties really helps to mitigate the risk of more potential casualties you could experience when you must send actual people to do those jobs. Spent less time managing "battlefield stuff"	Corpsman
Additionally, the 2IIC/ISTAR capabilities. WO1 Shark sent a brief over SIPR.	CFT Lead
NEON software: picks up radio waves allowing for air movement tracking (unclass level for easy info sharing)	Air Intel Officer
I learned that across all branches we are not caught up to speed (drone wise).	JVB SEL
Utilize cheap commercial drones as observers to enable our targeting process and our fires in support of maneuver at the tactical level.	UAS OPS FIRES
UAV Tactics and drones becoming a part of Partner TTPs. Weather does hurt the use of drone.	Partner Coordination Cell NCOIC
(CUI) Drone squad implementation (CUI) Multi-purpose drones – i.e., UAS/UGV for medical missions (CUI) Front lines innovation labs. This is an in-stride opportunity to test, workshop	Aide
UAV tactics, Clever camo (e.g., how they camouflage vehicles).	Intel Analyst

<p>-Integration of UAS technology in support of maneuver. -Innovative ways of using their Delta COP. – pattern of life, sharing, automate of information (UAS assets); humans will be taken out of the loop; BDA / TPDE. Data hygiene (what is necessary) -Impact of OWADs (or any drones) on small unit tactics (transparent battle space). Cannot maneuver in large formations. Defending against it will be harder than using it in offense. -Possible impact on GPS guided munitions.</p>	CFT Director
<p>-I Learned a great deal about working with Allied Partner Forces Both NATO and Non-NATO -I had the Opportunity to listen in on partner calls on how they innovate use of aircraft in a contested environment and was able to send that back to JTAC program managers and Squadrons to utilize in next gen tactics development. -Minimize comms / comms discipline. Keep it brief, secure and obfuscating. -JTACS get info downrange before they take off to limit in-air comms. -Using crew served weapons to down FPV drones. Add shooting down FPV drones. Adding shooting down drones to all gunnery ranges. -FDOs didn't work at night and thus waited.</p>	Dynamic Fires NCOIC
<p>The integration of foreign Warfare tactics into their own thought processing while still maintaining a successful communications plan with their men on the ground and the speed at which they can execute their mission. This is impressive considering the countries involved. i. TMO Certs were revoked due to insufficient # of hours being taught by court</p>	TMO Dynamic Fires
<p>The Ukrainians getting and understanding the evolution of war and using more up to date tactics such as drone warfare and all the new age threats that are being developed and/or already created. Update doctrine, learn from Ukrainians and update our doctrine. We could plan to get training from the Ukrainians.</p>	Data Program Manager
<p>Fast acting acquisitions. Vendors have first-hand touchpoints (quick feedback loop). Vendors would embed with the units. Vendors deliver equipment directly to the users / unit.</p>	Engineer S&T

<p>Ukraine's ability to adapt and innovate quickly has been remarkable, the use of small readily available drones to repel an invading force was incredible.</p> <p>I believe that Ukraine giving their forces the freedom to alter their vehicles to combat different situations on the fly is a great idea. I would hope that, if we were defending ourselves from an invasion, we could use all the resources we would have with home advantage. Using 3D printers, having trained machinists with operators to update / improve vehicles. For HIMARS they had dry fittings that the program manager insisted they needed to fix (would have taken months of retrograde, etc.). Ukrainians ended up making their own dry fittings.</p>	<p>Maint NCOIC</p>
<ul style="list-style-type: none"> - Decentralized procurement: <ul style="list-style-type: none"> o State provided, unit fundraising; Unit Funded / Procure independently. Procure based on trust of unit. - Rapid F3EAD process: Speed is key. Rank, structure, cultural, risk tolerance. Targeting process must be re-worked. INSCOM / Bureaucracy. Mindset. Tier-1 level. - Organizational change (USF) *structure, equipment, recruitment, training*. Slow to codify changes. Unconstrained, decentralized. Requires trust and higher risk tolerance. 	<p>CAG</p>
<ul style="list-style-type: none"> - Joint Intelligence Preparation of the Environment - Use the ETAT 25 or latest to understand latest tactics, environment, etc. 	<p>0241 Tactical Imagery Analyst (Geo)</p>
<p>What I learned from the AFU during my time that we could learn from is listen to the youth. This isn't new or innovative, but it is a reminder that the desperation of the defensive during warfare is the mother of innovation and younger officers are more receptive to learning western methodology and warfare doctrine than older officers. Ukraine tends to listen to its younger officers and enlisted that have the better solution. For example, a recent development was a machine gun turret with direct feed input to down FPV drones. Ukraine and their innovations during this insurgency remind us that the defense is the point during a counterinsurgency and it's not more money that will win, but the will and persistent resistance with proper munitions and unique solutions that the opposition does not anticipate.</p>	<p>Senior Mission Manager</p>
<p>- I learned a lot in relation to real world combat related logistics, drone offensive, and defensive capabilities and how that impacts operations.</p>	<p>Ammo Log Chief</p>
<ol style="list-style-type: none"> 1. Process and expectations and policies are confusing. 2. JARB 	<p>JCAC</p>

While the SSO was not directly involved in supporting our partners in Ukraine, I have previously performed the duties of an SSO and possess extensive knowledge in personnel security (PERSEC), physical security (PHYSEC), information security (INFOSEC), and communications security (COMSEC) within a joint expeditionary environment.	SSO
Using more FMV and therefore needed some of the high-end imagery items	Intelligence
UAV TTPs (using irregular ways) (Fiber optics), patriotism, IO campaign was much better than ours	Fusion Cel
The use of automated strategies for collections purposes.	Collection Manager
Saving manpower by removing the human element while inflicting personnel losses to the enemy could provide us with an asymmetric advantage in a future war, and no one is employing that concept better than Ukraine.	CFT East Ops
UAS innovation and tactics in all services.	J2 Advisor
We need to be more innovative. The Navy in particular is very bureaucratized and regimented. Commanders do not have the leeway to experiment in systems, tactics, or other areas. New development and testing TTPs are conducted by specialized development groups and commands. The supply systems and weapons procurement are very structured. We need to be more agile and allow new ideas to be tested. Part of this means that commanders need freedom to experiment and not be adversely punished when experiments fail. Some changes will not be effective.	Deputy J3
Better training for the current battlefield environment	Intel Analyst

Drone war-fare	J639 - Interoperability
Expand development of lower tech counter UAV capabilities.	NGA Hybrid Analyst J22 JISE DST
	Strength Manager J1 SEL
	Foreign Disclosure Officer
The ability to adjust in rapid succession from lessons learned.	Mayor Cell COR
Tech development. All aspects of it. Dive into this.	J2X HUMINT Operations Cell, Operations Officer
At the tactical level, the U.S. has no idea how to deal with the proliferation of UAVs. We are taking baby steps for a threat that we've known about for years and saw the use of them in the Nagorno-Karabakh conflict prior to this conflict. Our forces are ill-prepared while we pay lip service to anti-drone defense and will suffer on the outset of our next conflict.	J4 Maintenance Officer
Not my area of expertise	J8 DEPUTY

