

## The Ukraine War has Made it Clear - How War is Conducted has Changed

The war in Ukraine has made it evident that technology has changed the very nature of how war is conducted. AGIS has monitored these changes and made changes to our CJADC2 System to react to them. See below

#	CHANGE	AGIS RESPONSE
1	GPS Jamming	Developed an independent location determination system based on use of LifeRing software and Georeferenced maps.
2	RF Communications Jamming	Teamed with Cloud WAN Solutions to provide a transport communications layer that rapidly shifts data exchange to non-jammed communications paths including Starlink..
3	Radio Frequency (RF) Targeting Mitigation	Software that substantially lessens the ability of hostile forces to RF Target our transmissions.
4	Commercial Satellite ELINT, Imagery and SAR processing and Aircraft and Ship Location data	Integrated with the COP enabling the operator to amplify received Friendly and Hostile tracks with imagery and ELINT information.
5	Satellites and their overpass times.	Integrated in a manner that permits the operators to easily view all satellite locations and determine their overpass times of Friendly, Unknown and Hostile Forces.
6	UAV Swarms	Developed software to track UAV swarms using relatively low cost Echodyne Radars and McQ sensors and integrated the radar with an integrated video camera.
7	Notify all of UAV attack	Send UAV ATTACK data to individual Soldiers Biometric Smartwatch so that they are aware of the UAV Locations relative to their location while holding their weapon.

To get the latest version of any of our Thick client apps, go to [www.agisinc.com/download](http://www.agisinc.com/download). To try our Web client system, go to either [www.liferingmilitary.com](http://www.liferingmilitary.com) or [www.liferingfirstresponder.com](http://www.liferingfirstresponder.com).

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## AGIS' Response to this Technological Revolution in Warfare

GPS jamming/deception is being extensively used by Russia to lessen the effectiveness of Western technology. To overcome this, AGIS developed software that enables the Smartphone operator to independently determine his location using his AGIS Smartphone and georeferenced maps of the area. RF Jamming is being used by both sides to lessen the capability to coordinate forces. To tackle the challenges of RF communications jamming, AGIS has teamed up with Cloud WAN Solutions to integrate a transport communications layer software package that provides automatic shifting of communications to different frequencies using different communications paths enabling communications to remain effective despite interference. The combined system has been effectively proven over a year and most recently during the Silent Swarm, Northern Strike and Flex 24 USN exercises. Both Russia and Ukraine have been using Radio Frequency (RF) target detection and then targeting the emitter with artillery or missile attack. To combat this ability AGIS has developed a means to limit RF transmissions when using either radio or cellular communications while retaining the ability to maintain the Common Operational Picture (COP) to the maximum extent possible. By reducing the regularity and predictability of our emissions, we also create a stealthier communication environment.

Ukraine is integrating US provided and other Commercial Intelligence satellite information to increase the effectiveness of its forces. AGIS has enhanced our software to enable it to process satellite data from HawkEye 360 (ELINT), BlackSky, Planet Labs, Maxar (Optical Imagery), Capella and ICEYE (Synthetic Aperture Radar (SAR)). The Imagery and SAR data can be overlaid on our COP. When needed, we selectively convert the HawkEye ELINT data to Link 16. This enables our Link 16 aircraft to observe hostile activity while operating in EMCON. Because Russia has a similar (but perhaps not as advanced) ability to use Satellite data to target US forces, AGIS has added the ability to view both hostile and friendly satellite over pass times enabling use of various methods to lessen detection.

To enhance operational capabilities against UAV swarm threats, AGIS developed advanced tracking software. We do this using Echodyne Radars, FLIR Video cameras and McQ UAV detection sensors. To ensure that our soldiers/Marines are aware of hostile and friendly UAV presence, we enable UAV location and identification data to be transmitted directly to their Smartwatches for display alerting them and allowing them to swiftly make informed decisions.

See a video of AGIS' other capabilities here <https://www.agisinc.com/videos/SFA-2024.mp4> . For more information, contact CapBeyer at [beyerm@agisinc.com](mailto:beyerm@agisinc.com) or at 561-744-3213.

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