



The Tactical Bubble: The Digital Innovation that Empowers Light Forces

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The [Army Validation and Innovation Command](#) (COMVIE), with the support of the Alpine Brigade “Julia” and Paratroopers “Folgore”, recently concluded an important phase of experimentation at the Capo Teulada Military Range in Sardinia. The exercise tested the concept of the “Tactical Bubble”, an innovative architecture of interconnected and digitally integrated systems and platforms. This system is distinguished by its ability to expand terrestrial capabilities across all domains of the battlefield, leveraging the cyber environment, satellite communication systems, and the electromagnetic spectrum.



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The “Tactical Bubble” is based on the idea of a “system of systems”, a set of technological resources, including manned and unmanned platforms, that cooperate in synergy to achieve common objectives. The system allows optimized operations in complex and dynamic scenarios, such as those characterizing modern multi-domain conflicts. The ultimate goal of this experimentation is to create a highly interconnected combat environment, capable of quickly reacting and adapting to unpredictable situations.

Details on the experimentation and cooperation among the forces involved

The exercise, coordinated by COMVIE and under the leadership of Lieutenant General Francesco Olla, involved light infantry units from the Alpine Brigade “Julia” and Paratroopers “Folgore”. These units worked together with numerous specialist assets, including the 9th Cyber Security Regiment “Rombo”, the 41st IMINT Regiment “Cordenons”, the 11th Transmission Regiment, and COMFOSE. The exercise tested a variety of new technologies, including quadcopter drones like the “Parrot” and vertical take-off platforms like “Radon” and “Xenon”. Alongside these remotely piloted platforms, modern Command and Control (C2) systems were also employed, including C2DNEVO, ARGO, and IMPERIO.



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The crucial element of the experimentation was the involvement of light infantry units, such as the Alpini and Paratroopers, in scenarios that allowed for concrete testing of the effectiveness of these technologies in a realistic operational context. For the first time at a national level, these technologies were employed in practical exercises with infantry units, testing their ability to integrate advanced systems in field operations.

Future implications and the next steps in the Army's modernization process

The result of this experimentation represents a milestone towards the creation of a modern, digital, and interconnected Army. The validation of the operational use of the tested technologies, together with the development of new technical-tactical procedures, will help improve observation, communication, and reaction capabilities in the field. These developments are essential for an army ready to respond effectively to future scenarios, where speed and adaptability are crucial.



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The “Tactical Bubble” confirms itself as a fundamental step in the evolution of the Italian Army, which is working to integrate modern technologies into its daily operations. Future experiments, planned by COMVIE, will continue to refine this system, expanding operational capabilities and enhancing interoperability between various forces and technologies. With the acceleration of the digitalization and innovation process, the Italian Army is preparing to face future challenges, with a solid base of knowledge and technological preparation.

In conclusion, the Capo Teulada exercise not only validated the “Tactical Bubble” as a tool for more effective combat but also marked the beginning of a new era for the Italian Army, where interconnection and digitalization are fundamental elements for the success of field operations.