



Artificial Intelligence Enters the Heart of the Battlefield

Published on 07/10/2025

The digital transformation of U.S. defense takes a decisive step with the integration between **Palantir** and **Picogrid**. The platform **Maven Smart System (MSS)**, developed by Palantir for the Department of Defense and valued at 1.3 billion dollars, now connects to the software **Legion by Picogrid**.

The goal is to break down the traditional information silos that slow down decision-making and provide commanders with a **unified and real-time view of the battlefield**. Sensors, drones, and tactical systems thus become nodes of an intelligent network that transmits live data to command centers, allowing for faster and more precise decisions.

As explained by Picogrid's CEO, **Zane Mountcastle**, "our focus has always been to break down data barriers to give soldiers a decisive advantage. By connecting Legion's information flows to Maven's analytics, we are delivering commanders the most complete and up-to-date picture possible of the operational field."

This evolution is part of the Pentagon's broader strategy to integrate **autonomy, artificial intelligence, and tactical connectivity** into a single digital ecosystem, capable of uniting the decision-making level with the operational level.



Legion: The Digital Bridge Between Sensors and Command

Picogrid is a company specialized in the integration of mission-critical systems, and its software **Legion** acts as a universal translator between sensors, autonomous platforms, and command networks.

During the **Scarlet Dragon** exercise, conducted by the **XVIII Airborne Corps** at Fort Bragg, the collaboration between Palantir and Picogrid was successfully validated: for the first time, data from drones and sensors deployed on the ground were transmitted in real-time directly into the Maven system.

The integration is particularly significant because it allows for the transformation of raw data from different formats and protocols — often incompatible — into usable and shareable information among units and command levels.

In other words, **Legion is the key to digital interoperability**, the necessary condition to extend artificial intelligence to the front line.

The benefits are evident: reduction of decision-making latency, greater synchronization between units, optimized use of sensors and drones, and improved situational awareness even in the most complex operations.

But challenges also arise: the security of information flows, resilience in hostile environments, and the need to ensure the reliability of AI analyses in high-intensity operational contexts.

The Future of Connected Warfare

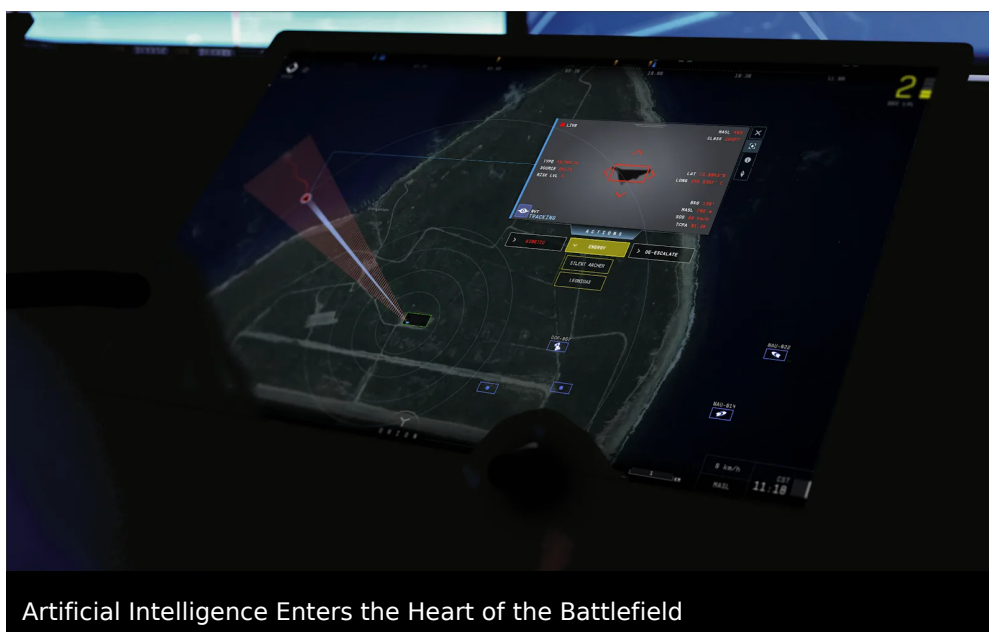
The collaboration between Palantir and Picogrid marks a turning point in **informational warfare**, where dominance does not depend solely on firepower but on the ability to understand and act faster than the adversary.

With the Maven-Legion network, AI moves out of command centers to become an integral part of tactical maneuvers. Every sensor or autonomous platform becomes a source of data useful to a distributed intelligence, capable of processing and reacting in real-time.

The next step will be the extension of this ecosystem to other domains: **maritime, aerial, and space**, with **edge computing** algorithms capable of performing inferences directly on devices in the field, without waiting for central analysis.

In parallel, integration with electronic warfare and cyber warfare modules will make the system increasingly complete and adaptable.

In perspective, the warfare of the future will be played on the **speed of data** and the **ability to translate it into operational decisions**. Maven and Legion represent the prototype of this new architecture: a connected, intelligent, and constantly evolving battlefield, where informational superiority becomes the first tool of defense.



Artificial Intelligence Enters the Heart of the Battlefield

News link: <https://nextgendefense.com/palantir-maven-picogrid-ai/>