



AI & MILITARY WARFARE

THE NEW BATTLEFRONT

How Artificial Intelligence is Reshaping Modern Combat,
Decision-Making, and the Future of Global Security

JANUARY 2026

80%

STRIKE ACCURACY

AI-guided FPV drones in Ukraine improved strike accuracy from 30-50% to approximately 80%, revolutionizing battlefield effectiveness

01 | THE RISE OF AUTONOMOUS WEAPONS



FIRST AUTONOMOUS KILL: LIBYA 2020

A Turkish-made Kargu-2 quadcopter autonomously killed a human target without operator input—a potential first in warfare history



PENTAGON REPLICATOR INITIATIVE

\$500M program aims to deploy thousands of autonomous drones by 2025-2026 to counter China's military buildup



DRONES CAUSE 70-80% CASUALTIES

In the Russia-Ukraine conflict, drone systems now account for the majority of battlefield casualties

02 | DRONE SWARM WARFARE



CHINA'S JIU TIAN MOTHERSHIP

10-ton UAV revealed at 2024 Zhuhai Airshow can deploy swarms at 560 mph with 1,200-mile range



SWEDEN'S 100-DRONE CONTROL

Saab's 2025 drone-swarming program allows soldiers to control up to 100 aircraft simultaneously



\$400 DRONES VS \$2M TANKS

In Ukraine, cheap FPV drones are destroying multi-million dollar armored vehicles, upending cost calculations

03 | AI COMMAND & CONTROL



SCALE AI'S DEFENSE LLAMA

November 2024: First classified LLM deployed to combatant commands for military decision-making



REAL-TIME TARGET TRACKING

AI systems can track targets through tunnels and buildings, predicting locations 20+ minutes in advance



SECONDS VS HOURS

AI-enabled targeting compresses the kill chain from hours to seconds, fundamentally changing warfare tempo

"This is the Oppenheimer moment of our generation."

ALEXANDER SCHALLENBERG

Austrian Foreign Minister, on AI Weapons

KEY INSIGHT: Just as nuclear weapons redefined 20th-century warfare, AI-enabled weapons are poised to transform 21st-century conflict.

The UN General Assembly voted 166-3 in December 2024 to address lethal autonomous weapons systems—only Russia, North Korea, and Belarus opposed.



THE SPEED ADVANTAGE

AI doesn't just make warfare more precise—it makes it faster. The nation that can compress the OODA loop (Observe, Orient, Decide, Act) from hours to seconds gains an insurmountable advantage.

800+

Active Pentagon AI Projects

51

Nations Signed US AI Declaration

2027

China Threat Timeline

**WHO DECIDES WHEN A MACHINE
CAN TAKE A HUMAN LIFE?**



AI IN CYBER WARFARE

- 1** **AI vs AI Combat:** Pentagon officials expect "AI versus AI" cyber activity between the US and adversaries, with machine learning enhancing both offense and defense
- 2** **DeepLocker Malware:** AI-powered malware uses deep neural networks with facial/voice recognition triggers to execute payloads —a new class of intelligent threat
- 3** **Vulnerability Amplification:** AI systems create new attack vectors —data poisoning, evasion techniques, and adversarial patches can corrupt military AI decisions

\$3B

STOLEN BY NORTH KOREA

Between 2017-2023, North Korean hackers stole ~\$3 billion in cryptocurrency using AI-enhanced cyber operations to fund their nuclear program

04 | THE GLOBAL AI ARMS RACE



CHINA: FULLY AUTONOMOUS BY 2026

Reports indicate China could deploy fully autonomous AI weapons on the battlefield within two years



RUSSIA'S ALGORITHM WARFARE

Russia already relies on algorithms to assess forces and determine courses of action—prioritizing machine speed over human control



US: GOOGLE JOINS THE FIGHT

February 2024: Google dropped its "no AI for weapons" pledge, signaling corporate America's embrace of military AI

"Whoever first learns to effectively manage swarms will gain a significant advantage in the war of the future."

UKRAINIAN DEFENSE ANALYSIS

On Drone Swarm Warfare, 2025

- Ukraine's Swarmer startup can coordinate 100+ drones in a single swarm
- 70+ Ukrainian UGVs passed battlefield testing in 2024
- Machine vision drones now bypass Russian electronic warfare



THE ETHICS DILEMMA

International Humanitarian Law requires:
Distinction (civilians vs combatants),
Proportionality (military gain vs civilian harm), and
Precaution. Can AI truly make these moral judgments?

POTENTIAL BENEFITS

- Greater targeting precision
- Reduced soldier casualties
- Unbiased war crime reporting
- Faster humanitarian response

CRITICAL RISKS

- Algorithmic bias in targeting
- Accountability gaps
- Escalation without oversight
- Civilian misidentification

**IF A MACHINE KILLS A CIVILIAN,
WHO IS RESPONSIBLE?**



05 | THE REGULATORY LANDSCAPE



UN RESOLUTION: DECEMBER 2024

166 nations voted in favor of addressing LAWS—the strongest international signal yet for AI weapons governance



US POLITICAL DECLARATION

51 nations have endorsed responsible military AI principles—but no binding international treaty exists



ARTICLE 36 REQUIREMENT

States must legally review new weapons before deployment—but AI's complexity challenges traditional assessment methods

WHAT'S COMING NEXT

- 1 **GenAI.mil:** Pentagon launched a website providing commercial LLMs to all 3 million DoD personnel—AI is now mainstream military infrastructure
- 2 **Human-Machine Teaming:** Future battles will feature command algorithms sharing decisions with human commanders, even when communications fail
- 3 **AI Air Traffic Control:** The US military is testing AI for airspace management over battlefields crowded with thousands of drones

70+

UGVS TESTED

Ukraine tested over 70 domestically developed unmanned ground vehicles in 2024—the foundation of fully autonomous battlefield robots

3 PRINCIPLES FOR AI WARFARE

1 **Meaningful Human Control:** Humans must remain in the decision loop for lethal force—machines identify, humans decide

2 **Accountability Chain:** Every AI action must be traceable to a human decision-maker who can be held legally responsible

3 **Explainable AI:** Military AI must be transparent enough that its decisions can be audited, tested, and understood

**ARE WE READY FOR A WORLD
WHERE ALGORITHMS WAGE WAR?**



JJ SHAY

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