

# Battlefield-Proven: How the Drone Revolution Maps onto WisdomTree's Physical AI, Humanoids & Drones Strategy

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## Key Takeaways

- Battlefield deployment is now the ultimate test for drone technology, and the [WisdomTree Physical AI, Humanoids, and Drones Fund \(WDRN\)](#) already holds several battle-tested leaders positioned to benefit from the rise of autonomous defense systems.
- The opportunity extends beyond drones to counter-drone technologies and critical suppliers, giving [WDRN](#) diversified exposure across the Physical AI value chain.
- While drones are today's catalyst, [WDRN](#) also captures the broader Physical AI trend across robotics, healthcare, logistics and industrial automation.

When Barron's devotes its cover story to drones, as it did over the weekend from June 27 and 28th, 2026, investment professionals take notice. The piece, titled "Cheap Drones Are Upending the Defense Sector," is not a speculative technology preview.<sup>1</sup> It is a dispatch from an active revolution. Cheap unmanned systems have already demonstrated the ability to hold superpowers at bay, neutralize \$30 million tanks with \$5,000 quadcopters, and force powerful countries to negotiating tables.

*The implications for defense investment are structural, not cyclical.*

For investors, the [WisdomTree Physical AI, Humanoids, and Drones Fund \(WDRN\)](#) deserves a closer look. Several of the companies Barron's singles out as 'battle-tested leaders' are names already inside the fund. Also, the broader analytical framework the article advances, which such criteria as battlefield credibility as the new gold standard, antidrone as the equal and opposite force, and supplier picks-and-shovels as the most durable layer of the stack, maps almost directly onto critical ideas within the strategy.

## The 'Battle-Tested' Standard

The Barron's piece advances a standard that should resonate with any serious investor in this space:

*companies whose systems have actually been deployed in Ukraine are likely to represent some of the strongest investment opportunities in the drone sector.*

It makes sense that battlefield deployment is the ultimate proof-of-concept, and that it is more rigorous than any laboratory test, and more demanding than any government evaluation process. The drone landscape today includes dozens of publicly traded companies making compelling claims. What separates those claims from demonstrated capability is the crucible of actual combat.

By that standard, we can look to four publicly traded companies that were directly mentioned:

- AeroVironment
- Aevex Aerospace
- Red Cat Holdings
- Swarmer

Two of those four, AeroVironment and Red Cat Holdings, are current holdings in [WDRN](#). AeroVironment has been a fixture in military unmanned systems for decades; its Switchblade loitering munition has been among the most discussed systems in the Ukraine conflict. Red Cat, through its Black Widow micro-drone, has become a go-to platform for small unit reconnaissance in contested environments.

The two Barron's picks not, presently, in [WDRN](#), Aevex and Swarmer, are both very recent initial public offerings (IPOs). Aevex, maker of the Phoenix Ghost kamikaze drone, went public in April 2026. Swarmer, which builds AI-driven command-and-control software for autonomous drone swarms, went public in March 2026. Both companies are compelling additions to the conversation around battlefield-proven drone technology, and both will be evaluated as part of [WDRN's](#) next scheduled quarterly rebalance in August 2026. That process is precisely how the index methodology is designed to work, identifying and incorporating emerging leaders as their track records and liquidity profiles mature. It is entirely possible that one or both names could be included at that point.

### **The Other Half of the Battle: Antidrone and Counter-Unmanned Aircraft System (UAS)**

One of the more underappreciated angles in the Barron's piece was its treatment of antidrone technology. As the article noted, drones have created their own demand signal on the defensive side. Radar jamming, edge computing that severs global positioning system (GPS) links, directed-energy weapons, and drone interceptors are all growing alongside the offensive drone market itself. This isn't a niche, and it is becoming as commercially significant as the platforms it counters.

[WDRN](#) holds two companies the article specifically highlights in this context. Ondas Holdings, with a weight of approximately 2.8% in the fund, is cited for its Iron Drone Raider system, which is a reusable interceptor that physically nets incoming drones, alongside its radio-frequency jamming capabilities. DroneShield, an Australian-listed counter-UAS specialist, appears in the fund at roughly 1.6% and focuses on radio frequency (RF) detection and neutralization systems used by militaries and critical infrastructure operators worldwide.

AeroVironment's presence in the fund also spans both sides of this equation. The Barron's article specifically called out the company's Locust laser, which is a directed-energy weapon already deployed

in operational contexts, as an example of how the most sophisticated drone companies are becoming full-spectrum solutions providers. A company that makes both the offensive platform and the defensive countermeasure occupies a structurally resilient position regardless of which side of the threat curve dominates defense budgets in a given year.

### **Picks and Shovels: The Supplier Layer**

The Barron's article made an argument that any experienced thematic investor in recent years will be likely to recognize:

*When technology is changing quickly and the competitive landscape among platform companies is uncertain, the suppliers often offer the most durable returns.*

Kratos, which is the developer of the XQ-58A Valkyrie collaborative combat aircraft and a manufacturer of propulsion systems for drones and missiles, is a holding in [WDRN](#) at approximately 1.6%. The article notes that Kratos trades like a high-growth drone company, at roughly 50 times estimated 2027 earnings, reflecting the market's view that its position in the autonomous military aircraft market is differentiated enough to resist disruption from lower-cost munitions makers.

The supplier logic extends well beyond defense primes. [WDRN](#) holds a range of component and systems providers whose technology flows into drone and autonomous systems platforms regardless of which end-platform wins commercially.

- Teledyne FLIR Defense won an \$11.2 million U.S. Army contract in June 2026 to deliver drone kits that autonomously map chemical, biological, radiological, and nuclear hazards in real time. That same unit launched Prism C'UAS in April 2026, counter-drone software combining thermal infrared processing with AI to detect small drones with fewer than four pixels on target. Teledyne is not merely a sensor supplier, it is an active participant on both sides of the drone ecosystem.<sup>2</sup>
- In March 2026, NXP Semiconductors announced a collaboration with NVIDIA combining NVIDIA's Holoscan Sensor Bridge with NXP's system-on-chips, targeting sensor fusion, machine vision, and precision motor control for humanoid and physical AI platforms. The architecture underlies drone flight controllers, collaborative robots, and autonomous vehicles alike. Allegro MicroSystems reported that robotics and automation revenue more than doubled in fiscal 2026, driven by design wins with humanoid robotics customers and broader adoption in factory automation.<sup>3</sup>
- At Automate 2026 in June, Teradyne Robotics announced a collaboration with Vention combining Universal Robots cobots with NVIDIA Isaac-powered AI for autonomous bin picking and digital twin deployment workflows. The division is simultaneously opening a U.S. Operations Hub in Wixom, Michigan in 2026 to manufacture Universal Robots cobots domestically, a direct expression of the onshoring thesis running through [WDRN's](#) construction.<sup>4</sup>

- Sensata Technologies provides mission-critical sensing and power conversion solutions across aerospace, defense, and electrified transportation. Its portfolio spans pressure, temperature, position, and motion detection in safety-critical environments where failure is not an option, and it is that durability profile that makes it a meaningful picks-and-shovels holding across autonomous platforms.

### **Beyond Drones: Physical AI Is a Broader Mandate**

It would be a mistake to read [WDRN](#) solely through the lens of a Barron's drone cover story, because the fund's mandate is deliberately wider. The "Physical AI" framing in the fund's name is not decorative, and it reflects the insight that the intelligence layer enabling autonomous drones is the same intelligence layer enabling humanoid robots, autonomous vehicles, and industrial automation systems. The fund is structured to capture the convergence of AI and physical systems across multiple form factors.

This shows up in a number of holdings that are not drone companies in any conventional sense.

- In Q1 2026, Intuitive Surgical placed 431 da Vinci surgical systems, 232 of them the latest da Vinci 5, as worldwide procedure volume grew approximately 17% year-over-year, prompting the company to raise its full-year 2026 procedure growth guidance. With over 11,000 systems installed globally and AI-enhanced digital tools deepening hospital lock-in, Intuitive is the clearest example in the portfolio of physical AI operating at clinical scale.<sup>5</sup>
- Aurora Innovation's Q1 2026 shareholder letter framed 2026 as "the year Aurora begins to scale," with the company targeting more than 200 driverless trucks in operation across the Sun Belt by year-end. Its next-generation commercial hardware kit, expected in mid-2026, is designed to cut hardware costs by more than 50% while doubling the range of its proprietary FirstLight lidar to 1,000 meters. The Aurora Driver has completed over 100,000 driverless miles on public roads with zero safety incidents attributed to the system.<sup>6</sup>
- In January 2026, Serve Robotics announced the acquisition of Diligent Robotics, whose Moxi hospital robot has completed over 1.25 million deliveries across more than 25 U.S. hospital facilities, extending Serve's autonomy platform well beyond sidewalk food delivery. By June 2026, Serve was operating a fleet of approximately 2,000 robots and had launched its first non-food commercial pilot, delivering laundry orders for NoScrubs across Los Angeles neighborhoods.<sup>7</sup>
- In April 2026, Medline became the first healthcare company to deploy Symbotic's AI-powered warehouse automation system, validating the platform's expansion beyond its retail origins. In January 2026, Symbotic acquired Walmart's Advanced Systems and Robotics division for \$200 million, with Walmart simultaneously investing \$520 million in Symbotic to deploy AI-powered robotics across its distribution network, giving the company a backlog exceeding \$5 billion.<sup>8</sup>

These companies share the same technological DNA as drone platforms, which is to say things like real-time sensor fusion, edge inference, and closed-loop control systems, but their end markets are commercial rather than defense.

The industrial robotics layer of the fund, which includes Harmonic Drive Systems, Yaskawa Electric, Fanuc, Nabtesco, Doosan Robotics, Rainbow Robotics, and Kawasaki Heavy Industries, represents the global supply chain for precision motion control that underlies nearly every category of autonomous system, from surgical robots to manufacturing cells to drone actuators. These are not exciting names from a press-release standpoint, but they are the mechanical infrastructure of the Physical AI economy.

### **The Investment Thesis, Synthesized**

The Barron's cover story is useful for investors in [WDRN](#) not because it validates specific stock picks, though the overlap is meaningful, but because it articulates why the drone and autonomous systems market could be at an inflection point. Battlefield deployment is the most demanding test any technology can face, and multiple systems in [WDRN's](#) portfolio have passed it. The antidrone market has emerged as a structural companion to drone proliferation, creating a second wave of demand within the same ecosystem. And the supplier layer, including semiconductors, sensors, propulsion, and motion control, provides exposure to the megatrend without requiring a bet on which specific platforms will dominate.

[WDRN](#) is designed to hold all three layers simultaneously, while also extending the investment thesis beyond drones into the broader Physical AI economy. The fund's top holdings span pure-play drone companies with battle-tested credentials, counter-UAS specialists operating on the other side of the same threat environment, defense-adjacent suppliers too embedded to be disrupted by any single platform shift, and Physical AI companies in non-defense verticals where the same autonomous systems technology is finding commercial traction.

One structural element of the fund deserves explicit attention:

[WDRN](#) carries zero weight to Chinese companies.<sup>9</sup>

This is not an oversight. The dominant narrative in drone hardware over the past decade has been DJI's commanding share of the commercial market, and China's broader drone industrial base remains formidable. But the policy and security environment has shifted decisively. The U.S. government has moved aggressively to restrict Chinese drone technology from federal procurement and critical infrastructure, and the broader onshoring of the drone and autonomous systems supply chain, from airframes to semiconductors to software, is now a stated national priority backed by executive action and congressional appropriations.<sup>10</sup> [WDRN](#) is built to reflect that reality. The companies in the portfolio are the beneficiaries of that supply chain realignment, not bystanders to it. Investing in [WDRN](#) is, in part, a bet that the United States is serious about building a domestic Physical AI industrial base, and that the companies doing that work will be rewarded accordingly.

When a publication with Barron's credibility puts drones on its cover and identifies the same companies as battle-tested leaders, it is reasonable to ask whether the investment case is already priced in. The more interesting question for [WDRN](#) investors may be the opposite one:

*How much of the Physical AI economy beyond drones remains underappreciated, and what happens when the same AI-and-autonomy narrative that has electrified the defense drone market begins to permeate warehouse logistics, last-mile delivery, surgical robotics, and industrial automation at comparable scale?*

**Figure 1: Companies Mentioned that Are Current WDRN Holdings**

Company	Context in Piece	WDRN Weight
Ondas Holdings	Antidrone / Iron Drone Raider	2.81%
AeroVironment	Battle-tested / antidrone (Locust)	1.68%
Red Cat Holdings	Battle-tested pick (Ukraine)	3.13%
DroneShield	Counter-UAS / antidrone	1.55%
Harmonic Drive Systems	Industrial robotics / motion control	3.68%
Yaskawa Electric	Industrial robotics / motion control	1.75%
Doosan Robotics	Industrial robotics / motion control	1.59%
Rainbow Robotics	Industrial robotics / motion control	1.59%
Nabtesco	Industrial robotics / motion control	1.33%
Fanuc	Industrial robotics / motion control	1.26%
Kawasaki Heavy Industries	Industrial robotics / motion control	0.50%
Aurora Innovation	Physical AI / autonomous systems	3.26%
Serve Robotics	Physical AI / delivery robotics	0.30%
Intuitive Surgical	Physical AI / surgical robotics	1.36%
Symbotic	Physical AI / warehouse automation	0.67%
Kratos Defense & Security	Picks-and-shovels / XQ-58A Valkyrie	1.64%
Teradyne	Supplier / picks-and-shovels	2.13%
Teledyne Technologies	Supplier / picks-and-shovels	2.07%
Allegro MicroSystems	Supplier / picks-and-shovels	1.97%
NXP Semiconductors	Supplier / picks-and-shovels	1.52%
Sensata Technologies	Supplier / picks-and-shovels	0.76%

Source: WisdomTree, specifically the WDRN fund page, with holdings and weights as of June 26, 2026.

**Subject to change.**

1 Unless otherwise noted, the source for this information is Root, A. (2026, June 24). *Cheap drones are upending the defense sector. These 4 battle-tested stocks are leading the charge.* Barron's.

2 Sources: Teledyne FLIR Defense. (2026, June 4). *Teledyne FLIR Defense awarded \$11.2 million U.S. Army contract for advanced CBRN sensor drone kits* [Press release]. *Business Wire*; Teledyne FLIR OEM. (2026, April 28). *Teledyne FLIR launches counter-drone detection software.* *Investing.com*.

3 Sources: Allegro MicroSystems. (2026). *Fiscal Year 2026 Annual Report*; NXP Semiconductors. (2026, March 16). *NXP delivers new innovations for advanced physical AI with NVIDIA.*

4 Sources: Teradyne Robotics. (2025, December 9). *Teradyne will expand its global robotics presence with new U.S. operations hub in Metro Detroit, Michigan* [Press release]. *Business Wire*; Teradyne Robotics & Vention. (2026, June 22). *Vention and Teradyne Robotics collaborate on digital twin creation platform* [Press release]. *PR Newswire*.

5 Source: Intuitive Surgical. (2026, April 21). *Intuitive announces first quarter earnings* [Form 8-K, Exhibit 99.1]. U.S. Securities and Exchange Commission.

6 Source: Aurora Innovation. (2026, May 6). *First Quarter 2026 Shareholder Letter* [Form 8-K, Exhibit 99.1]. U.S. Securities and Exchange Commission.

7 Source: Serve Robotics. (2026, June 2). *Serve Robotics continues expansion beyond food delivery, launches robotics laundry delivery with NoScrubs* [Press release]. *Globe Newswire*.

8 Sources: Medline. (2026, April 16). *Medline announces first-in-healthcare AI robotics partnership with Symbotic*. *Medline Newsroom*; Unteachable Courses. (2026, April 7). *Warehouse robots in 2026: Amazon, Ocado, Symbotic*.

9 Source: WDRN fund page. As of June 26, 2026, there were no Chinese companies in WDRN. Subject to change.

10 Sources: Trump, D. J. (2025, June 6). *Executive Order 14307: Unleashing American Drone Dominance*. The White House; U.S. Congress. (2023). *American Security Drone Act of 2023*, Section 1821, National Defense Authorization Act for Fiscal Year 2024, Pub. L. No. 118-31; U.S. Congress. (2025). *National Defense Authorization Act for Fiscal Year 2026*, Subtitle I, Sections 899A–C.

## Important Risks Related to this Article

There are risks associated with investing, including possible loss of principal. Companies engaged in Physical AI Activities are subject to unique regulatory, operational and technological risks, such as intense competition and potentially rapid product obsolescence. The regulation of such companies in the United States and other countries is diverse and rapidly evolving, which may inhibit or delay adoption. These companies are also heavily dependent on intellectual property rights and may be adversely affected by loss or impairment of those rights. Companies engaged in Physical AI Activities typically invest significant amounts of spending on research and development, and there is no guarantee that the products or services produced by these companies will be successful. Humanoid robotics companies are sensitive to trends in industrial production, capital-expenditure cycles, supply-chain conditions, and adoption rates of automation technologies across varied sectors including business and industrial end-users.

Humanoid robotics companies may have long and capital-intensive development timelines, highly uncertain paths to profitability and large-scale deployment, and limited product lines, markets, financial resources or personnel. Drone companies may be dependent on the U.S. Government and its agencies for a significant portion of their revenues, and the commercial and military adoption of drone technologies remains subject to extensive and evolving governmental oversight, including aviation safety standards, airworthiness certification requirements, export controls, and national security reviews. A fund that has a portfolio that is concentrated in the securities of issuers in a particular industry or group of related industries, may be adversely affected by the performance of those securities, and more susceptible to adverse economic, market, political, or regulatory occurrences affecting that industry or group of related industries.

Investments in non-U.S. securities involve political, regulatory, and economic risks that may not be present in U.S. securities. For example, foreign securities may be subject to risk of loss due to foreign currency fluctuations, political or economic instability, or geographic events that adversely impact issuers of foreign securities. Investments in securities and instruments traded in developing or emerging markets, or that provide exposure to such securities or markets, can involve additional risks relating to political, economic, or regulatory conditions not associated with investments in U.S. securities and instruments or investments in more developed international markets.

The Fund invests in the securities included in, or representative of, its Index regardless of their investment merit and the Fund does not attempt to outperform its Index. The composition of the Index is governed by an Index Committee and the Index may not perform as intended. Please read the Fund's prospectus for specific details regarding the Fund's risk profile.