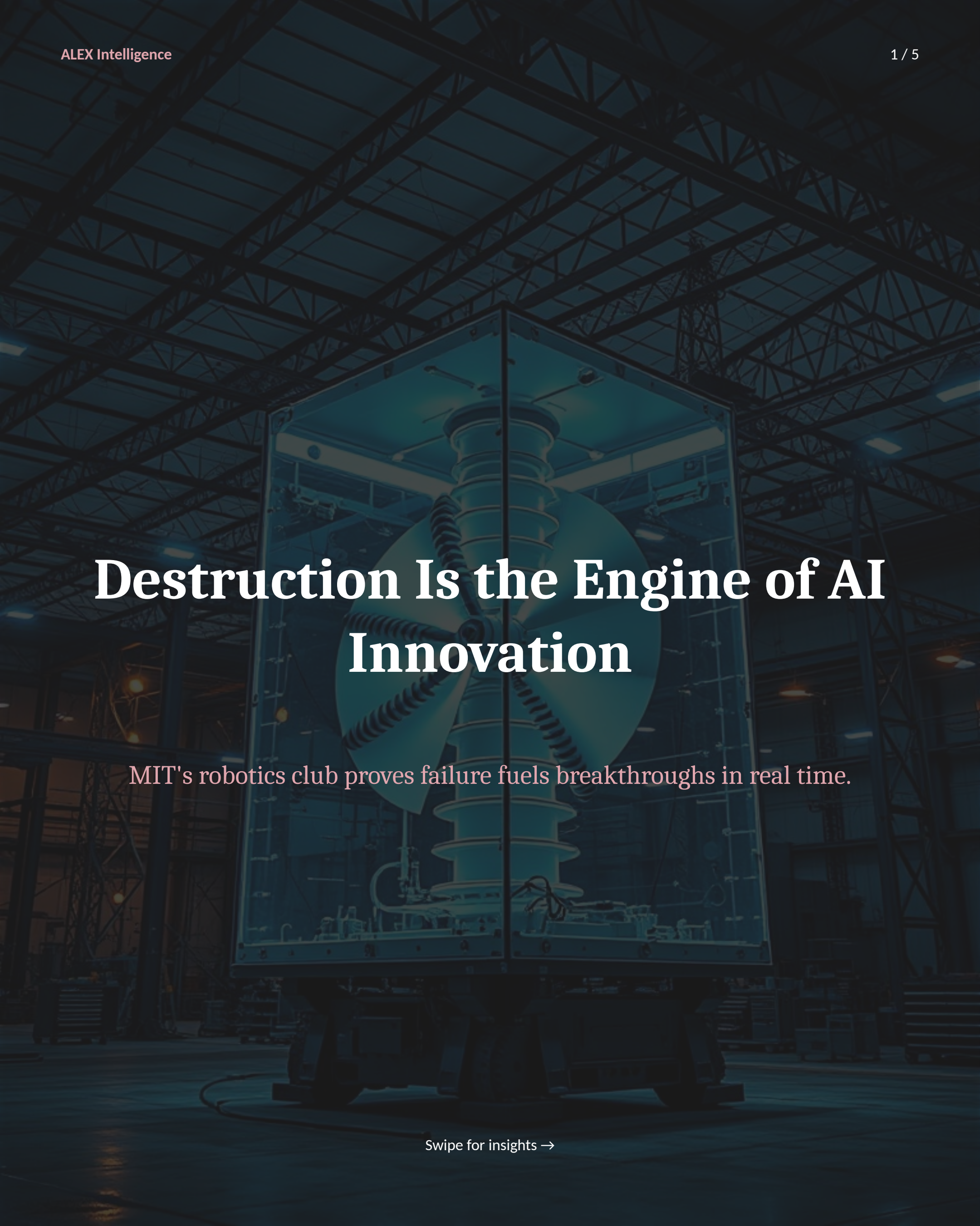


Destruction Is the Engine of AI Innovation

MIT's robotics club proves failure fuels breakthroughs in real time.

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THE DATA

2025

NHRL World Championships

The year ARES, MIT's combat robot, competed at the National Havoc Robot League world championships.

In 2025, MIT's ARES robot, built from steel, titanium, and aluminum, faced elite competitors in the 30-pound weight class. Despite being a top seed, it lost to two opponents with similar weapon types, revealing critical weaknesses in its armor design. These defeats were not setbacks — they were the data points that drove the next iteration of the machine.



Source: MIT News · Published November 04, 2026
https://news.mit.edu/2026/dream-build-destroy-repeat-combat-robotics-club-1104

01

Failure Is the Training Signal

In grid modeling, for instance, an AI that has ‘fought’ thousands of simulated blackouts is far more likely to prevent one than one trained only on stable conditions.



02

Resilience Is Built in the Lab, Not the Boardroom

In this sense, the future of AI in energy isn’t about preventing failure. It’s about designing systems that learn from it, evolve through it, and emerge stronger.

George Arnold Alexander III, MPA

Partner, ALEX Companies
Associate Broker, Alexander Tiffany Southwest, LLC
Licensed Broker in TX, CO, NC, AL

george@alex.realestate · +1 713.918.9951

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