

↘ Autonomy at scale: AI, multi-robots systems, and the future of defense

Harmattan AI

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Robots have become ubiquitous in recent conflicts







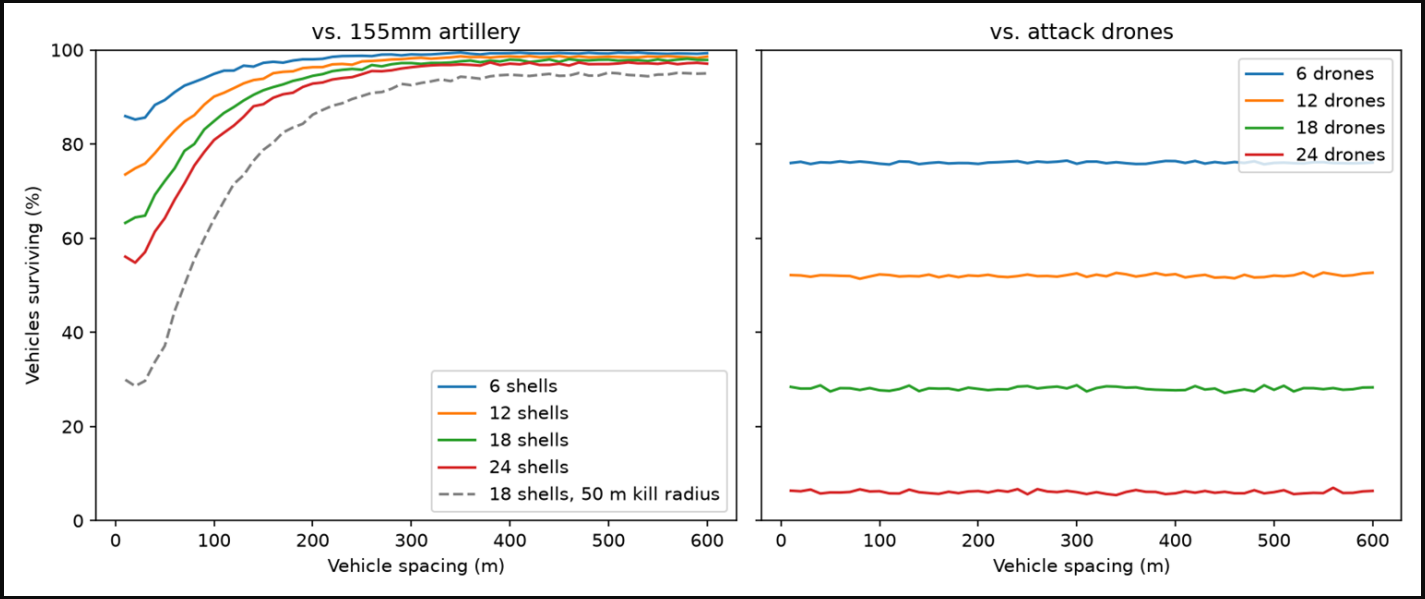


How do we defend ourselves against these new threats?

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Against robots, humans stand no chances

- multi-modal, spatially and temporally enhanced perception
- speed and precision of action
- morale



Courtesy of Modern War Institute

https://github.com/jrl-sys/Dispersion-and-Mimicry-Simulations

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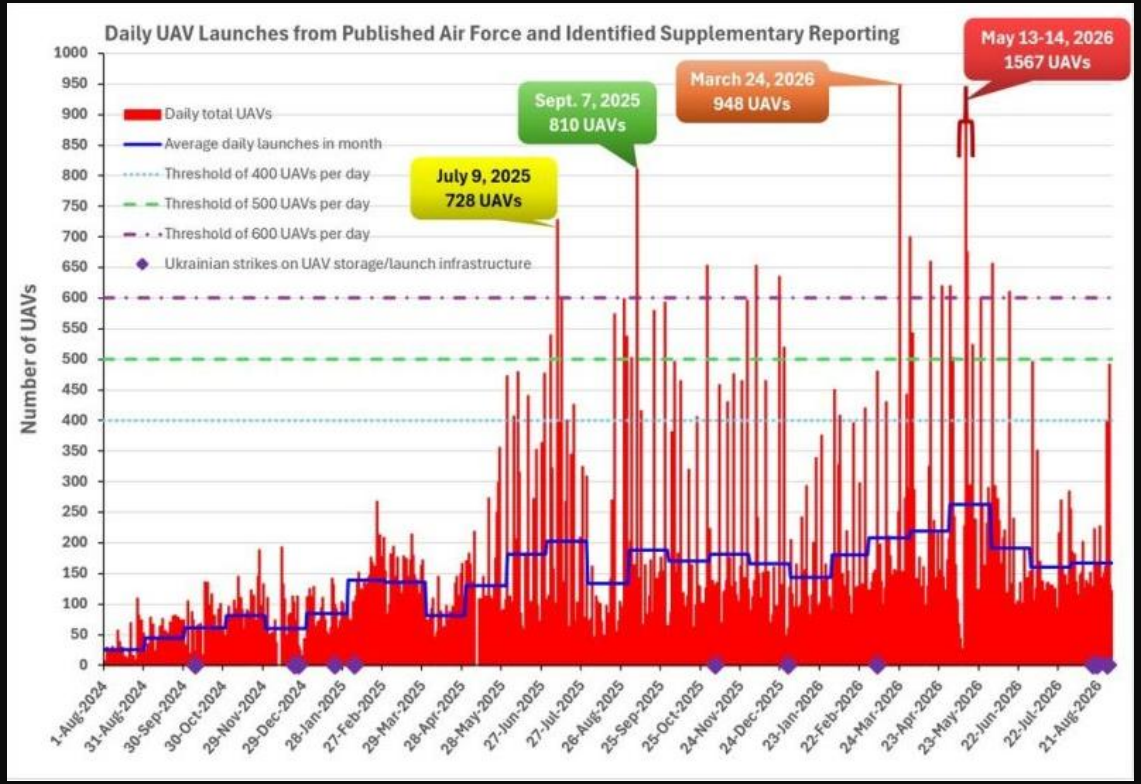
Our only chance is... other robots





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… at scale



Courtesy of Institute for Science and National Security

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Manually operated robots don’t scale





Current paradigm:

One operator = one robot

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Robot autonomy is required...



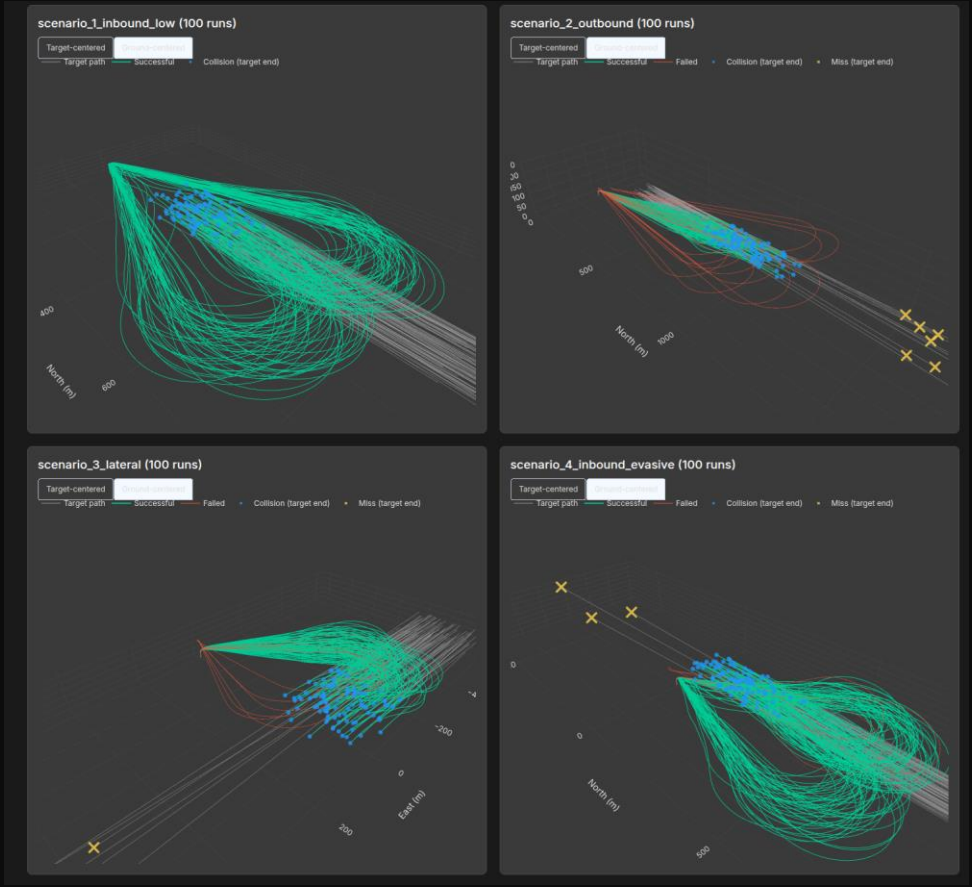
...as well as mission autonomy

New paradigm:

One operator = many robots

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AI as a key enabler for **robot** autonomy



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AI as a key enabler for **mission** autonomy

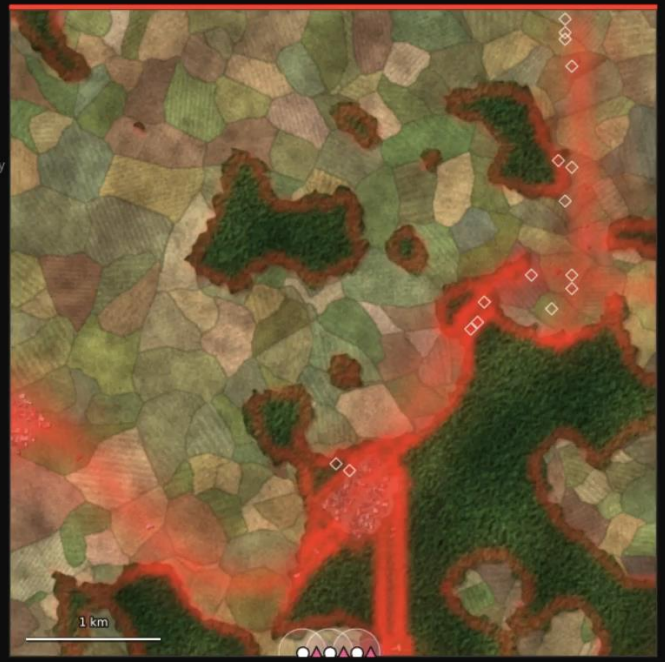


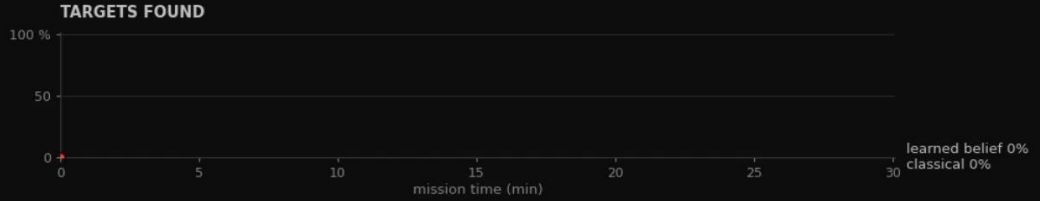
T+00:00
mission time

- EO drone
  wide swath, blind under canopy
- IR drone
  narrow swath, sees through canopy
- sensor footprint
- hidden target
- target found

TERRAIN

- open ground
- forest
- road
- built-up





CLASSICAL
0 / 16
80 % at — · concealed 0/5

LEARNED BELIEF
0 / 16
80 % at — · concealed 0/5

Autonomy brings a design opportunity

- constrained action spaces
- mission-scoped ML models
- formal logic-bound authorization



locked to the mission it was designed for

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↘ Thank you.



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