

Airborne Autonomy

At Dynetics, we anchor autonomy development to extensive domain expertise in flight system development, high fidelity modeling and simulation (M&S), and artificial intelligence and machine learning (AI/ML). We have a proven and growing suite of generalizable tools that allow us to rapidly create customizable autonomy solutions for our products and customers.

Our autonomy development teams consist of engineering domain experts, operational experts, data analysts, and agile software developers to guarantee end-to-end solutions that currently span the entire range of Technology Readiness.

Mission Planning and Execution

- Performance Prediction
- Resource Optimization

Hierarchical Command and Control Autonomy

- Heuristic features for flight safety
- Human-on-the-Loop Control
- Tunable Artificial Intelligence
- Coordinated and Collaborative Autonomy

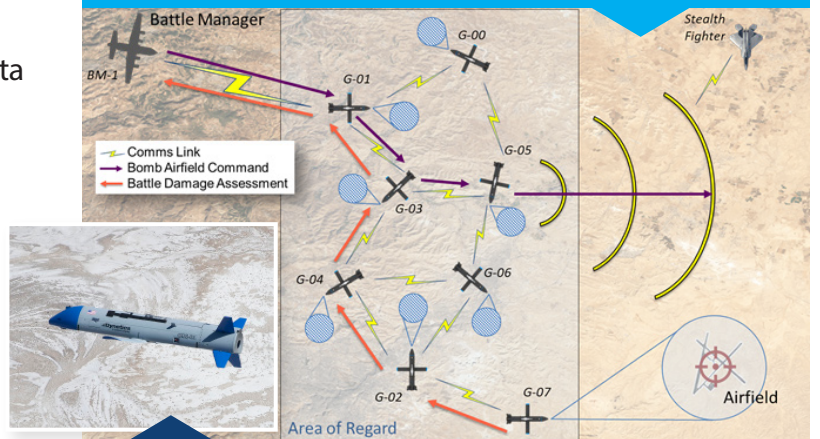
Exquisite System end-to-end kill chain management

- Sensor Usage, Processing, Analysis
- Vehicle Resource Management
- Route Management & Execution



Small Glide Munition

DARPA ACE



DARPA Gremlins

Artificial Intelligence and Machine Learning

- Numerical Optimization (Particle Swarm, Genetic Algorithms, Linear Programming)
- Machine Learning (Neural Networks, Convolutional Networks, Recurrent Networks)
- Reinforcement Learning (Q-Learning, Temporal Difference, Markov Decision Processes)

Innovating Unique Capabilities Since 1974

At Dynetics, we help customers accomplish complex, high-value missions. By combining the capabilities of a large business with the responsiveness of a small business, Dynetics put in place extensive R&D capabilities and deep technical expertise in systems engineering, systems analysis, modeling and simulation, cyber, software development, rapid prototyping, test and evaluation, manufacturing, integration, and operations. Using our considerable engineering, scientific, and other technical resources, we help customers identify, analyze, and respond to complex threats to their missions.



Automotive



Cyber & IT Solutions



GroundAware® Surveillance



Intelligence



Radars & Sensors



Space Solutions



Strike Systems



Unmanned Systems



Weapons Technology



Hypersonics



Directed Energy



Advanced Manufacturing

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