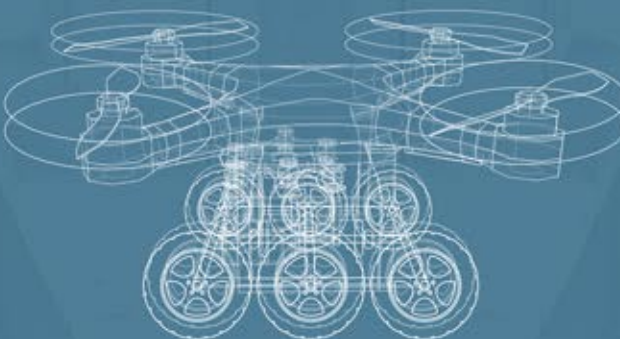












AUSTC



- Unmanned Ground Vehicle 
- Unmanned Aerial Vehicle 
- On-board Obstacle Avoidance 
- Remote Mode 

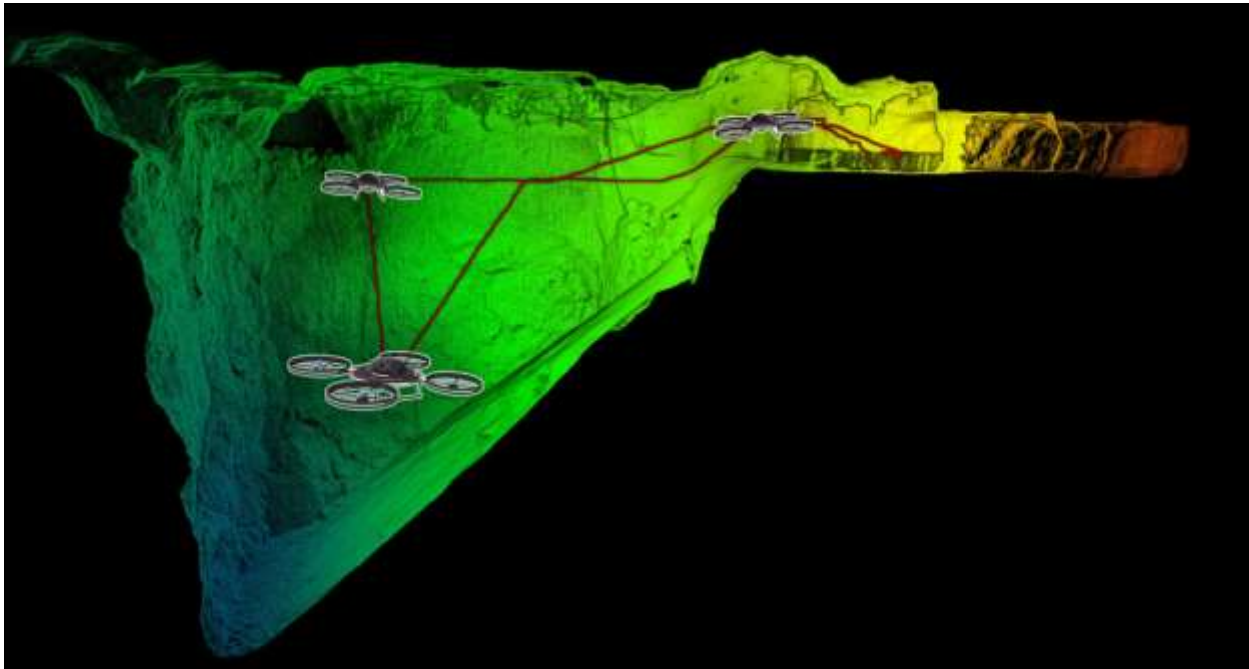
-  Drone Team Link Active
-  Performance Battery
-  Autonomously Navigates
-  Through The Earth Communications

1. Autonomously navigates and maps deep underground and provides Soldiers complete situational awareness in a GPS denied environment.
2. Complete open system architecture enables independent integration with new sensors, algorithms and software as technology improves.
3. Artificial intelligent teaming software enables multiple manned and unmanned systems in order to collaborate and provide navigation, mapping and tactical target identification such as weapons of mass destruction.
4. Onboard obstacle avoidance system autonomously selects the best path to navigate to the objective.
5. Man portable navigation and mapping system attaches to body armor or a rifle's Picatinny Rail; communicates wirelessly through a self healing IP network in collaboration with unmanned systems to provide situational awareness and navigation in a GPS denied environment.
6. Utilizes Through The Earth (TTE) communication providing the capability to communicate and receive coded images from the unmanned systems through 300 meters of solid rock.
7. Leverages cutting edge battery technology that provides 250% longer life than Li-Po by 2019 and 400% by 2021.



Accelerated Development & Support (ADS) Corporation is a small business headquartered in Arlington, Virginia with a disbursed workforce throughout the United States. ADS has built a substantial reputation as a prime contractor supporting the Office of Naval Research (ONR) in Unmanned Aerial Systems and autonomous systems for the past 10 years. Our Subject Matter Experts (SMEs) include specialists who are currently serving on the Board of Directors of the Association for Unmanned Vehicle Systems International (AUUVSI) and who are recognized thought leaders in UAS sensors, situational awareness, teaming, swarming and collaboration.

ADS is a prime contractor supporting Autonomous Unmanned Systems Teaming and Collaboration in GPS Denied (GD) Environments (AUSTC) for the Army Research and Development Center (ARDEC). This AUSTC program employs a “think-tank” and modified “skunk-works” approach to identify and determine the best path forward for new and game-changing technologies that may be available or in development to achieve US Army RDECOM-ARDEC and Defense Threat Reduction Agency’s (DTRA) mission. The growing use of tunnels and underground facilities (UGF) by military and irregular forces to gain a tactical advantage is becoming more sophisticated and effective, increasing the likelihood of U.S. Forces encountering military-purposed GD structures on future battlefields.



ADS is tasked with a wide variety of operational engineering, technical and prototyping support services to include: AUSTC architecture, algorithms, 3D/4D mapping, localization, detection, 3D visualization, engagement, collaboration, SWAM Technologies, autonomous and weaponized UAS and sensor payloads.

- Prototyping of Unmanned Aerial Vehicles (UAV), Unmanned Underwater Autonomous Vehicles (UUAV), Unmanned Underground Autonomous Vehicles (UGV) that support AUSTC’s mission.
- Software engineering, training and demonstrations, project management, systems engineering, information assurance and configuration management, strategic planning and cost analysis/cost estimating