Vision

- Imagine a day when a 911 emergency medical call immediately launches a vehicle to the aid of a victim trapped in an inaccessible location in the wilderness.
- The vehicle:
  - Self-Plans
  - Self-Files
  - Self-Launches once needed medical supplies are loaded
  - Self Navigates Safely
  - Coordinates its own refueling
  - Finds the injured victim
  - Self-Lands delivering the supplies
  - Launches and establishes communication between the victim and trained medical personnel
How we will achieve this

1. **Modular Software Architecture**
   - Top down architecture hierarchy with clearly specified interfaces

2. **Functionally Partitioned Modules**
   - Each module limited to a single safety function
   - Software isolation of Vehicle performance modeling

3. **Computational Agility**
   - Rapid assessment of vehicle situational hazards with quick and decisive mitigation of those hazards
Developmental Test & Evaluation

Common Vehicles
- Elissa

Common Hardware
- EVAA Processor

Test Ranges
- Indoor Range
- Urban Range
- Rural-Desert Range
- High-Altitude Wilderness Range
- QR4
- Urban Range
- Rural-Desert Range
- High-Altitude Wilderness Range
- Instrumented Obstacles