Product: UAS
Subsystem: N/A

Notes:
UAS = Unmanned Aerial System
UGV = Unmanned Ground Vehicle

	Market Requirements	Importance	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Market Resonce
1	The UAS shall be capable of autonomous flight.	20%			●	●	●	●				●	●			●	Very Good
2	The UAS shall be capable of avoiding static obstacles.	20%						●	●							●	Very Good
3	The UAS shall be capable of visual object classification.	20%						●		●	●					●	Very Good
4	The UAS shall be capable of delivering a payload.	20%					●	●		●	●	●	●	●		●	Very Good
5	The UAS shall be capable of safe operation.	10%					●								●	●	Good
6	The UAS shall be capable of a timely completion of the mission.	10%	●	●							●					●	Good

Performance Measures	Units	Lower Acceptable	Ideal	Upper Acceptable	Target Values
Flight Time	Minutes	3	20	40	20
Post Processing Time	Minutes	0	0	10	0
Autonomus Flight Time	Minutes	3	20	40	20
Percent of Waypoints Hit	Percent	0	100	100	100
Average Minimum Distance to Waypoint	Feet	0	0	100	5
Percent of Obstacles Hit	Percent	0	0	100	0
Percent of Correct Characteristics Identified	Percent	0	100	100	80
Percent of Images Correctly Geolocated	Percent	0	100	100	100
Percent of Objects Submitted in Flight	Percent	0	100	100	100
Percent of Objects Autonomously Submitted	Percent	0	100	100	100
Payload Drop Distance to Target Location	Feet	0	5	75	5
UGV Stop Distance to Target Location	Feet	0	0	10	5
Complies with AMA Safety Code	Yes/No	Y	Y	Y	Y
Penalties	Count	0	0	15	0

Importance	1	2	3	4	5	6	7	8	9	10	11	12	13	14
6%	●													
2%	●													
8%			●											
2%				●										
10%				●	●									
20%						●	●							
4%							●							
6%								●						
6%									●					
4%										●				
10%											●			
10%												●		
10%													●	
2%	●	●				●								●