

Product: UAS
Subsystem: N/A

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

Market Requirements					
1	The UAS shall be capable of autonomous flight.	Importance	20%	1	Market Response
2	The UAS shall be capable of avoiding static obstacles.	20%		2	Very Good
3	The UAS shall be capable of visual object classification.	20%		3	Very Good
4	The UAS shall be capable of delivering a payload.	20%		4	Very Good
5	The UAS shall be capable of safe operation.	10%		5	Good
6	The UAS shall be capable of a timely completion of the mission.	10%		6	Good

Units	Performance Measures				Target Values
Minutes	Flight Time	Importance	20%	1	20
Minutes	Post Processing Time	20%		2	0
Minutes	Autonomus Flight Time			3	20
Percent	Percent of Waypoints Hit			4	100
Feet	Average Minimum Distance to Waypoint			5	5
Percent	Percent of Obstacles Hit			6	0
Percent	Percent of Correct Characteristics Identified			7	80
Percent	Percent of Images Correctly Geolocated			8	100
Percent	Percent of Objects Submitted in Flight			9	100
Percent	Percent of Objects Autonomously Submitted			10	100
Feet	Payload Drop Distance to Target Location			11	5
Feet	UGV Stop Distance to Target Location			12	5
Yes/No	Complies with AMA Safety Code			13	Y
Count	Penalties			14	0