Unmanned Aircraft Systems Usage: In-Person Survey Conducted at What's Up Boulder Event in October 2017

Area	Possible Use	Details	Emergency	Non-Emergency	Please rate the importance of this type of use… ...to our community. (1-not important, 5-very important)					Please rate the importance of this type of use… ...to you personally. (1-not important, 5-very important)				
Public Safety	**Search and Rescue**	Reconnaissance and assist during an emergency, both for water and land operations	X		1	2	3	4	5	1	2	3	4	5
	Fire Detection	Use heat sensing cameras to identify and mitigate small fires before they become big fires	X		1	2	3	4	5	1	2	3	4	5
	Fire Fighting	Use aerial view to understand fire dynamics and develop or update mitigation strategies	X		1	2	3	4	5	1	2	3	4	5
	Toxic and Unknown Substances	Incident response in cases of possible exposure to toxic chemical or unknown substances	X		1	2	3	4	5	1	2	3	4	5
	Mobile communication	Add mobile infrastructure to systems to improve communication in austere environments	X	X	1	2	3	4	5	1	2	3	4	5
	Planning	Pre-planning for fire mitigation strategies, fuel loading, defensible features and modeling		X	1	2	3	4	5	1	2	3	4	5
	Active Shooter/Active Harmer Situations	Use UAS to support capture and mitigation of a terrorist attack, threat, or act of large scale harm	X		1	2	3	4	5	1	2	3	4	5
	Explosives	Use UAS instead of putting an officer in harms way in	X		1	2	3	4	5	1	2	3	4	5

Category	Subcategory	Description	Col A	Col B	Rating 1	Rating 2
		the case of a suspected or known explosive	X			
	Investigations	Areal imagining, crime scene documentation, accident reconstruction, 3d modeling		X	1 2 3 4 5	1 2 3 4 5
Facilities and Infrastructure	Inspections and Maintenance	Surveys and assessments of properties and assets including: power transmission infrastructure, communications infrastructure, water and waste containment, treatment and transport structures, property, and landscape	X	X	1 2 3 4 5	1 2 3 4 5
	Security	Flights and boundary patrols of secure properties and assets		X	1 2 3 4 5	1 2 3 4 5
	Modeling	Flights to assist with 3-D modeling for large scale infrastructure and transportation projects		X	1 2 3 4 5	1 2 3 4 5
	Municipal works projects	Planning for large scale transportation, utilities or other public works activities		X	1 2 3 4 5	1 2 3 4 5
Resilience	Disaster Recovery	Inspect and assess properties and assets post disaster; damage assessments	X	X	1 2 3 4 5	1 2 3 4 5
	Emergency Response	Reconnaissance for wildfire, flood and other natural disaster operations	X		1 2 3 4 5	1 2 3 4 5
	Modeling	Overflights to assist with 3-D modeling and post-disaster change detection		X	1 2 3 4 5	1 2 3 4 5
Parks & Recreation	Inspections and Maintenance	Survey and assess property and landscapes		X	1 2 3 4 5	1 2 3 4 5
Open Space and Mountain Parks	Research and Monitoring	Conducting research regarding vegetation type		X	1 2 3 4 5	1 2 3 4 5

					1 2 3 4 5	1 2 3 4 5
		and health, wildlife, streams and reservoirs		■		
	Enforcement and Investigations	Detection of illegal and hazardous activities on protected watershed lands		X	1　2　3　4　5	1　2　3　4　5
	Inspections and Maintenance	Surveys and assessments of properties and assets including: trail, landscape, and wildlife and related management infrastructures		X	1　2　3　4　5	1　2　3　4　5
	Search and Rescue	Emergency search for system users	X		1　2　3　4　5	1　2　3　4　5
Communications	**Story telling and marketing**	Capture videos and still photographs of Citywide events (Ex. BoulderBoulder)		X	1　2　3　4　5	1　2　3　4　5