

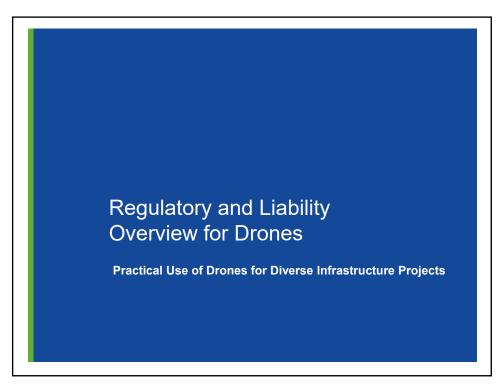
## ASCE | KNOWLEDGE & LEARNING

## Webinar Outcomes

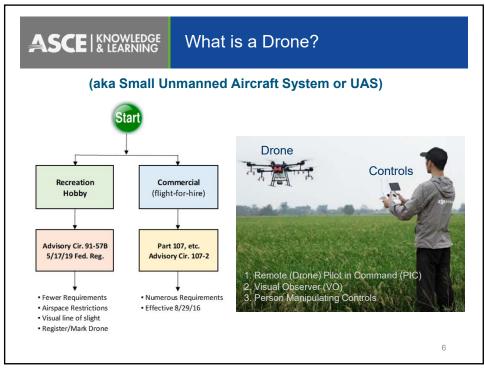
- Overview of Regulatory and Liability Concerns for Drones
- Demonstrations of Drone Capabilities and Infrastructure Opportunities
- Ability to Complete Economic Analysis of Drone Use
- Answers to Your Questions
- Obtain Webinar Certificate











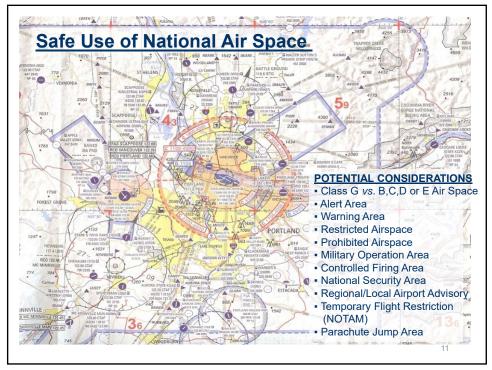


ASCE   KNOWLEDGE FA	A Op	perating Limitations	
Summary of Operating Limitations			
Remote Pilot in Command; Optional Visual Observer and/or Control-Manipulator		Fly < 100 mph (87 knots) Ground Speed	
Drone Registration		Stay < 400 ft Above Ground Level, or w/i 400 ft of Structure	
Pre-Flight Checklist and Maintenance		Minimum Visibility at Least 3 miles	
Suitable Medical Condition, No Impairment, and Carless or Reckless Operations		Stay Away from Clouds (< 500 ft vertically and 2,000 ft horizontally)	
Maintain Visual Line of Sight (VLOS)		Prohibited Operation Over People	
Class G National Air Space Limitation (no Class B, C, D, or E w/o ATC approval; TFR/NOTAMS, etc.)		Operations from Moving Vehicles in Sparsely-populated Areas Only	
Only Daylight Operations		Can Transport Property (no Haz Mats) w/ Limitations	
Total Take-off Weight < 55 lbs		Can Deviate from FAA Rules in Emergency	
Report Accidents w/i 10 Days		See also: FAA Advisory Circular No. 107-2, 6/21/16	
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ASCE   KNOWLEDGE Select	ted Operating Limitations
Key Operati	ing Limitations
Remote Pilot in Command; Optional Visual Observer and/or Control-Manipulate	Fly < 100 mph Ground Speed
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Pre-Flight Checklist and Maintenance	Minimum Visibility at Least 3 miles
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Only Daylight Operations	Can Transport Property (no Haz Mats) w/ Limitations
Total Take-off Weight < 55 lbs	Can Deviate from FAA Rules in Emergency
Report Accidents w/i 10 Days	See also: FAA Advisory Circular No. 107-2, 6/21/16









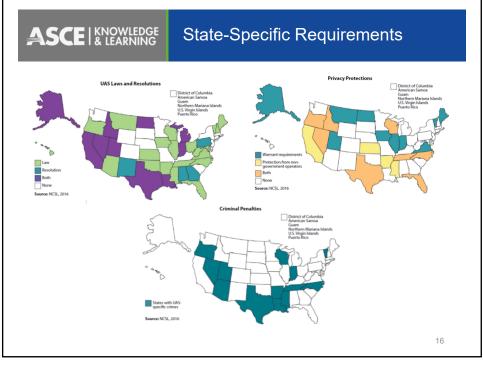






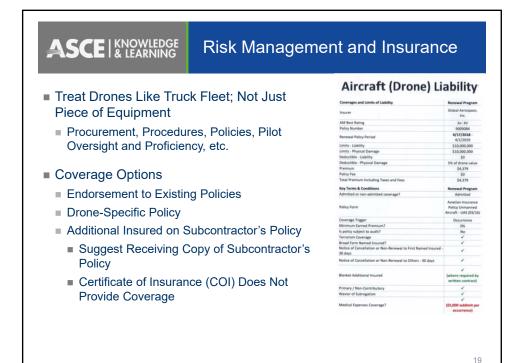


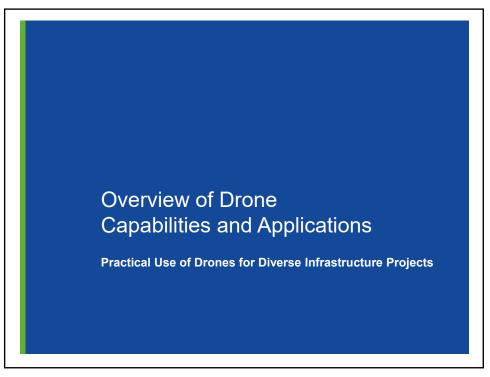














	Data G	athering Capabilities
Sensor Type	e	Typical Uses
Optical Camera (visible I	light)	Photography, photogrammetry, mapping 3D-modeling
Thermal Imaging [infrare	ed (IR)]	Building venting, broken solar panels, overheated equipment
Multispectral (visible, IR,	& UV)	Soil and vegetative assessments
Laser (LiDAR, LADAR)		Surveying, high-resolution mapping
Other Sensors/Equipme	nt	Emissions, radiation, gas, electromagnetic, vapors
Sampling Equipment		Air (hazardous environments), water, etc.
Notes: LADAR = Laser Detection and Ranging, L	iDAR = Light Detection	and Ranging, UV = Ultraviolet 22

