



EMERGING RISK INFRASTRUCTURE FROM UNMAN **AERIAL VEHICLES** (UAVs)



UAV Capability Versus Policy

+15.000 ft

ALTITUDE

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- Current FAA regulations prescribe a 400 ft. ceiling that is far below the true capability of these devices.
- Current technology devices available through retail, can reach an altitude of 1,600 ft.
- Cutting-edge technology devices available through retail, can climb to an altitude exceeding 15,000 ft.



RANGE

- FAA regulations require UAV operators keep the device within line of sight-typically within 1,000 ft. of the operator.
- Current technology allows an operator to control a UAV device up to 6 miles.
- **Cutting-edge technology allows** an operator to control
- a UAV device up to



- 55 lb. devices.
- weigh approximately 2-8 lbs.
- Cutting-edge technology can weigh 440 lbs.

13.000

- 440 lb. devices have a significantly larger payload capacity.

- view from the UAV itself.
- The capability is installed on a through retail.

Number of commercial and hobbyist sales is projected to nearly triple by 2020.



Exposed infrastructure systems and public gathering areas are vulnerable to UAV devices.



- UAVs provide adversaries with the ability to circumvent traditional physical security measures such as gates. surveillance equipment, and security guards.
- Exposed infrastructure systems (such as electrical transmission facilities, pipelines, roads, and bridges) and public gathering areas (such as stadiums and public assembly sites) are vulnerable to UAV devices.

National Protection and Programs Directorate OFFICE OF CYBER AND INFRASTRUCTURE ANALYSIS

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technology devices.

UAV aviation incidents have increased since 2012.

