

Unmanned Aircraft Systems in the Homeland Security Environment:

Webinar 3: “Policy Barriers and Challenges”



(U) World Cup Skiing Competition-December 2015

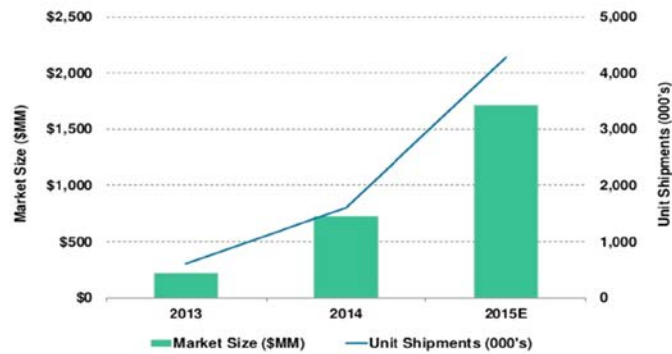


(U) Reporting Trend

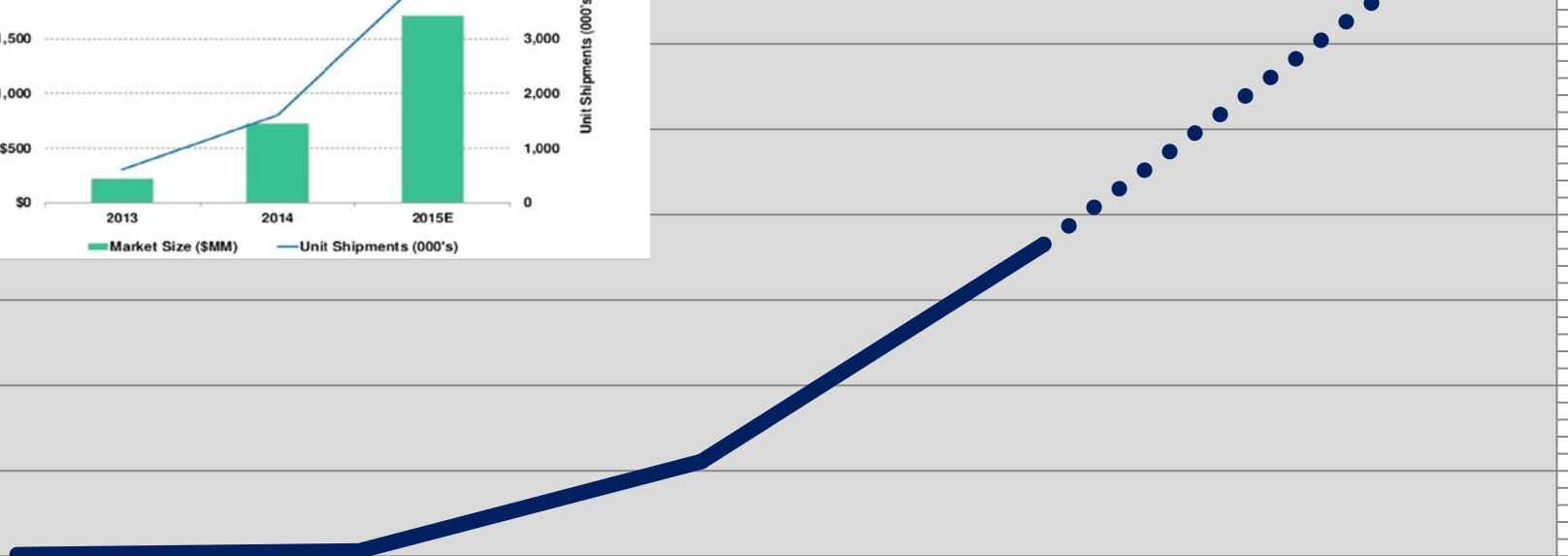
(U) Global Sales

Consumer Drone Shipments = Rising Rapidly...
 @ 4.3MM Units in 2015E, + 167% Y/Y, Revenue to \$1.7B

Global Consumer Drones – Revenue & Unit Shipments, 2013 – 2015E



(U) Domestic Incidents, Encounters, & Sightings
 2012 to 2016 (projected)



Baseline	233.3%	1750.0%	229.0%	80.7%
2012	2013	2014	2015	2016

(U) 2016—Domestic UAS Environment

(U) Regulatory:

- Interim processes for registration, waivers, and use for limited commercial applications
- Industry is looking for surety / final rules
- Emergence of State and local requirements for use, registration
- Right now, we are in the “innovation” phase---full, routine integration of manned and unmanned systems is an iterative AND lengthy process

(U) Technological:

- Evolving rapidly, however incidents highlight loss of control/integration issues
- Emerging commercial applications and commercial requirements for autonomous flight, and beyond-line-of-sight applications
- Spectrum allocation
- Sense and avoid
- Artificial intelligence-moral discrimination

(U) Social:

- Challenging concepts of privacy & property
- General unfamiliarity the capabilities and limitations

(U) Discussion

