



Forecasting and Emerging Markets - Looking in the Crystal Ball





### Forecasting and Emerging Markets – Looking in the Crystal Ball



Nan Shellabarger, FAA



Virginia Stouffer, LMI



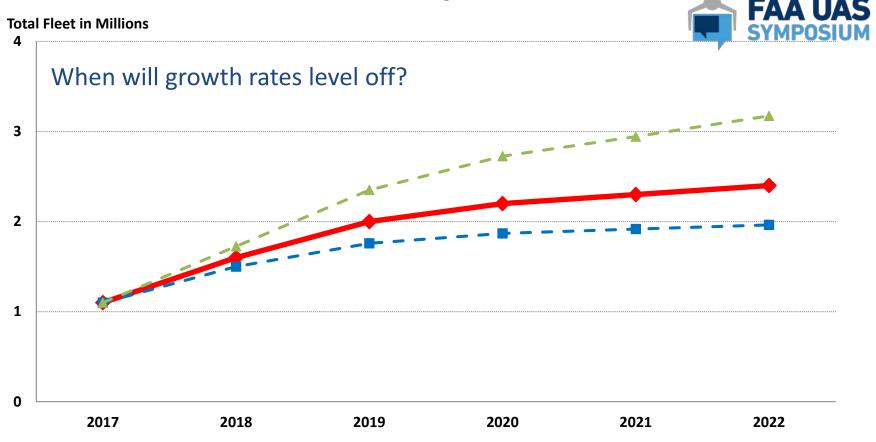
Jack Cutts, CTA



Ed Waggoner, NASA



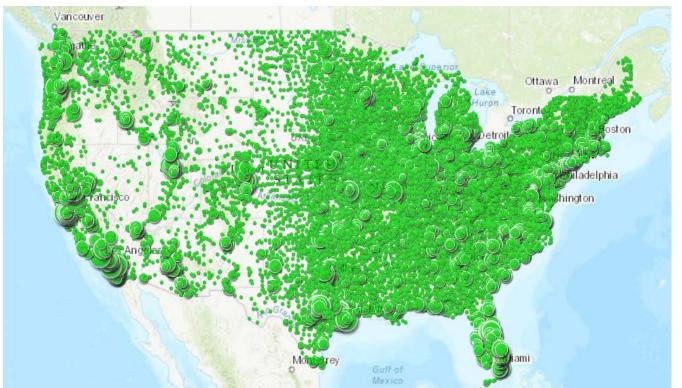
### **Model UAS Fleet-Preliminary Results**







### **Distribution of Model Registrations**





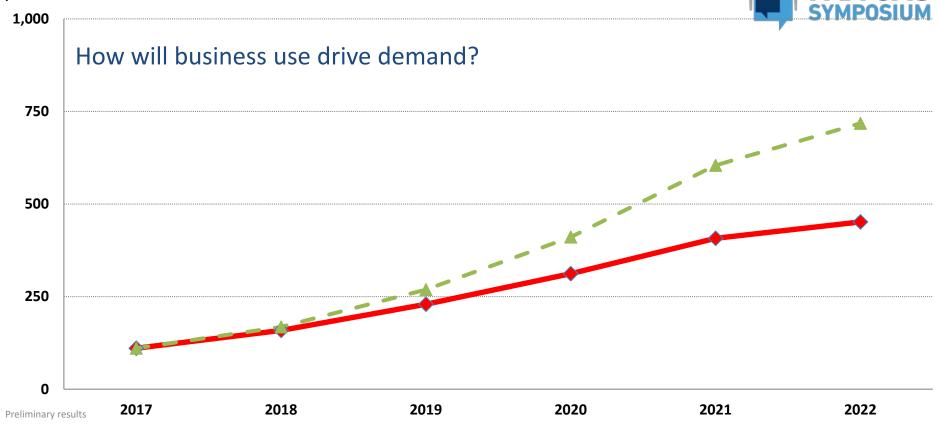
Model UAS registrations match population patterns





### **Non-Model UAS Fleet-Preliminary Results**

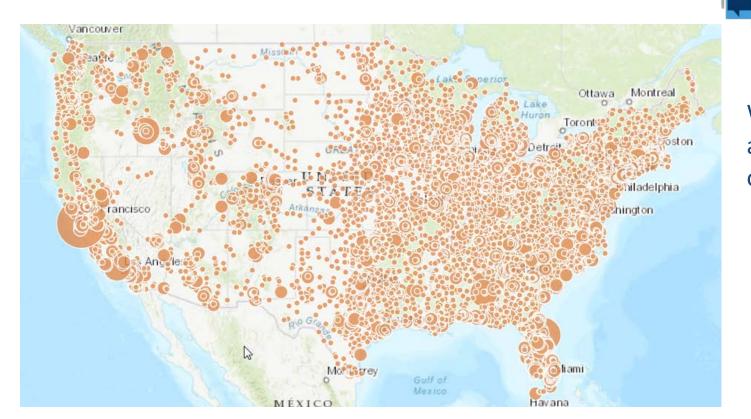








### **Distribution of Non-Model Registrations**

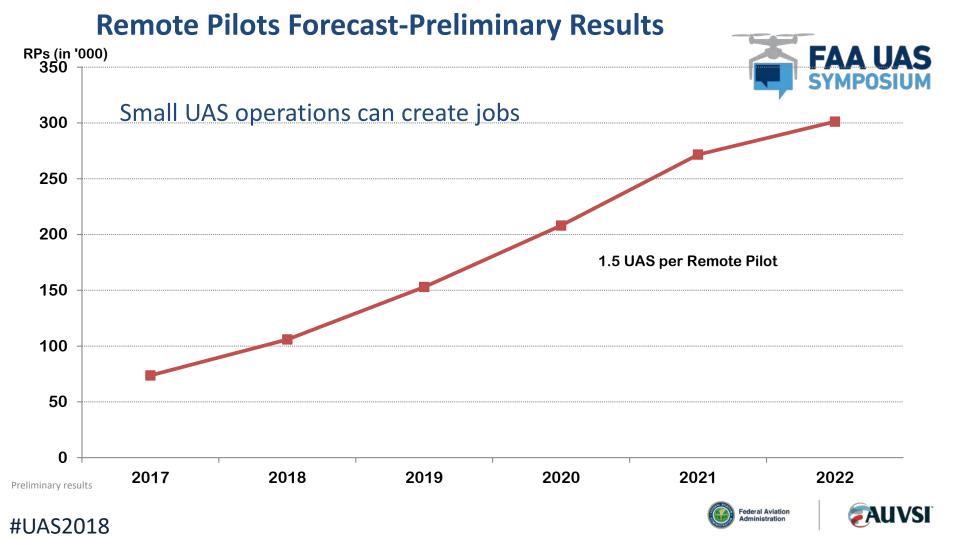


Where are the areas of opportunity?

FAA UAS SYMPOSIUM







# Consumer Technology Association\*



CTA.tech



### **Consumer Demand for UAS**

**Jack Cutts** 

Director, Industry and Business Intelligence

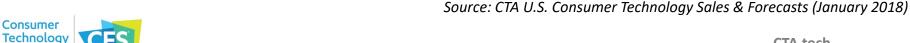
FAA UAS Symposium March 6, 2018



### CTA Forecast: Drones over 250g

**U.S. Consumer Channels** 





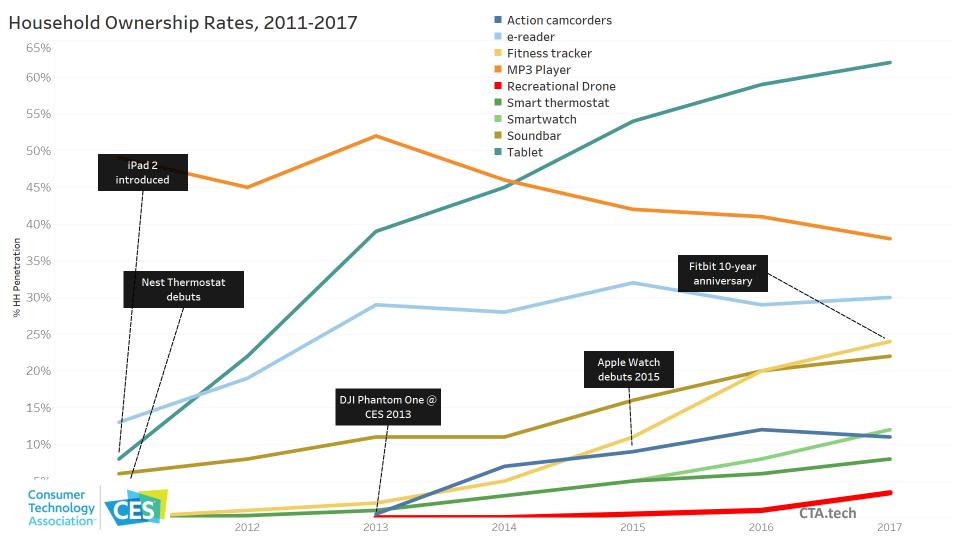
Association<sup>a</sup>

## Cause for Optimism in Consumer Drone Market

- Better tech is bubbling up...
  - First-person view
  - Single-purpose drones
  - More attention to software UX
- ...and trickling down...
  - Better cameras and image stabilization
  - Better obstacle avoidance

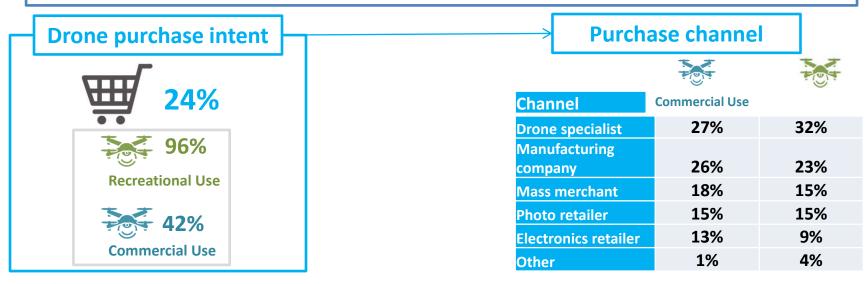






### **Future Purchase Intent**

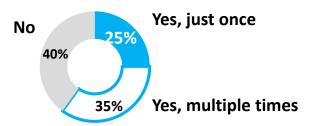
Purchase channels for drones are mixed between purchasing in a physical store versus online. Similar to the purchase channel profile of other consumer technology products, there is an even split between using physical store and online purchase.

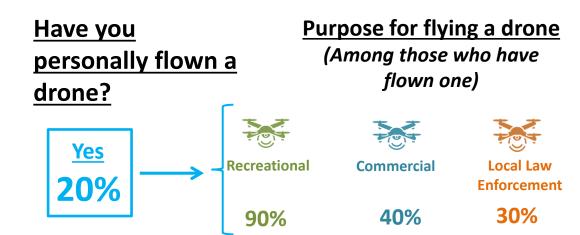




### **Consumer Use**

Have you ever seen a drone flying?







### **Photography and General Purpose Flying Most Desired Potential Uses for Individuals**









Photography / videography

For commercial For use\*

racing

For general flying

**Professional Amateur** Commercial 46% 30% 27% Recreational **56%** 

41% 15% 25% **17%** 

32% 61%



### **Consumer Awareness**

#### Among all consumers:



Campaign awareness 31%: Have heard of KBYF campaign





85%: On average, % of consumers who find Know Before You Fly campaign guidelines very important or important (All were exposed to the definition of KBYF

68%

Consulted any prior to flying a drone (Net)

Resources consulted before flying a drone Among current drone owners (n=393)

State and local regulations	30%
Federal regulations Operational instructions/directions	29%
provided when purchasing/using the device	28%
KNOW BEFORE YOU FLY Campaign safety guidelines for recreational use	21%
Other	4%
I was aware of the above resources	
but did not read them prior to flying a drone	6%
I was not aware of any available resources, and therefore did not	250/
read them prior to flying a drone	25%

**75%** Aware o any available resources



campaign)

### **Consumer Awareness**

Sources where consumers came across Know Before You Fly campaign guidelines (\*Among those who purchased a drone and are very familiar or familiar with campaign guidelines) 50%

