

UMD UAS Test Site

- Operational flight research test site
 - First research flight 05 December 2014
 - UMD **airworthiness** process
 - Expanded FAA flight authorizations
 - ~30 research projects executing/in development
 - >35 vehicles

- Collaborative effort

- government/industry/academia

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|-----------------------------|-------------------------------------|----------------------------------|
| • FAA | • Lockheed Martin | • UMD and other USM institutions |
| • NASA | • Google | • Johns Hopkins |
| • NOAA | • Textron | • USNA |
| • Navy | • Martin UAV | • GWU |
| • DHS | • UAV Solutions | |
| • Local/state public safety | • Numerous other regional companies | |



UAS TEST SITE



NO PUSH

UAS Applications and AM

- UAS and autonomy will be **everywhere**
- Leading applications
 - Agriculture/aquaculture
 - Infrastructure inspection
 - Public safety – medical, fire, police, SAR
 - Cargo
 - Disaster response/humanitarian
 - **AM will be key**
 - Low cost
 - Mobile
 - Adaptable, flexible, responsive
 - Appropriate to the technology