UAS
MAGAZINE
North Dakota Legislative Management
Economic Impact Committee
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Who We Are:

-Print and Online Original Content For Commercial Operators and End-Users

-Educational Webinars and Infographic creation

-UAS Events: North Dakota, Texas, Arizona, AUVSI

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UAS In 2016 & 2017

2016:

- Small UAS Rule
- Beyond Visual Line of Sight Testing
- Flights Over People Testing
- Type Class Certification
- Privacy storyline continues
- FAA Reauthorization and States vs. Federal Laws

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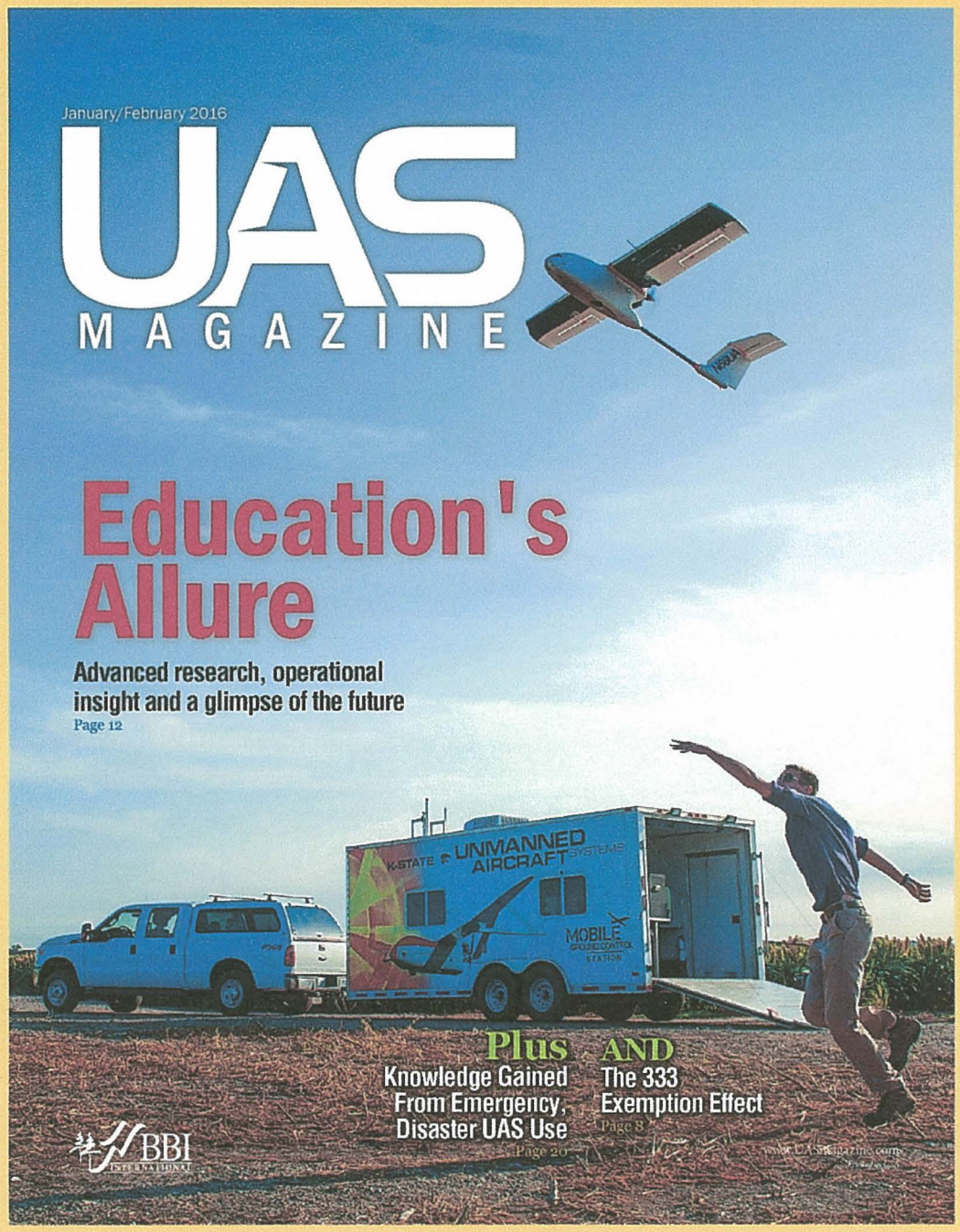

Early Year UAS Buzz

Early–Year UAS Buzz
For the 17th year in a row, unmanned aircraft systems experts, thought leaders and high-ranking officials from the defense, government, research and regulatory communities gathered in New Mexico to talk UAS shop. From updates on groundbreaking UAS traffic management research to rollout plans for future DOD use of UAS, attendees at the Technical Analysis and Applications Center event uncovered several major topics that will be talked about in 2016.

Spectrum of Choice
Kyle Synder, director of the NextGen Air Transportation Group at North Carolina State University, highlighted the growing concern of many in the industry—and several at the event—regarding the appropriate communication spectrum capable of serving UAS operations in command and control situations. While GPS operates in the L-band spectrum, it is possible that the L-band will not be a possibility for future use. Synder and his team are researching spectrum issues and cyber security concerns in 2016.

UAS Standards on the Way
For the past two years, RTCA SC-228 has been tasked with creating minimum operational performance standards for UAS. According to Paul McDuffee, RTCA committee co-chair and Insitu spokesperson, the group expects to release its standards in 2016. ASTM's committee F-38 on UAS also expects to have UAS standards and certification requirements out in 2016.

Moving Past the NPRM
Earl Lawrence, one of the new faces of the U.S. Federal Aviation Administration's UAS team, is pushing a culture shift in the FAA. He is also reminding the industry that following the release of the small UAS rule, the FAA is extremely focused on making beyond visual line of sight, (BVLOS) night operations and other operational wants of the industry a reality as soon as possible.

Enter the Type Class Certification
To allow BVLOS and other such operations, the FAA considers the type class certification process the quickest path to fulfillment. A handful of UAS manufacturers have pushed to have their respective platforms certified and many more are expected to do so in 2016 and beyond, according to Lawrence.

Counter UAS Tech
CACI, the company chosen by the FAA to showcase a nonkinetic option to mitigating unwanted sUAS risk surrounding a defined perimeter—in the FAA's case an airport—will test its unique, military-based technology in 2016. The company won't be the only one to do so, however. Several other major aerospace providers have announced plans to test or sell similar technology.

ASSURE Building an Empire
The group tasked with leading the FAA's UAS Center of Excellence has not only brought together a multitude of research institutions and private entities to talk UAS, in 2016 the team has more than 12 research initiatives planned. The group is also forming working plans with private firms to model business cases or end-use application real-life operational scenarios.

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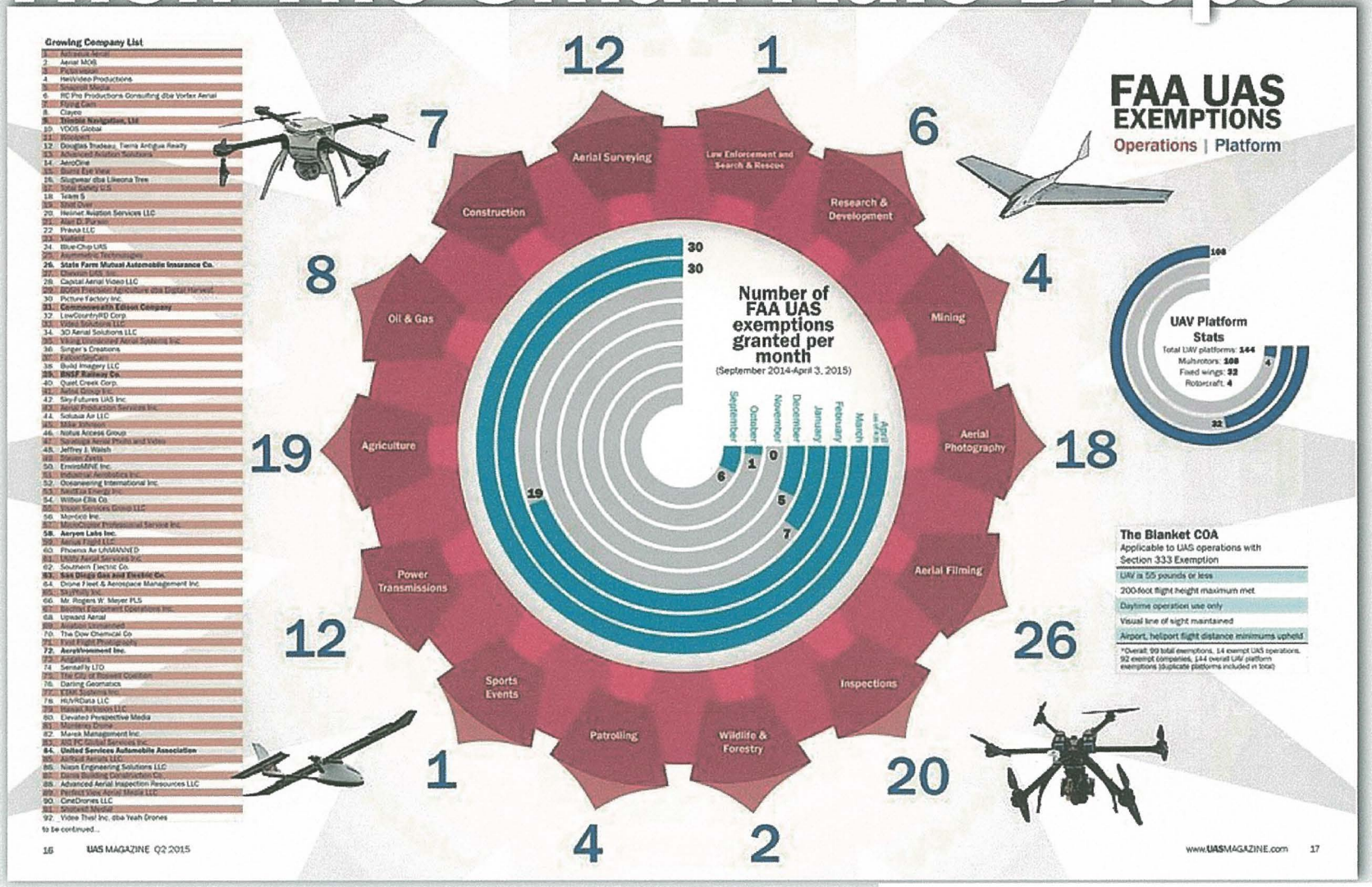
When The Small Rule Drops



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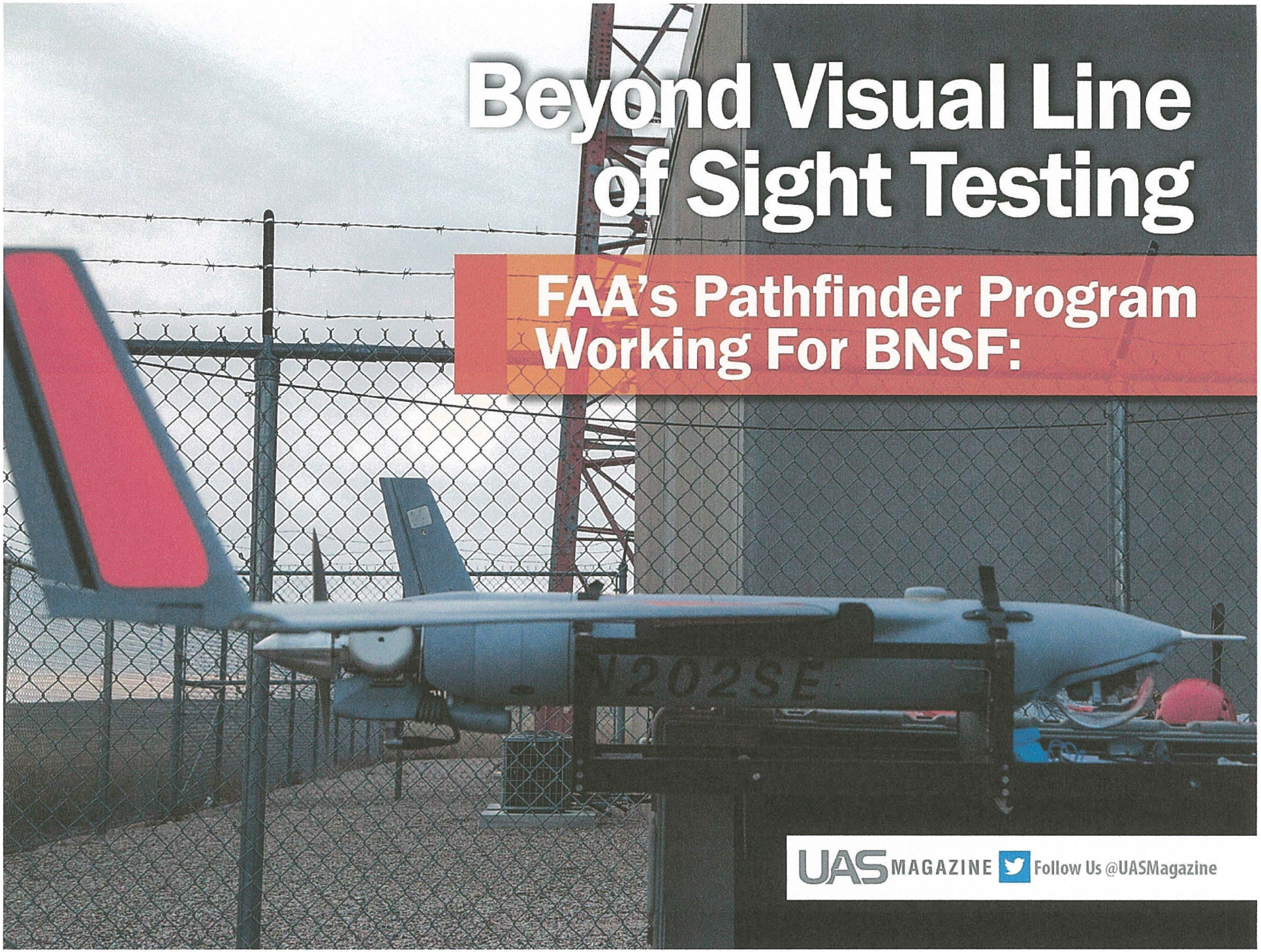

Beyond Visual Line of Sight Testing

FAA's Pathfinder Program Working For BNSF:

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Flights Over People

- Micro UAS rule introduced
- CNN working on the process

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Type Class Certification:

UAV safety verification process possibly allows quicker BVLOS operations

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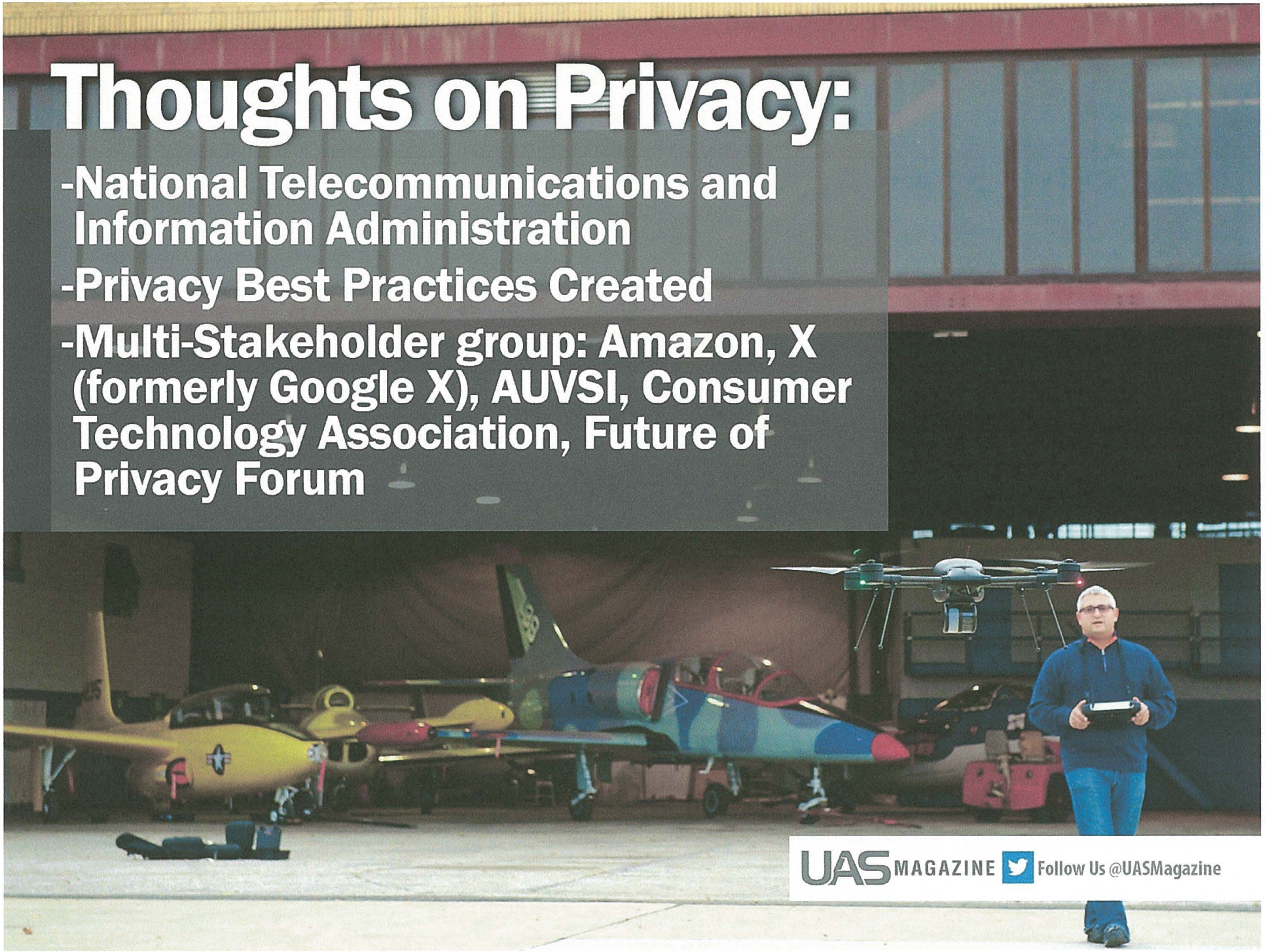
Thoughts on Privacy:

-National Telecommunications and Information Administration

-Privacy Best Practices Created

-Multi-Stakeholder group: Amazon, X (formerly Google X), AUVSI, Consumer Technology Association, Future of Privacy Forum



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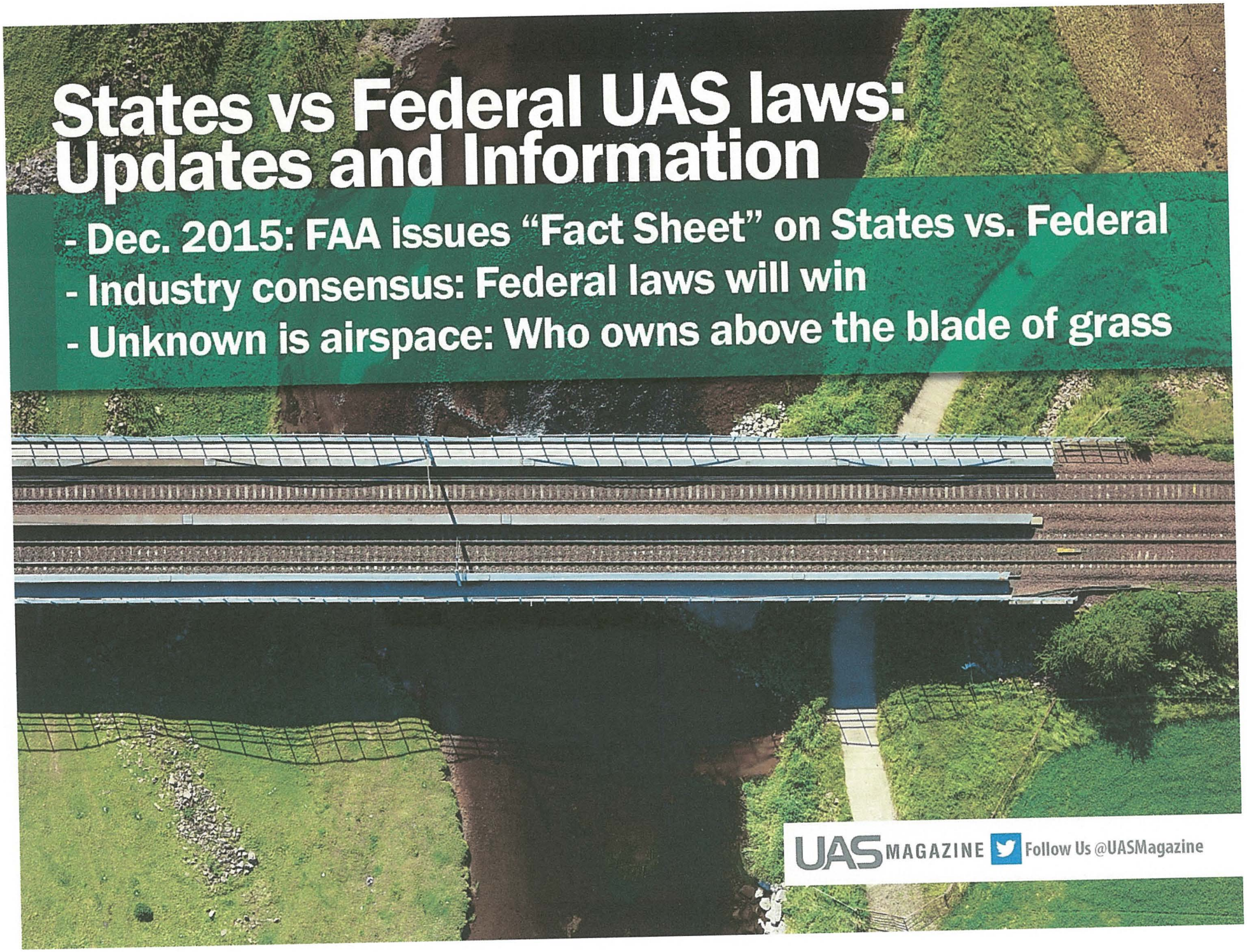
States vs Federal UAS laws: Updates and Information

- Dec. 2015: FAA issues "Fact Sheet" on States vs. Federal
- Industry consensus: Federal laws will win
- Unknown is airspace: Who owns above the blade of grass



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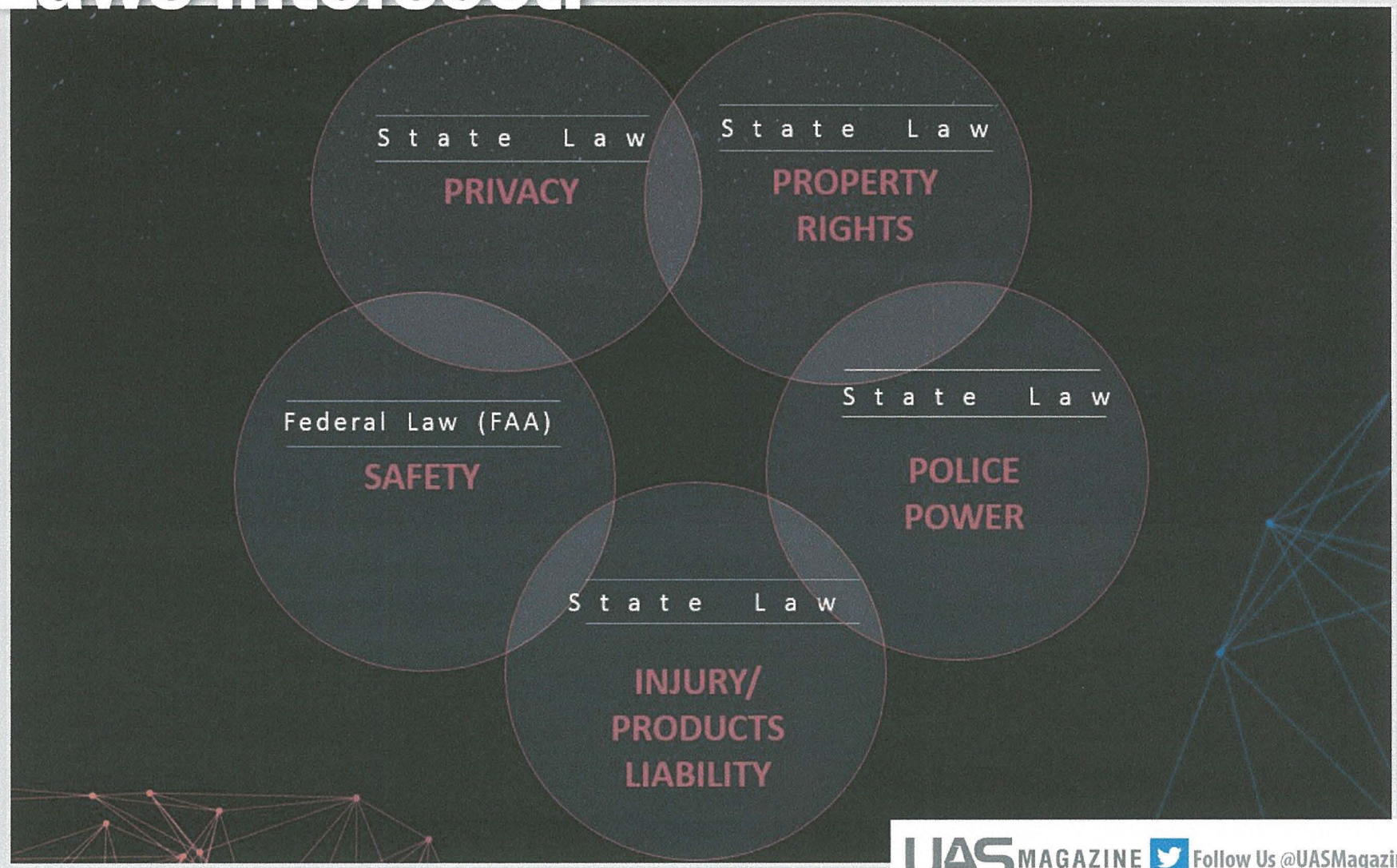
Where State and Federal Laws Intersect:



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North Dakota Vs. The Rest:
- Nashville To Country or just another place with good music?
- State could become industry destination, currently leading all activity, but...
- Test Site States ramping up investment, Non-Test Site States following
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2016 UAS State-led, Private Activity
- Oregon funds FutureFarm
- Ohio rebrands UAS event
- Arizona adds UAS event
- Texas adds UAS event
- Utah promoting testing capabilities
- Nevada adds emergency response facility
- Virginia Tech continues participating with UAS
- San Francisco creates high-tech drone maker gathering
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