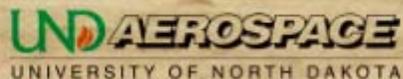




Northern Plains Unmanned Aircraft Systems Test Site

Department of Commerce

Northern Plains
Unmanned Aircraft Systems
Test Site

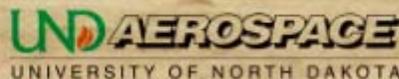




Northern Plains Unmanned Aircraft Systems Test Site

ND Receives FAA Designation

- On December 30, 2013 North Dakota selected as one of six FAA UAS Test Sites
- Other Test Sites are:
 - University of Alaska
 - State of Nevada
 - New York's Griffiss International Airport
 - Texas A&M University – Corpus Christi
 - Virginia Tech

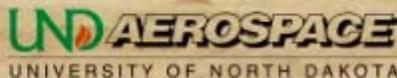




Northern Plains Unmanned Aircraft Systems Test Site

Why is this Important?

- Teal Group's 2013 market study estimates UAS spending will total approximately **\$89 Billion** over the next ten years.
- AUVSI's "*The Economic Impact of UAS Integration in the US*" (2013) forecasts through 2025:
 - *100,000 jobs*
 - *\$82 Billion economic impact*

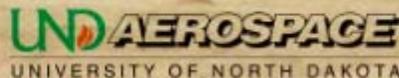




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AUVSI prediction

While we project more than 100,000 new jobs by 2025, states that create favorable regulatory and business environments for the industry and the technology will likely siphon jobs away from states that do not.

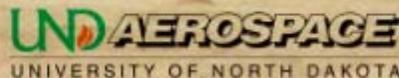




Northern Plains Unmanned Aircraft Systems Test Site

How Did We Get Here?

- ND has invested over \$14 million through Centers of Excellence and related programs to advance the UAS industry
 - Including the UAS COE which was launched in 2006
- FAA releases Screening Information Request on February 14, 2013 for public entities seeking designation as a UAS Test Site
- State Legislature appropriates \$5M for the present biennium
- ND Team completes submission of its proposal to the FAA on May 3, 2013
- By Executive Order, the Governor creates the Northern Plains Unmanned Systems Authority
- Executive Director hired Jun 13
- ND Selected by FAA on Dec 30, 2013

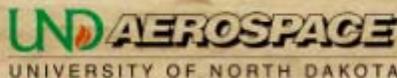




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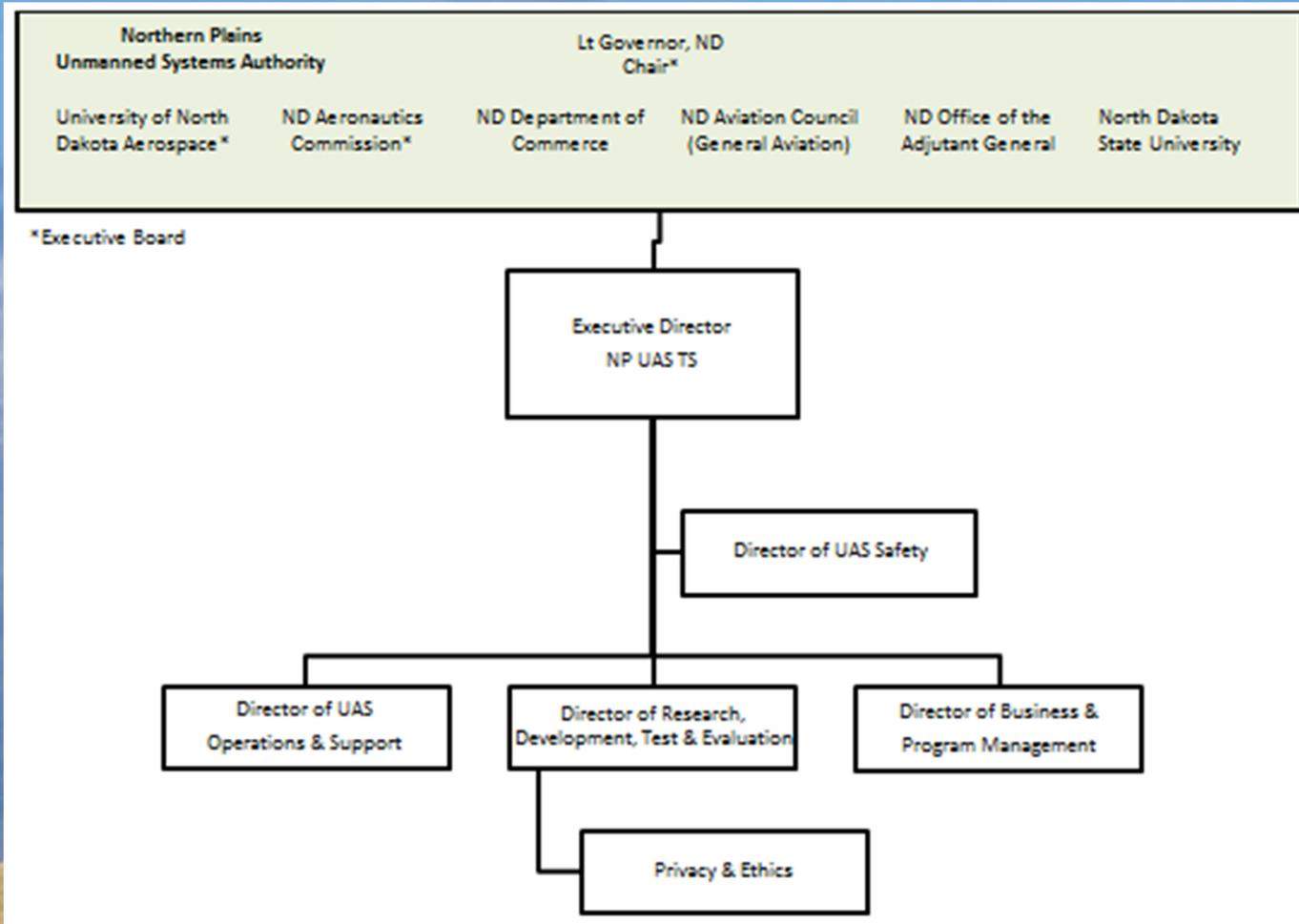
Northern Plains UAS Test Site

- NP UAS TS Team Members
 - North Dakota Department of Commerce
 - University of North Dakota
 - North Dakota State University
 - North Dakota Aeronautics Commission
 - North Dakota Office of the Adjutant General





Northern Plains Unmanned Aircraft Systems Test Site



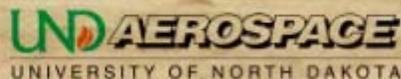


Northern Plains Unmanned Aircraft Systems Test Site

The Umbrella Of Strength



- NDAA** - North Dakota Aviation Association
- NDPAMA** - North Dakota Professional Aviation Mechanics Association
- AAND** - Airport Association of North Dakota
- NDFF** - North Dakota Flying Farmers
- NDAAA** - North Dakota Agricultural Aviation Association
- NDPA** - North Dakota Pilots Association
- NDEAA** - North Dakota Experimental Aviation Association
- NDAAM** - North Dakota Association of Aviation Museums

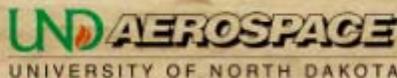




Northern Plains Unmanned Aircraft Systems Test Site

NP UAS TS Recent Activities

- New deliverables due to the FAA
- First to meet with FAA following designation!
- Industry response to ND designation has been tremendous!
- Preparations for initial test site operations
 - FAA required to have at least one test site operational within 180 days of designation

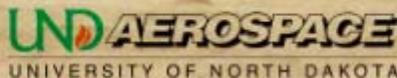




Northern Plains Unmanned Aircraft Systems Test Site

NP UAS TS Next Steps

- Initial NP UAS TS operations may occur as soon as April
- Promoting the NP UAS TS
 - Coordinating efforts of regional stakeholders
 - GFREDC, UND, Grand Sky, RRVRC, NDSU, etc.
 - Consolidating key messaging
- Responding to initial industry outreach to ND
- Recruit and engage potential strategic partners

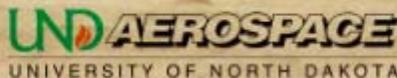




Northern Plains Unmanned Aircraft Systems Test Site

Research & Development

- Initial test site research will focus on:
 - UAS systems safety
 - UAS aircraft certification
 - Command and control links
 - Control station layout and certification
 - Ground and airborne sense and avoid
- Initial industry focuses:
 - Precision agriculture
 - Energy

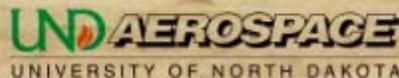




Northern Plains Unmanned Aircraft Systems Test Site

Safety

- Leveraging UND Safety Management Systems
- Director of UAS Safety
 - Job announcement to be released soon
 - Crucial position within Test Site organization
- Tests to be conducted in areas with open airspace and low population density

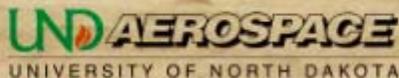




Northern Plains Unmanned Aircraft Systems Test Site

Privacy

- UND UAS Research Compliance Committee
 - Established January 2013
 - Diverse committee
 - Academia, Emergency responders, Local government, and Community
 - Reviews all UAS-related research
 - Example: GF Sheriff's Department traffic study





Northern Plains Unmanned Aircraft Systems Test Site

Discussion





Northern Plains Unmanned Aircraft Systems Test Site

Thank You!



UND AEROSPACE
UNIVERSITY OF NORTH DAKOTA

North Dakota
DEPARTMENT OF COMMERCE

NDSU NORTH DAKOTA
STATE UNIVERSITY

