



NORTHERN PLAINS  
UAS TEST SITE

Changing what is possible with UAS. *Safely, efficiently, seamlessly.*

# Trust and respect through experience

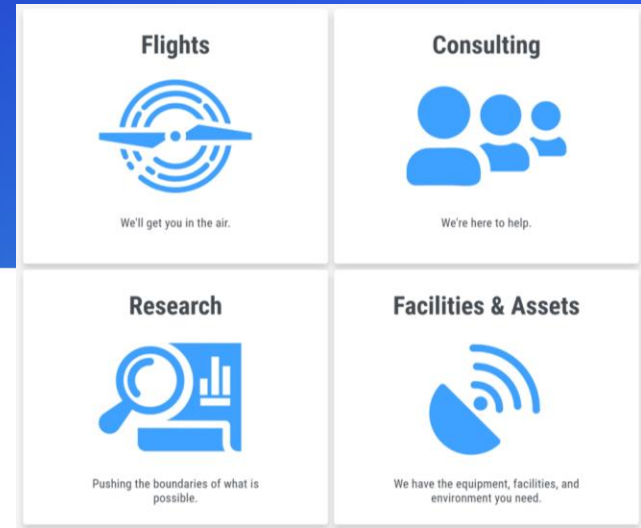
**Our Mission** is to collaborate with the FAA and industry partners to develop equipment, systems, rules, and procedures to

**safely integrate** unmanned aircraft into the National Airspace System

*without* negatively impacting existing general or commercial aviation.

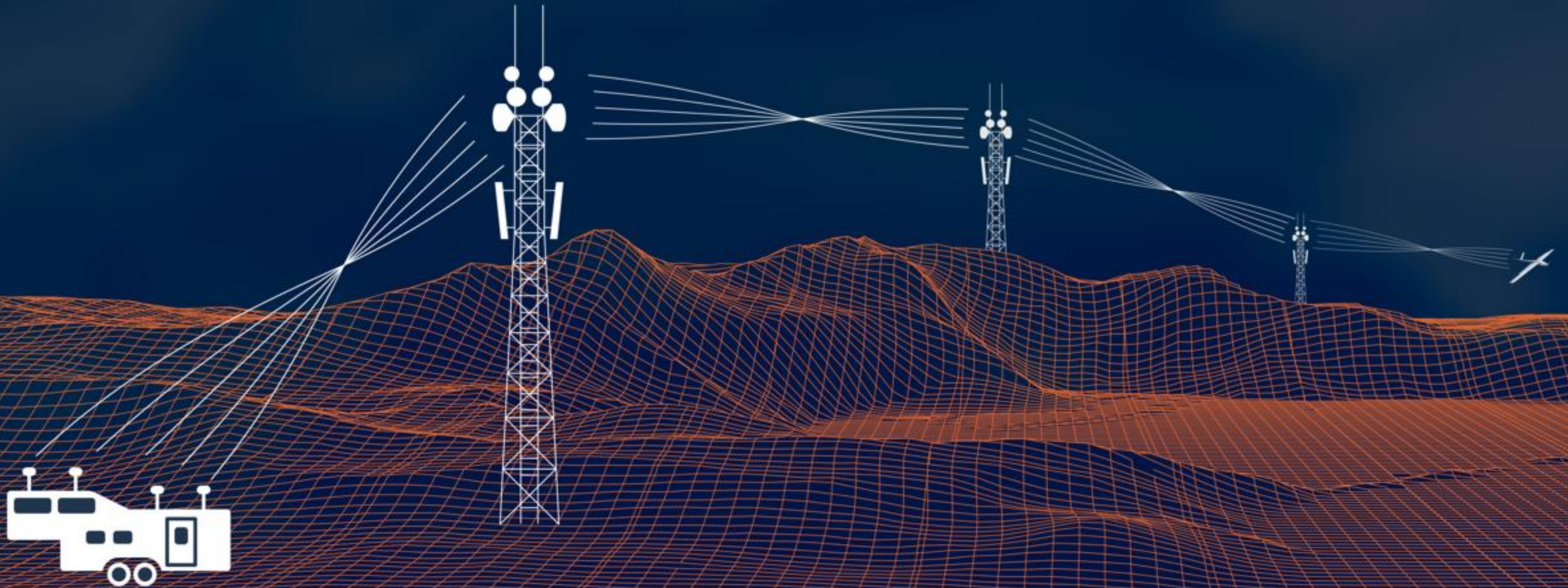
**North Dakota** state support

**FAA** partner since 2013





# What is Vantis?





# Shared Infrastructure





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THALES  
Building a future we can all trust

# N O R T H D A K O T A ' S U A S S Y S T E M

## OPEN FOR UAS

Leverage the power of beyond-visual-line-of-sight (BVLOS) flight. Vantis creates economic opportunities and empowers communities.



### THE VANTIS SYSTEM



REMOTE  
INFRASTRUCTURE



UNMANNED AIRCRAFT  
SYSTEMS (UAS)

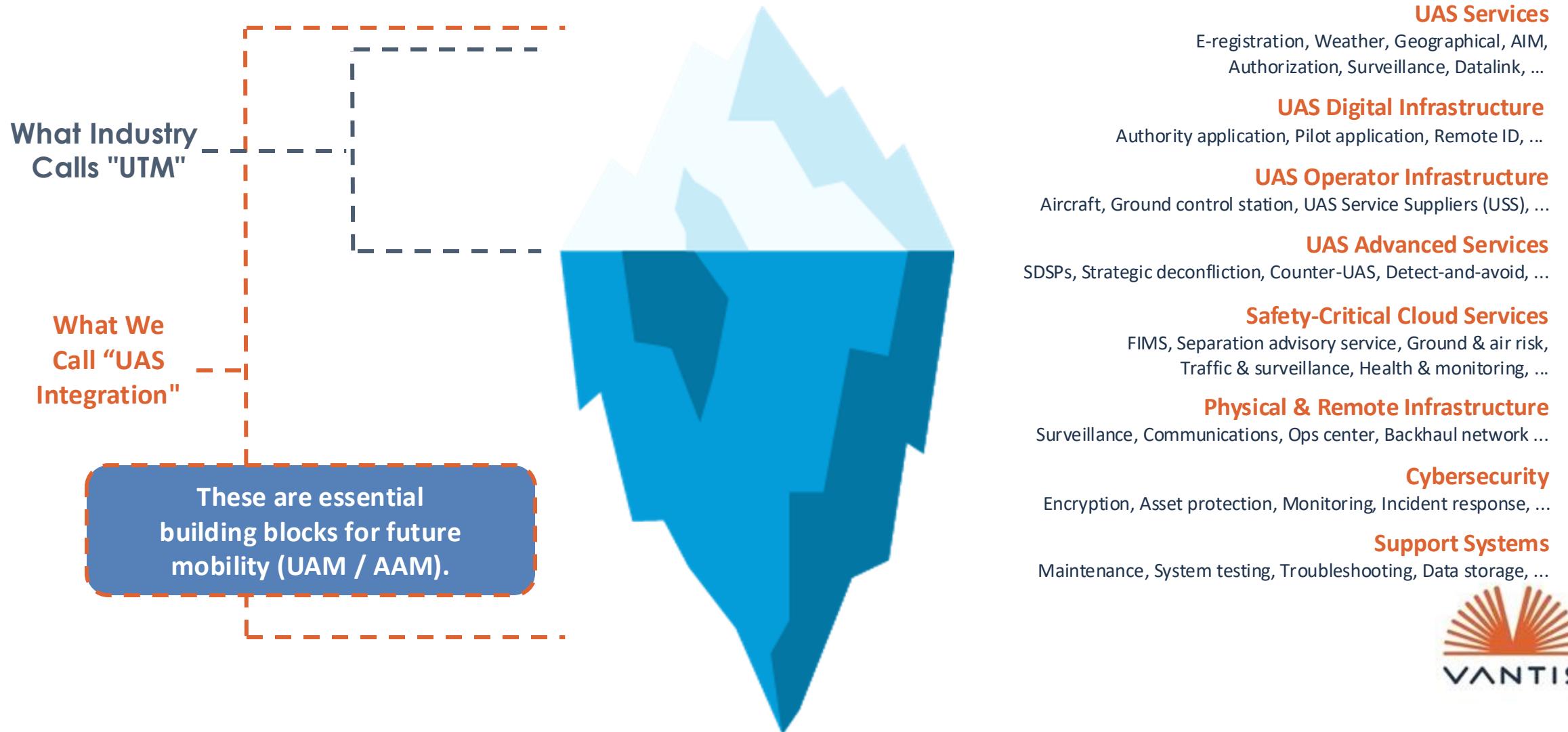


BACKHAUL DATA  
NETWORK



MISSION & NETWORK  
OPERATIONS CENTER

# Real-world UAS Integration is much more than just "UTM"



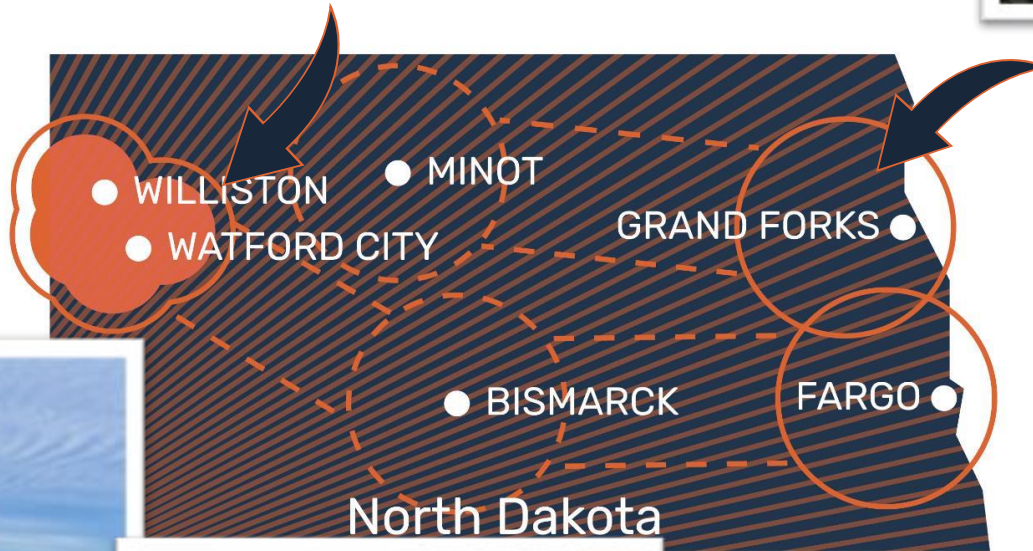


# Vantis Operations



MNOC located at Grand Sky Business Park

Installed on eastern side of the state



Installed and **active** in northwest corner of state



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# Combination of Infrastructure & Services to Align to the Safety Process



Short-Range Radar



CNPC & ADS-B



Medium-Range Radar



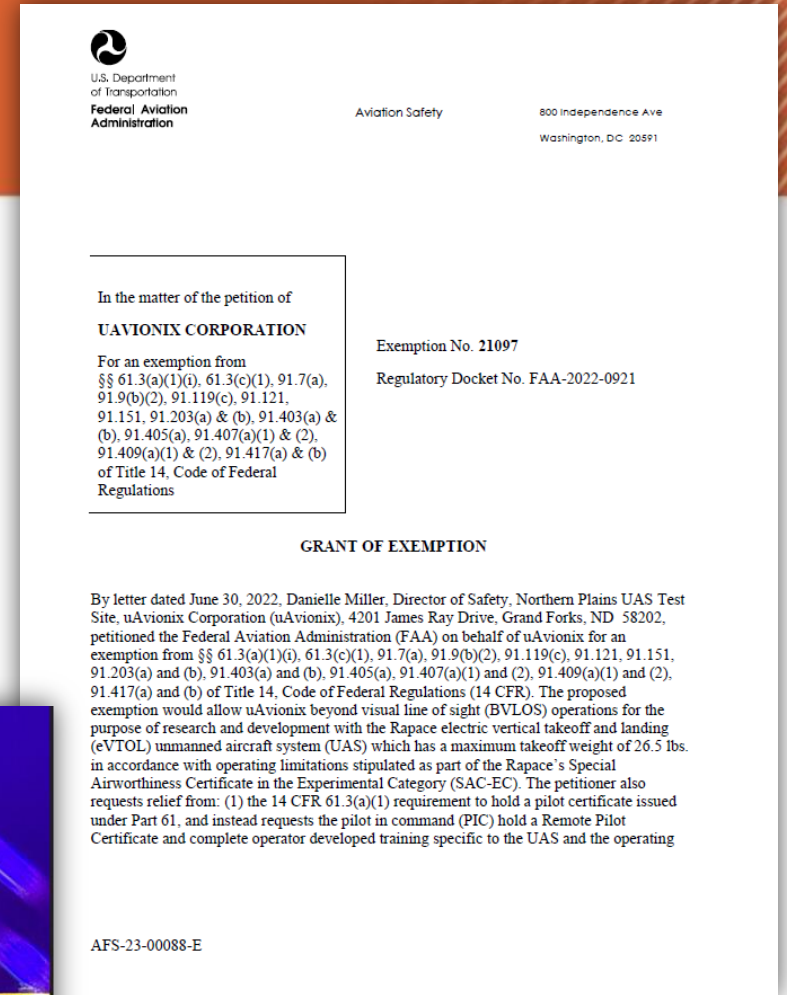
Remote Pilot Traffic HMI





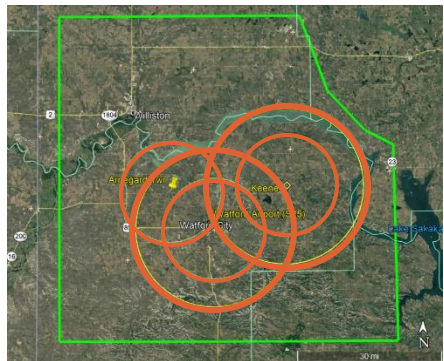
# Major Milestones Achieved.....

- Petition for Exemption Approved
- Lead Site for FAA Near Term Approvals Process (NTAP)



# What does this mean for your State?

- Vantis can be expanded to your State
  - Operator Approval using Vantis Approved, 3rd Party Network Services
- Designed to **“Jump-Start” your UAS/AAM Integration Programs...**
  - Scalable to potentially nationwide
  - Repeatable to allow easy deployment
  - Approvable from the regulators’ standpoint
  - Economical to reduce total overall cost of supporting infrastructure



**Local Area**



**Statewide**



**NAS-Wide (example)**





# Thank You

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[NPUASTS.COM](http://NPUASTS.COM)

and

[VantisUAS.COM](http://VantisUAS.COM)

# Video

