UAS in the NAS

Operations – Today and Tomorrow

Date: April 19, 2016
Today’s Operations

“Monitoring A Farm Field To Detect Change and Identify Risks”

- Single Site / VLOS
- Small UAS
- NOTAM – Block of Airspace
- Rural Area
- Class G
- Below 400 ft.
- Pilot Certificate
Tomorrow’s Operations

“Monitoring A Farm To Detect Change and Identify Risks”

- Multi Site – EVLOS / BVLOS
- Small UAS
- Dynamic Flight Plan
- Rural & Suburban Areas
- Multiple Airspace Classes
- AGL Varies
- Trained Operator
Tomorrow’s Operations

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## Many Differences

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Focused Efforts

Example Challenges

• UAS Data
• Environmental Data
• Connectivity & Comms
• Location Accuracy

Existing Research

• NASA UTM
• Pathfinder
• ASSURE
• Test Sites
Discussion Questions

Can the complexity of future low-altitude UAS CONOPS be managed by existing systems / structures?

If we had to choose, which should be trusted – the technology or the operator?