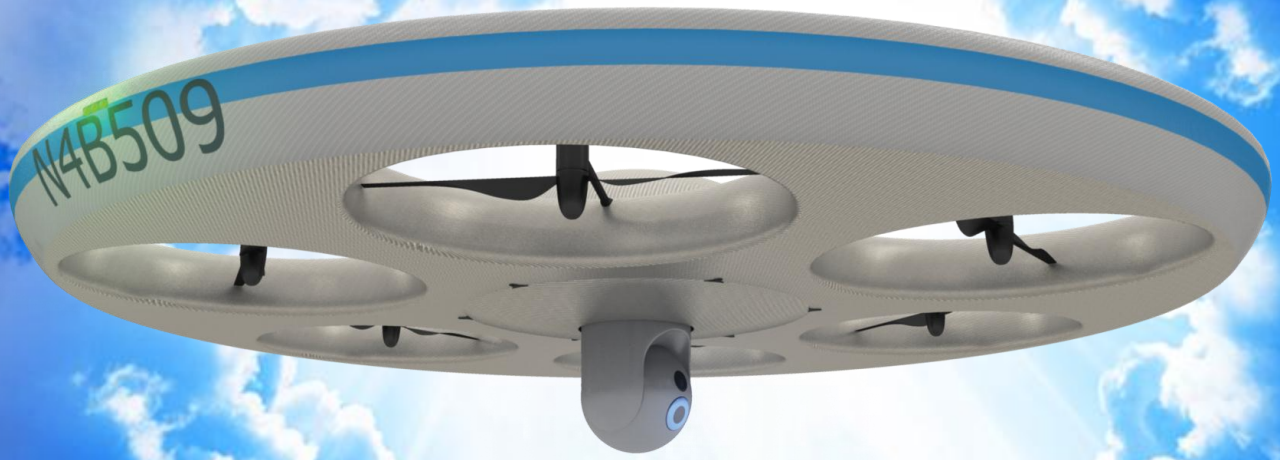


ASVA™

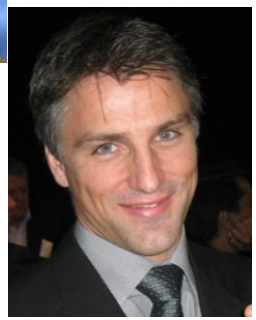
Domesticated

UAS Technology™

OLARIS

Domesticated UAS Technology

Ted Lindsley - Founder & CEO



Dr. Stefan Hrabar – Founding Engineer

Dr. Paul Pounds – Founding Engineer

Michael Dodd– Founding IP Attorney

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What's In A Name ?

Nothing

UAV – Unmanned Aerial Vehicle
UAS – Unmanned Aerial System
RPA – Remotely Piloted Aircraft
RPV – Remotely Piloted Vehicle
MAV – Micro Air Vehicle
Drone

Skip the vocabulary…

…let's focus on the big picture

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Economic Impact

Why UAS Technology is Important to NC

“ Drones will be as big as the Internet was over the past 20 years ”

Brendan Schulman, Kramer-Levin 12/2013

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UAS Economic Impact

First State to integrate UAS Wins the Game

- Industry projected to reach $300B by 2025
- Hundreds of new robotics start-ups
- Thousands of high paying jobs
- Local careers NC veterans
- Explosive supply chain growth
- Tertiary impact on real estate, hotels, T&E
- New university educational advances

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Why North Carolina?

UAS industry needs a home

1) Governance plan with flight approval

2) Real-world, wide-scale integration to prove the value and efficiency of UAS technology

1) Educated workforce to support growth ahead

1) Focus on what CAN be done, not what CAN'T

2) Easy access to skies for future R&D

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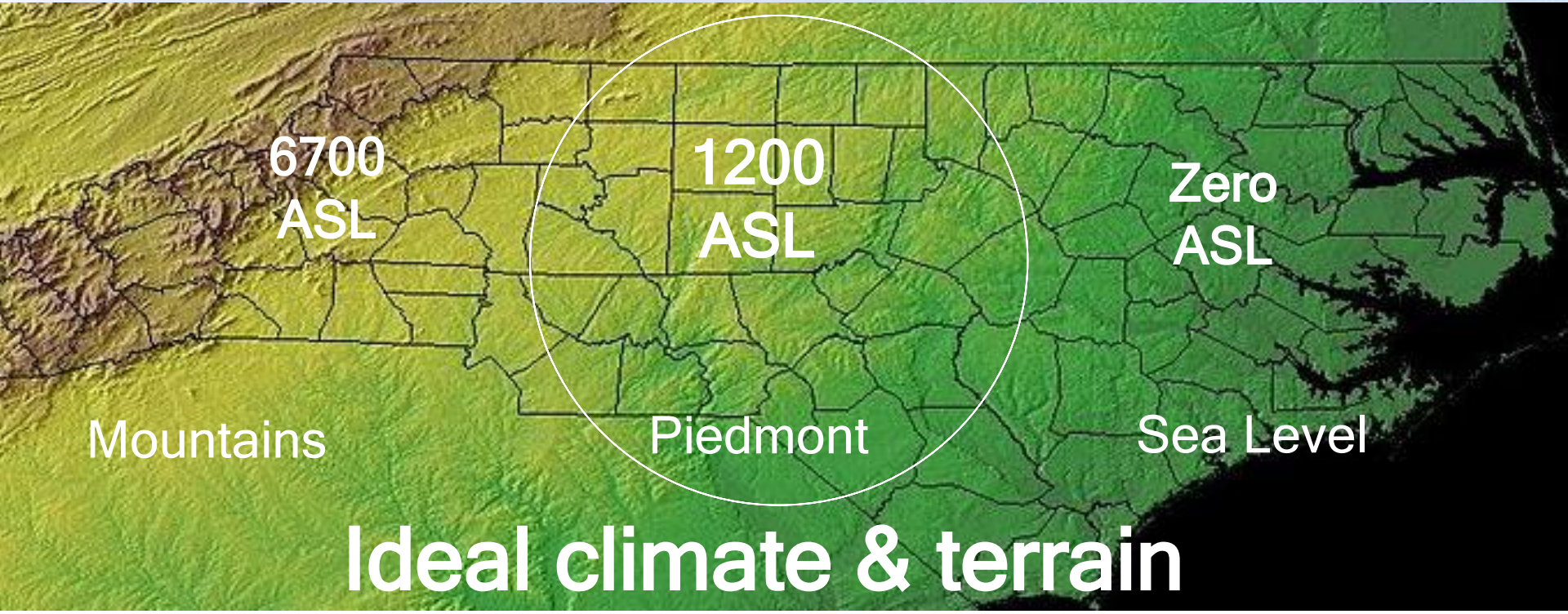
#1 Choice of 19 States



R&D, Flight Testing, Demonstration, Fabrication
Training, Certification, Sales, Marketing,
Support

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#1 Choice of 19 States

High risk for hurricanes, tornadoes, severe storms, flash flooding, and icing across diverse terrain

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The Twin of Central NC

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Vicenza, Italy

The Mechatronics "Silicon Valley" of Europe

- 300+ companies
- 10,000+ high paying jobs
- $10.5 Billion annual output

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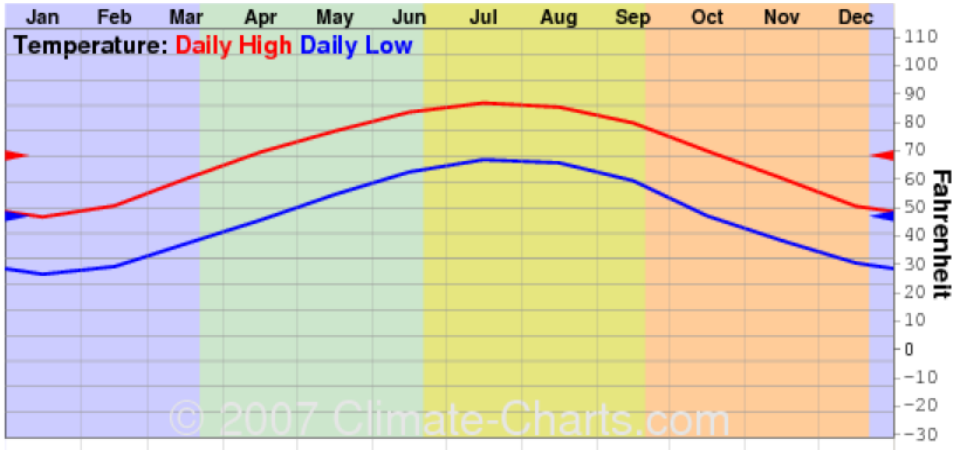
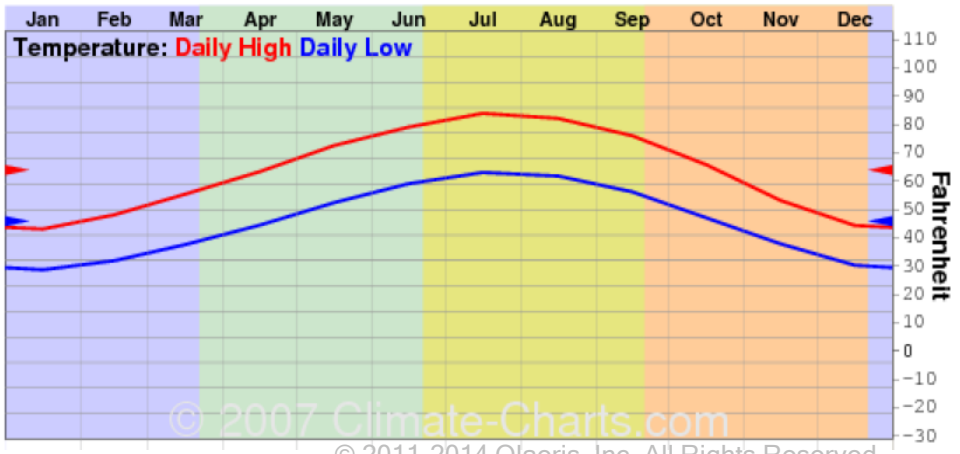
Climate & Environment

- Same climate and temperatures
- Same proximity to ocean & mountains
- Same industry shift from textiles to technology

Piedmont, NC



Vicenza, Italy



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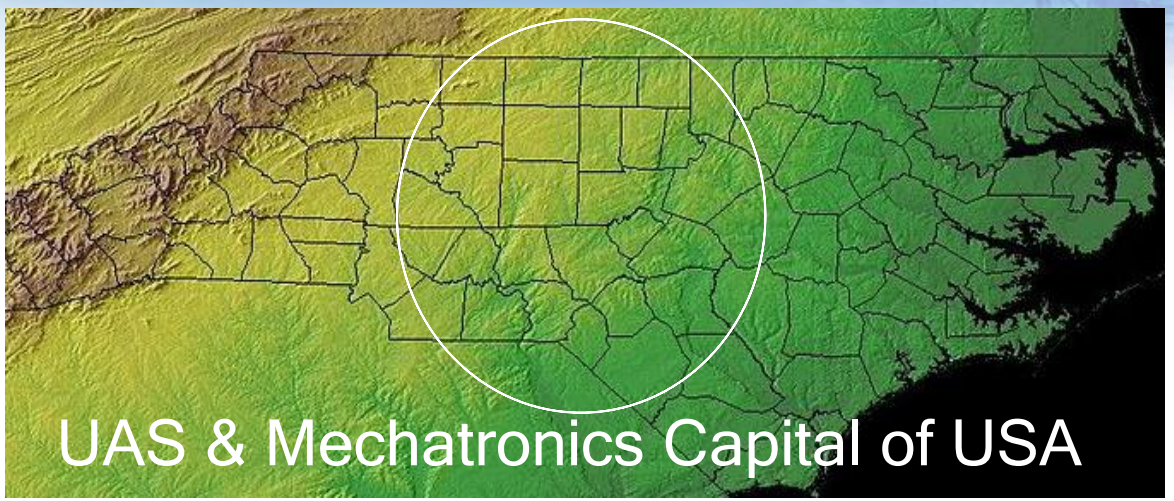
Ideal for UAS Companies



- Hundreds of new companies 2015-2025
- Thousands of high paying jobs
- 21st Century Emergency Response Model
- First in *Unmanned* Flight

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Serves All Agencies

AEVA serves ALL statewide agencies and shares cost for economical integration

- Statewide Emergency Management UAS
- Natural disaster preparedness
- Response in seconds, not minutes
- Statewide availability 24/7/365
- Open source architecture
- Joins all state assets under one umbrella

2 Years in design reviews with police, fire, disaster recovery & EM commanders

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Serves All Incidents

Special Event Security
Fire
Infrastructure Monitoring
Fire Alarms
Search & Rescue
Traffic Safety & Control
Hurricane
Pollution Monitoring
9-1-1
Radiation Response
Power line Inspection
HAZMAT Response
Urban Unrest
Flood
Tornado
Police
Terrorism
Coastal Monitoring
Burglar Alarms

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New MIG Report

Market Info Group

" First Responders Buying Guide & Operating Concept for UAVs "

February 2014

- ✓ **What UAS to buy and what to avoid**
- ✓ **Operating concept model for success**
- ✓ **Recommendations for effective integration**

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MIG Chooses Olaeris

Market Info Group

“ First Responders Buying Guide & Operating Concept for UAVs ”

February 2014

APPROVED

AEVA™

- ✓ Meets **all** buying recommendations
- ✓ Meets **all** operational guidelines
- ✓ Delivers **all** capabilities desired

The **only** UAS in the world that meets 100%

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Domesticated UAS Technology

What about public fear and privacy issues ?

Silent Majority

VS

Vocal Minority

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ACLU
AMERICAN CIVIL LIBERTIES UNION

Protecting Privacy

AEVA™ Complies with ACLU Usage Policies

✓ **Usage**	Only with a warrant, in an emergency or in relation to a specific criminal act
✓ **Data**	Images retained only when containing evidence for a criminal trial or ongoing investigation
✓ **Policy**	Clear, written guidelines, decided by civic leaders, not by police, and open to public view
✓ **Abuse**	Subject to open audits, public review and oversight to prevent abuse
✓ **Weapons**	No lethal or non-lethal weapons

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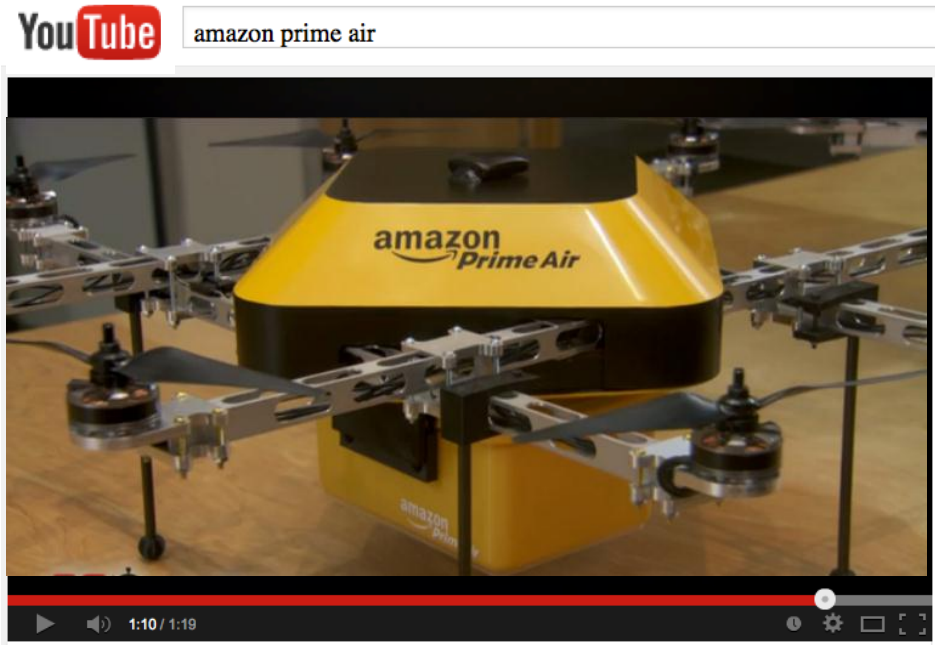
Public Approval of UAVs

Amazon Prime Air Dec 2013



FIRST nationwide exposure to a positive UAS application

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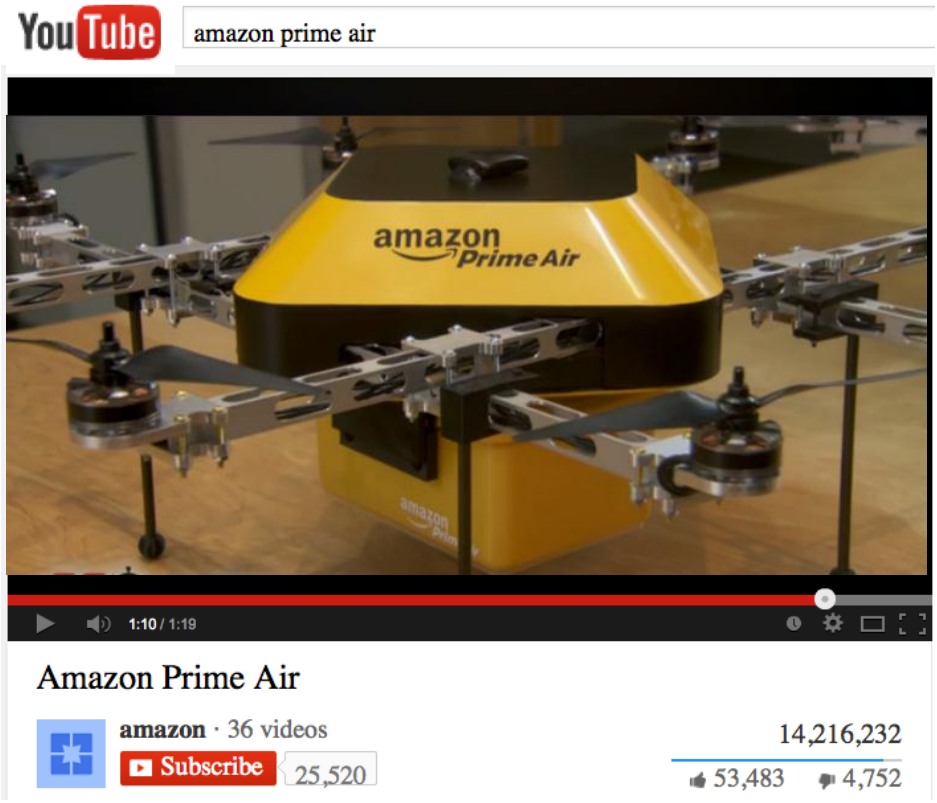
Public Approval of UAVs

Amazon Prime Air Dec 2013



Silent Majority

53,483 **91.8%**

Vocal Minority

4752 **8.1%**

14,216,232 views

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December 2nd Press Release

Home Mail News Sports Finance Weather Games Groups Answers Screen Flickr Mobi

YAHOO! FINANCE

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Market Data
Business & Finance
Personal Finance
Yahoo Originals
CNBC

Featured

Local Mortgage Rates
Tax Season Advice
Homes + Money

Scottrade

UAV Company Olaeris Chooses NC for New Headquarters

Hundreds of high tech jobs to be created with millions invested

BusinessWire

Olaeris
December 2, 2013 6:00 PM

BANGKOK--(BUSINESS WIRE)--

Unmanned Aircraft Systems (UAS) company Olaeris has selected North Carolina as its top choice for a U.S. headquarters facility. They are currently engaging Piedmont economic development leaders to identify the most promising location for what they believe can become a leading R&D hub to the global UAV industry. The first facility is expected to employ nearly 200 engineers, technicians, programmers, pilots, trainers and support personnel. A key electronics component supplier to Olaeris has also expressed interest in opening a facility next to them, once a site has been chosen.

AEVA Unmanned Aerial System (Photo: Business Wire) Multimedia Gallery URL

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December 2nd Press Release

" Olaeris Chooses NC for new Headquarters "

We immediately received:

- ✓ **Dozens of employment inquiries**
- ✓ ***30+ inquiries from the NC supply chain***
- ✓ ***3 print magazine interview requests***
- ✓ ***PBS to produce a segment on Olaeris in NC***
- ✓ ***3 regret emails from states who lost***

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Greensboro 2013 Example

GOAL: First citywide UAS in the country

- 8 months educating & planning
- *City Management understood the value*
- *EM Commanders saw the benefits*
- *Plan pushed forward enthusiastically*

RESULT:

- Stalled October 2013
- Reluctant to proceed without State support

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Building a Foundation

Building Toward 2025 for Success

- ✓ First statewide UAS network in U.S.
- ✓ Most efficient EM capability in U.S.
- ✓ Global media on “UAS Made in NC”
- ✓ Loan-Share-Borrow UAS Assets

SAFETY **PERFORMANCE** **RELIABILITY**
PREPAREDNESS

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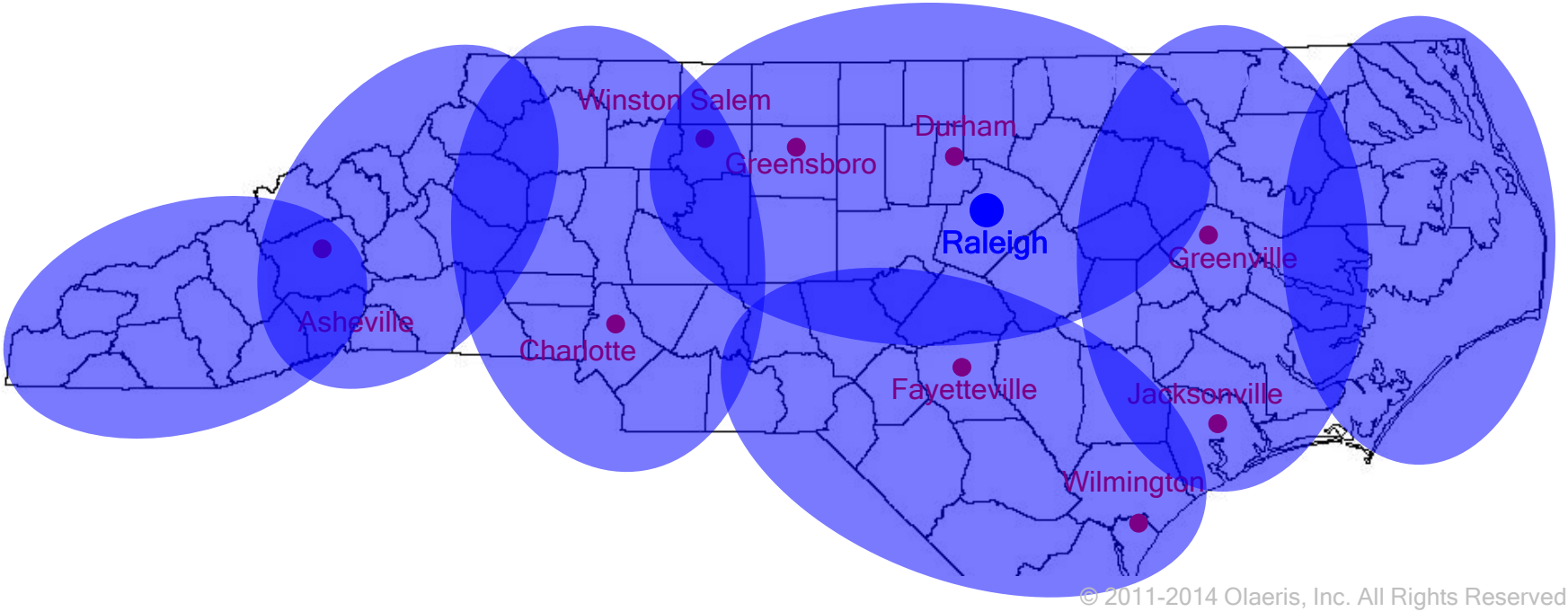
Multi-stage Integration

Statewide UAS Foundation

- Creates an initial architecture
- Proves the governance plan before proceeding
- Statewide, centrally controlled network



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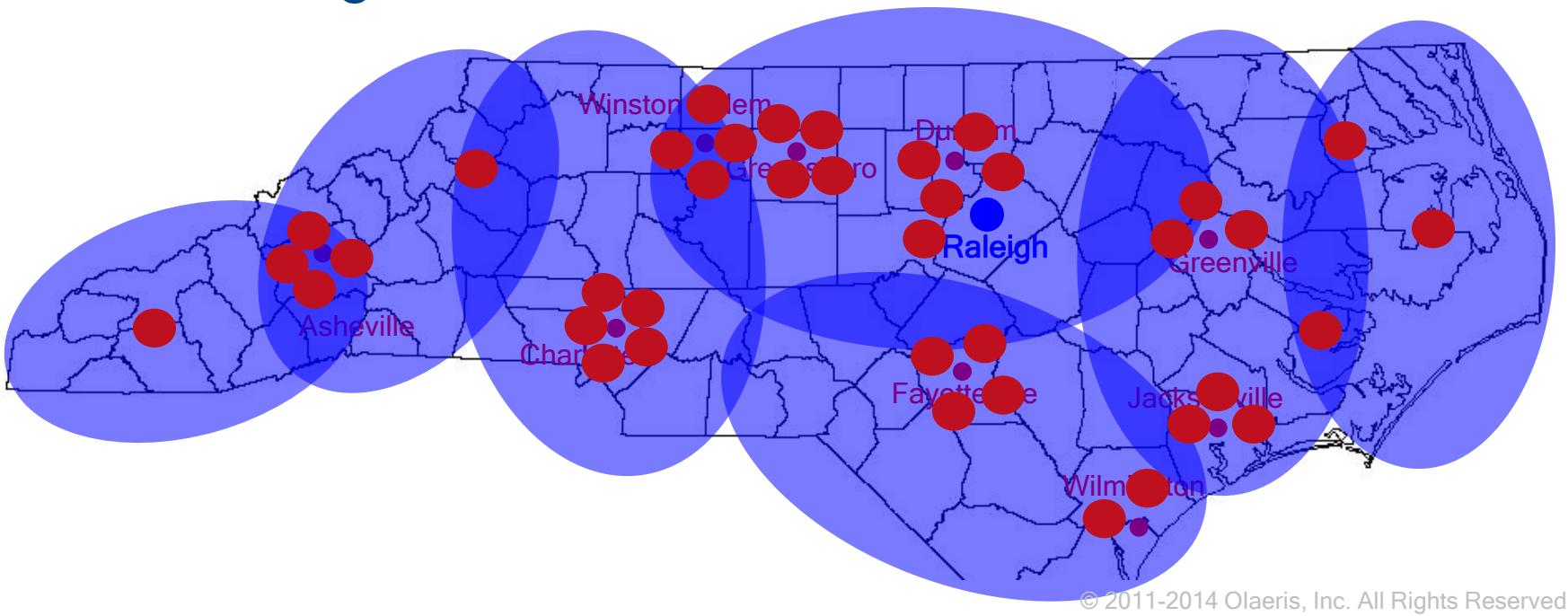
Multi-stage Integration

Cooperative UAS Network

- Gradually, local assets are added
- Capabilities and service areas expand
- Control & governance at State level



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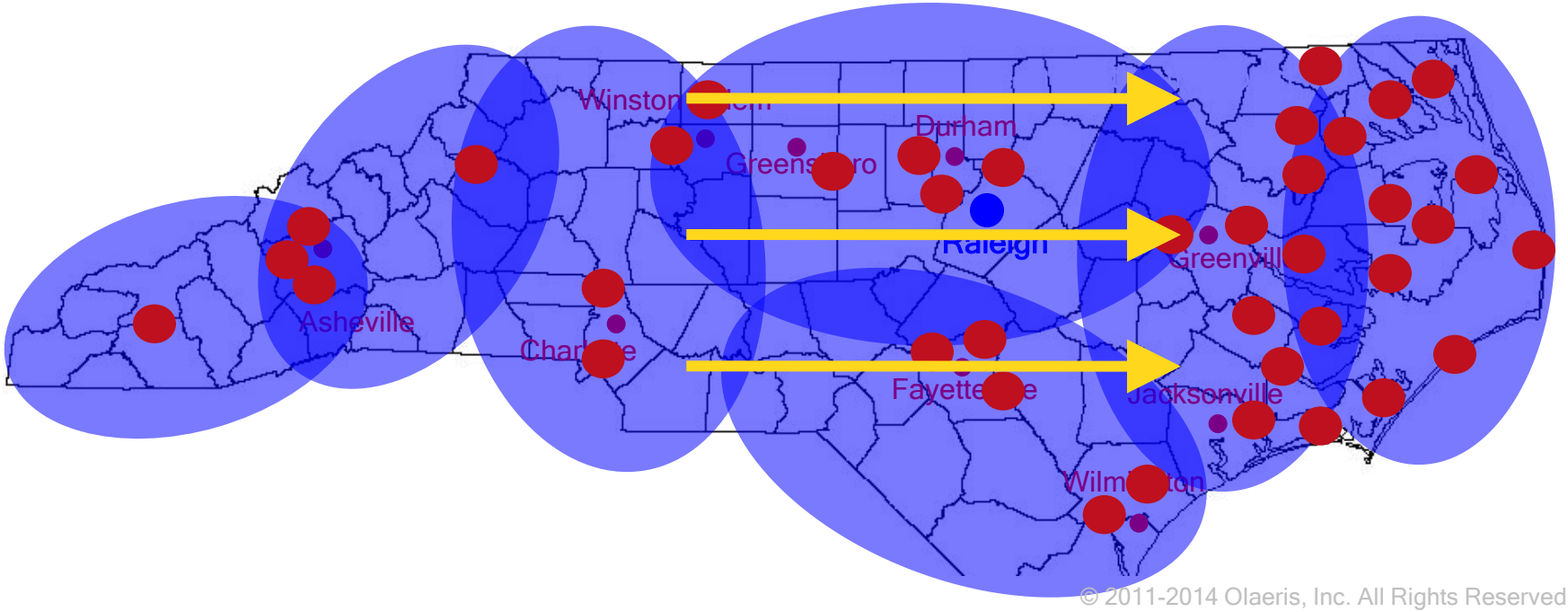
Multi-stage Integration

Flexible Emergency Assistance

- Statewide loan – share – borrow – assist
- Easy deployment where help is needed
- Arrival before field responders



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How Do We Get There ?

North Carolina State Leadership

1) Approval of the governance plan
2) Sufficient budgeting to NGAT
3) Swift execution to maintain a lead

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www.olaeris.com

Do you have any questions?

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