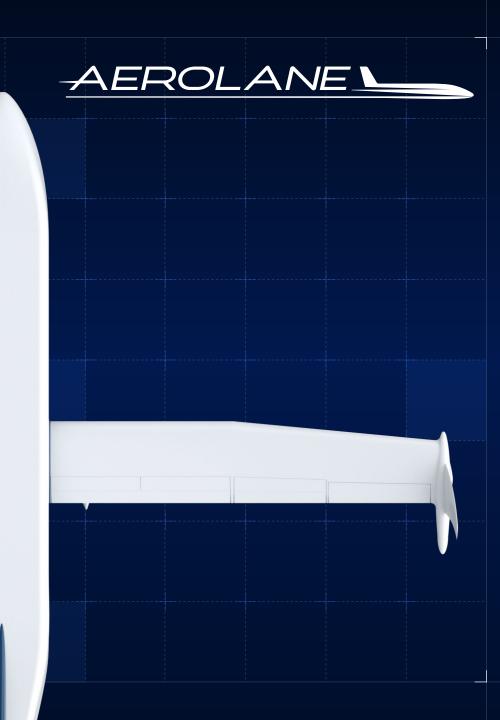
AAM 2024 Day Two Kick Off

Todd Graetz



Who am I? Why am Ihere?

In the UAS industry for 10 years...

CEO, Cofounder and investor, Aerolane

Co-Founder, BNSF Railway UAS Program

Board Member, AUVSI

Member, Flight Rules Chair, FAA BVLOS Advisory and Rule-making Committee Member, FAA Advanced Aviation Advisory

Member, UAS ID and Tracking Advisory and Rule-making Committee

Founding Member, FAA Drone Advisory Committee (DAC)

Hopelessly Addicted Pilot

Rapid injection of technology to yield positive outcomes

For example, the compressed timeline of BNSF UAS Program

- 2014- Program commences proof of performance VLOS and initial assisted/extended range VLOS
- 2015 FAA / BNSF CRDA signed, Pathfinder Program commences
- 2015 First Commercial Beyond Visual Line of Sight (BVLOS) in Lower 48 states (Insitu ScanEagle), 285 miles
- of BVLOS, no chase plane, no visual observers pure BVLOS
- 2016 First railway-specific BVLOS aircraft commenced regular flights + railway specific analytic systems.
- 2017 All new 110lbs+ railway specific BVLOS aircraft with normalized flights at ~ 250 miles round trip
- 2018 Successful launch of daily BVLOS flight service over 1200 miles of track in three states
- 2018 Program's first remote operations of aircraft flying in Montana controlled by a central team of pilots in Texas
- 2018 USAF/BNSF civilian long range drone operations in controlled/military airspace
- 2019 Nation's first Section 44807 BVLOS Aircraft for Critical Infrastructure
- 2020 Nation's first national BVLOS class G COA for BVLOS linear asset inspection
- 2021 Over 165 active pilots in 28 states, & systemwide production BVLOS approval for dock-based drones
- 2022 onward Dock based BVLOS expansion, more use cases



Rapidly approved full-scale demonstrations of a viable commercial solution.

Q1 2023

Q3 2023





Aerocart VI being towed by American Champion Decathalon (boosts 400 pound payload to 1500)

Aerocart V3 being towed by Beechcraft Queen Air (boost 1000 pound payload to 3000

AAM..is upon us

- Challenge: Design, Certify, Make and Sell
 Getting closer every day
- Challenge: Cost

 Must drive cost of transport as low as possible to benefit humanity as a whole
- © Challenge: Environnent

 Drive costs as low as possible (and) care (in totality) for the environment

From the agenda for the next session:

Anew paradigm

Appropriate strategies, policies, integration, local and regional communities. Major societal, government, infrastructure, and transportation interests, complex interdependencies, interests brought together in a collaborative manner, safely, efficiently and sustainably

What does this really mean?

We need to support each other – this is why we are here. Humans thrive on association and care for each other's visions, work and creativity and AMM needs cooperation and permissive posture by all (or) we risk derailing the entire effort

Pulling optimized gliders drives significant efficiency

Two Planes

- 2 x Cargo
- + 2 x Fuel
- + 2 x Pilot
- 2 x CapEx
- + 2 x Op Ex

Aerotowing doubles your capacity with

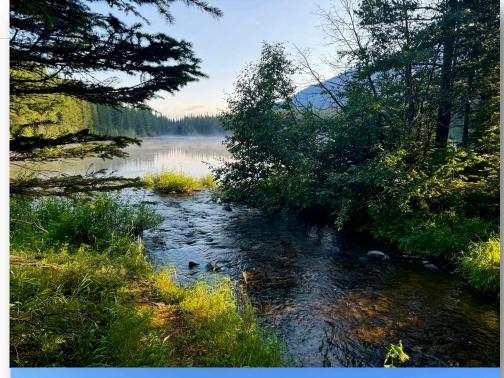
65% fuelsavings (i.e. CO2 &cost)

Plus: it's a universal solution that increases flexibility enormously...

One Plane + One Glider

- + 2 x Cargo
- + 1.35 x Fue1
- 1 x Pilot
- 1.2 x CAPEX
- 1.2 x OPEX







My Montana AAM Epiphany
..and the message for today

