



NATO AVT-353 Workshop: AI in the Cockpit of UAVs

# ASSURING AUTONOMY ON THE BATTLEFIELD

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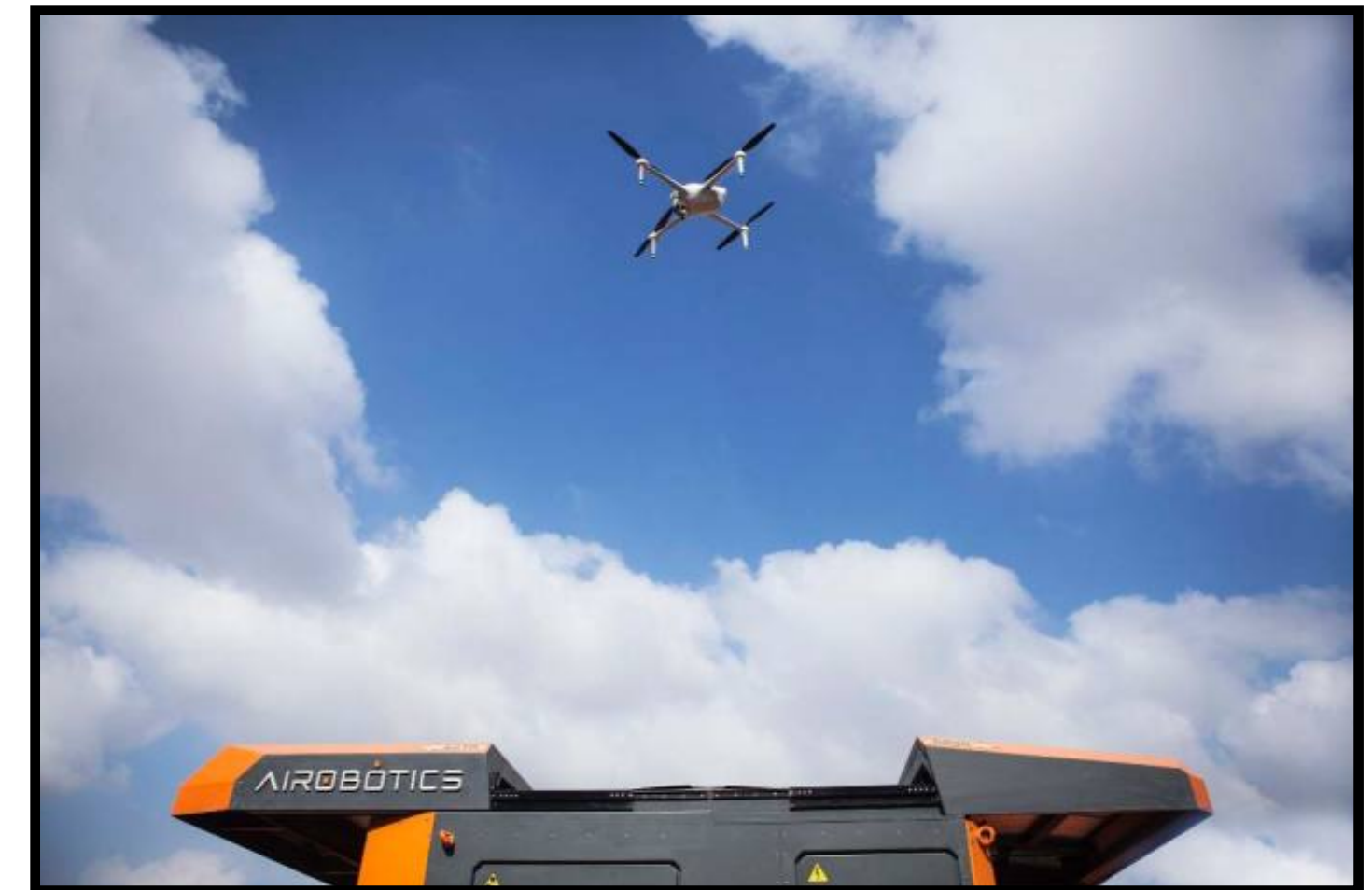
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# OVERVIEW

- Introduction
- Modern Battlefields
- Mil-Civ Connections
- Counter-UAS
- Cyber Threats
- Foreign Interference?
- Biometrics/AI
- Remote ID
- Resources
- Questions



*Image Courtesy: Elsight & Airobotics*



# INTRODUCTION

- 28 Years Military + Civil Service USAF
- Adjunct Professor ERAU-Worldwide
- Adjunct Professor CSU-Pueblo
- Columnist/Freelance Writer
- Podcaster/Conference Planner
- Consultant - Tech, Leadership, Security



*Image Courtesy: Inside GNSS Magazine*



# MODERN BATTLEFIELDS

- Multi-Domain
- Highly Networked
- Human - Machine Teams
- Remote Actors





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# **CIV-MIL CONNECTIONS**

- **Symbiotic Industries**
- **Commercial-Off-the-Shelf Tech**
- **Blurry Lines and Lanes**



# COUNTER-UAS

- UAS Used for ISR + Kinetic Attacks
- Clueless, Careless, Criminal or Combatant?
- Detect - Integrated Surveillance
- Identify - IFF / RID\*
- Mitigate- Tech to Counter
- Authorities?



# CYBER THREATS

- Ubiquitous Dangers
- Spoofing
- Jamming
- Hacking
- Tech to Counter
- Authorities



# FOREIGN INTERFERENCE?

- Cyber Vulnerabilities
- U.S. Federal Bans
- Geofencing
- Aeroscope
- “Cyber Secure” Drones
- Blue SUAS for NATO?





# BIOMETRICS / AI

- Onboard Systems - Range of Functions
- Facial Recognition
- Vital Statistics
- Legal Concerns?



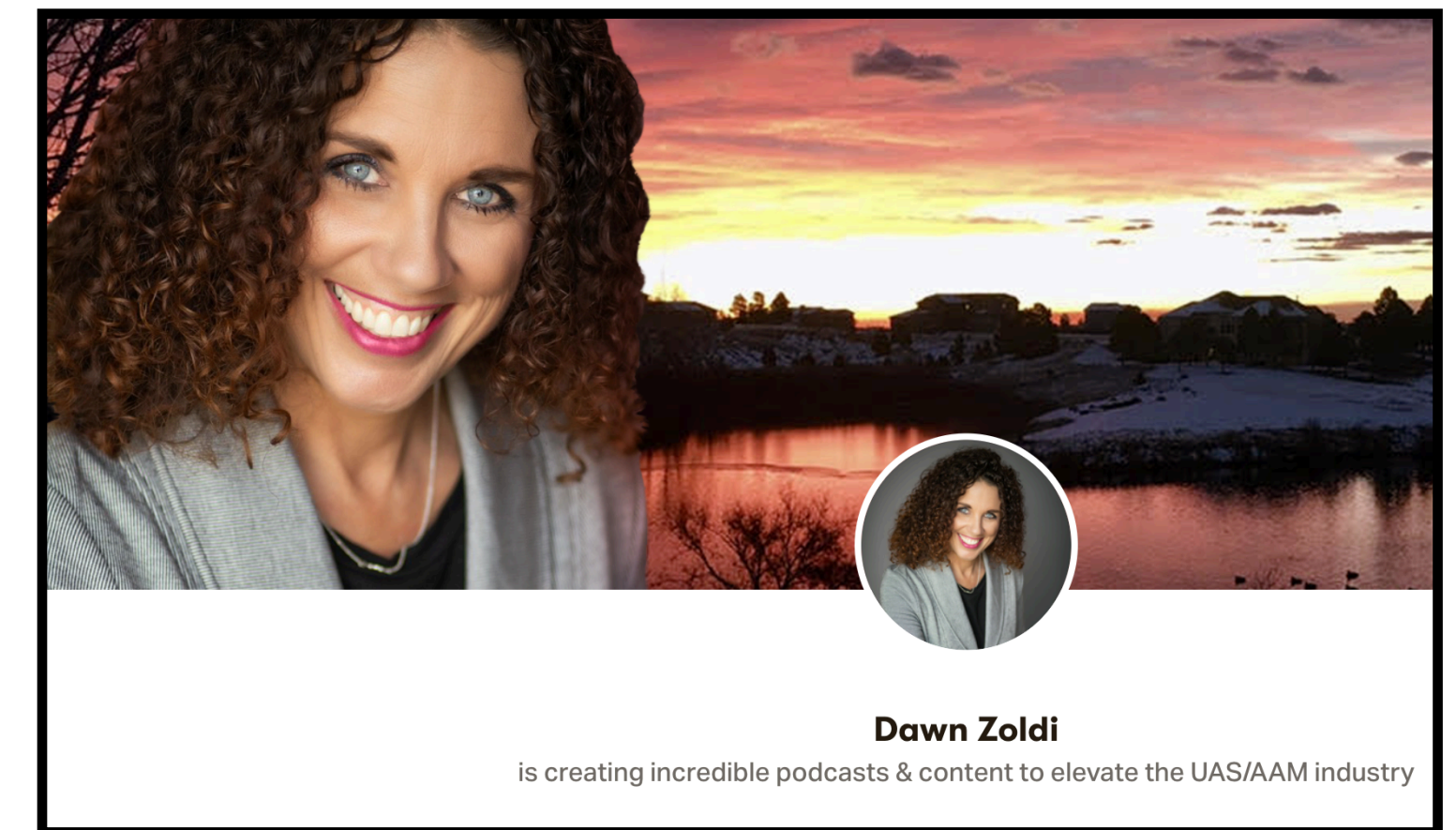
# REMOTE ID

- U.S.\* & European Rules
- Purpose - Dual Use?
- Universal Requirement?



# RESOURCES

- Website - <https://www.p3techconsulting.com>
- LinkedIn - [www.linkedin.com/in/dawn-zoldi-5bb8b181](http://www.linkedin.com/in/dawn-zoldi-5bb8b181)
- Twitter - <http://twitter.com/DawnP3T>
- Podcast - <https://dronelife.com/dawn-of-drones/>
- YouTube - <https://www.youtube.com/channel/UCFGodYF39gCI6CN6Dno6YYQ>
- Facebook - <https://www.facebook.com/p3techconsulting>
- Instagram - <https://www.instagram.com/p3techconsulting>
- Patreon - <https://patreon.com/dawnzoldi>
- Clubhouse - <https://www.clubhouse.com/@dawnzoldip3tech>





# QUESTIONS?

Contact me: [info@p3techconsulting.com](mailto:info@p3techconsulting.com)

Thank You!

