

RSAConference2022

San Francisco & Digital | June 6 – 9

TRANSFORM

SESSION ID: SAT-M01

Drones and Autonomous Vehicles: Privacy and Security vs. Surveillance

Jodi Daniels

CEO and Privacy Consultant
Red Clover Advisors, LLC

Justin Daniels

Shareholder
Baker Donelson
Emerging Technology and Security



Disclaimer

Presentations are intended for educational purposes only and do not replace independent professional judgment. Statements of fact and opinions expressed are those of the presenters individually and, unless expressly stated to the contrary, are not the opinion or position of RSA Conference LLC or any other co-sponsors. RSA Conference does not endorse or approve, and assumes no responsibility for, the content, accuracy or completeness of the information presented.

Attendees should note that sessions may be audio- or video-recorded and may be published in various media, including print, audio and video formats without further notice. The presentation template and any media capture are subject to copyright protection.

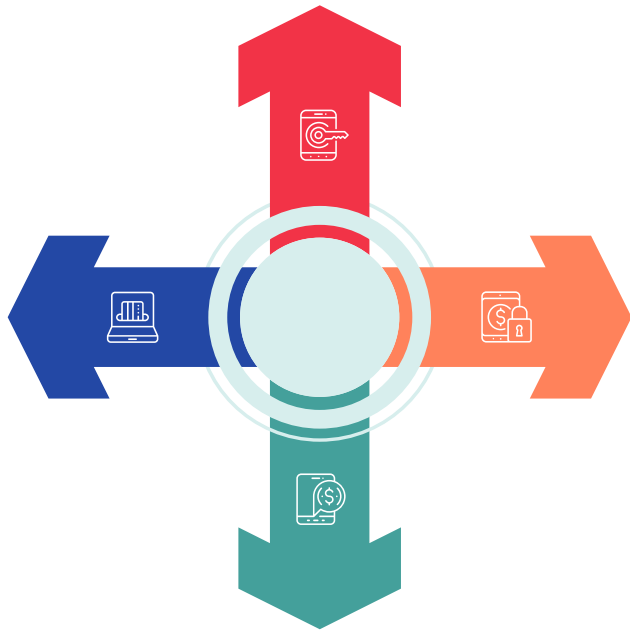
©2022 RSA Conference LLC or its affiliates. The RSA Conference logo and other trademarks are proprietary. All rights reserved.

The ideas in this presentation are not intended to be legal advice. You should seek competent legal counsel to discuss legal issues specific to your organization.

Data Collection by Land and Air



Drones and AV's Transforming Our Lives



- Take the Drone Copter from San Francisco to LA
- Smart Highways Reduce Traffic
- Shrinking the Carbon Footprint

20th Century Innovation



What Can Recent Transformation Teach Us?



What Data Is Collected?

- Facial Recognition
- Video
- Where you went
- Mapping
- Geolocation
- How Fast you Drive



What is The Current Regulatory Environment

No Federal laws directly addressing Drone and AV data collection

Certain state laws prohibit drone use for surveillance or gathering information on critical infrastructure

Federal autonomous vehicles laws deal with safety but do not address data collection or cybersecurity

State AV laws deal with licensure and safety on the road but there are now five states with data privacy laws

Global privacy laws

Ethical Considerations

What Data Should be Collected?

How is the User informed and consent?

Who can access the Data?

What happens if the data is inaccurate?

Automation: Results are believed even if inaccurate.

How is the data and access being secured?

The Stakes: If Privacy and Security are an Afterthought.....



RSA®Conference2022

Drone and AV Transformation Reimagined

Privacy and Security by Design



Privacy and Security By Design



DATA/PRIVACY

Data collection,
use, sensitivity and
privacy laws



SECURITY

Protecting the data,
AV/drone platform, and
supporting infrastructure



CONTRACT

Allocation of risk and
legal requirements

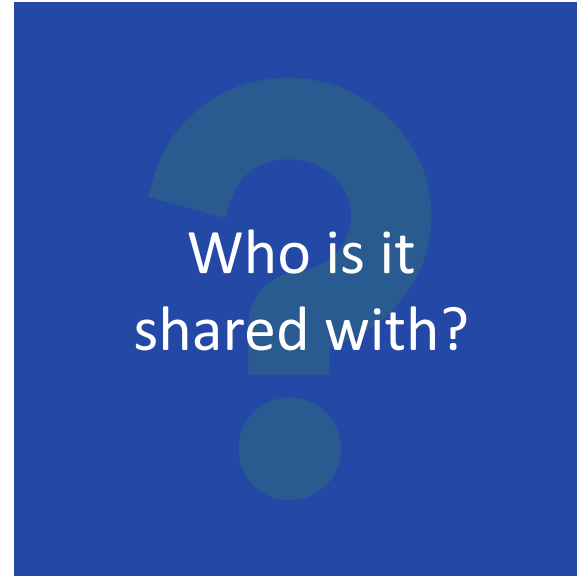
Show Me The Data



What is
collected and
how is it
used?




Where is it
stored?



Who is it
shared with?

The background of the slide features a dark blue field with vertical columns of binary code (0s and 1s) in a lighter blue. A large, semi-transparent teal shield is centered on the left side. The text 'SENSITIVE SECURITY AREAS' is written in bold yellow capital letters across the middle of the shield.

SENSITIVE SECURITY AREAS

- 
- In the top right corner, there is a cluster of colorful geometric shapes, including triangles and polygons in shades of teal, red, yellow, and blue. The hashtag '#RSAC' is written in black text on a light pink rectangular background within this cluster.
- Systems that allow threat actor to take control of the AV or drone
 - Flight controls or driving controls
 - Internet connection that allows download of software updates that may have malware
 - 5G infrastructure that also supports cellular communications

Contract Process



Pen tests and
vulnerability scans



Data collection,
use, sharing and
storage definitions



Prohibition of
combining collected
data with other data
to create personal
information.



Privacy policy
requirements



Written
infosec plan



Super caps for
data breaches



Insurance
requirements

Six Steps to Privacy and Security by Design

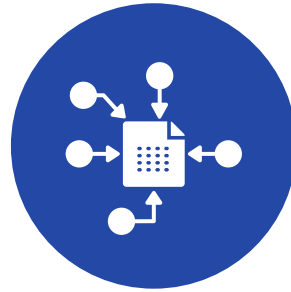


How to Incorporate Privacy & Security by Design

- **Maintain** an accurate **data inventory** including identification of sensitive data
- **Determine** if AV or drone video footage needs to be **encrypted**
- **Identify** if **5G network will support** drone/AV's in addition to existing uses and have a plan to address potential security issues
- **Ensure** all related contracts **accurately document** privacy and security practices
- **Appoint a stakeholder** to create and own the process to quickly adapt to changes in privacy laws and the technology

Final Thoughts

Drones and AV will transform our world and to ensure privacy and security are protected we need to



Learn from
prior
technology



Balance ethics
vs. surveillance



Incorporate
privacy &
security by
design



Justin Daniels

Shareholder, Baker Donelson
Atlanta

www.bakerdonelson.com
jdaniels@bakerdonelson.com



Jodi Daniels

CEO & Privacy Consultant, Red Clover Advisors

www.redcloveradvisors.com
jodi@redcloveradvisors.com

