

Telecommunication at Airports—Trends and Legal Considerations

May 17, 2022



Today's Learning Objectives

- **Establish contracts and policies related to new internet and cellular system uses in airports**
- **Assess spectrum management and establish practices to reduce interference issues**

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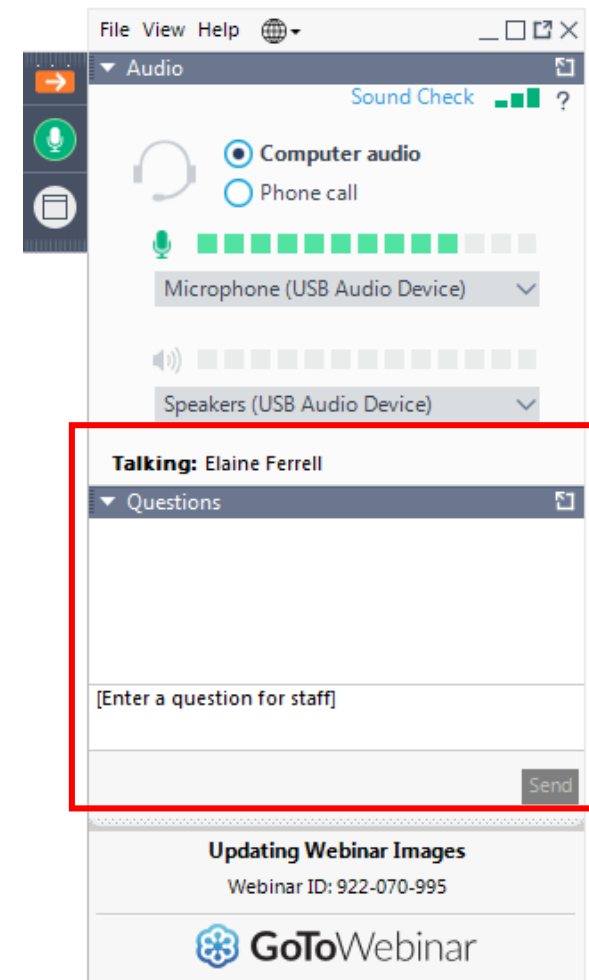
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Questions and Answers

Please type your questions into your webinar control panel

We will read your questions out loud, and answer as many as time allows

#TRBwebinar



Joseph Huber

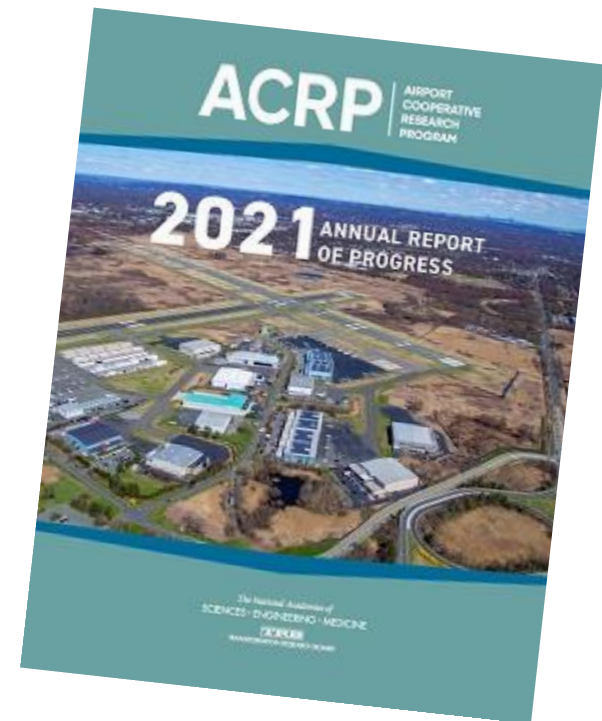
Cincinnati / Northern Kentucky International Airport (CVG)

- Chief Legal Officer at CVG
- Joined CVG in 2010 and has held various roles in contract administration, DBE/ACDBE programming, procurement, planning & development, supply chain, and legal.
- Since 2022, serves on ACRP's Panel: Legal Aspects of Airport Programs.



ACRP is an Industry–Driven Program

- Managed by TRB and sponsored by the Federal Aviation Administration (FAA).
- Seeks out the latest issues facing the airport industry.
- Conducts research to find solutions.
- Publishes and disseminates research results through free publications and webinars.



Today's Speakers

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Presentation Overview

- **Telecommunication Trends**
- **FCC Classification of Cellular and Internet Services**
- **Cellular and Internet Business Strategies**
- **Network Management**

Telecommunication Trends

- **Demand for Bandwidth**
- **Business Needs and Consumer Habits**
- **Network Enhancements**
- **Industry Competition**

Telecommunication Trends

- **Demand for Bandwidth**
 - Bandwidth is the amount of data a system can transmit and receive over a course of time
 - Licensed vs. unlicensed spectrum

Telecommunication Trends

- **Business Needs and Consumer Habits**
 - Fiber to the Edge
 - CBRS
 - DAS vs. Wi-Fi

Telecommunication Trends

- **Network Enhancements**
 - 5G data speeds – millimeter wave
 - IT department shift to manage cloud services

Telecommunication Trends

- **Industry Competition**
 - Cellular carriers desire to provide higher bandwidth
 - CBRS Landscape

FCC Service Classifications

- **Telecommunications Services**
- **Information Services**
- **Commercial Mobile**
- **Private Mobile**

Antenna Siting

- **5G Small Cell Rule Changes**
 - Application and Annual Fees
 - Aesthetic Requirements
 - Shot Clock
 - Restrictions on Application Denials

Antenna Siting

- **OTARD**
 - Cannot unreasonably delay or prevent installation, maintenance, or use of an antenna, where antenna is
 - One meter or less in diameter
 - Within exclusive use and control
 - In an area with an ownership or leasehold interest
 - Transmitting fixed wireless signals
- **Matter of Continental Airlines**
 - Found Massport's restrictions on Continental's use of Wi-Fi pre-empted by OTARD

Business Strategies

- **Use case for each airport**
- **Cellular and Internet Deployment Approaches**
 - Private
 - Third Party Servicer
 - Public Networks
 - Hybrid

Network Management

- **Service Provider Agreements**
 - Clear statement of purpose
- **Service Level Agreements**
 - Verifiable and enforceable
- **Spectrum Management**
 - Active role or hands off approach



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Other Events for You:

June 30, 2022

**ACRP Webinar: Implementing Biometric Technologies
at Airports**

September 19-21, 2022

Conference on Scenario Planning in Transportation

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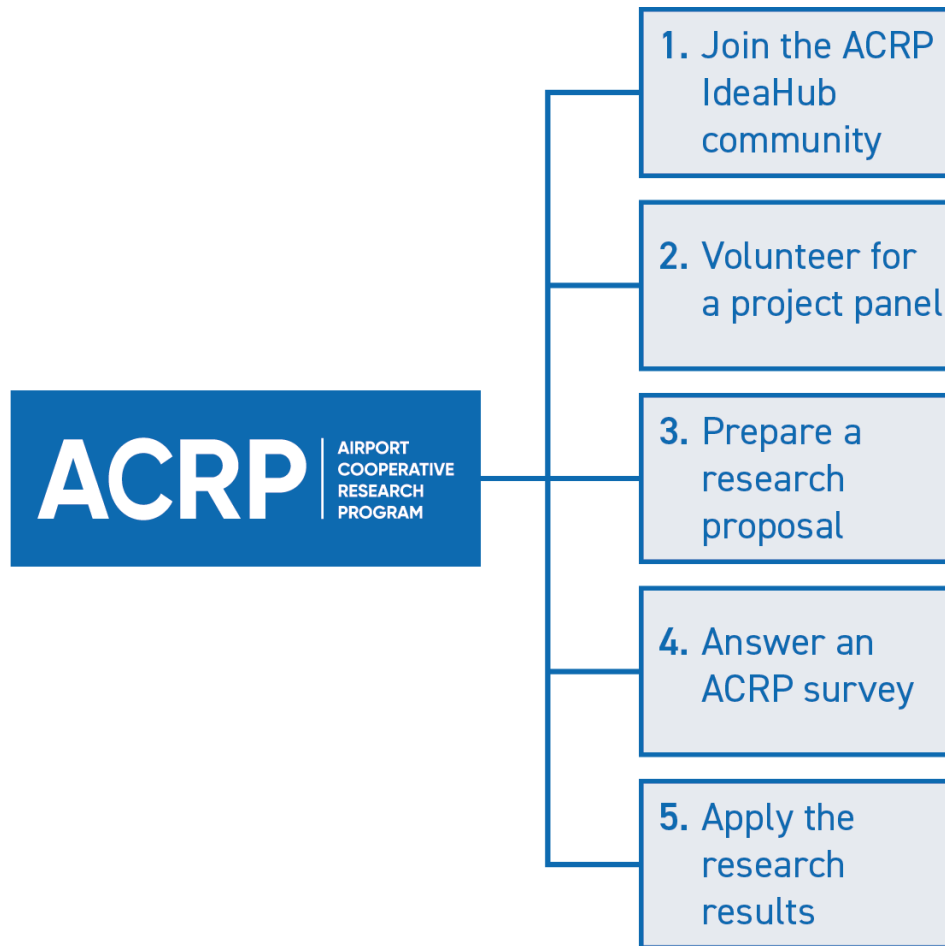
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Other ACRP Research on Today's Topic

Research Report 127: *A Guidebook for Mitigating Disruptive WiFi Interference at Airports*

Research Report 153: *Guidebook for IROPS Stakeholder Communication and Coordination*

Research Report 191: *A Primer to Prepare for the Connected Airport and the Internet of Things*

Synthesis 62: *Cell Phone Lots at Airports*

Synthesis 73: *Emergency Communications Planning for Airports*

Synthesis 101: *Communication Strategies for Airport Passenger Access and Mobility*

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