Aircraft Certification Update

Federal Aviation Administration

Presented to: Aviation Suppliers Association

By: Dan Elgas, Manager, Strategic Policy Branch

Aircraft Certification Service Policy and Innovation Division (AIR-600)
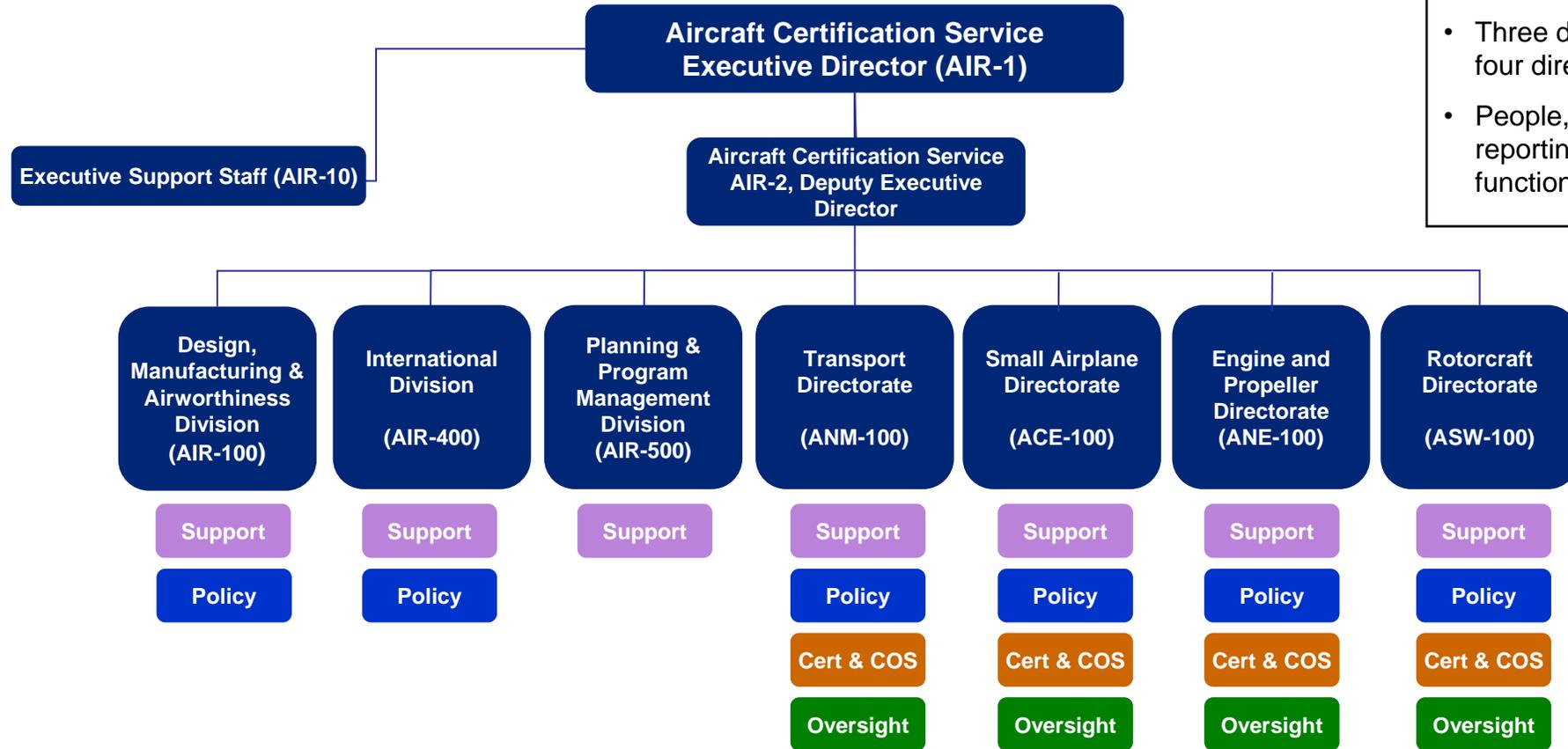
Date: June 6, 2022

Agenda

- Aircraft Certification Service (AIR)
  - Transformation & Refinement

- COVID-19: Lessons Learned and Opportunities

- The Aircraft Certification, Safety, and Accountability Act (ACSAA)

- Regulatory and Policy Updates

- Authorized Release Certificat

- The FAA's Dynamic Regulatory System (DRS)
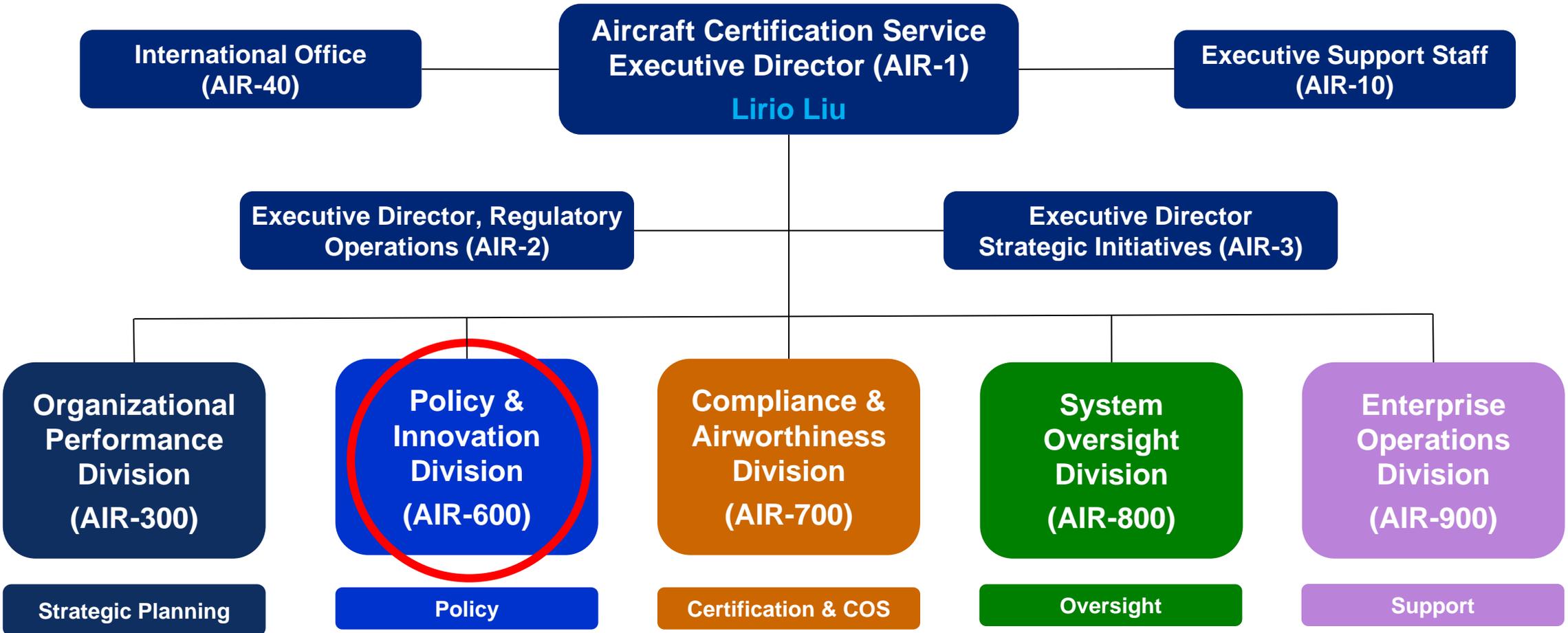
- Q&A

Pre-2017 AIR's Organizational Structure

AIR prior to Refinement:

- Three divisions, two policy offices, and four directorates
- People, work, and management reporting chain aligned by region, not function
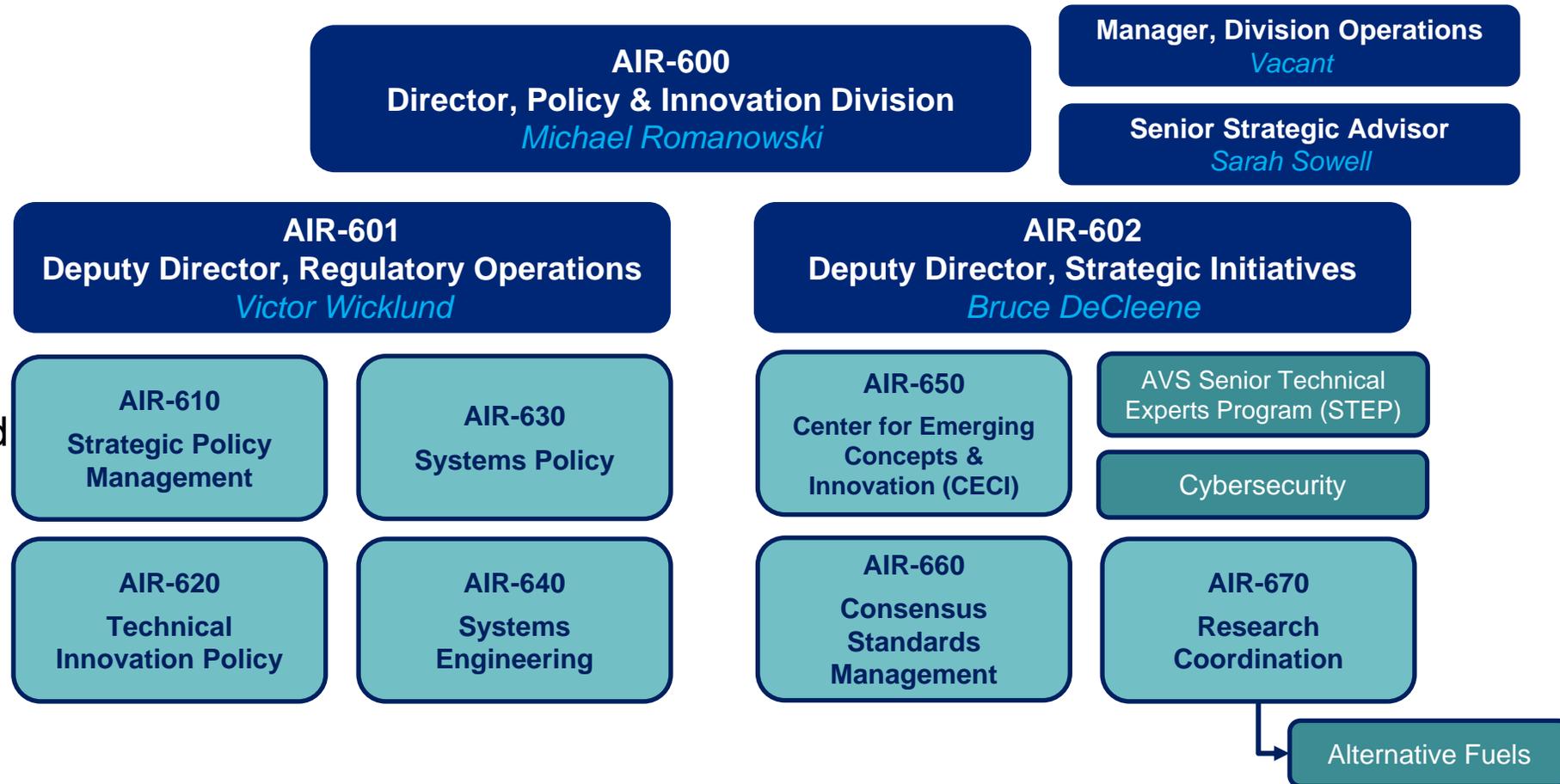
Aircraft Certification Service Executive Director (AIR-1)

Executive Support Staff (AIR-10)

Aircraft Certification Service AIR-2, Deputy Executive Director

Design, Manufacturing & Airworthiness Division (AIR-100)	International Division (AIR-400)	Planning & Program Management Division (AIR-500)	Transport Directorate (ANM-100)	Small Airplane Directorate (ACE-100)	Engine and Propeller Directorate (ANE-100)	Rotorcraft Directorate (ASW-100)
Support	Support	Support	Support	Support	Support	Support
Policy	Policy		Policy	Policy	Policy	Policy
			Cert & COS	Cert & COS	Cert & COS	Cert & COS
			Oversight	Oversight	Oversight	Oversight

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Current - Aircraft Certification Service

Aircraft Certification Service Executive Director (AIR-1)
Lirio Liu

International Office (AIR-40)

Executive Support Staff (AIR-10)

Executive Director, Regulatory Operations (AIR-2)

Executive Director Strategic Initiatives (AIR-3)

Organizational Performance Division (AIR-300)

Policy & Innovation Division (AIR-600)

Compliance & Airworthiness Division (AIR-700)

System Oversight Division (AIR-800)

Enterprise Operations Division (AIR-900)

Strategic Planning

Policy

Certification & COS

Oversight

Support

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Policy & Innovation (AIR-600)

Realignment:

Implemented Dec. 2020 to achieve:

- Functional alignment
- Improved agility
- Improved collaboration and consistency
- Strengthened technical expertise
- Better aligned strategic outcomes and priorities

AIR-600
Director, Policy & Innovation Division
Michael Romanowski

Manager, Division Operations
Vacant

Senior Strategic Advisor
Sarah Sowell

AIR-601
Deputy Director, Regulatory Operations
Victor Wicklund

AIR-602
Deputy Director, Strategic Initiatives
Bruce DeCleene

AIR-610
Strategic Policy Management

AIR-630
Systems Policy

AIR-650
Center for Emerging Concepts & Innovation (CECI)

AVS Senior Technical Experts Program (STEP)

Cybersecurity

AIR-620
Technical Innovation Policy

AIR-640
Systems Engineering

AIR-660
Consensus Standards Management

AIR-670
Research Coordination

Alternative Fuels

COVID-19: Lessons Learned

Virtual Evaluation/Remote Technology (VE/RT)

- AIR-700 and AIR-800 tracked VE/RT best practices and challenges

- Best Practices

  - Conducting a dry run, plan in advance, received documents and drawings up front, and have a back-up plan in case RT does not work

- Challenges

  - Mainly technology issues, background noise, different time zones, lighting, longer time to conduct audit, numerous other distractions (i.e., email, phone calls, other), ITAR restrictions, and too many people involved

- Consensus is that VE/RT works, often takes time, upfront planning, and training

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Aircraft Certification, Safety, and Accountability Act

The Aircraft Certification, Safety, and Accountability Act (ACSAA), Division V, Title I (Public Law 116-260):

- Signed into law December 27, 2020

- AIR coordinating actions closely with Flight Standards (FS)

- Contains 37 sections, many of which pertain to AIR

- Some overlap with existing activity

- AIR continuing to work closely with FS in addressing requirements

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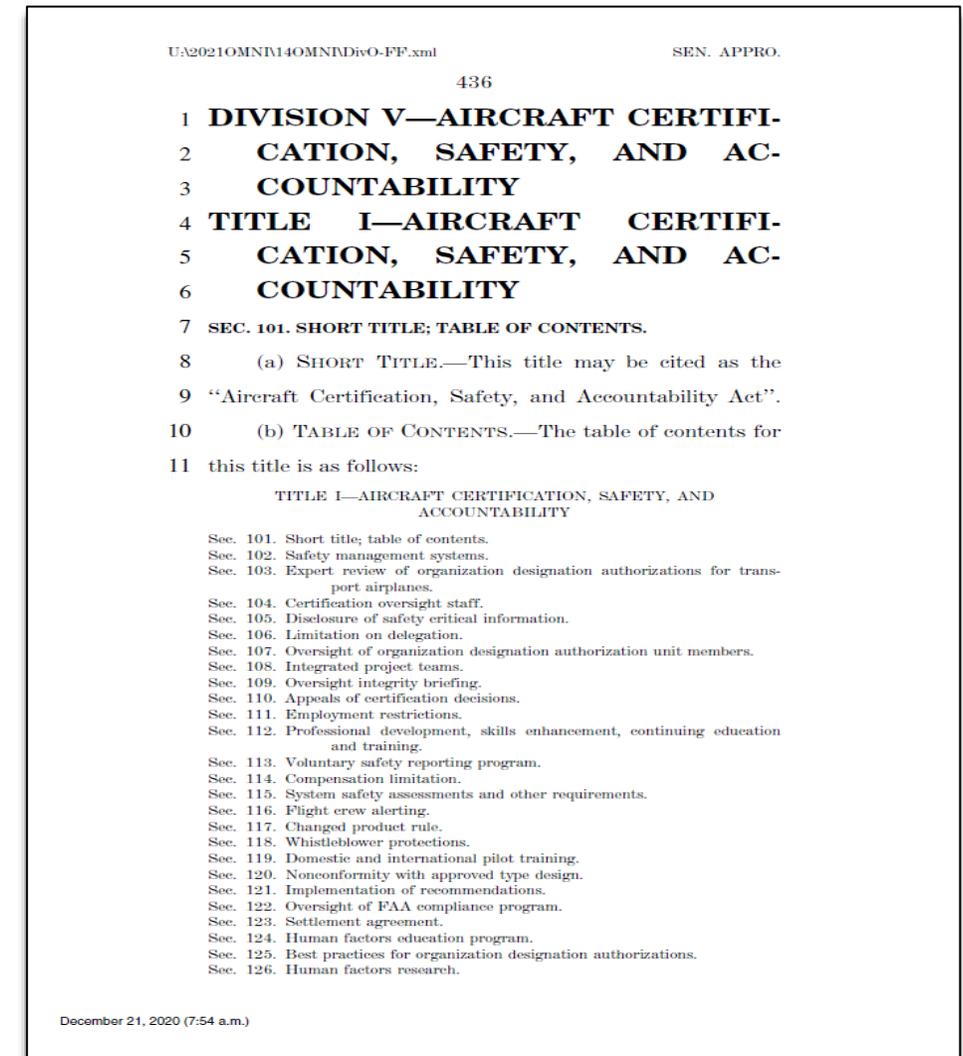
Regulatory & Policy Updates

Rulemaking

- Safety Management Systems (SMS)

- System Safety Assessments (SSA) for part 25

- Disclosure of Safety Critical information

Policy Efforts

- Changed Product Rule (CPR) International Authorities Working Group (IAWG)

- Issue Resolution and Appeals

- Delegation

- Human Factors and Flightcrew Coordinating Group (HFFCG) / HF Expert Safety Review Panel (HFESRP)

- UAS / AAM policies

Authorized Release Certificate 8130-3

- **FAA Order 8130.21 – Procedures for Completion and Use of the Authorized Release Certificate**
  - Draft significantly reduces the content in the order to focus on the instruction for completion of the 8130-3
  - Order reduced to just over 10 pages, down from 71.
- **Issues**
  - Still a need to ensure that parts are exported with an 8130-3 regulation and bilateral agreements
  - Exporters responsibility

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Dynamic Regulatory System

- **Comprehensive knowledge center for all AVS regulatory guidance**
  - Online now at http://drs.faa.gov
- **Builds on RGL capabilities**
  - Complex search engines and filters, including cross referencing all documents to related CFR
  - Currently replicates from RGL daily
  - Goal is to decommission RGL at the end of 2022
- **Feedback is welcome and encouraged**
  - Use "DRS Feedback" button in DRS

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Questions?

Questions & Feedback:

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➢ **daniel.j.elgas@faa.gov**