## **AVS Human Factors Research Roadmap Overview**



Hannah Baumgartner, Ph.D. By:

Colleen Donovan

March 30, 2022 Date:



### **Presentation Outline**

- Background of AVS HF Research Roadmap (DRAFT)
- Contents of the Roadmap
- Next Steps

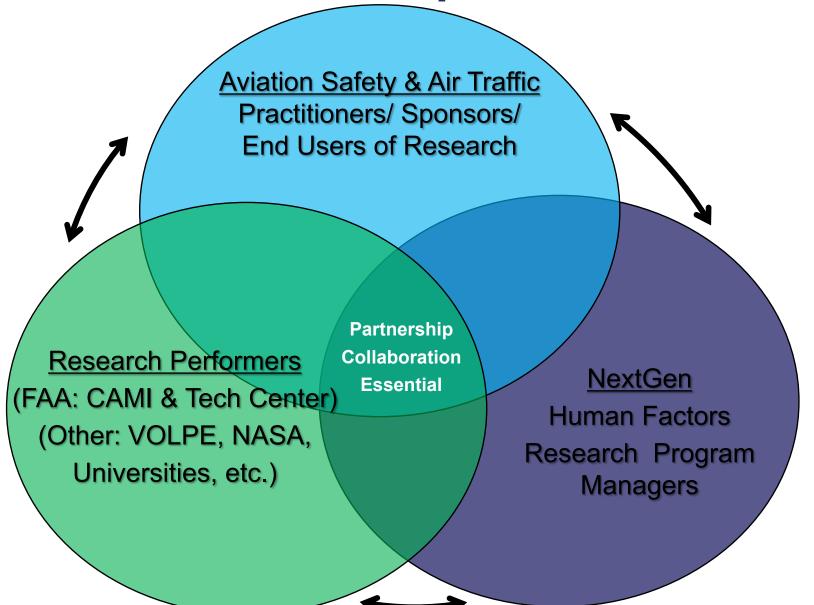


## **Background**

- Modeled after the FAA Unmanned Aircraft Systems (UAS) Advanced Air Mobility (AAM) Integration Research Plan
- High-Level, Strategic Overview A Living Document
- Single-Source Document for Aviation Safety Human Factors Research:
  - Projects in Progress and Planned (Tentatively Approved for Funding)
  - Across Budget Line Items (BLIs)
  - Justification
- To Be Used
  - In Conjunction with Aviation Safety (AVS) Budget Line Item 5-Year Plan (Required Annually)
  - As Educational Information for New FAA Employees, Managers, REDAC, etc.



### Roles and Responsibilities



# **AVS HF Research Roadmap – Table of Contents**

- A. Purpose
- B. Background
- C. Research Facilities
  - 1. Department of Transportation (DOT) and FAA Research Facilities
  - 2. Other Research Organizations Currently Funded
  - Centers of Excellence
- D. List of AVS Sponsored Human Factors Research
- E. Specifics on AVS Human Factors Research Topic Areas
  - 1. Integrating Human Factors into Aircraft Certification & Flight Standards Methods & Processes
  - 2. Pilot Training, Procedures, & Operations
  - 3. Managing Human Error
  - 4. Advanced Flight Deck Technologies and Operations
  - 5. Human Fatigue
  - Maintenance and Human Factors
  - 7. Human Factors in Helicopter Air Ambulance Operations

## **Table of Contents – Appendices**

- A. Projects in Progress and Planned
- B. Access to Human Factors Research Reports and Websites
- C. Background Information for Researchers on Working with Aviation Safety (AVS)
- D. Justification for Human Factors Research
  - 1. Human Factors in the Media (FAA Administrator Quotes, Hearings, etc.)
  - 2. Human Factors in the Aircraft Certification, Safety and Accountability Act (ACSAA)
  - 3. Human Factors in the National Transportation Safety Board (NTSB) Report
  - 4. Human Factors in the Joint Authorities Technical Review Report (JATR)
  - 5. Human Factors in the DOT Special Committee Report (SpecComm)
  - 6. Etc.



### **Next steps**

- Coordinating Draft with Key Stakeholders
- Formal Coordination through Aviation Safety
- Iterative Process for Updating Draft Based on Comments
- Living Document Planning for Annual Updates

#### **Contact Information:**

Hannah.M.Baumgartner@FAA.gov Colleen.Donovan@FAA.gov