

**COE TTHP Fourth Annual
Technical Webinar Meeting**

YEAR 4 OVERVIEW

Dean Martha Banz

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**Center of Excellence for
Technical Training &
Human Performance**

Year 4 Activities

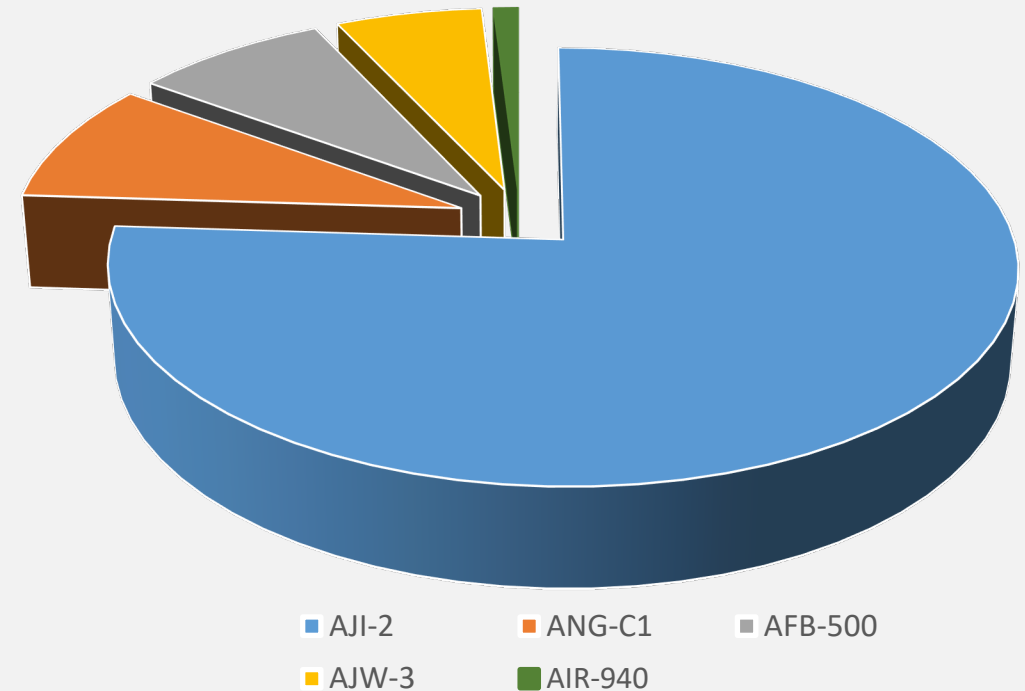
- Onboarding of new funders: FAA NextGen and FAA Aircraft Certification Services/Enterprise Operations
- Multi-institution collaborations: Testing the Feasibility of UAS-based Flight Inspection and Facilitating Tech Transfer: OU, Ultra Lightweight VOR/ILS Receiver and OK State, ILS Zone 3 Measurement
- Submission of 20+ research concepts to assist the FAA with addressing COVID-19 (e.g., Impacts on FAA ATC/Tech Ops Training, Pilot and Airline Crew Safety, and Facility Operations)

At-A-Glance Metrics	Outcomes
# Core Institutions	15
# Research Grants	70+
# Principal Investigators	50+
# Subject Matter Experts	40
# Student Researchers	100+
# Industry Partners	50
# Affiliate Members	10

Current Funders (\$7.18M)

Federal Aviation Administration

- AJI-2, Air Traffic Organization (~\$4.85M)
 - 27 projects
- ANG-C1, NextGen (~\$650K)
 - 1 project
- AFB-500, Flight Standards (~\$575K)
 - 5 projects
- AJW-3, Flight Program Operations (~\$425K)
 - 5 projects
- AIR-940, Aircraft Certification Services/
Enterprise Operations (~ \$68K+)
 - 1 project



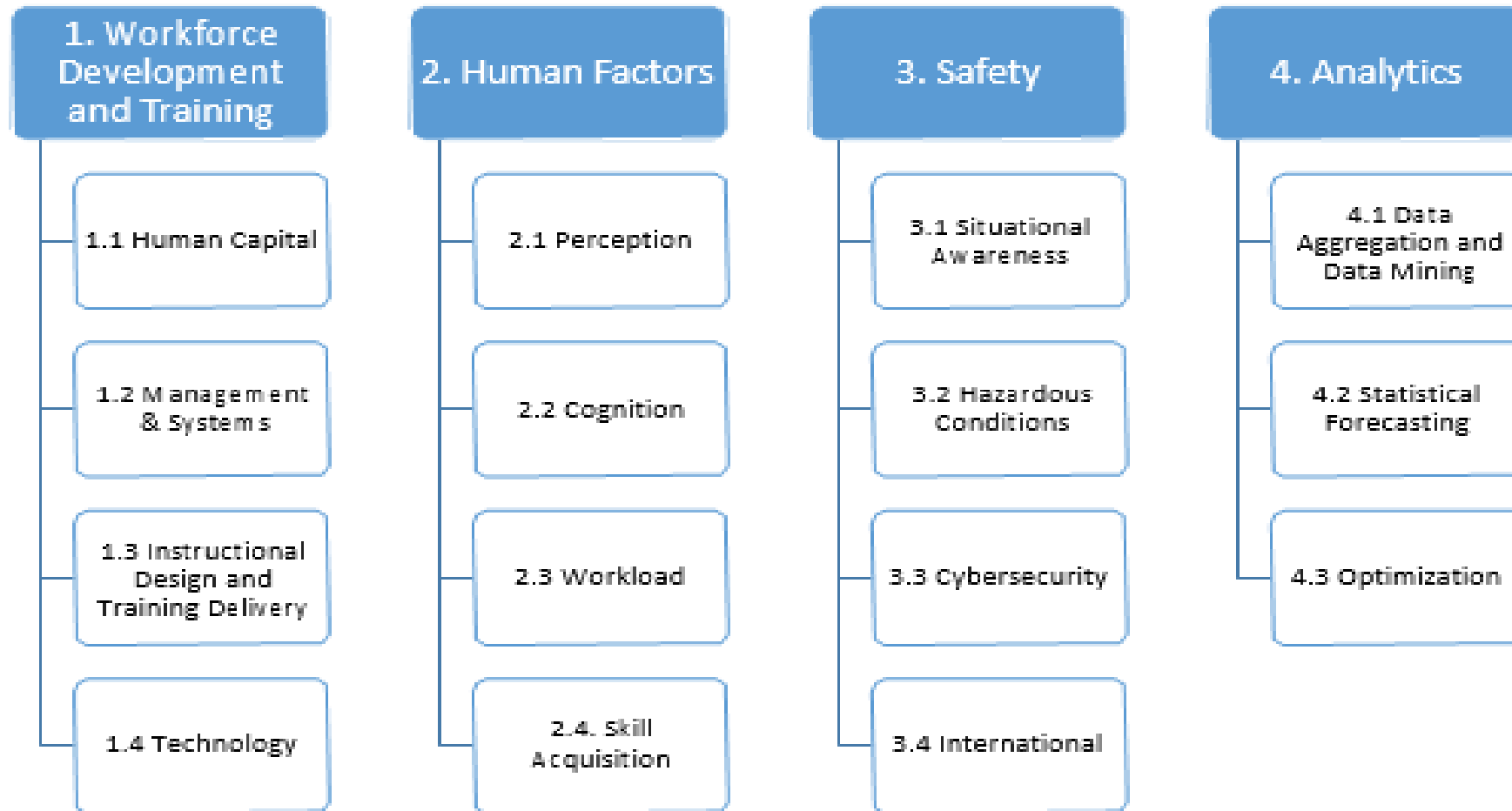
** Per Public Law 101-508: The federal share shall be 50% of the costs of conducting research activities.

Center Industry and Government Partners

- 1st American Systems and Service
- Adacel
- Addx Corporation
- Air Traffic Simulation, Inc.
- American Airlines
- ATA, LLC.
- ATAC
- AVT Simulation
- Blackboard
- C² Technologies
- Ceros Solutions
- Chickasaw Nation Industries
- Choctaw Nation of Oklahoma
- CI² Aviation
- Computer System Designers
- CSSI
- Crew Training International
- **Delta Air Lines**
- FAA Civil Medical Aerospace Institute
- Florida NextGen Test Bed
- Eduworks Corporation
- **Essential Aero**
- Frasca International, Inc.
- **Garmin International**
- General Dynamics IT
- Hucon Global
- Instructure, Inc. & Canvas Network
- Infina, Ltd.
- JMA Solutions
- KeyBridge Technologies
- Leidos
- Metacraft
- Northrop Grumman
- Orion America Technologies
- Pilot Training System
- Rigil Corporation
- Robinson Aviation
- RTSync
- SAIC
- Serco
- SkySoft ATM
- Skymantics LLC
- Stinson and Associates
- TetraTech
- The Ritz Group
- TransLumen Technologies
- UFA, Inc
- **U.S. Air Force**
- Veracity Engineering
- **Virtual Flight Academy**
- Volpe Center
- Washington Consulting Group, Inc.

Phase I Research Roadmap

Main Research Themes



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FAA ATO UPDATE

*Abigail Smith, FAA Director of Air Traffic
Organization's Technical Training*

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**Center of Excellence for
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Federal Aviation Administration Update from the Air Traffic Organization

- Highlights of Technical Training during COVID-19 pandemic
 - Meeting Tech Ops training needs through A5 collaborative efforts
 - Delivering Air Traffic Basics courses virtually
 - Deployed over 5,000 iPads to the field in support of virtual course delivery and supplemental training
- ATO Research Opportunities driven by COVID-19 pandemic
 - Need agility around human factors of distance learning and reduced staffing levels training a remote workforce on systems
 - Training a remote workforce on systems (for technicians)
 - Remote learning on simulations (for controllers and technicians)
- FAA COE TTHP Year 5 / Phase II