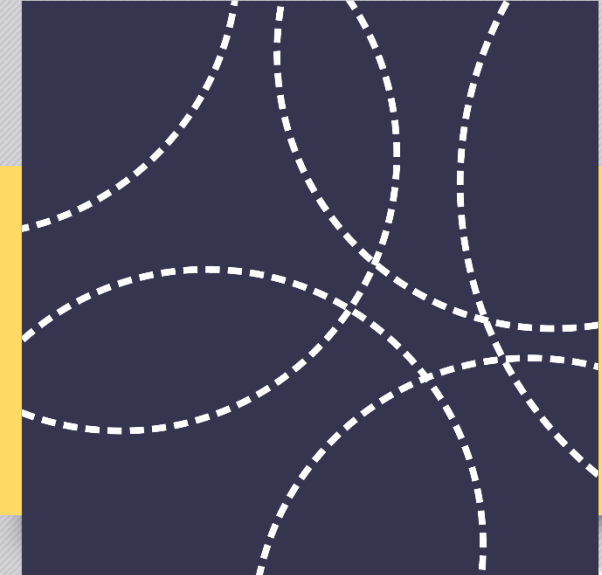


Year 2 Overview

Dr. Mark Friend, ERAU

COE TTHP



SOAR

Our Mission

To establish and manage a consortium of government, academia, and industry collaboration to evaluate and create solutions for the enhancement of the training and operational performance of all air transportation personnel.

<https://coetthp.org/>

COE TTHP Institutions

ERAU, OU, WSU - Leads

- Consortium unites over 60 organizations from the public sector, private sector, and academic institutions
- 16 core universities
- 10 affiliate universities
- 30+ industry partners
- FAA's AJI-2, AJW-3, AFB-500



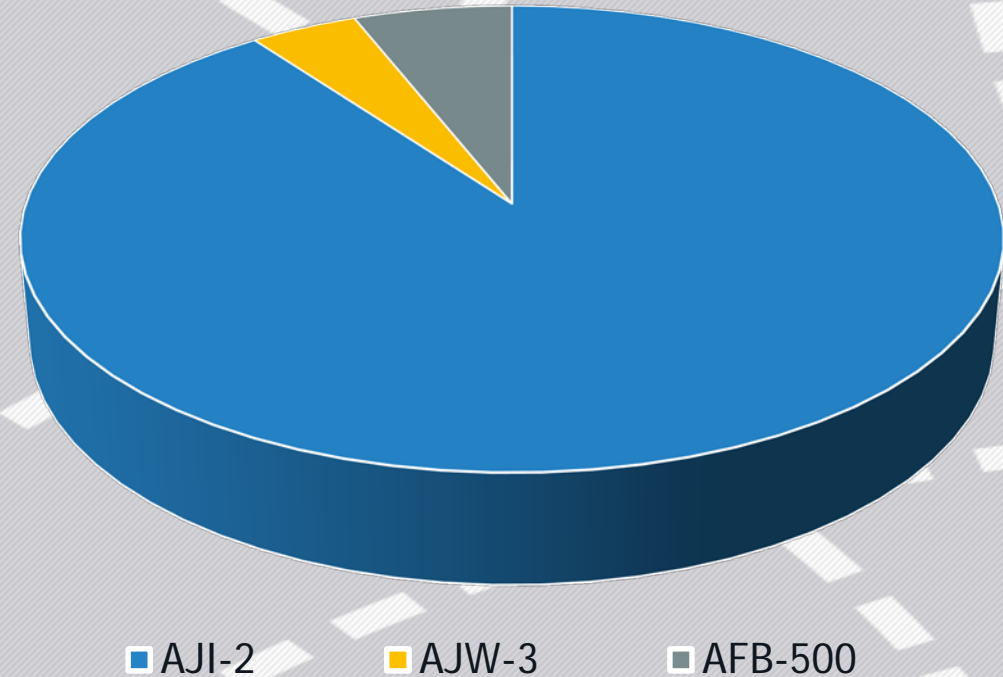
COE TTHP Year 2 Highlights

- First round of research for is complete (or close to it) for 11 projects
- 10 new projects awarded this year
 - 3 AJI-2
 - 4 AJW-3
 - 3 AFB-500
- Task forces created
 - Research Strategy
 - Fund Development & Partnership
 - Outreach & Communication
- Research discussions with Navy, Air Force, DoD
- Outreach initiatives at conferences, meetings

At-A-Glance Metrics	Year 2 Outcomes
# Core Institutions	16
# Affiliate Members	10
# Industry Partners	40
# Principal Investigators	50
# Subject Matter Experts	30
# Student Researchers	55
# Research Tasks	33

Funding Sources

- Government Agency, FAA
- AJI-2, Technical Training (\$5.47M)
- AJW-3, Flight Program Operations (\$249K)
- AFB-500, Flight Standards (\$367K)



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

Research Focus Areas and Missions

- **Analytics, 5 projects:** To research strategies for implementation of learning analytics that can inform recommendations on the best processes and systems for training.
- **Curriculum Architecture, 6 projects:** To seek to modernize curriculum using new technology and design approaches with an emphasis on linking curriculum to specific job tasks.
- **Content Management & Delivery, 8 projects:** To implement comprehensive strategies that integrate the different course elements across multiple courses and enhance delivery methods through the use of technology.
- **Human Factors, 5 projects:** To apply human factors concepts and lessons learned to develop and/or enhance remedial and refresher technical training programs.
- **General/Safety, 5 projects:** To research, inform, and incorporate safety aspects within training outcomes for multiple groups to include but not be limited to inspectors, air traffic controllers, and field technicians.
- **Simulation and Part-Task Training, 4 projects:** To research best practices for implementing and evaluating current and new techniques utilizing simulation and part-task technology to sharpen participant learning.

Through Year 2, into Year 3

- Evaluate our efforts, our value as a COE, and our direction
- Craft research recommendations for implementation by the FAA
- Identify strategically valuable research with and for the FAA
 - 3 years from now, 2021
 - 5 years from now, 2023
 - 10 years from now, 2028
- Assess how research will shape the future FAA, NAS, COE TTHP
- Target our resources for FAA, DoD, and other funded applications
- Leverage this meeting to create new goals and research opportunity