

COE TTHP 5th Annual Virtual Administrative Meeting

New Research Projects

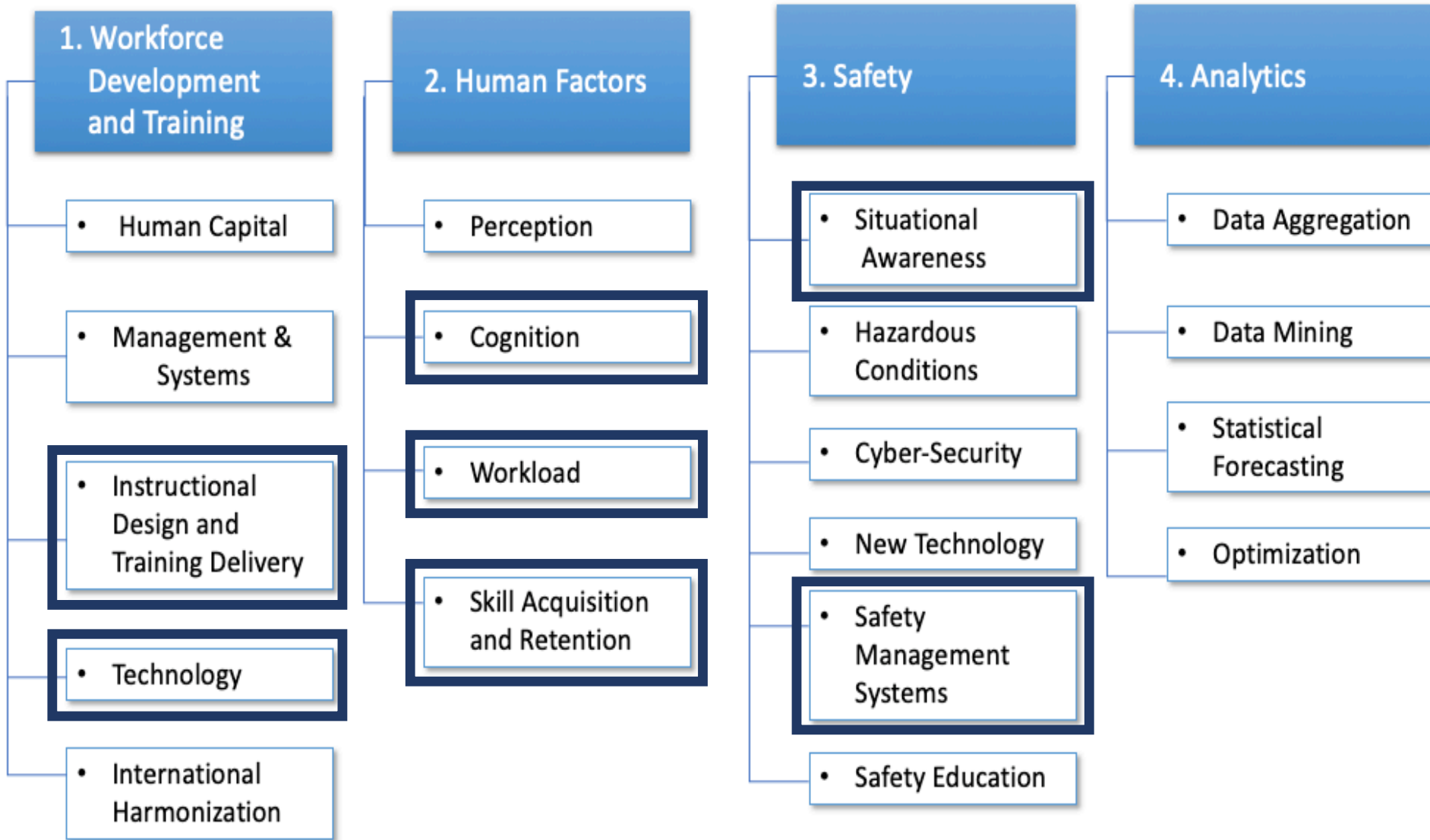
ATO Safety and Technical Training

AJF Flight Program Operations Safety Division

ATO Training Technologies Group



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



New Research Projects

- **Course to Module Conversion Protocol**
Dr. Adam Manley, Western Michigan University
- **Flight Operations Safety Assessment**
Dr. Seth Young, The Ohio State University
- **Evaluation of the RIGIL Flight Training Technology Platform
Vectoring Basic and Advanced Mobile Application**
Dr. Scott Tarry, University of Nebraska, Omaha

Evaluation of the Rigil Training Technology Platform: Basic and Advanced Vectoring Mobile Applications

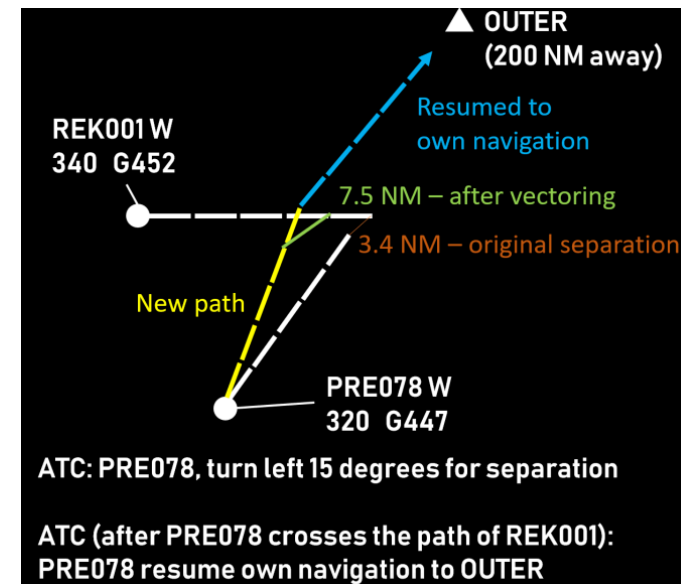
Research Team/Subteam Leads:

- Drs. Scott Tarry & Victor Huang (UNO), *Project Oversight/Reporting*
- Craig Carlson & Paul Drechsel (UND), *Design/Data Collection*
- Dr. Traci Hart (WiSU), *Evaluation*
- Dr. Chen Ling (Akron), *Evaluation*

Institution POCs for Data Collection (N=250+):

1. Drs. James Birdsong & James Witte (Auburn)
2. Caroline Ocasio (IAU) 3. Gary Wescott (TCC)
4. Dr. Seth Young and Melanie Dickman (Ohio State)
5. Dr. Robert Dionne, Stephen West, and April Millaway (OU)
6. Drs. Brian Dillman & Dr. Denise Whitford (Purdue)
7. Craig Carlson & Paul Drechsel (UND)
8. Drs. Scott Tarry & Victor Huang (UNO)

- **FAA Sponsor:** Susan O'Hara, Manager, Training Technologies Group, FAA ATO (AJI-2)
- **FAA Technical Monitor:** Karen Callihan
- **FAA Subject Matter Expert:** Matt Royston
- **Industry Partner:** Rigil Corporation



Source:
Skybrary.aero

Evaluation of the Rigil Training Technology Platform: Basic and Advanced Vectoring Mobile Applications

Research Question: *Is there a significant difference between pre- and post- app use in the understanding and application of vectoring skills? (Variables: ATC experience, Aviation experience, STEM aptitude, age, gender)*

Impact: *Results from the study will be used to enhance existing and influence future mobile applications used for technical training. This includes support of a governance structure and process for selection and maintenance of advanced training technologies used by FAA ATO.*

Evaluation of the Rigil Training Technology Platform: Basic and Advanced Vectoring Mobile Applications

- Timeline: Study will be completed by September 2021
 - Literature Review & Research Design – Fall 2020
 - Data Collection – Spring 2021
 - Analysis and Report – Summer 2021

