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FAA Center of Excellence for  
Technical Training and Human Performance

**RESEARCH STRATEGY TASK FORCE**

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Center of Excellence for Technical Training & Human Performance

# Updated FAA COE TTHP Research Roadmap

## 1. Workforce Development and Training

1.1 Human Capital

1.2 Management and Systems

1.3 Instructional Design and Training Delivery

1.4 Technology

## 2. Analytics

2.1 Data Aggregation and Data Mining

2.2 Statistical Forecasting

2.3 Optimization

## 3. Safety

3.1 Situation Awareness

3.2 Hazardous Conditions

3.3 Cybersecurity

3.4 International

## 4. Human Factors

4.1 Perception

4.2 Cognition

4.3 Workload

4.4 Skill Acquisition

The updated research roadmap is a combination of inputs from the COE TTHP Executive Committee, Drexel University – Technical Meeting Year 2 and Research Roadmap Retreat at OU – Norman Campus.

## Next Steps for the Research Strategy Task Force (11/6 – 11/7)

COE TTHP Business Meeting Year 3 – Day 1 Afternoon – vet the research roadmap draft packet – themes, subthemes, purpose statements, questions

- Identify relationships between the research areas – themes and subthemes
- Identify cross-cutting themes among past, current, and future topics
- Identification of applicable industry sectors (e.g., how can we apply the roadmap to FAA business lines such as ATO, Airports, Flight Standards, Flight Program Operations, Next Gen, Safety, etc.)
- Identify resources to address research needs (e.g., faculty leads for research themes, institutional capacity per themes and subthemes, etc.)

## Post Meeting Next Steps (November – December 2018)

After the roadmap draft is revised, the information packet will be sent to core and affiliate representatives to solicit the following:

- Rank the strength of your institution in the four research areas
- Identify researchers and capacity (e.g., labs and facilities) that match to the themes and specific research questions

Feedback should be submitted to Dr. Scott Tarry and Dr. Seth Young prior to the holiday break (12/15)

## Contact Information

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