

COE TTHP 5th Annual Virtual Administrative Meeting

TASK# HF-015:

**EFFECTIVE TRAINING AND CHECKING METHODS FOR THE
EMERGING PILOT WORKFORCE**

PRINCIPAL INVESTIGATOR:

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STUDENTS:

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Victoria Beasley (ADED)

5th Annual Virtual Administrative Meeting



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

FAA Project Scope

- The purpose of this research is to provide scientific and technical data on effective training and checking methods for the **current and projected pilot workforce**, with emphasis on **pilot information management, decision-making, command judgment**, and **flight path management**.
- Data will support updates to guidance for FAA inspectors and operators.
- Data-driven training guidance based on the findings of the research may be added to FAA regulations.

Objectives

1. Assess current practices and learning methods for current and next generation of pilots.
2. Provide scientific and technical data to support recommendations for training the emerging pilot workforce.

Project Team

FAA

Kathy Abbott, PhD – Chief Scientific and Technical Advisor for Flight Deck Human Factors – Executive Sponsor

Barbara Adams – Management and Program Analyst – Co-sponsor

Chuck Perala, PhD – Program Manager, NextGen Human Factors

Auburn University

James Birdsong, PhD - PI (AVTN)

Jim Witte, PhD (AVTN)

Kurt Reesman (AVTN)

Carl Thompson, Captain (Ret), Delta (AVTN)

David Miller, Captain (Ret), American (AVTN)

Ana Franco-Watkins, PhD (PSYC)

Matthew Miller, PhD (KINE)

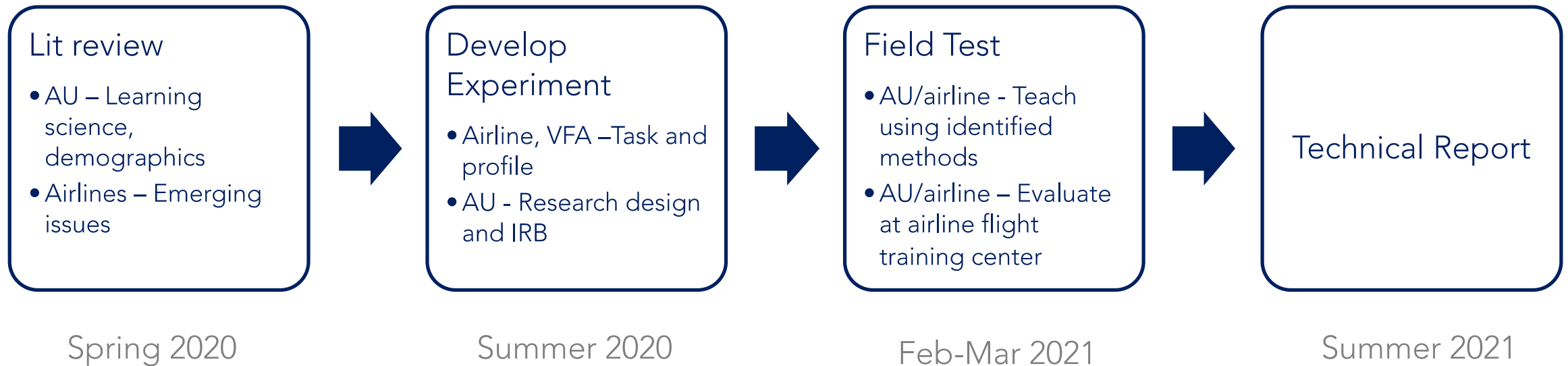
JoEllen Sefton, PhD (KINE)

Industry

Virtual Flight Academy
AI Partner

Delta Air Lines

Planned Project Flow



Auburn submitting 12-month NCE (Nov 2020) but working to stay on planned timeline as best as possible

Milestones

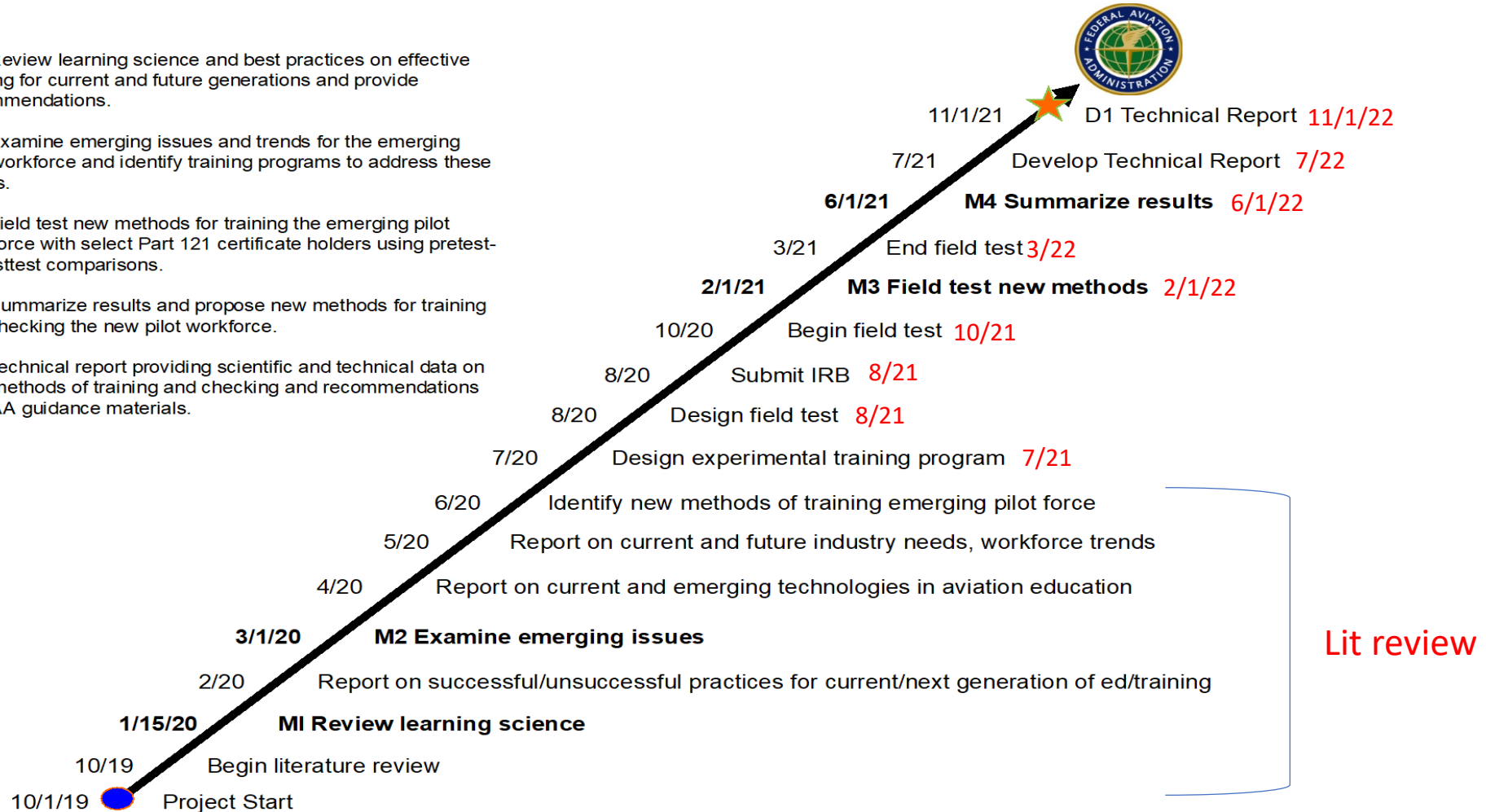
M1: Review learning science and best practices on effective training for current and future generations and provide recommendations.

M2: Examine emerging issues and trends for the emerging pilot workforce and identify training programs to address these issues.

M3: Field test new methods for training the emerging pilot workforce with select Part 121 certificate holders using pretest-to-posttest comparisons.

M4: Summarize results and propose new methods for training and checking the new pilot workforce.

D1: Technical report providing scientific and technical data on new methods of training and checking and recommendations for FAA guidance materials.



Questions?

