

Jason Bittner, PMP, MPA. July 2025

Ahead of the Curve

Course Updates & Conversions

2025 AASHTO RAC Annual Meeting







Agenda

- Introductions
- ▶ Ahead of the Curve objective and background
- ▶ Updates to the Training Program
- ▶ Project Status and Next Steps



Research Team



ARA

- · Jason Bittner, Principal Investigator
- Neil Janes, Administrative support and researcher
- Mike Betts, Instructional designer
- Brian Garmon, Strategic communicator
- · Lisa Schofield, 508-compliance specialist
- · Elena Kiselev, Graphic Designer

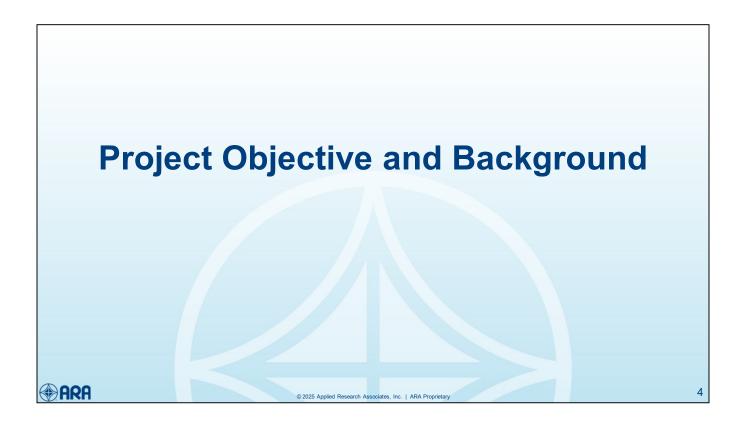


▶ Backstreet Consulting

Chris Hedges, research manager/subject matter expert

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Project Background

Ahead of the Curve Idea:

- ▶ Develop and deliver a coordinated and continuing training program that enhances the knowledge, skills and abilities of those who manage transportation research programs
- Original course brain-child of a TRB task force
 2010-2011
- ▶ NCHRP project series developed course content





Background and History

2011

TRB Technical Activities Council

- Initial Discussions
- Course Development
- TRB Conduct of Research Committee

2012 - 2023

NCHRP Projects

 Developed four core courses and twelve elective courses

2025

Transfer to AASHTO

- Technical Training Solutions (TTS)
- Course Updates
- 508-compliant course addition

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Slide 6

NJ0 Insert dates and other relevant history of the project Neil Janes, 2025-06-10T17:08:03.257



AOTC Program Objectives

High Quality

Ensure high quality research programs and projects

Value

Better communicate the <u>value</u> of research and results to others

Stature

Raise the profile and awareness of transportation research management

Community

Help create a
community
of practice and sense
of belonging to a
profession



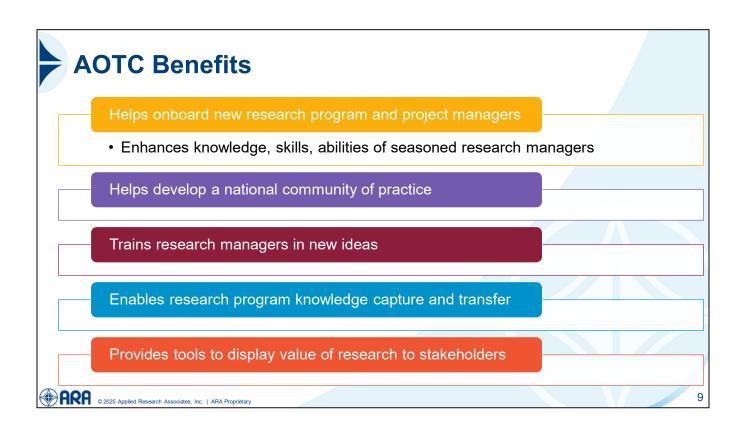
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Ensure high quality transportation research programs and projects that contribute to meeting transportation goals.

Better communicating the value of research and research results to those outside of the research community, particularly those with the ability to implement innovation and technology enhancements.

Raising the stature of those who manage transportation research and innovation programs.

Providing those who manage research and innovation programs with a sense of belonging to a profession, a community for networking and for sharing good practices, and pride in serving society.

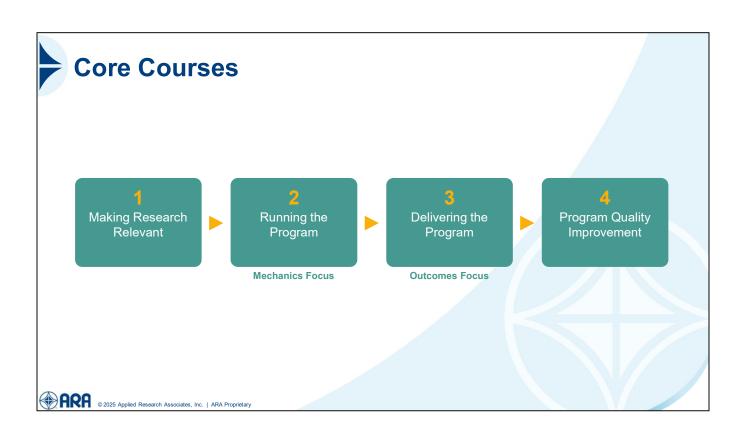




AOTC Overview

- ▶ Four Core Courses
 - Making Research Relevant
 - Running the Research Program
 - Delivering the Program
 - Quality Improvement
- ▶ Twelve electives
 - Ranging from intellectual property to research needs statements
- ▶ Courses included in next slides







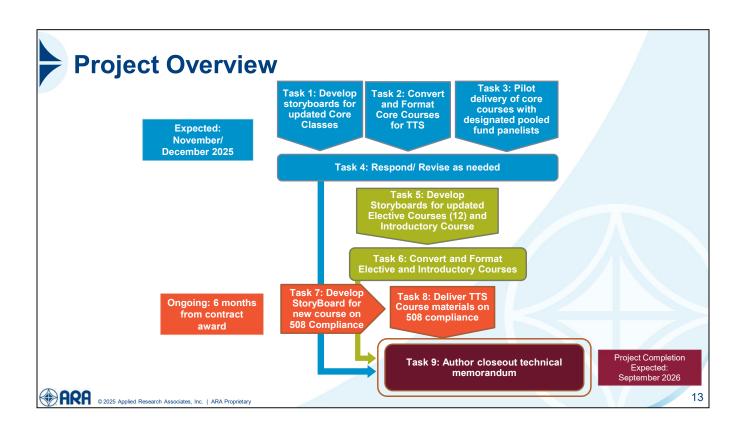
Elective Courses

- 1. Effective Problem Statements
- 2. Performance Measurement
- 3. Knowledge Management
- 4. Building a Champion Driven Research Program
- 5. Innovation Management and Risk Management
- 6. Funding

- 7. Scientific Methods
- 8. Intellectual Property, Innovation and Technology Transfer
- 9. Strategic Planning for Research
- Building Trusted Research Partnerships
- 11. Continuous Quality Improvement
- 12. Program Design

New Project is adding a course on Accessibility and 508 Compliance







Highlights

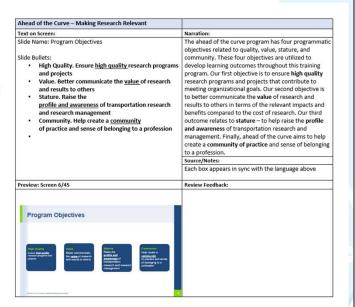
- ▶ Course delivery migration
 - •In-person to virtual/on your own time
- Course updates
 - Streamlined presentation
 - Enhanced student engagement/interaction
 - Updated info
- ▶ New 508-Compliance course





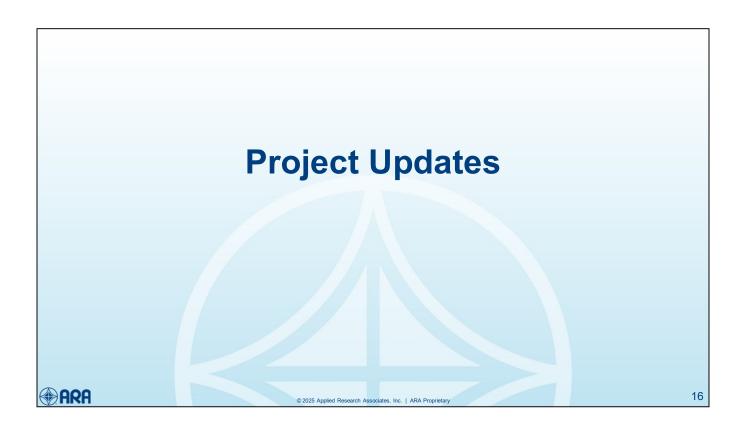
Storyboard Format

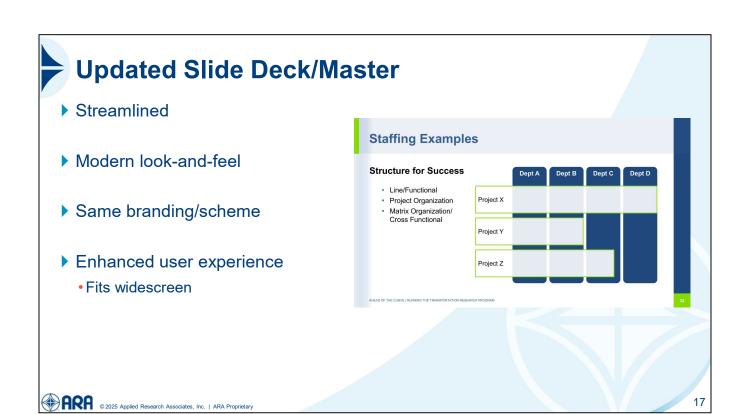
- Visual roadmap of a narrative
- Breaks down individual slides including narrative and slide features
- Offers ongoing comments/feedback
- ▶ Maps out user experience
- Includes
 - Text on screen
 - Slide preview
 - Narration
 - Notes
 - Review Feedback





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Updated Master

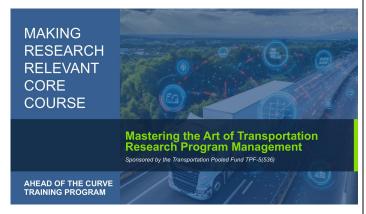
Before



Making Research Relevant Core Course

Ahead of the Curve Training Program:
Mastering the Management of Transportation Research
Sponsored by the National Cooperative Highway Research Program Project 20-105

After





Updated Master

Before

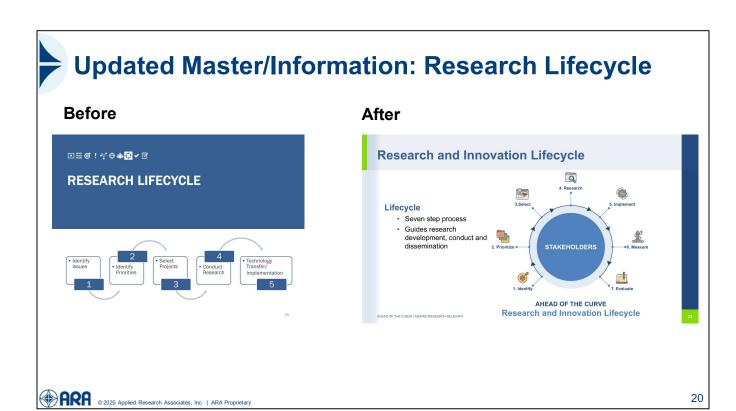
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PROGRAM GOAL AND OBJECTIVES

Overview of the Ahead of the Curve Training Program

After









Student Engagement/Interaction

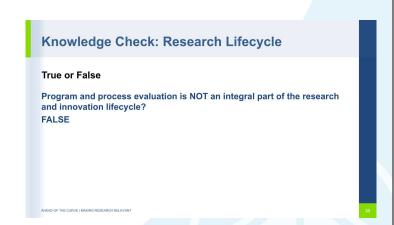
- ▶ Changing format/delivery method requires enhanced engagement
- ▶ Goal: interaction every ~15 minutes
 - · Best practice in online engagement
- New features
 - Handout style exercises
 - "Knowledge check" style quizzes





Knowledge Checks

- ► Found throughout each presentation
- Summarizing sections of each course
- ► Integrate into AASHTO TTS Learning Management System







Engagement Activities

- Variety of engagement activities
- ▶ Intent
 - · Hands on approach
 - Apply course material
 - Content/format varies
- Examples
 - Web-quests
 - Elevator speech exercise
 - Develop your own "cheat-sheet"
 - Application of resources/websites



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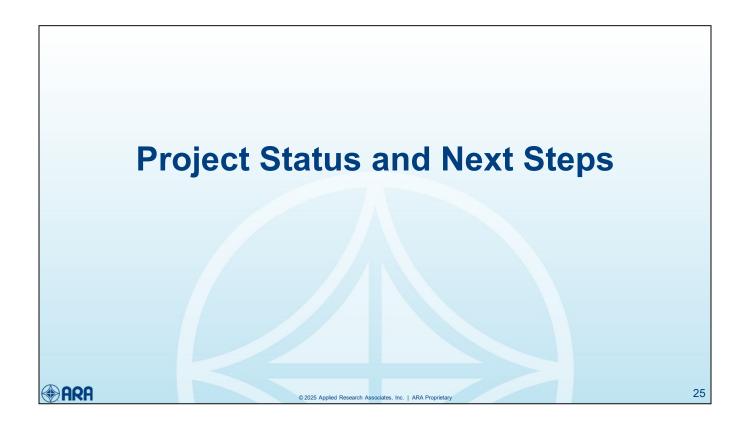


Sample: Elevator Speech

- ▶ Intent: students develop their own elevator speech on the importance/value of their research program
- Handout-style exercise walks through key steps
 - Students write, record, and revise their elevator speech
- Includes slide placeholder within presentation
 - · Walks through intent and outcome of exercise









LMS Integration

- ▶ Utilizing Al-developed voice to read script/narration
- ▶ SCORM files integrate seamlessly into AASHTO's TTS LMS





Project Status

- ▶ Developing course storyboards have all 4 core courses ready for review
- ▶ SCORM files for TTS LMS
- ▶ Started on 508-compliance course
- ▶ Content updates to core courses and elective courses





508-Compliance Course

- ▶ 105-120 minute training course on 508-Compliance
- ▶ Title: Ensuring Digital Accessibility: A Guide to Section 508 Compliance
- ▶ Course outline
 - Overview of accessibility, disability, and assistive technologies
 - Legal landscape
 - Web Content Accessibility Guidelines (WCAG)
 - Creating accessible documents
 - Accessible multimedia





Next Steps

- ▶ Meet and discuss updates with panelist and committee
- ▶ Continue to highlight the AI voice narratives, training for better sound





