



www.capriasphalt.us



Vision for CAPRI

A forum that engages all stakeholders to advance asphalt pavement technologies through the development of **national research needs** and **implementation strategies**.



CAPRI – Goals

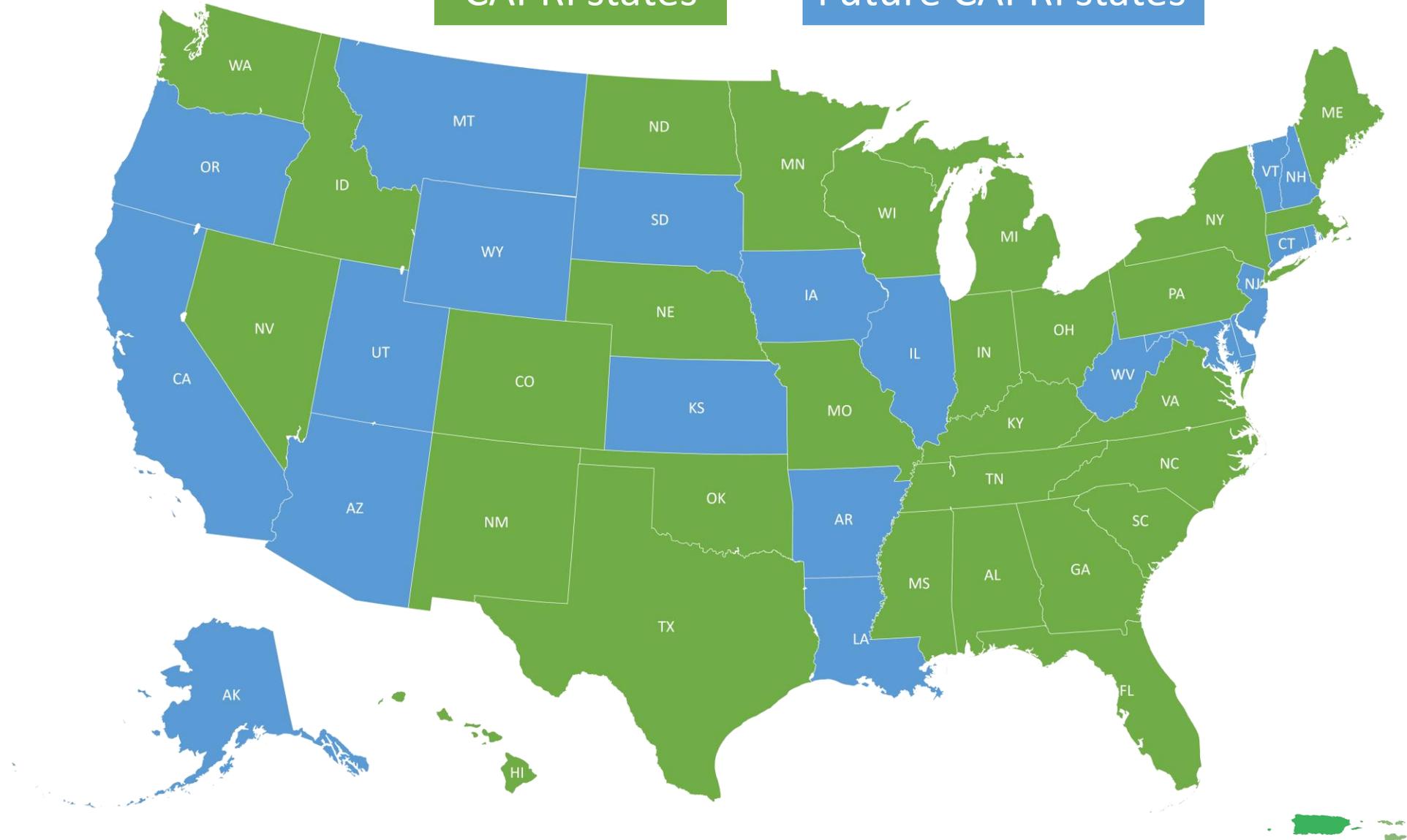
1. Develop asphalt pavement research needs
2. Provide technical guidance on current and evolving issues
3. Facilitate small-scale studies to address gaps and explore new topics
4. Foster implementation of practical research findings from any source

Current CAPRI Members



CAPRI states

Future CAPRI states



2026 CAPRI Executive Committee



Eric Biehl
Ohio DOT
Chair



Mark Buncher
Asphalt Inst.
Secretary



Jean-Paul Fort
NAPA
Vice-Chair



Tyler Wollmuth
North Dakota DOT



Amy Epps-Martin
Texas A&M / TTI



Alfredo Castro
Ajax Paving



Tim Aschenbrener
FHWA



Aaron Leavitt
FHWA TPF liaison



Vince Battista
Colorado DOT
Treasurer



Derek Gaw
Tennessee DOT



Shane Buchanan
CRH Americas Materials



Chuck Mills
Asphalt Pavt.
Assoc. of
Michigan

Subcommittee Actions

Critical Issues

- Annual survey of CAPRI membership on topics of interest. Results summarized to identify priorities
- Consult with RR Subcommittee and develop preliminary RNSs, send to TE Subcommittee

Technology Evaluation

- Evaluate Technology Readiness Levels, gaps in knowledge, barriers to implementation
- Identify best place for funding the research need
- Recommend high TRL topics move to Tech Transfer

Technology Transfer

- Develop and execute strategies to facilitate the transfer of high TRL topics into practice. Examples: webinars, workshops, best practice guides, videos

Research Roadmap

- Develop the research database – a resource for sharing what research is in pipeline, underway, or already completed
- Assemble RNSs from other subcommittees and advocate for funding
- Recommend research synthesis topics

Summary of CAPRI Projects

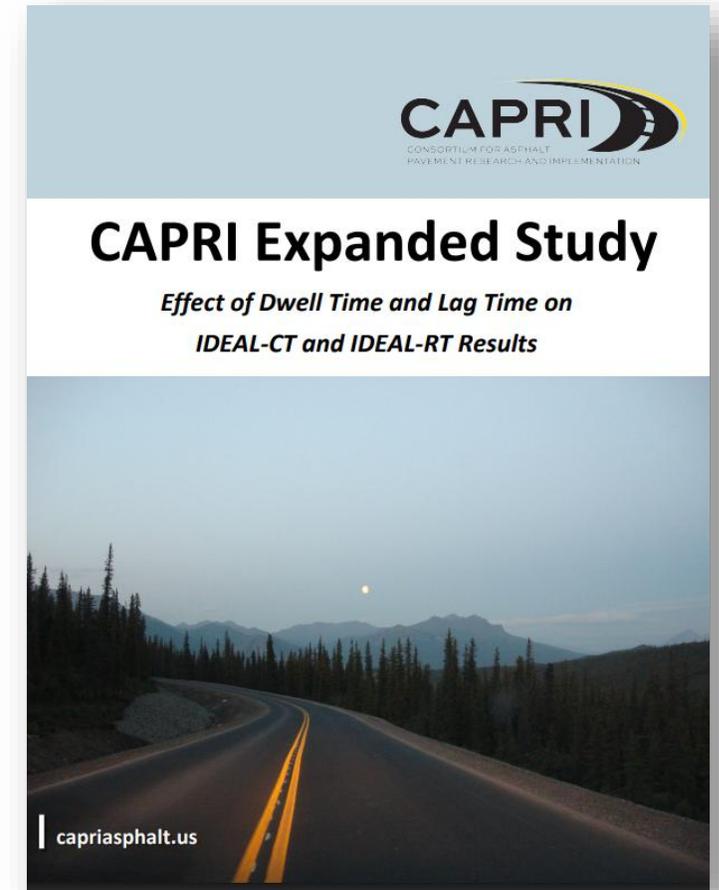
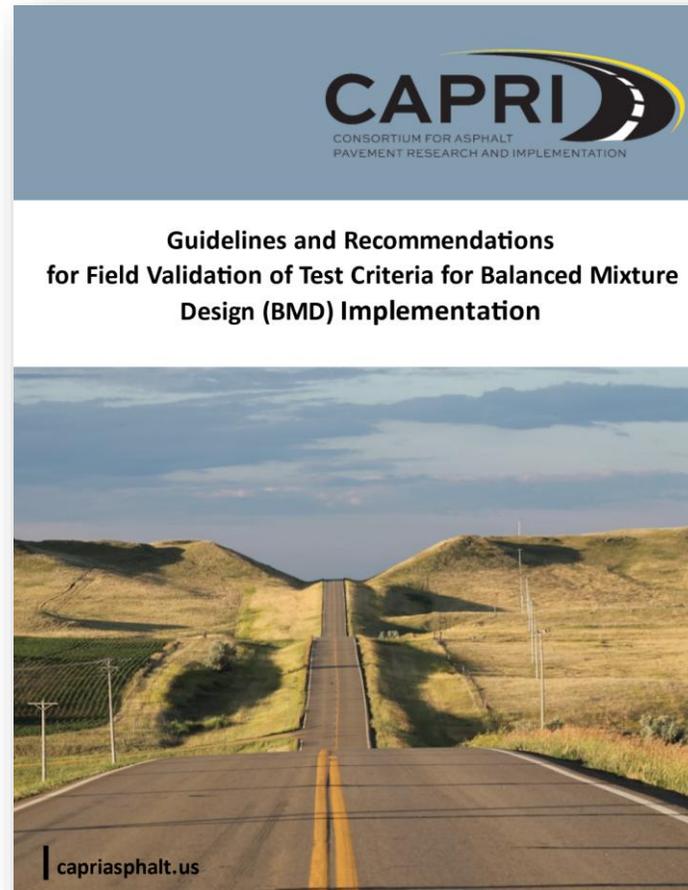
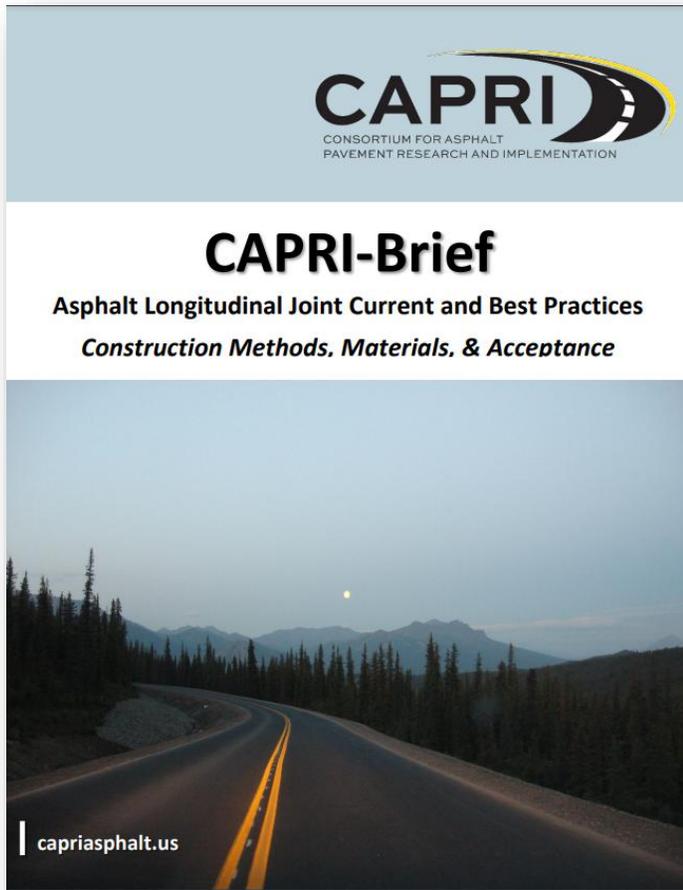
Year	Title	Research Org.	Status
2022	Preliminary Research Database	NCAT	Completed
2023	Guidelines for BMD Field Validation	NCAT	Completed
2023	Longitudinal Joint Best Practices	NCAT	Completed
2024	Field Eval...High RAM Mixtures	TTI	Ongoing
2024	Lag & Dwell Time Experiment	Various	Completed
2025	Specimen Fabrication Variabilities	Various	Ongoing
2025	Validation Techniques for BMD Criteria	NCAT	Ongoing
2025	BMD with Absorptive Aggregates	NCAT	Ongoing
2025	Tyler Wolmuth Travel NCAUPG	--	Completed
2025	Short & Long Term Aging Procedures, Part 1	NCAT	started
2025	Short & Long Term Aging Procedures, Part 2	UNR	started
2025	Synthesis Incorporating BMD into Production	UNR	started
2026	Reheat & Aging Adjustment Factor Concept	various	pending

CAPRI Webinars



- Asphalt Extraction Solvents: 3-Part Series
- Cold Weather Paving
- Warm Mix Asphalt
- State DOT Experiences with BMD Validation Experiments
- Guidelines & Recommendations for Field Validation of Test Criteria for BMD Implementation
- Environmental Product Declarations
- Free to everyone
- Recorded versions available on the CAPRI website

CAPRI Briefs and Reports



CAPRI Meetings

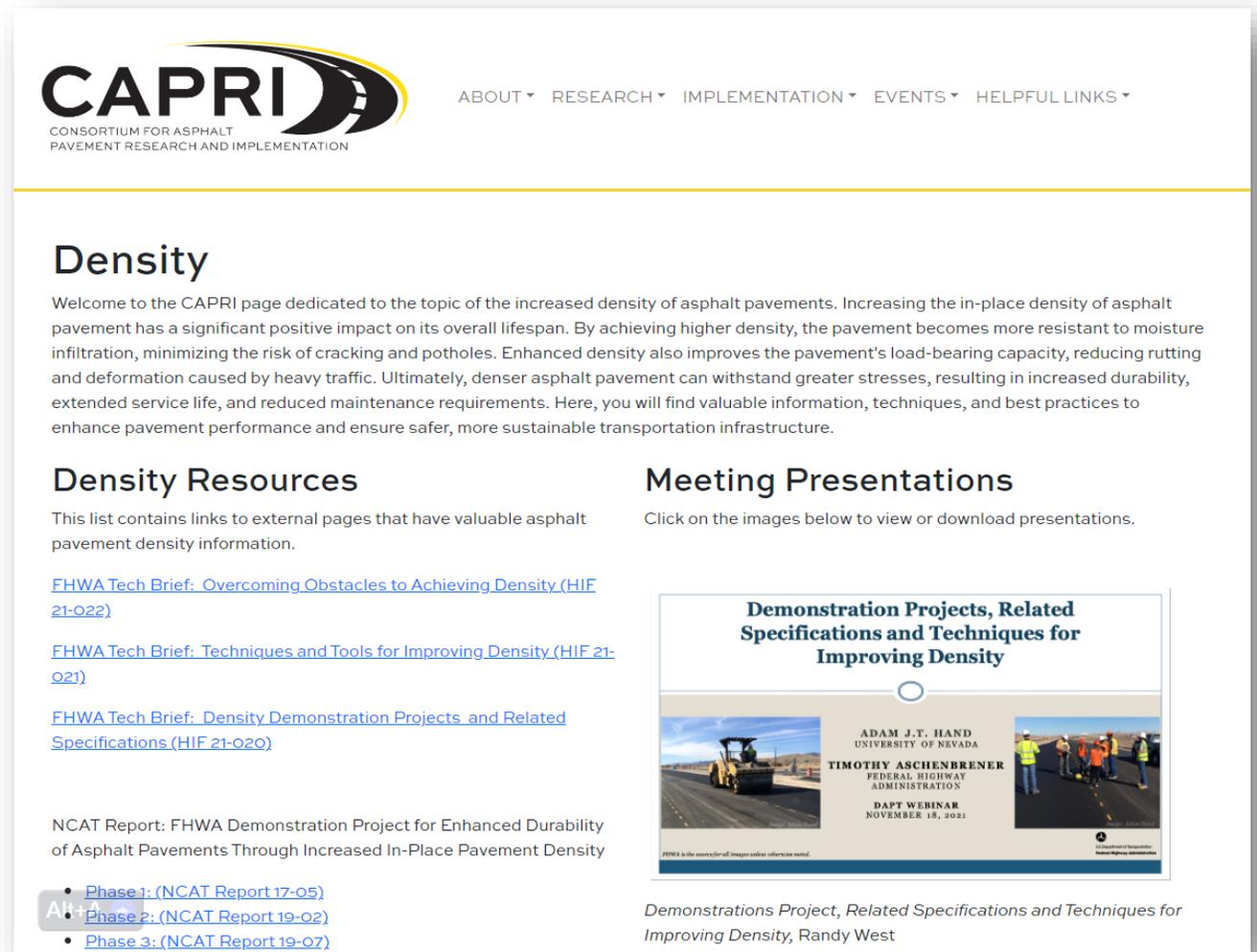
Spring & Fall Meetings

- Oct. 5-6, 2021 @ HRG
- March 10-11, 2022 @ NCAT
- Oct. 12-13, 2022 @ Ingevity
- March 7-8, 2023 @ Astec
- Oct. 11-12, 2023 @ VDOT
- Mar. 5-6, 2024 @ MSDOT
- Oct. 1-2, 2024, @ Detroit, MI
- Apr. 15-16, 2025 @ TTI, Bryan, TX
- Oct. 21-22, 2025 @ FHWA-Denver
- **Mar. 31- Apr. 1, 2026, @GDOT**



CAPRI website: www.capriasphalt.us

- Vision
- How to join
- Bylaws and policies
- Organization
 - Executive Committee
 - Subcommittees
- Activities
- Helpful Resources
- Deliverables
- Meetings



The screenshot shows the CAPRI website's 'Density' page. At the top is the CAPRI logo (CONSORTIUM FOR ASPHALT PAVEMENT RESEARCH AND IMPLEMENTATION) and a navigation menu with links for ABOUT, RESEARCH, IMPLEMENTATION, EVENTS, and HELPFUL LINKS. The main heading is 'Density', followed by a welcome message explaining the benefits of increased asphalt density. Below this are three sections: 'Density Resources' with links to FHWA Tech Briefs and an NCAT report; 'Meeting Presentations' with a link to a webinar presentation; and a list of three NCAT report phases.

Density

Welcome to the CAPRI page dedicated to the topic of the increased density of asphalt pavements. Increasing the in-place density of asphalt pavement has a significant positive impact on its overall lifespan. By achieving higher density, the pavement becomes more resistant to moisture infiltration, minimizing the risk of cracking and potholes. Enhanced density also improves the pavement's load-bearing capacity, reducing rutting and deformation caused by heavy traffic. Ultimately, denser asphalt pavement can withstand greater stresses, resulting in increased durability, extended service life, and reduced maintenance requirements. Here, you will find valuable information, techniques, and best practices to enhance pavement performance and ensure safer, more sustainable transportation infrastructure.

Density Resources

This list contains links to external pages that have valuable asphalt pavement density information.

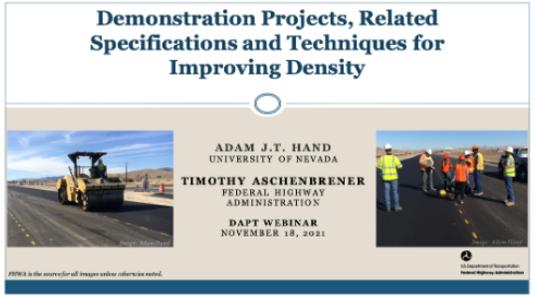
- [FHWA Tech Brief: Overcoming Obstacles to Achieving Density \(HIF 21-022\)](#)
- [FHWA Tech Brief: Techniques and Tools for Improving Density \(HIF 21-021\)](#)
- [FHWA Tech Brief: Density Demonstration Projects and Related Specifications \(HIF 21-020\)](#)

NCAT Report: FHWA Demonstration Project for Enhanced Durability of Asphalt Pavements Through Increased In-Place Pavement Density

- [Phase 1: \(NCAT Report 17-05\)](#)
- [Phase 2: \(NCAT Report 19-02\)](#)
- [Phase 3: \(NCAT Report 19-07\)](#)

Meeting Presentations

Click on the images below to view or download presentations.



Demonstration Projects, Related Specifications and Techniques for Improving Density

ADAM J.T. HAND
UNIVERSITY OF NEVADA

TIMOTHY ASCHENBRENER
FEDERAL HIGHWAY ADMINISTRATION

DAPT WEBINAR
NOVEMBER 18, 2021

Demonstrations Project, Related Specifications and Techniques for Improving Density, Randy West



Thank You

