

THE ROAD AHEAD: IDENTIFYING AND MANAGING EH&S RISKS



NAPA
NATIONAL ASPHALT
PAVEMENT ASSOCIATION

Howard Marks, NAPA Vice President – EH&S



PENNSYLVANIA MEMBERS



Gold Club (50+ Years)



30-Plus Club

- HRI Inc. West Region
- Joseph McCormick Construction
- Meeker Equipment Co. Inc.
- New Enterprise Stone & Lime
- Pennsy Supply
- Riverside Materials Inc.
- Russell Standard

State Advisor

Brock Myers, Allan Myers

Members

- Abatech, Inc.
- ABE Materials - Easton
- Allan Myers
- Allegheny Asphalt Manufacturing Inc.
- Architectural Stone
- Bechtelsville Asphalt
- Berks Products Corporation
- Bishop Brothers Construction
- Blaw Knox
- Calvin C. Cole, Inc.
- CertainTeed, LLC
- Charlestown Paving & Exc., Inc.
- Commercial Asphalt Supply, Inc. dba Shields Paving
- Coopersburg Materials
- Cumi America Inc.
- Donegal Construction Corp.
- Dunbar Asphalt Products
- Dunmore Materials
- Eckley Asphalt
- Erie Asphalt Plant
- FORTA
- Glenn O. Hawbaker Inc.
- Golden Eagle Construction Co. Inc.
- Grannas Bros. Stone & Asphalt Co. Inc.
- H&K Group
- Heidelberg Materials Northeast
- Highway Materials Co. Inc.

PENNSYLVANIA MEMBERS



Members

- Hillsville Asphalt Plant
- Homer City Asphalt Plant
- HRI Inc. Corporate Office – State College
- Keystone Lime
- Koppel Asphalt Plant
- Liberty Tire Recycling LLC
- Lindy Paving Inc.
- Locust Ridge Quarry
- McMinn’s Asphalt Co. Inc., A CRH Co.
- Midland Asphalt Materials Inc. – Clearfield
- Mike Young Paving Inc.
- Miller Materials LLC
- Multitherm LLC
- Naceville Materials JV
- Nationwide Mechanical, LLC
- Neville Island Asphalt Plant
- New Kensington Asphalt Plant
- Northeast Paving, a Div. of Eurovia Atlantic Coast
- Paratherm a division of Lubrizol
- Pennsy Supply Inc., A CRH Co.
- Peter J. Caruso & Sons
- Pikes Creek Asphalt & Crushed Stone
- Pine Test Equipment, Inc.
- Pottstown Trap Rock-Sanatoga Quarry/Asphalt

PENNSYLVANIA MEMBERS



Members

- Pottsville Materials LLC
- Quaker Sales Corp.
- Schlouch Inc.
- Second Avenue Asphalt Plant
- Silver Hill Quarry
- South Reading Blacktop
- Silver Hill Quarry
- South Reading Blacktop
- Sterrettania Asphalt Plant
- Superior Tire & Rubber Corp.
- Trumbull Corporation
- United Employment Associates LLC
- Walter R. Earle Corp.
- Wheatland Asphalt Plant
- Wheelertown Asphalt Plant
- Wilkes-Barre Materials LLC
- Windsor Service
- York Building Products Co. Inc.
- Zelienople Asphalt Plant

Advancing the asphalt pavement industry through **Leadership, Stewardship, and Member Engagement**, while working toward a sustainable transportation infrastructure that paves the way for thriving communities and commerce.

SCAN ME





501c6



501c3



Road Scholars

Industry Scholarships

NAPA Care Emergency Benevolent Fund



Partners fund, led & managed by NAPA



Segregated fund

The Impact of NAPAREF

A focus on workforce through education, research, and financial assistance.



501c3



Industry Scholarships

NAPA Care Emergency Benevolent Fund

- National Center for Asphalt Technology
- Taking care of our workforce families - NAPA Care
- Educating the public
 - Smithsonian 'America on the Move' Exhibit
 - Dwight D. Eisenhower Memorial
- Education of future asphalt leaders
 - **\$3.5M in scholarships** awarded to **2,300+ students** since 1994
 - Endowed **NAPA Road Scholars (\$3M)** in 2024 to benefit NCAT graduate students



Industry Pillars of Success

Strategic Plan



1 LEADERSHIP



Foster increased Federal investment



Advocate for and achieve fair, competitive, science-based legislation and policies



Be the trusted, go-to organization for members, decision makers, and stakeholders

2 STEWARDSHIP



Champion the advantages of asphalt pavements



Shepherd the industry's commitment to net zero carbon emissions pavement



Demonstrate members' commitment to value and excellence

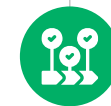
3 MEMBERSHIP



Engage and grow membership



Facilitate member advancement



Improve and streamline association governance and operations

Industry Pillars of Success

Strategic Plan



1

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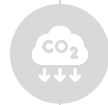
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Our Membership

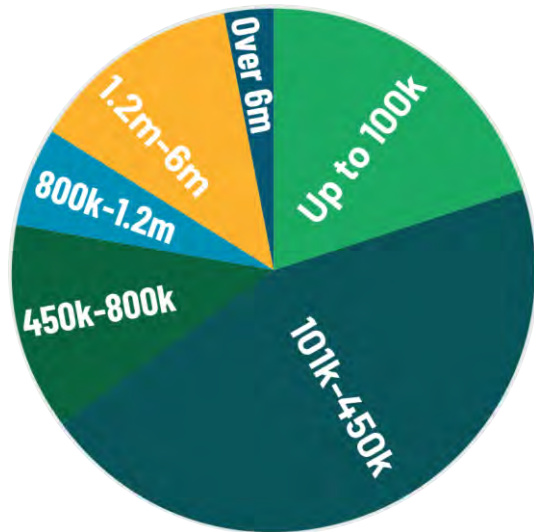
2025



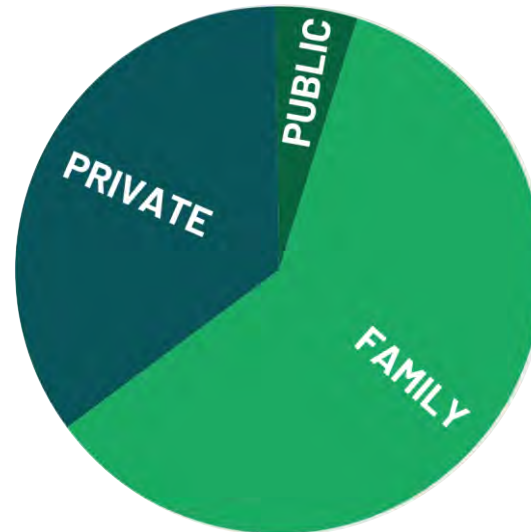
277 Producer members represent 2/3 of US asphalt mix = 278+ million annual tons

Number of Members by

Annual Tonnage



Ownership

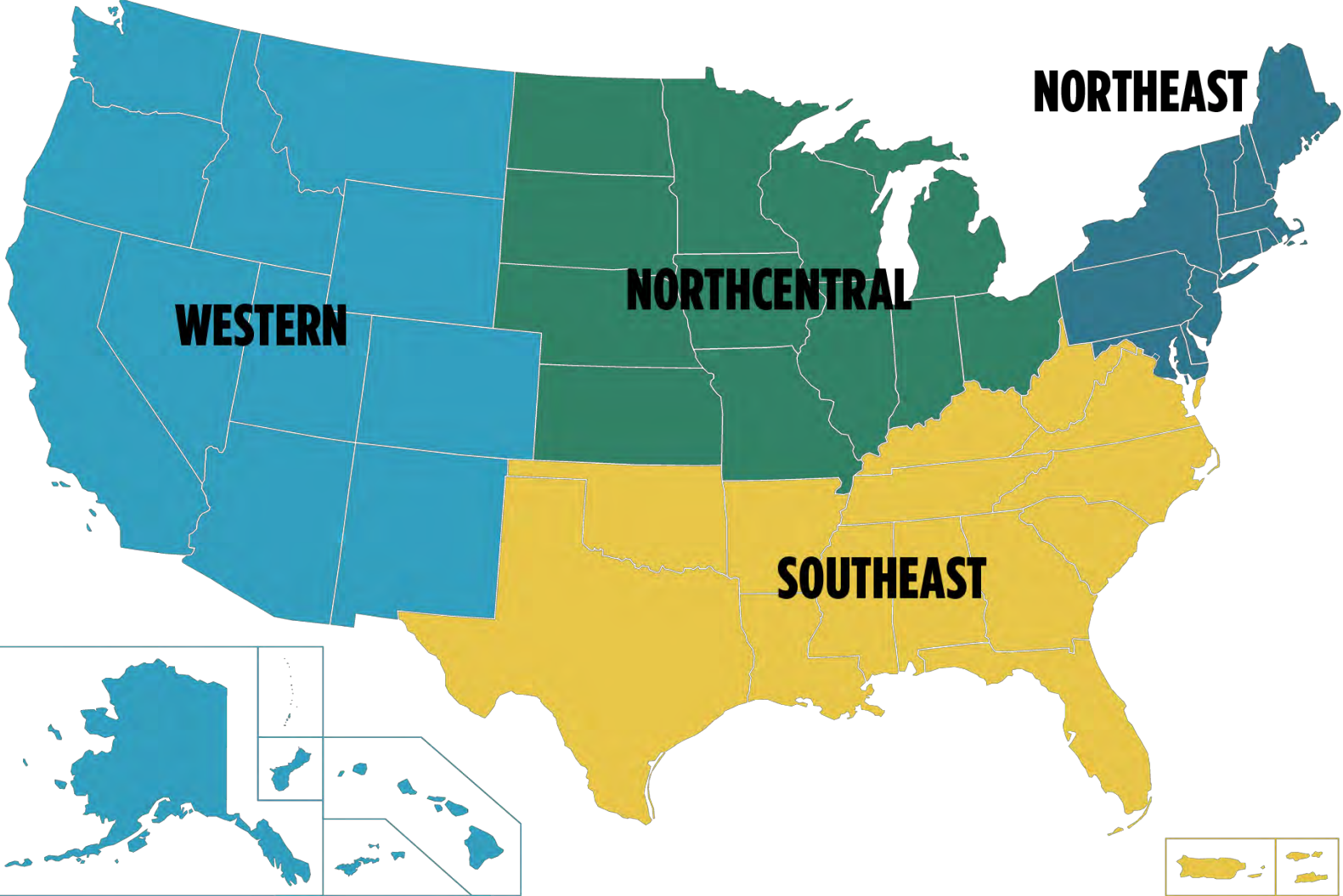


306 Associate members support the industry in many ways

Company Type



Advisory Council Regions



Cross-cutting Themes:

- Funding & market uncertainty
- Workforce
- Sustainability, innovation, & regulatory alignment seen as opportunities & challenges
- Communication & advocacy are critical strategies

Asphalt Pavement Alliance



Mike Skinner,
PE, CAE

Executive Director



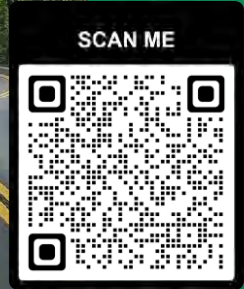
Buzz Powell,
PhD, PE

Technical Director



Amberly Brislin

Manager, Deployment



National Overview

Federal-Aid Highway Program and the Asphalt Market



American Road
& Transportation
Builders Association



109,350

Total new project
commitments

52%

State capital spending
supported by federal funds

\$247 billion

Value of federal funds
committed FY 22 to FY 25

\$31 billion

Announced through major
grants for road and bridge
improvements

32%

Of projects on National Highway
System, supporting freight and
related improvements

\$158 billion

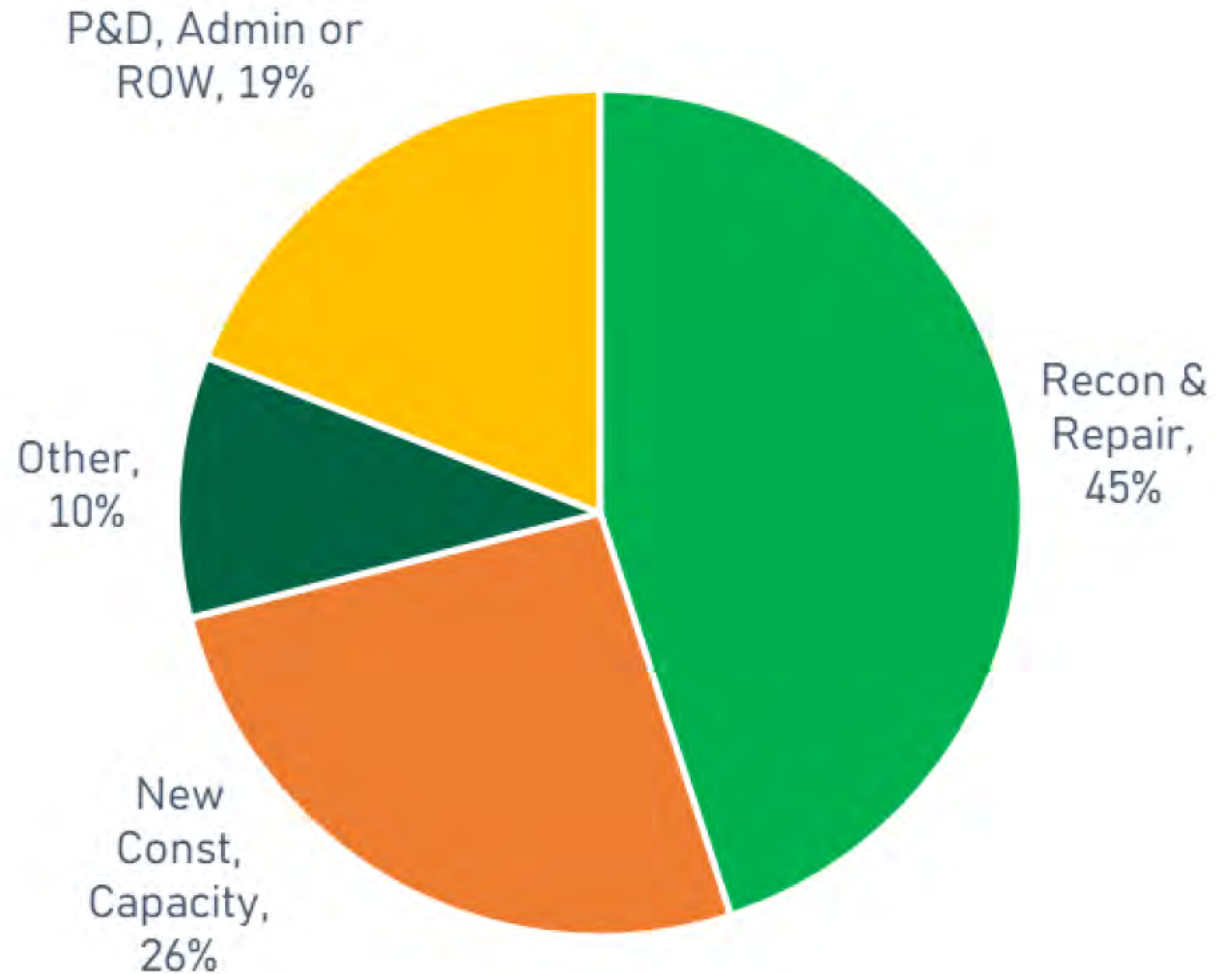
Federal reimbursements to the
states for work performed on
new projects, FY 22 to FY 25

National Overview

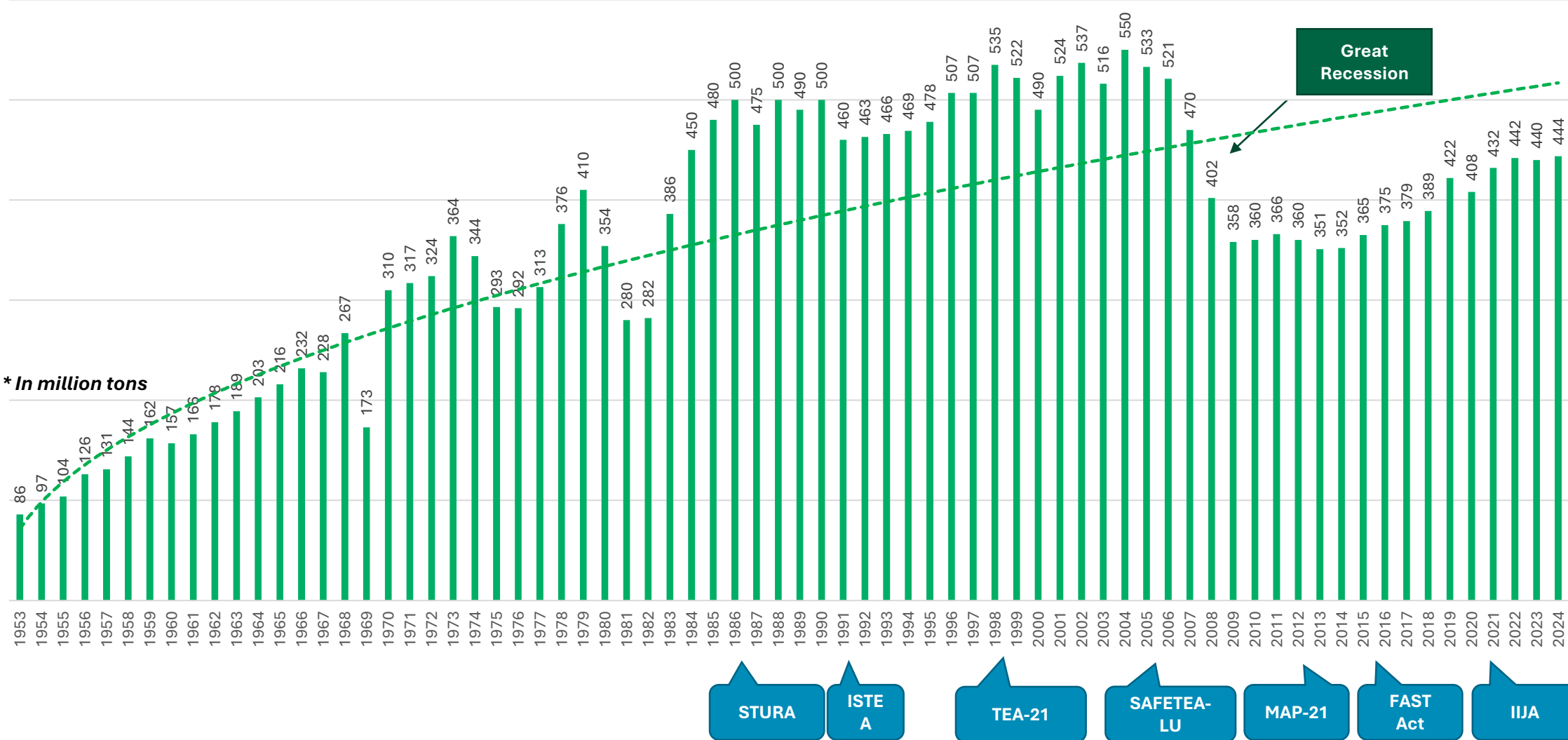
Value of Federal-Aid Highway Projects by Type of Work
FY 2022-2025



American Road
& Transportation
Builders Association



Estimated Asphalt Pavement Tons Produced Annually (US)



Estimated Asphalt Pavement Tons Produced Annually (US)



Industry Pillars of Success

Strategic Plan



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Engage and grow membership



Facilitate member advancement

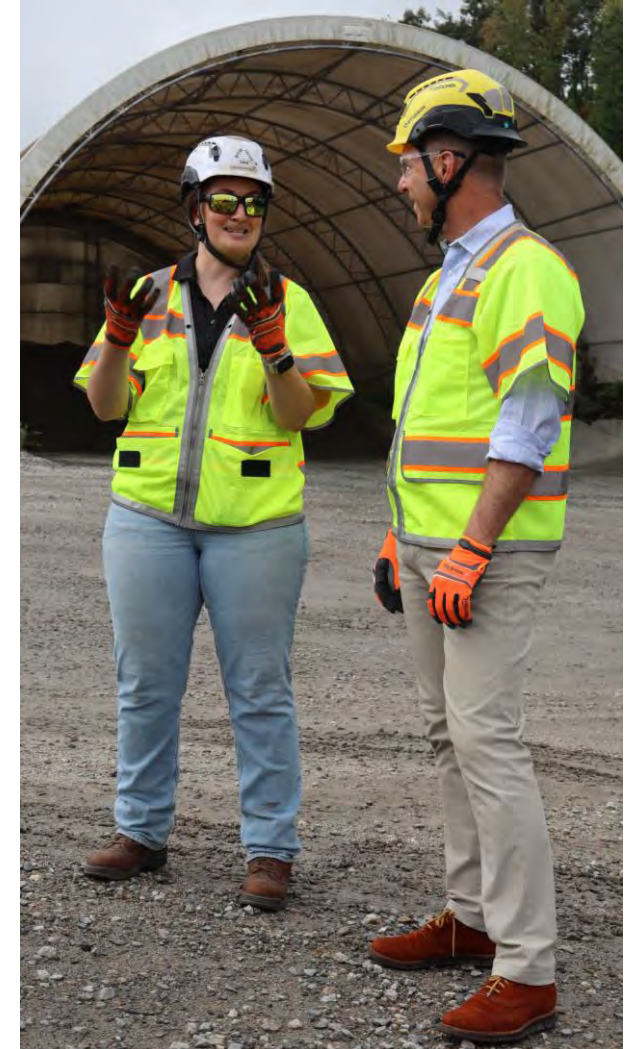


Improve and streamline association governance and operations

NAPA's Highway Bill Advocacy



- Prioritized **legislative objectives**, drafted policy one-pagers, met with relevant offices of jurisdiction
 - Shared repeatedly: WZS, RAP, HTF solvency, Buy America, permitting reform, material neutrality
- 50+ **plant and project tours** visited by Members of Congress over the last 2 years – building champions and allies on our key highway bill priorities
- Formal **policy submissions** to House T&I, Senate EPW, & DOT
- **Meetings** with FHWA, National Economic Council, Congressional leadership



Potential Highway Bill Timeline

- Expect House bill introduction in **near future**
 - Potentially as early as mid-March
- Senate likely acts **this summer**
 - Three separate committees responsible for bill text



Importance of NAPA PAC

- Effective advocacy for the asphalt pavement industry
 - Congressional hearings
 - Meetings with key policy stakeholders
 - Dozens of plant tours & project site visits each year
- We are working on a **transformative highway bill that must pass this year**
 - The time to act + support is now!



EH&S / Regulatory Affairs

- *Protect our people and the environment*
- *Advocate for realistic regulation*
- *Assist industry/members with managing risk & compliance*

- ✓ **Current Administration continues to reform env regulations**
 - Initially carbon dioxide | now focused on WOTUS, TSCA, and permitting
 - While PFAS is a top NAPA priority, political aspirations / partisanship in play

- ✓ **TCE / chlorinated solvent rules still in flux**
 - Asphalt exemption NOT extended but changes in overall rules are likely

- ✓ **OSHA continues to tread water** – especially re Heat Standard

- ✓ **Progressive state Regulatory Agencies are picking-up the slack**

Identifying & Managing EH&S Risks

- ✓ **Compliance is bare minimum**
- ✓ **Operational Excellence**
 - Stewardship & Engagement
- ✓ **Understand SIFs**
- ✓ **Manage Liability Risks**
 - Operational / Vehicle Fleets
 - Environmental – e.g., PFAS
- ✓ **Invest in Training & Mgmt Systems**
- ✓ **Explore insurance needs**



Health & Safety | Considerations

✓ Basic Considerations

- Hazard Communication
- Eye/face/head/hand protection (PPE) / Resp Prot
- Emergency Response (Action) Plans
- First-aid / medical services



✓ Mix Plant Considerations

- Hazardous energy control (LOTO) and Confined Spaces
- Machine guarding
- Arc-flash / electrocution
- Falls



Health & Safety | Considerations

✓ Road Construction Considerations

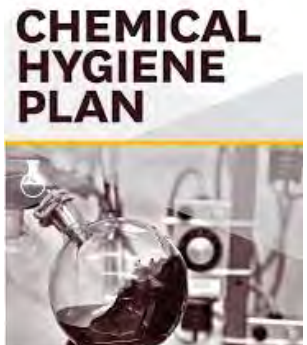
- High-visibility garment requirements
- Struck-by and Work Zone Safety
- Paving fume and silica milling dust mitigation
- Caught in-between
- Mental Health Awareness
- Heat Illness Prevention



✓ Chlorinated solvent use in laboratories

✓ Medical Case Management

✓ Vehicle Fleet Mgmt / Transportation Risk



Environmental Regulatory Priorities

✓ **Manage Env Justice Impacts on Zoning and Permitting**

- Community relations toolkit & best practices
- Partnership opportunities regarding odor mgmt

✓ **Promote Product & Environmental Stewardship**

- Communicate UC-R results / quell EPA concern

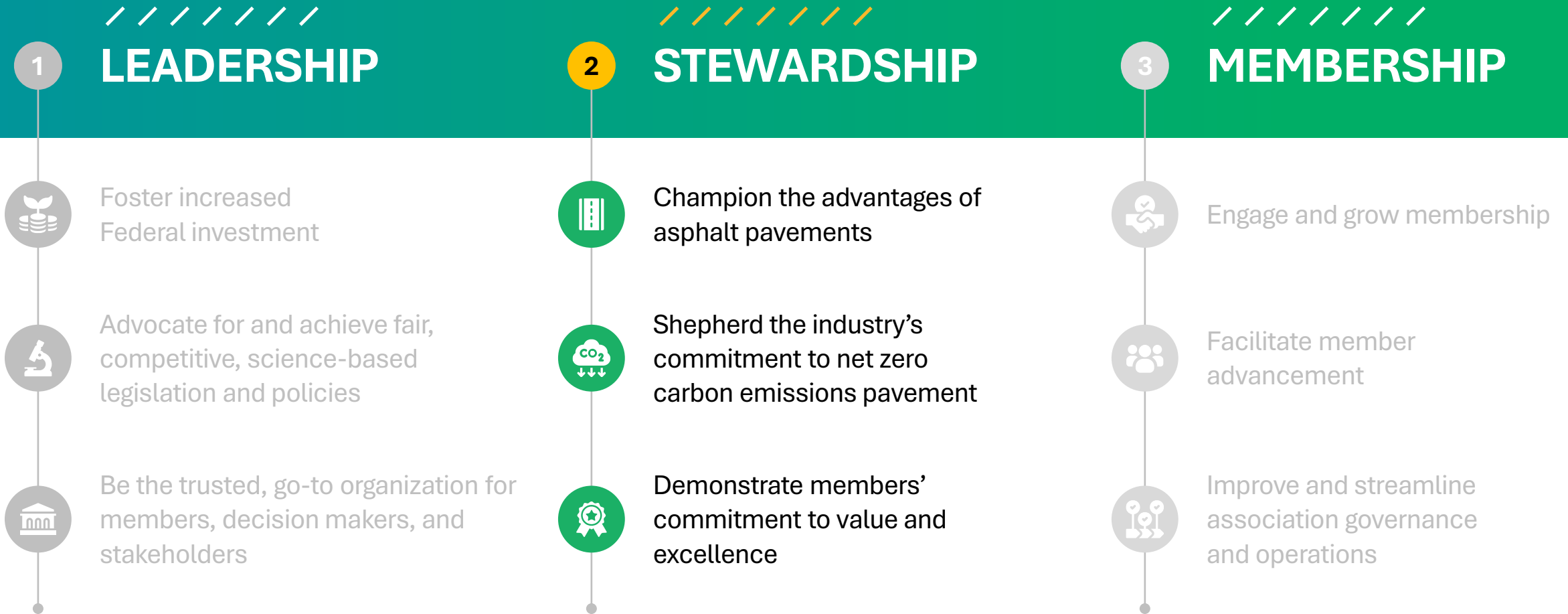
✓ **PFAS Forever Chemicals / Airfield Pavements**

- EPA's Superfund designation & litigation landscape
- Recycling research (FAA-funded) @ Univ Fla
- Legislative advocacy – **Liability Shield**
- Develop suite of Risk Management tools



Industry Pillars of Success

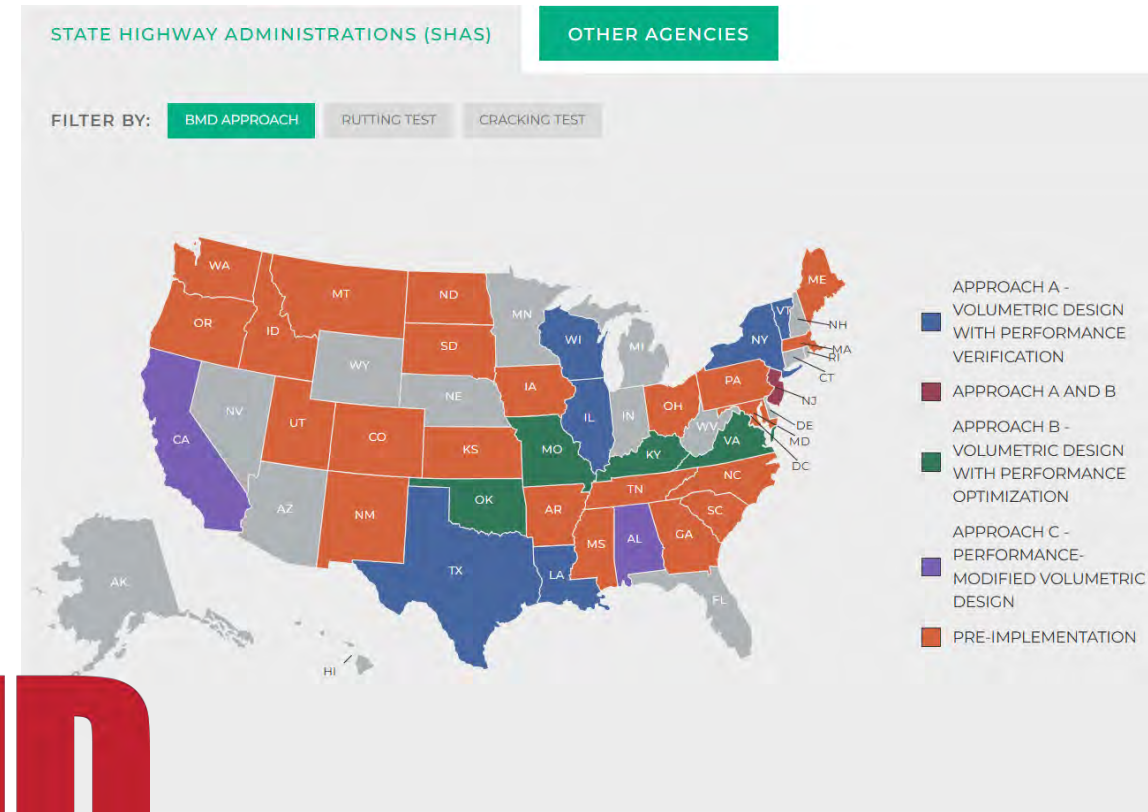
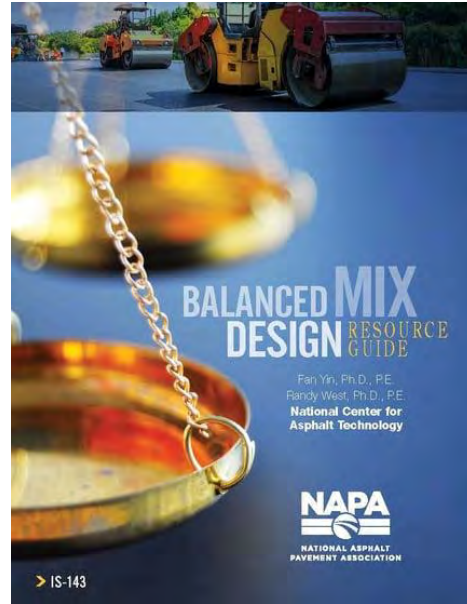
Strategic Plan



Federal/National Partners and Programs



Balanced Mix Design





Airport Asphalt Pavement
Technology Program



Airport Asphalt Pavement Technology Program

A Cooperative Agreement between the Federal Aviation Administration and the
National Asphalt Pavement Association

AAPTTP is a cooperative agreement between NAPA and the FAA.



NAPA QC Process & Audit Protocol

- External verification checklist
- Programmatic reporting

Build Trust Through Program Assessment

Ensure EPD Veracity Through Audits

Harmonized Upstream PCRs Industry EPDs OpenEPD

Public US LCI OpenLCA

Foreground Plant Data

- Mix Design Data (A1),
- Transportation (A2),
- Energy (A3)

Input Data

EPD Privacy

Publication Status

Mix: Agency Demo Mix
EPD: 6.4.9919 v1

Only visible to members of your organization with edit access.

Visible publicly to all users.

Only visible to members of your state or local agency.

Unpublished. Watermarked and only available for preview.

ISO 14025 & ISO 21930 Conformance

Emerald

ECO LABEL

Pre-Verified Software

Product Category Rule

ISO 14040/44 Industry LCA

Third Party Independent Verification

EPD

Simulator Tool

Privileged Access OpenEPD Protocol

Agency / Private Market Customer / EPD User Interface

Producer Interface



Direct Integration with Third Party Databases using OpenEPD



Technical Resources

HEY NAPA

What asphalt pavement questions can I answer for you?



[HeyNAPA.com](https://www.heynapa.com)



NAPA Resources

FEATURED

HOW-TO

AIR-001

12 Ways to Improve Airfield Paving Projects

This brief and easy-to-read guide provides 12 tactics that can help asphalt mixture producers succeed on airport pavement construction projects. It focuses on 3 phases of airfield paving projects: ...

[Download Now](#) →



[Go.AsphaltPavement.org/Resources](https://www.go.asphaltpavement.org/resources)



Upcoming Events



TAKING CONSTRUCTION TO THE NEXT LEVEL.
2.7M square feet of exhibits / 130,000 attendees / 1,800 exhibitors / 150 education sessions

CONEXPO-CON/AGG MARCH 3-7 / 2026 LAS VEGAS / NEVADA REGISTER NOW



TRANSPORTATION CONSTRUCTION COALITION

FLY-IN
MAY 11-13



NAPA
NATIONAL ASPHALT PAVEMENT ASSOCIATION

2026 MIDYEAR MEETING

July 14-17
COLUMBUS, OHIO

#NAPAMidyear



HILL DAY 2026
SEPTEMBER 22
NAPA + NRMCA + NSSGA



NAPA
NATIONAL ASPHALT PAVEMENT ASSOCIATION

2026 IMPACT LEADERSHIP GROUP CONFERENCE

September 23-24
WASHINGTON, DC

#NAPAImpact



NAPA
NATIONAL ASPHALT PAVEMENT ASSOCIATION

2027 ANNUAL MEETING

February 8-11
MIAMI BEACH, FL

#NAPAAnnual



DIAMOND COMMENDATION PROGRAM



› INTRODUCTION TO THE DIAMOND PROGRAM

The Diamond Commendation Program is designed to recognize and promote excellence in various aspects of asphalt production and paving. It aims to set industry standards for quality, safety, environmental stewardship, and community involvement

› FOUR DIAMOND TIERS

Achievement, Quality, Paving, Terminal

› PROGRAM TIMELINE

April 1 to August 15

› APPLICATION FEE

\$375-\$425

› LEARN MORE AND APPLY

AsphaltPavement.org/Diamond



NAPA AWARDS PROGRAM



➤ INTRODUCTION TO THE AWARDS PROGRAM

The NAPA Awards Program is designed to recognize outstanding achievements and leadership in asphalt pavement construction and operational practices. It highlights excellence in construction quality, safety innovation, community involvement, and environmental leadership

➤ AWARDS CATEGORIES

Construction, Safety, Community, Environment

➤ PROGRAM TIMELINE

August 1 to October 31

➤ APPLICATION FEE

\$225-\$450

➤ LEARN MORE AND SUBMIT

AsphaltPavement.org/Awards

Asphalt Paving Awards

- Sheldon G. Hayes
- Larry H. Lemon
- Ray Brown
- Quality in Construction



Operational Excellence Awards

- Asphalt Operations Safety Innovations
- Environmental Leadership
- Community Involvement

Stay Connected

NAPANOW IntelliPac™ Moisture System
VISIBILITY INTO AGGREGATE MOISTURE

HOME ABOUT TOPICS ARCHIVES SPONSORED



© March 5, 2025

Submit for a Diamond



» YOUR PERSONALIZED INDUSTRY NEWS ROUNDUP

NAPA NEWSBRIEF

YOUR COMPETITIVE EDGE.



» ENGAGING THE ASPHALT PAVEMENT INDUSTRY

NAPAWEEKLY

February 11, 2025

YOUR COMPETITIVE EDGE.



World of Asphalt set for St. Louis

World of Asphalt, the premier trade show and conference experience for asphalt professionals, heads to the America's Center Convention Complex in St. Louis, Missouri, March 25-27.

Don't miss your chance to browse the latest equipment, technologies, and products spread across more than 230,000 net square feet.

[Browse the latest education offerings from the People, Plants, and Paving Conference](#) and [register to attend](#).

Sixty total education sessions are scheduled, and topics include everything from leveraging social media to asphalt emulsions.



» THE PREMIER MAGAZINE FOR THE ASPHALT PAVEMENT INDUSTRY

NAPA QUARTERLY

Volume 28
Number 4
WINTER 2024

OPERATIONAL EXCELLENCE

SUPPORTING SCHOLARS

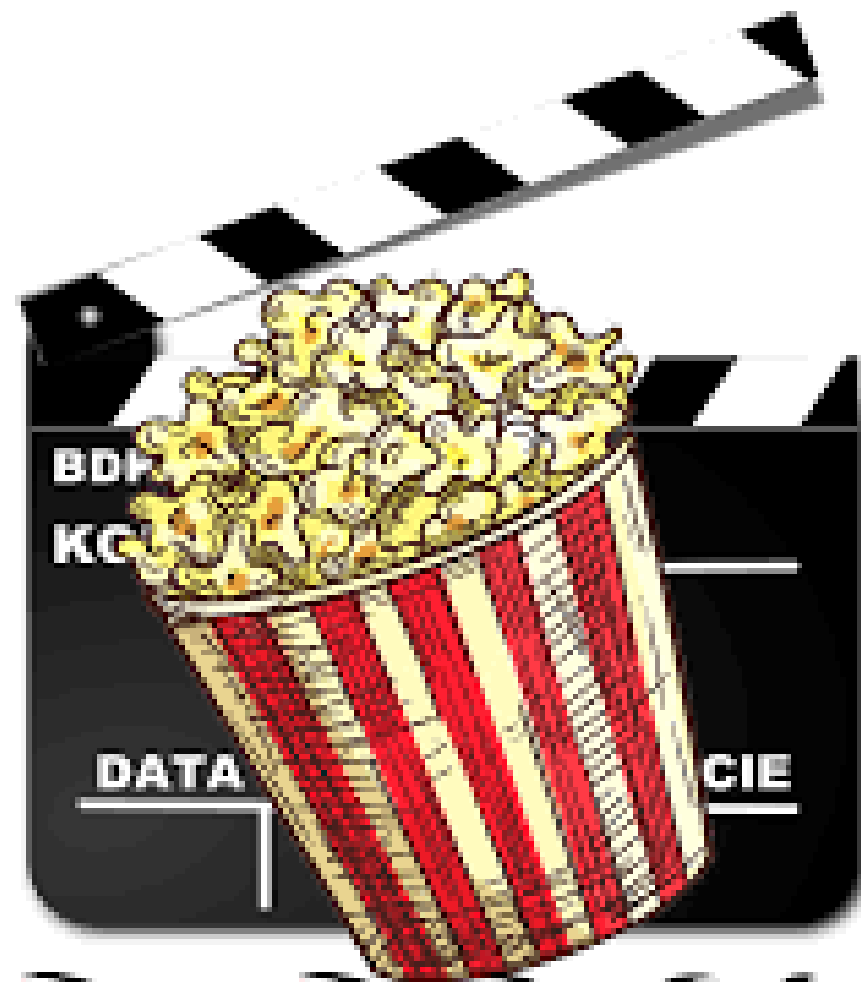
Construction Superintendent

Green Construction Specialists Among Most In-Demand Workers, Says Latest Research

The construction industry is rebounding in 2025, with the output for new projects expected to increase by 8.5%, according to the latest forecasts. As a result, the industry will need to fill an estimated 439,000 jobs this year to meet the increasing demand. With the need for new construction employees growing at a breakneck pace, EPD has revealed the most in-demand construction jobs for 2025 and beyond.

[Read more](#)





POP CORN BREAK

Identifying and Managing EH&S Risks

- *Protect our people and the environment*
 - *Advocate for realistic regulation*
 - *Assist industry/members with managing risk & compliance*
-
- ✓ **Regulatory reform is NOT an opportunity for complacency**
 - ✓ **OSHA continues to tread water – especially re Heat Standard**
 - ✓ **Progressive state Regulatory Agencies are picking-up the slack**
 - ✓ **TCE / chlorinated solvent rules still in flux but IMPACTFUL (if using)**
 - ✓ **Addressing and managing community concerns re permitting / operations**
 - ✓ **PFAS !! ... indemnification ... stockpile management ... stormwater runoff**

Health & Safety | Priorities & Training



- ✓ **At minimum, OUR workers come home the same way they left**
 - Continuous Improvement
 - Importance of age demographics
- ✓ **Regulatory Compliance vs. Safe Practices**
 - Federal/State OSHA: compliance is a MUST
 - Safe Practices are 'required' under Gen'l Duty
- ✓ **OSHA Standards are highly prescriptive**
 - Easy to understand and (hopefully) implement
 - Some nuances/interpretation required, e.g., Confined Space / LOTO
- ✓ **'Safety' vs Risk Mitigation**



Health & Safety | Considerations

✓ Basic Considerations

- Hazard Communication
- Eye/face/head/hand protection (PPE) / Resp Prot
- Emergency Response (Action) Plans
- First-aid / medical services



✓ Mix Plant Considerations

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Health & Safety | Considerations

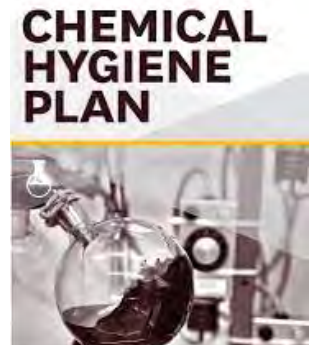
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- Mental Health Awareness
- Heat Illness Prevention

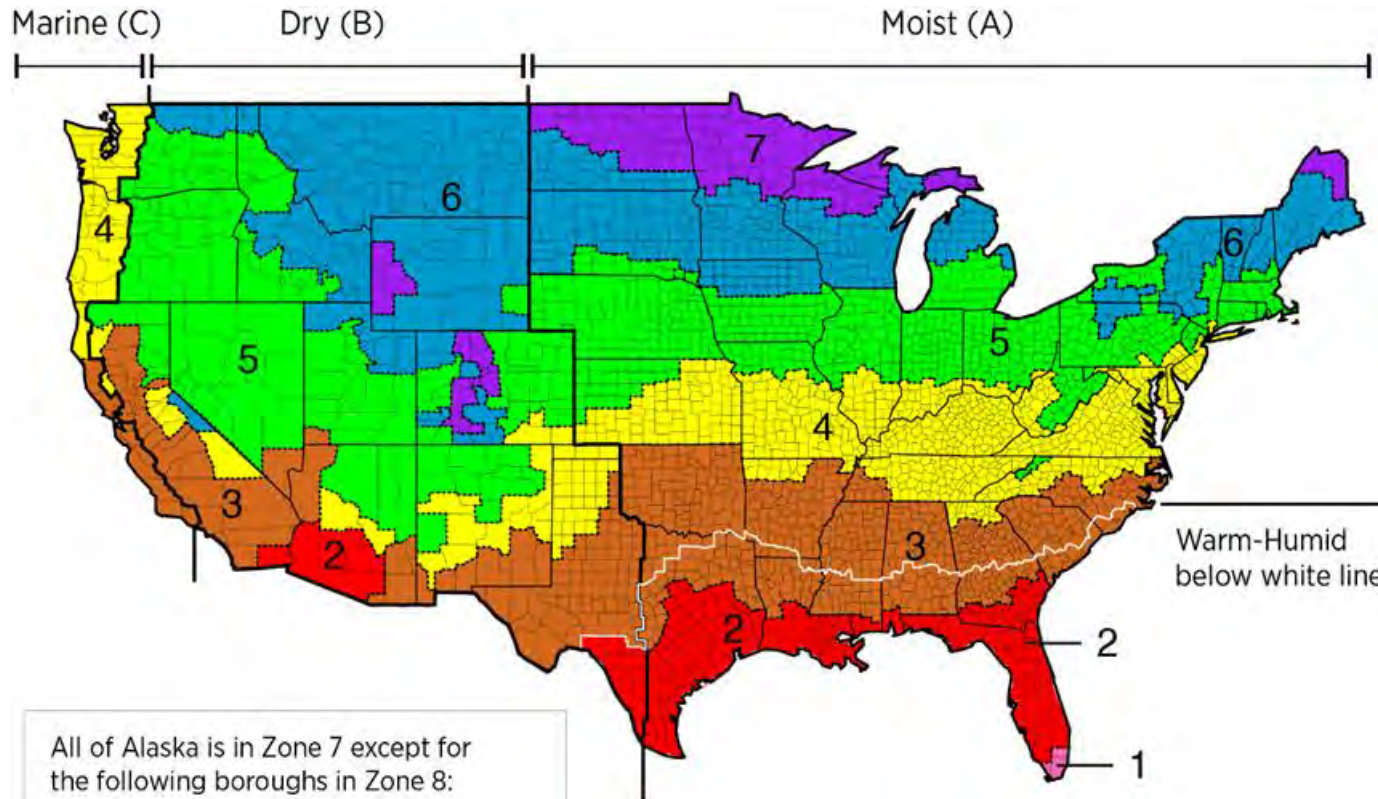


✓ Medical Case Management

✓ Vehicle Fleet Mgmt / Transportation Risk



Heat Illness Prevention



All of Alaska is in Zone 7 except for the following boroughs in Zone 8:
Bethel, Northwest Arctic, Dellingham, Southeast Fairbanks, Fairbanks N. Star, Wade Hampton, Nome, Yukon-Koyukuk, North Slope

Zone 1 includes Hawaii, Guam, Puerto Rico, and the Virgin Islands



WATER. REST. SHADE.

Hydrate Take a Break Take Cover Stay Alert

BE PREPARED • SAFETY FIRST

- ✓ Heat triggers
- ✓ Rest breaks
- ✓ Water requirements
- ✓ Acclimatization
- ✓ Temperature measurement
- ✓ Training and Recordkeeping

PRIORITIZE: Work Zone Safety

- Provide education, training, and resources
- Participate in NWZAW / coalition activities
- Implement partnerships to overcome barriers
- Promote WZS Contingency Funds / pressure DOT
- Develop national legislative priorities



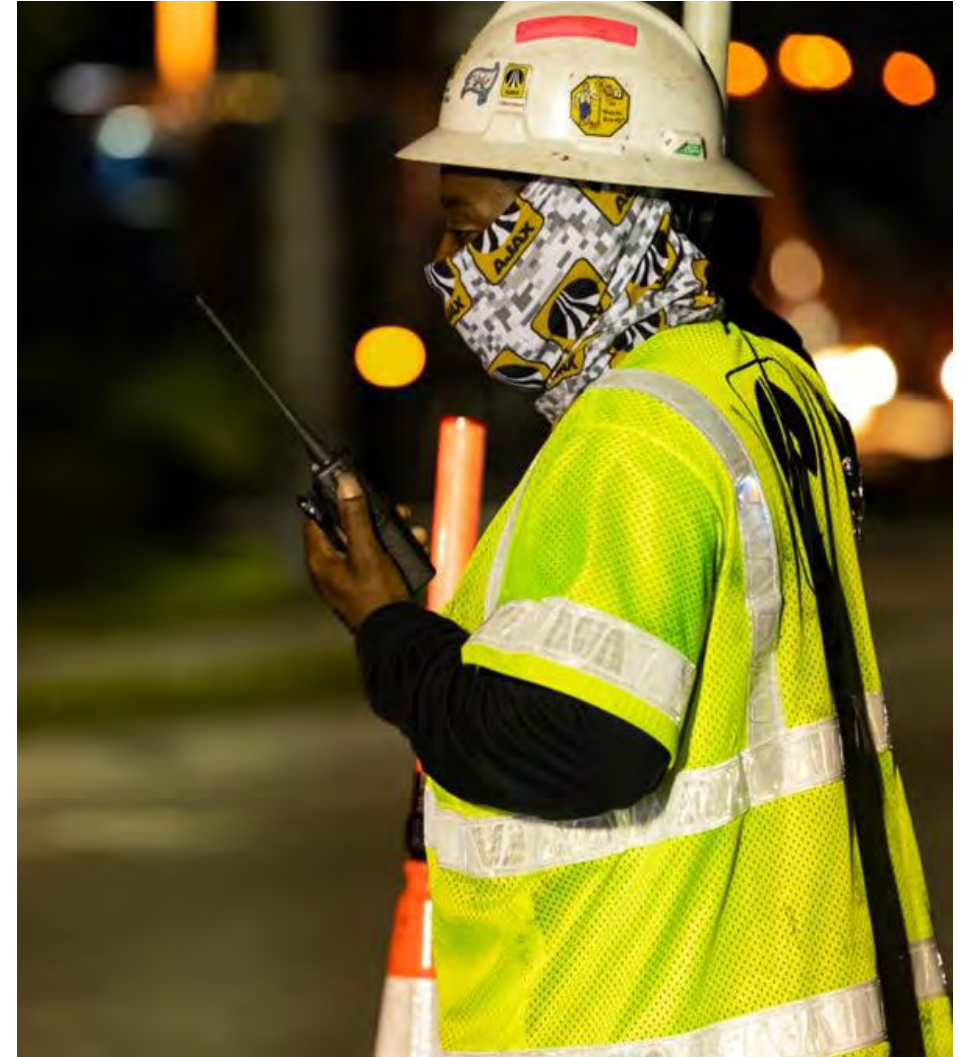
WATCH
FOR
.US



Crew
SAFETY
Work Zone Training

Enhance Work Zone Safety

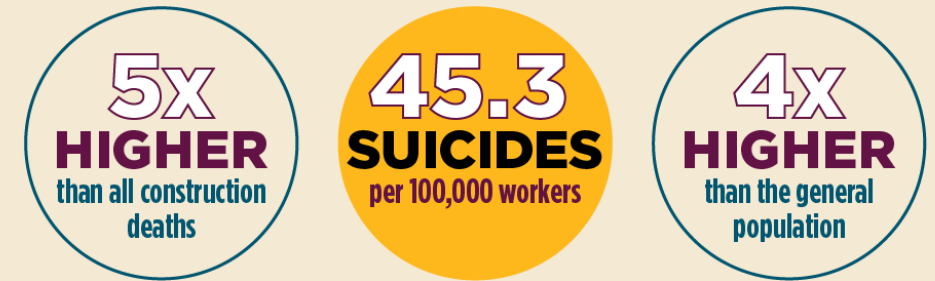
- Lead & strengthen **broad DC coalition**
 - Currently 16 trade groups
- Facilitate introduction of **WZS bill**:
Preventing Roadside & Work Zone Deaths
- Working with Congr. Members to introduce **drivers' education** bill
- **Opposing legislation** that prohibits or restricts speed cameras in work zones



Mental Health Awareness

- The construction industry has one of the highest suicide rates of all industries – for a number of reasons
- Empathy, understanding, and acknowledgement
- Understand signs/symptoms and be willing to openly discuss
- We continue to seek strong partners and provide resources

Suicides in Construction



source: CDC



Chlorinated Solvent Bans – Binder Extraction

- EPA finalizes bans on use of Cl-solvents
- DCM, TCE, and PERC – w/ some exemptions
- EPA setting OELs (and monitoring reqmts)
 - EPA OELs between 10 and 10,000 times lower than OSHA's
- Prelim IH monitoring indicates additional controls needed
- Researching alternative solvents / methods – will take time
- Action: understand lab set-up & controls / monitor / manage



'Environmental Justice': siting (zoning, permitting, operating) mix plants



“ Judge rejects effort to shut down asphalt plant ... in Flint Mich. ” June 2023

- First time Env Justice litigated for a Minor Source
- The Case: Plaintiffs, Defendants, and Appellants
- Everybody loses & nobody's happy



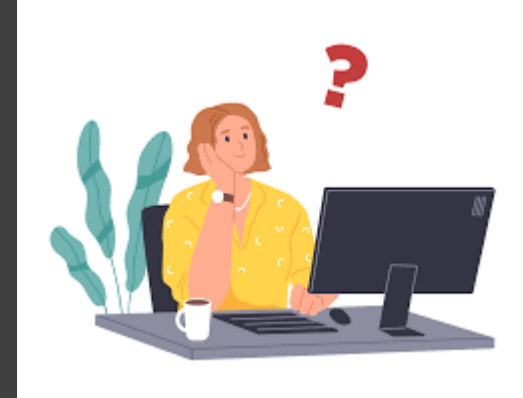
'Environmental Justice': siting (zoning, permitting, operating) mix plants

- *Env burdens | Socio-economic demographics | Ethical questions*



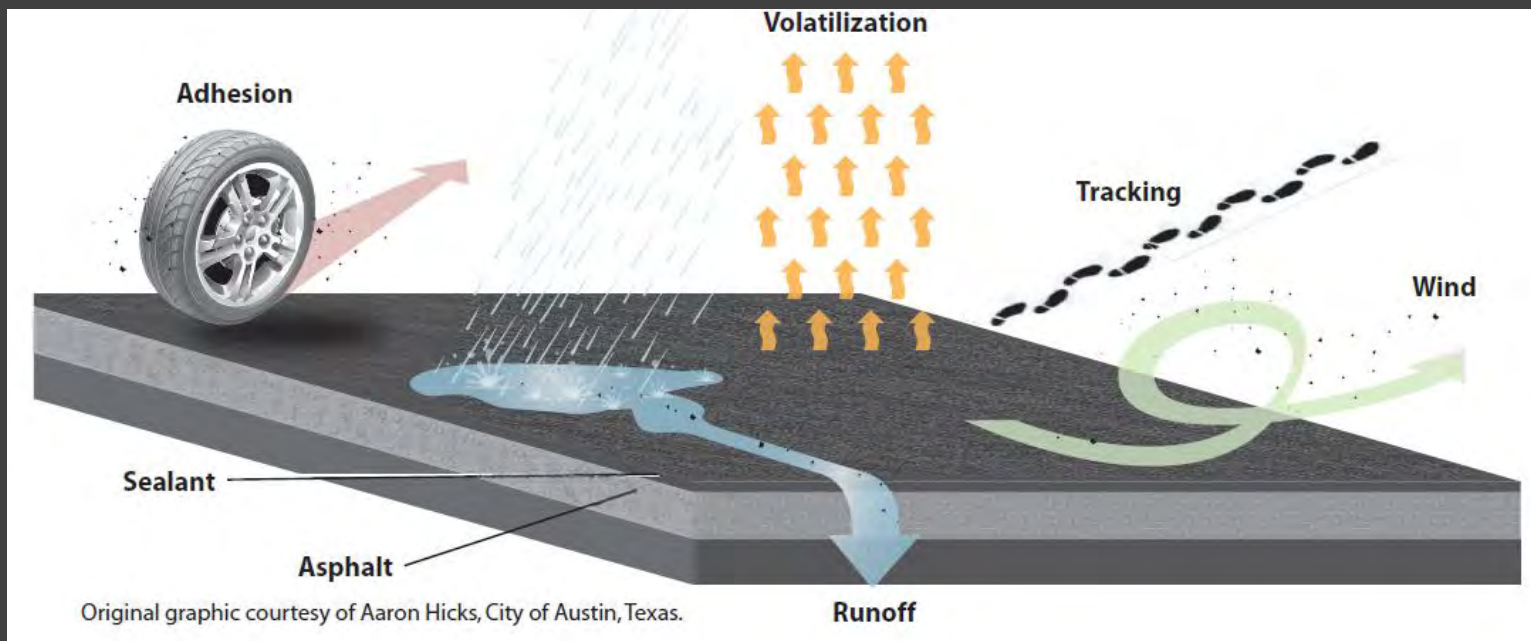
Addressing misperceptions & communicating risk

- Some people rely on the ‘internet’ as authoritative; it’s more complicated than that
- Paving and roofing asphalt are different
- Paving asphalt is classified as ‘non-hazardous’
- Asphalt is a petroleum product and may have some odor and very low emissions at high temperatures
- Mix plant emissions are from the combustion of fuel, extremely well-characterized, and amounts are similar to dry-cleaners, gas stations, restaurants, etc.



Product & Environmental Stewardship

- Leachate (RAP, in-service)
- Tire Rubber Asphalt
- In-Place Emissions



Product & Environmental Stewardship

- Leachate (RAP, in-service)
- Tire Rubber Asphalt
- In-Place Emissions



Product & Environmental Stewardship: Leachate (RAP, in-service)

“ We might have a problem with our roads: researchers have discovered that sunlight and rain might be able to turn certain compounds in asphalt into potentially dangerous hydrocarbons, threatening surrounding environment and people ...”



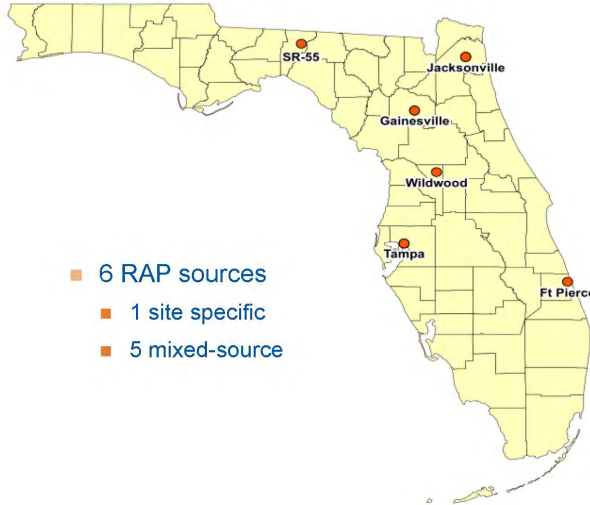
RAP Leachate: safety continues to be validated !

- Ongoing research continues to question inertness of leachate from pavement and RAP
- Asphalt is inert and waterproof
- Vehicle- and tire-wear depositions are increasingly being studied
- Recent study by Fla DOT & DEC will hopefully end uncertainty

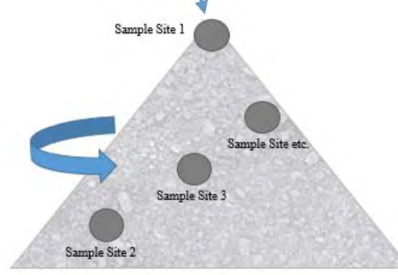

Understanding the Environmental Impacts of Reclaimed Asphalt Pavement

UF Herbert Wertheim College of Engineering
Engineering School of Sustainable Infrastructure and Environment
POWERING THE NEW ENGINEER TO TRANSFORM THE FUTURE

Sample Collection

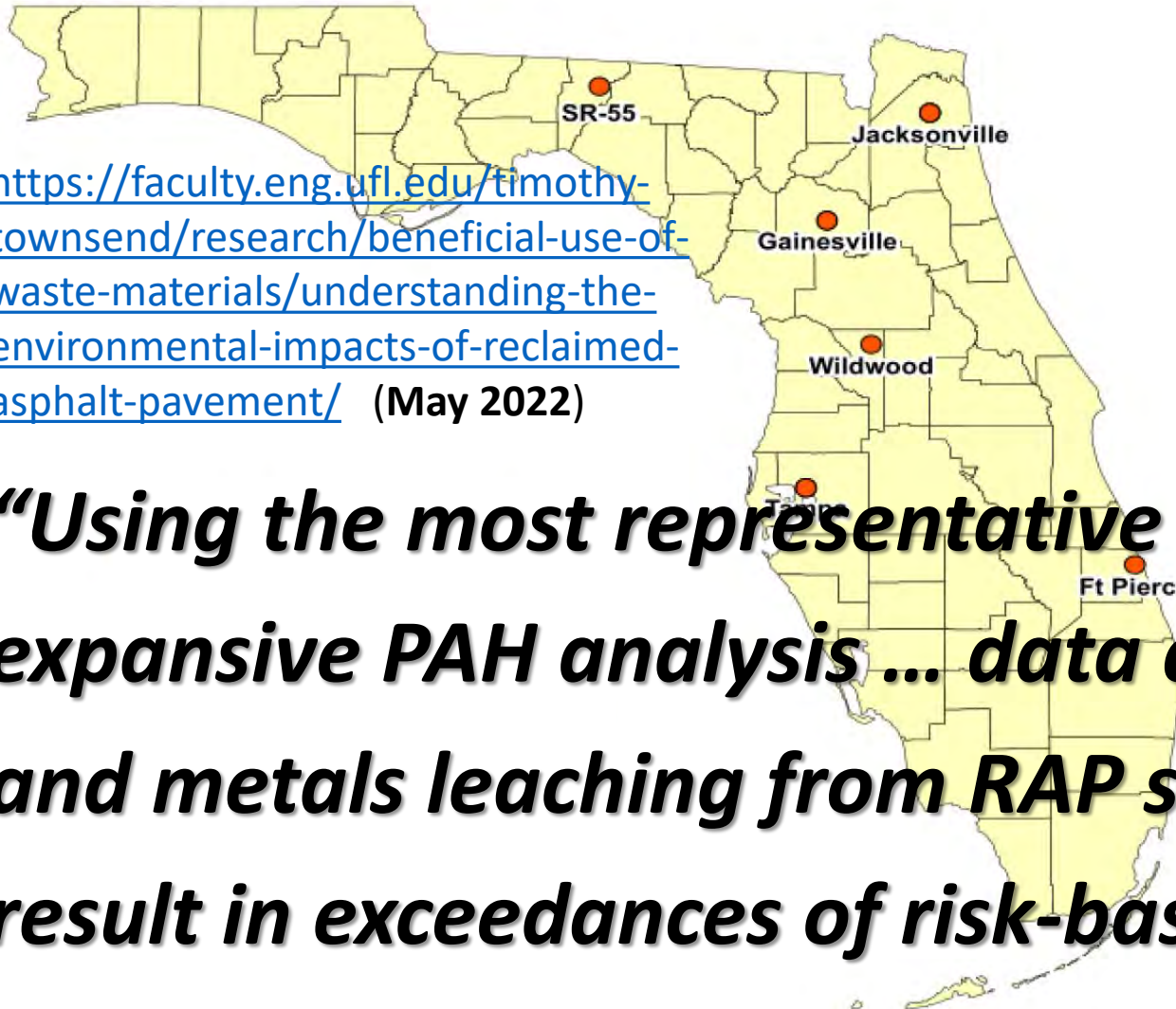


- 6 RAP sources
- 1 site specific
- 5 mixed-source



13

Sample Collection

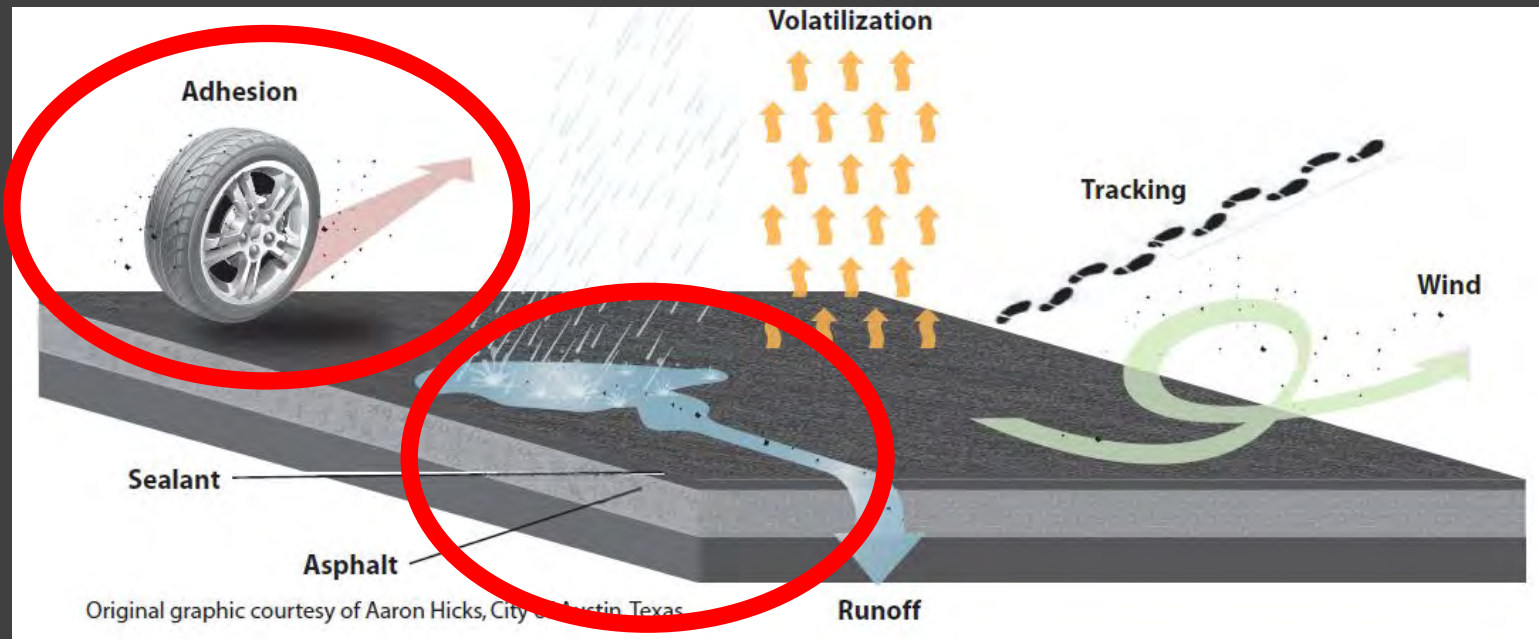


<https://faculty.eng.ufl.edu/timothy-townsend/research/beneficial-use-of-waste-materials/understanding-the-environmental-impacts-of-reclaimed-asphalt-pavement/> (May 2022)



“Using the most representative leaching method ... and most expansive PAH analysis ... data continue to suggest that PAH and metals leaching from RAP stockpiles are unlikely to result in exceedances of risk-based limits in groundwater.”

Product & Environmental Stewardship: Tire Rubber Asphalt



First Avenue South in Normandy Park, Washington. Most coho salmon returning to Miller Creek die before they can spawn.

CREDIT: KUOW PHOTO / JOHN RYAN

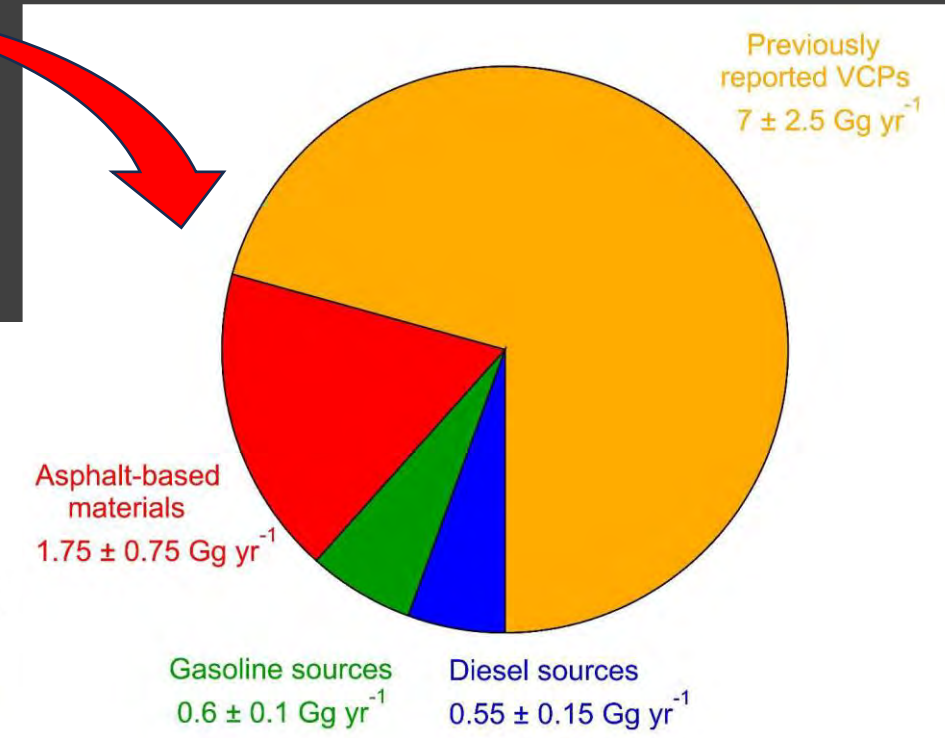
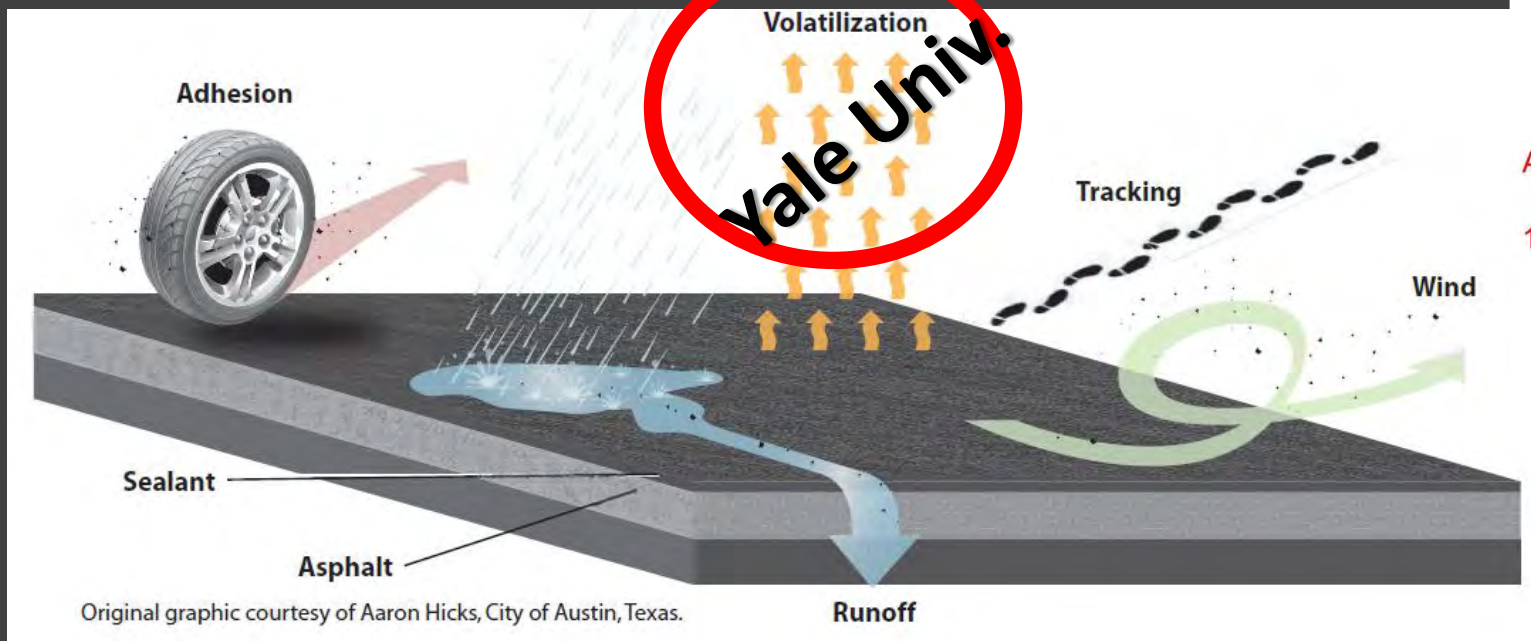
Seattle fish research could shake up global tire industry

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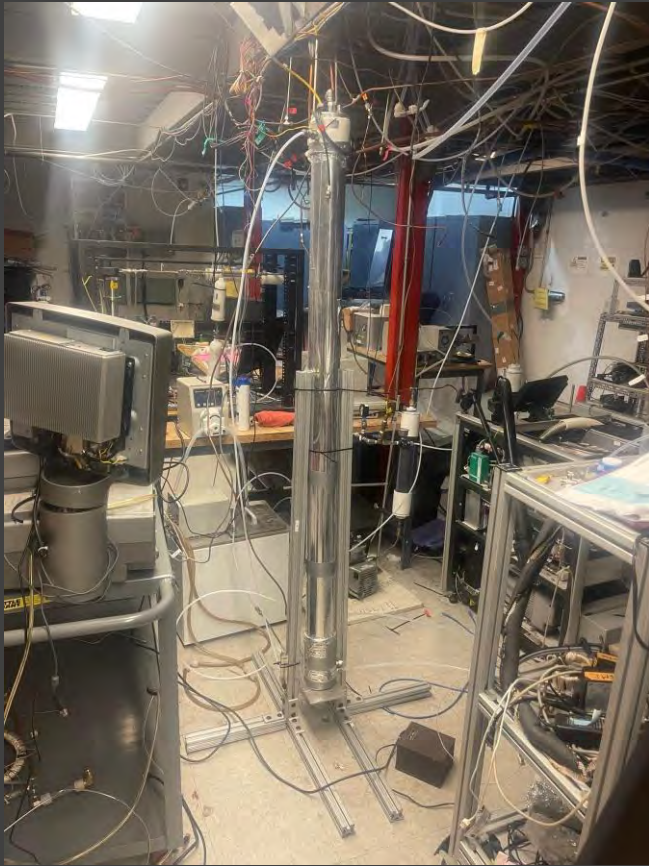
- Ongoing Calif (ban) and USEPA concerns re tire rubber runoff
- But CalTrans now requires GTR-modified asphalt pavements
- American Bar Assoc:
“6PPD-Q is ‘among the most toxic chemicals known for aquatic organisms’ ... in the parts-per-trillion”



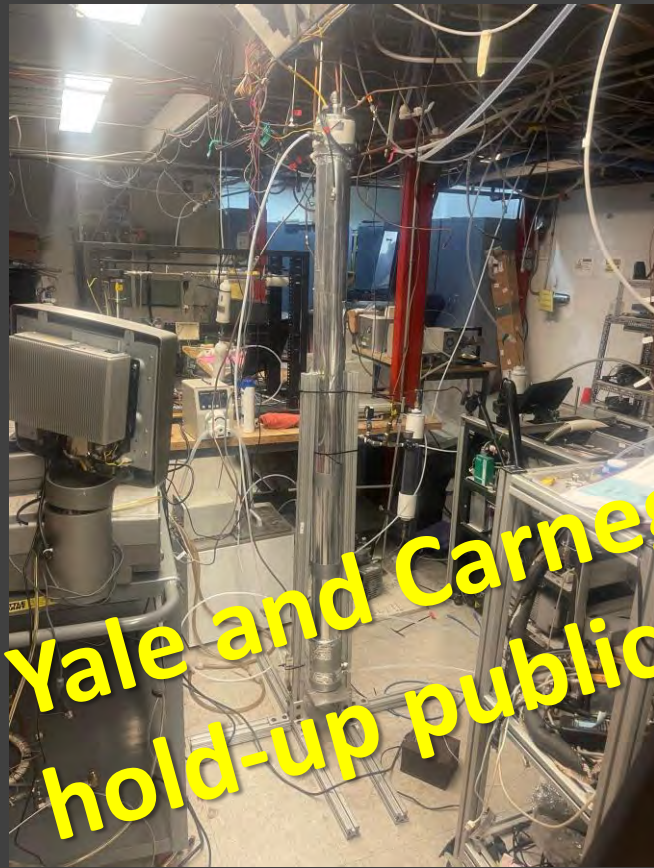
Product & Environmental Stewardship: In-Place Emissions



Product & Environmental Stewardship: Research @ Univ Calif – Riverside



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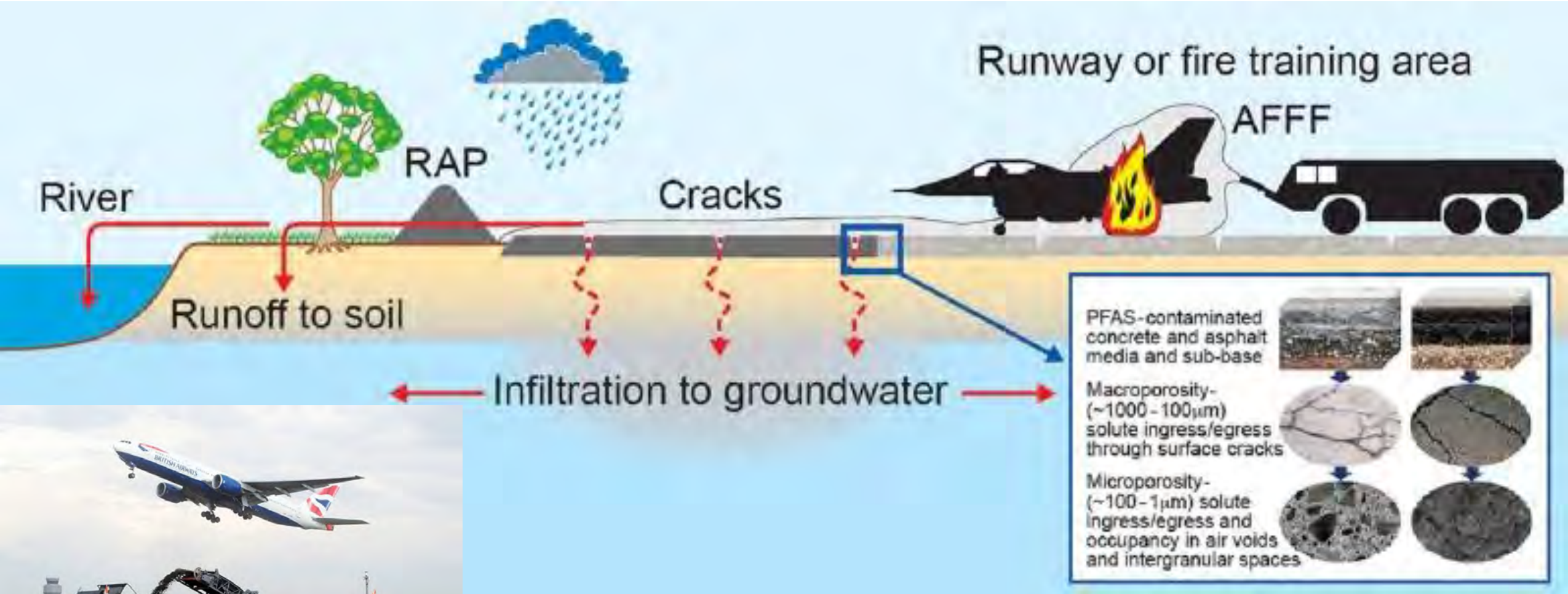
Yale and Carnegie Mellon refute/rebut UC-R's findings, hold-up publication and walk-back their original findings

Environmental Regulatory Priorities

- ✓ **Manage Env Justice Impacts on Zoning and Permitting**
 - Community relations toolkit & best practices
 - Partnership opportunities regarding odor mgmt
- ✓ **Promote Product & Environmental Stewardship**
 - Communicate UC-R results / quell EPA concern
- ✓ **PFAS Forever Chemicals / Airfield Pavements**
 - EPA's Superfund designation & litigation landscape
 - Recycling research (FAA-funded) @ Univ Fla
 - Legislative advocacy – **Liability Shield**
 - Develop suite of Risk Management tools



PFAS and Airfield Pavements



PFAS and Airfield Pavements

Taft PFAS **Insights**
UPDATES AND ANALYSIS FROM TAFT ATTORNEYS



EPA Official Indicates PFAS Hazardous Substance Designation Under Superfund May Lead to Reopening Past Cleanup Actions

By Kodi Verhalen on December 5, 2023



Advancing the Asphalt Pavement Industry



Join Today!

A large QR code is centered within a white rectangular box with a black border. The QR code is intended for users to scan and access more information about joining the association.

**Thank-you!
Questions ?**