Our Visit

A Little Philosophy
New National Roadmap
A Challenge to YOU
The perfect human-being is all human-beings put together, it is a collective, it is all of us together that make perfection.
“Play to Win!”
Larry Wilson and Hersch Wilson

Road-mapping: The Rules of Results

#1. You can’t control the results you get…
You can, however, influence the results

#2. The results you are getting are the results you should be getting

#3. If you want to change the results you are getting, you have to do something differently
A Commitment to the Future
Asphalt Pavement Research and Technology
Working Group
Established March 1, 2006

• Jon Epps (CART chair, Granite)
• Dave Newcomb (NAPA)
• Kent Hansen (NAPA)
• Steve Lenker (NSSGA)
• Ken Kobetsky (AASHTO)
• Tom Harman (FHWA)
• Mike Anderson (AI)
• Support: John D’Angelo, Katherine Petros, Bob Horan, Dale Decker
Working Group
VISION:

Develop improved asphalt pavement technologies that ensure the continued delivery of safe and economical pavements to satisfy our Nation’s needs.
Asphalt Community

Government Agencies

Industry

Academia

All understand importance of HMA to the Nation’s transportation system
Collaboration

• Joint discussions focus direction for innovation
• Research accomplished in collaboration is more easily implemented

“Significant progress will be achieved through a nationally coordinated effort to complete major projects” – Dr. Jon Epps
This Roadmap builds on a significant effort over last 10 years by NAPA’s Committee on Asphalt Research & Technology.
Overarching Themes

- Safety
- Environmental Stewardship
- Pavement Performance
- Economics
Program Areas

1. Workforce Development
2. Long-life Pavements and Pavement Performance
3. Improved Design of Pavements
4. Materials Characterization and Mix Design
5. Construction Practices and Quality Management
6. Innovative Contracting Practices
7. Surface Characteristics
Relationships between the Vision, Program Areas, and Themes

1. Workforce Development
   - Workforce
   - Safety
   - Economics
   - Performance

2. Long-Life Pavements & Pavement Performance
   - Environment
   - Safety
   - Economics
   - Performance

3. Improved Structural Design of Pavements
   - Environment
   - Safety
   - Economics
   - Performance

4. Materials Characterization & Mix Design
   - Environment
   - Safety
   - Economics
   - Performance

5. Construction Practices & QMS
   - Workforce
   - Economics
   - Performance

6. Innovative Contracting Approaches
   - Workforce
   - Economics
   - Performance

7. Surface Characteristics
   - Safety
   - Economics
   - Performance

Vision
Program 5
Construction Practices and Quality Management Systems

Develop construction practices to improve quality, increase productivity, improve safety, and extend pavement life
Intelligent Construction Systems
• 69 Projects
• 2 to 3 page “Problem Statement”
  – Introduction
  – Background
  – Overview of research topic
• Wide variety of general subject areas
• Various research approaches may be used
  – Other research may be in progress
HMA Community Priorities Identified by Working Group

- Long-Life Pavements
- Mixture Design
- Performance Based Specifications
- Quality Management Systems
- Resource Availability & Cost Containment
www.hotmix.org
Purpose of the Roadmap…

- This document is the result of public-private partnership and encapsulates the shared vision of the Asphalt Community for research and technology.

- Many individuals and groups provided direct input to the Roadmap.
Purpose of the Roadmap...

• Purpose is to serve as a guiding document to research and technology transfer organizations in formulation and identification of programs and projects.

• Individuals and groups are encouraged to draw upon and share this document.
Purpose of the Roadmap.

• Roadmap vision is to foster collaboration, partnership, and cooperation within Asphalt Community to ensure continued delivery of safe and economical pavements to satisfy our Nation’s needs.
Asphalt Roadmap

Shared Vision

“Living Document”
Early Tech Section Discussion