WELCOME
2006
ASPHALT
PAVING
CONFERENCE
2006 ASPHALT PAVING CONFERENCE

- Communication
- New Highway Legislation
- Expectations
Safe, Accountable, Flexible & Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU)

- All authorizations (for 6 year period) = $286.4B
  (38% gain over TEA-21 funding)
- FHWA Program Authorizations Total = $193.1B
- All states guaranteed over 6 yr period at least 19%
  over the prior TEA-21 funding
SAFETEA-LU

- Increased Funding
- Greater Expectations
- Operational Efficiency
- Pavement & Materials Emphasis Areas

http://www.fhwa.dot.gov/safetealu/
“... Show Us the Money !!”
# Average ANNUAL Funding SAFETEA-LU

<table>
<thead>
<tr>
<th>State</th>
<th>TEA 21</th>
<th>SAFETEA-LU</th>
<th>Diff.</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ohio</td>
<td>$0.96B</td>
<td>$1.31B</td>
<td>$346M</td>
<td>+36.01%</td>
</tr>
<tr>
<td>Indiana</td>
<td>$0.66B</td>
<td>$0.889B</td>
<td>$229M</td>
<td>+34.66%</td>
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<tr>
<td>KY</td>
<td>$0.485B</td>
<td>$0.633B</td>
<td>$147M</td>
<td>+30.32%</td>
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<tr>
<td>PA</td>
<td>$1.38B</td>
<td>$1.65B</td>
<td>$263M</td>
<td>+19.00%</td>
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</table>
## Summary of Funding

### SAFETEA-LU

<table>
<thead>
<tr>
<th>State</th>
<th>FY05</th>
<th>FY06</th>
<th>FY07</th>
<th>FY08</th>
<th>FY09</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>OH</td>
<td>1.18B</td>
<td>1.23B</td>
<td>1.33B</td>
<td>1.40B</td>
<td>1.41B</td>
<td>$6.55B</td>
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<tr>
<td>IN</td>
<td>0.8B</td>
<td>0.83B</td>
<td>0.90B</td>
<td>0.95B</td>
<td>0.96B</td>
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<tr>
<td>KY</td>
<td>0.60</td>
<td>0.60B</td>
<td>0.64B</td>
<td>0.66B</td>
<td>0.67B</td>
<td>$3.16B</td>
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</tbody>
</table>
Interstate Maintenance (IM)

- 46,000 mile Dwight D. Eisenhower Interstate and Defense Highways
- Preservation & improvement of Interstates
- Authorizations totaling $25.2B provided through 2009; $1B IM funds for Ohio

- Distributed by formula to each State
Surface Transportation Program (STP)

$32.5B authorized through 2009

$1.1B Ohio
Bridge Program

- Systematic preventive maintenance
- $21.6B authorized through 2009
  $0.7B for Ohio
- 15% bridge apportionment requirement on off-federal-aid highway system bridges,
  In 2006, $100 million is to be set aside annually to fund designated projects
New Programs

Highways for **LIFE** Program

- **Long lasting** highways using **Innovative technologies, materials and practices** to accomplish **Fast construction of Efficient and safe pavements and bridges**

- State needs to submit a project application to FHWA to participate; FHWA has lead for approval, monitoring and evaluation.
Highways for LIFE
Program Goals

- Safety
- Construction
- Congestion
- Quality
- User Satisfaction
Highways for LIFE
Construction Congestion
Performance Goals

- Faster Construction
- Trip Time During Construction
- Queue Length During Construction
FHWA Pavements & Materials Emphasis Areas

- M-E Pavement Design Guide
- Quality Assurance
  - Roadway Smoothness
  - Construction Quality
  - Materials QC/QA
- Extended Service Life
- Pavement Preservation
DEL-23
OHIO TEST ROAD

SHRP Test Pavement
DEL-23-17.48
QUALITY

• PAVEMENT SURFACE CHARACTERISTICS
  • RIDE QUALITY
  • SURFACE FRICTION

• PAVEMENT STRUCTURAL DESIGN CRITERIA
  • PAVEMENT DISTRESS
  • STRUCTURAL CAPACITY
Conclusion: *It is clear that the top priority for improving the Nation’s Highways is to focus on the **QUALITY OF THE ROADWAY SURFACE** — this is the factor that will most significantly increase public satisfaction with the highway system.*
High Speed Inertial Profiler

Lightweight Profiler
Finally! Quality measurements that you can count on!
QUALITY ASSURANCE

- Surface Preparation
- Mix Properties
- Loading & Hauling
- Laydown & Compaction
- Joint Construction
- Testing
QUALITY ASSURANCE

- Properly Handled & Placed
- Uniform--Segregation Free
- Smooth & Durable
- Target Compaction
QUALITY

- Control Variability
- Uniform & Consistent
- Incentives/Disincentives
- Objective
  Performance
  Measures
  - Ride-Distress-Friction
  & Structural Capacity
FHWA’s Emphasis Areas

- Mechanistic-Empirical Pavement Design
- Smoother Ride
- Improved Quality Assurance
- Longer Life
  - Less Maintenance
  - Reduced Delay
  - Improved Safety
- Pavement Preservation
QUALITY PAYOFF

SMOOTHER
LONGER LASTING
USER SATISFACTION
2006 ASPHALT PAVING CONFERENCE

- Street Design Standards for Local Government
- $ Benefits of Polymer Modified Asphalt
- Asphalt Pavement QA on Local Projects
- Perpetual Pavement – Initial Research Findings
- Pavement Smoothness
2006 ASPHALT PAVING
CONFERENCE

- LUNCH – Gene Smith – AD @ OSU
- Asphalt Supply and Demand
- Pavement Recycling with Foamed Asphalt
- Rebuilding War & Disaster Damaged Infrastructure
NEW HIGHWAY LEGISLATION

SUMMARY

- Substantially Increase Funding
- Needs still Outweigh Resources
- Quality Assurance
- Interstate Emphasis
- Infrastructure Preservation
Communication can be Tricky