AASHTO –
Subcommittee on Construction
San Juan, Puerto Rico
July 31, 2006

Byron Lord
Highways for LIFE

Long lasting

Innovative

Fast construction

Efficient and Safe

HIGHWAYS FOR LIFE
Accelerating Innovation for the American Driving Experience.
Highways for LIFE

“Widely demonstrate a dramatic improvement in the American driving experience”

- Improve Safety
- Reduce Construction Congestion
- Improve Quality
- Improve Customer Satisfaction
What Are We Trying to Do?

Accelerate the Adoption of Innovation.

• Change the culture
  – FHWA
  – STA’s, Local Governments
  – Industry
  – Users
Accelerate the Adoption of Innovation

- Create new business models
  - Customer focus
  - More flexibility
  - More innovation and creativity
  - Equitable distribution of risk
  - Better performance
Create new expectations:

Highways and Bridges can be built faster, safer, better! We know how to do it. We have done it. We need to do it more often!

– Owners
– Builders
– Users
Why Innovation?

“Taking advantage of innovations that are already out there is the key”

DOT Secretary Norman Mineta, 4-15-04
Why Innovation?

• “Today there exist many under-utilized, proven practices, materials, procedures, and equipment.

• We can build highways and bridges safer, faster, and better, often for less cost.

• We now use these innovations on special, high-visibility or emergency projects. However, for the most part they are adaptable to standard practice.
How Can Innovation Help?

Innovative practices change the equation.

- **Innovative Financing**
  - Opens new sources of funding
  - Allows larger projects,
  - Reduces time to build due to inadequate funding

- **Innovative Materials**
  - Last longer
  - Cure faster
  - Lighter, stronger
  - More Cost effective

*HIGHWAYS FOR LIFE*

Accelerating Innovation for the American Driving Experience.
Why Innovation?

“Insanity is continuing to do what you have always done and expecting different results.”

Albert Einstein
How Can Innovation Help?

• **Innovative Practices**
  – Speeds construction
  – Improves safety, performance, quality
  – Provides flexibility
  – Increases productivity

• **Innovative Equipment**
  – Speeds construction
  – Improves quality
  – Improve worker safety
  – Reduces impact to users and the environment
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- Projects
- Technology Partnerships
- Technology Transfer
- Information Dissemination
- Stakeholder Input and Involvement
- Monitoring and Evaluation

$15 \text{ M in 2006, }$20 \text{ M in 2007-09}$
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- Maximum of $5M/project, 15 funded per year
- Ability to waive match of Federal-aid funding, No limit on number. Amount of waive match limited to 10% of SPT, CEMAQ, NHS and IM funds
- Performance Goals for
  ✓ Safety
  ✓ Construction Congestion
  ✓ Quality
  ✓ Customer Satisfaction
Highways for LIFE: New Projects

Where Are We?

- 2006 Funding to be announced October 30, 2006.
- 2007 Funding to be announced January 30, 2007.
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Performance Goals

- Safety, Construction Congestion, Quality, and Customer Satisfaction.
- Highway motorist/user focused, “Customer Satisfaction”.
- All Performance Goals apply.
- “What” not “how”.
- “Best” not “average” performance.
- Stakeholder input.
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Technology Partnerships

- Proven success in the Highway industry, other industries or Internationally
- Adapt for routine highway use
- Incentive funding
- Technical support, Technology Transfer
- Showcase
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Stakeholder Input and Involvement
States, Industry, Highway Users

- Inform and Involve
- Help determine “How”
- Form partnerships
- Support in the implementation
- Build Projects
- Sustain the change
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Technology Transfer

• Market innovations
• Introduce and deliver innovations
• Training and technical assistance
• Vanguard Technologies
  • Road Safety Audits
  • Prefabricated Bridge Elements
  • Making Work Zones Work Better
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Monitoring and Evaluation

• Gather performance information on program and project elements
• Improve performance
• Document results and benefits
• Justify the investment
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Information Dissemination
States, Industry, Public, FHWA

✓ Program
✓ Projects
✓ Success stories
✓ Innovations
✓ Delivery and Deployment of Innovation
✓ Benefits
Want to Learn More About Highways for LIFE?
Visit FHWA’s website at:
www.fhwa.dot.gov/hfl
Thank You
Questions?

www.fhwa.dot.gov/hfl