

HIGHWAYS FOR LIFE

Accelerating Innovation for the American Driving Experience.

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

Byron Lord



U.S. Department of Transportation
Federal Highway Administration

*Highways for **LIFE***

***L**ong lasting*

***I**nnovative*

***F**ast construction*

***E**fficient and Safe*

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Highways for *LIFE*

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

- Improve Safety
- Reduce Construction Congestion
- Improve Quality
- Improve Customer Satisfaction

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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



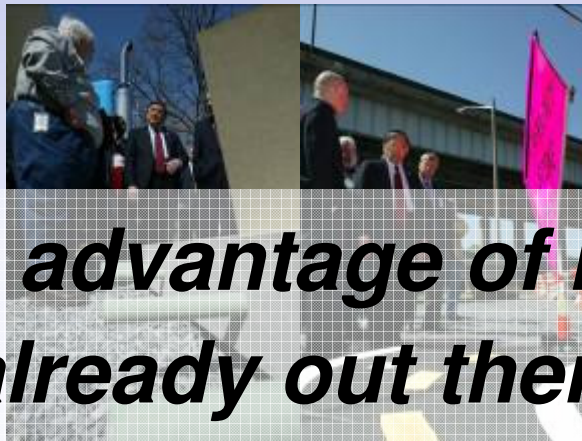
Create new expectations:

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

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Why Innovation?

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

Albert Einstein

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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



Highways for **LIFE** SAFETEA-LU

- Projects
- Technology Partnerships
- Technology Transfer
- Information Dissemination
- Stakeholder Input and Involvement
- Monitoring and Evaluation

\$15 M in 2006, \$20 M in 2007-09

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Highways for **LIFE**

SAFETEA-LU

- 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?

- *May 30, 2006, Solicitation for 2006 and 2007 projects issued.*
- *2006 Applications close August 30, 2006.*
- *2007 Applications close November 30, 2006.*
- *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

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Thank You

Questions?

[*www.fhwa.dot.gov/hfl*](http://www.fhwa.dot.gov/hfl)

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