Highways for LIFE

Accelerating the Adoption of Innovation

Virginia Concrete Conference
March 9-10, 2006
Holiday Inn Koger South Conference Center
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Long lasting
Innovative
Fast construction
Efficient and Safe
Why Long Lasting?

- 70% increase in freight tonnage to between 1998 and 2020
- 90% of urban Interstates expected to approach/exceed capacity by 2020
- Aging Interstate system…1/3 in fair or poor condition
Why Innovations?

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

DOT Secretary Norm Mineta, 4-15-04
Why Faster?

Our customers have told us:

We take too long to do our job!

Get in, stay in, get out, stay out!
Why Efficient?

Price Trend Federal-Aid Highway Construction

1987 Base Year = 100
Why Safe?

- 43,220 deaths
- 2.89 million injuries
- 6.3 million crashes
- Fatality rate 1.48 deaths/hm
- $230.6 billion or $820/person
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Long lasting  >  Better
Innovative

Fast Construction  >  Faster
Efficient and Safe  >  Less Cost

We must have all three!
Highway Community Paradigm

I can build it faster, but it will cost more and the quality may suffer.

or

I can get better quality, but it will cost more and may take longer.
Private Industry Paradigm

Better
Faster and
at Lower Cost

Examples: computers, televisions, automobiles
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“To widely demonstrate a dramatic improvement in the American driving experience”

- Improve safety
- Reduce construction congestion
- Speed construction
- Improve quality
- Save money
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- 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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Projects

• Max. of $5M/project and/or waive match
• Max. of 15 funded projects/yr
• Performance Goals for
  ✔ Safety
  ✔ Construction Congestion
  ✔ Quality
  ✔ Time
  ✔ Cost Effectiveness
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Projects > > **Performance Goals**

- Safety, Construction Congestion, Time, Quality, Cost Effectiveness
- Highway motorist/user focused, “Customer Satisfaction”
- All apply
- “What” not “how”
- “Best” not “average” performance
- Stakeholder input
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Technology Partnerships

- Proven success

*Highway industry, other industries or Internationally*

- Adapt for routine highway use

- Incentive funding
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Stakeholder Input and Involvement

*States, Industry, Highway Users*

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

• Market innovations to highway practitioners and managers
• Introduce and deliver innovations
• Training and technical assistance.
Monitoring and Evaluation

- Gather information on program elements
- Improve performance
- Document results and benefits
- Explain the investment
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Information Dissemination

- States, Industry, Public, FHWA
- Highways for LIFE
  - Program
  - Projects
  - Success stories
  - Innovations
  - Benefits
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The Future is Now

www.fhwa.dot.gov/hfl
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We can build better, faster and lower cost highways

Leap... not creep

www.fhwa.dot.gov/hfl