NCHRP 20-68A US Domestic Scan Program Scan 07-01

Best Practices
In
Project Delivery Management

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About This Scan

- First-ever Domestic Scan
- Aggregated 10 topics into this scan
- Narrowed project management into four focus areas
- Sought practices that had measureable results
- Sought practices that resulted in ontime and on-budget performance

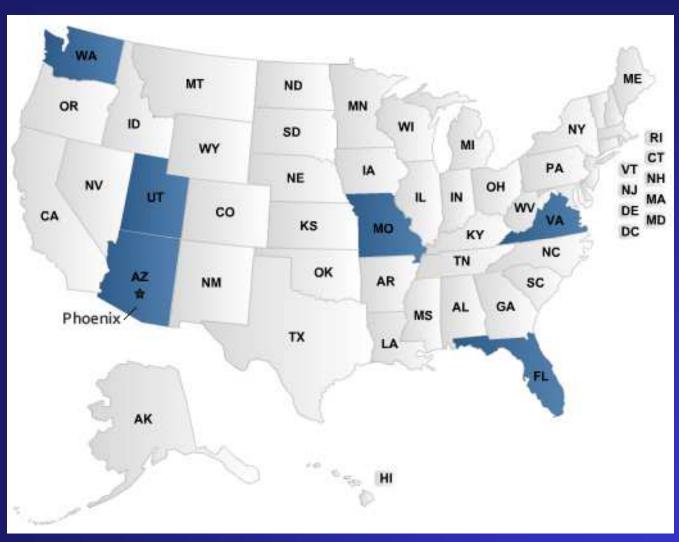
Four Focus Areas

- Project Management
- Performance Measures
- Contracting Practices
- Community Invovlement

Agencies Visited

- Arizona Department of Transportation
- City of Phoenix
- Florida Department of Transportation
- Missouri Department of Transportation
- Utah Department of Transportation
- Virginia Department of Transportation
- Washington Department of Transportation

Best Practices in Project Delivery Management



February 22-March 3, 2009

Findings and Best Practices



- Project Manager Structure
 - Training provided
 - Certification not always required
 - Use of consultants
 - Defined roles and responsibilities
 - Centralized and decentralized models
 - Good "hand offs" during the process
 - Accountability for performance

- Shared Leadership
 - Leaders drove accountability
 - Organizational silos were reduced or eliminated
 - Metrics were used to improve performance-not just to measure
 - Leaders worked at all levels with third parties

- Risk Management
 - WSDOT's Cost Estimate Validation Process (CEVP)
 - Contracting methods chosen to reduce risk (e.g. CMGC)
 - Addressing NEPA prior to STIP inclusion
 - Missouri's Practical Design

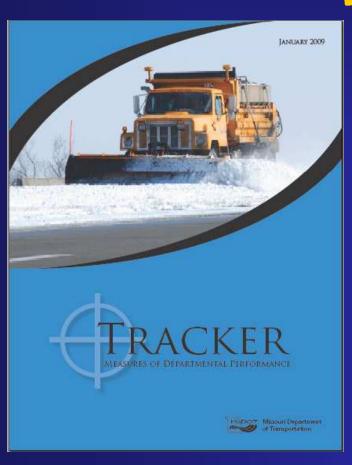
- Use of Consultants
 - Levels ranged from 25 to over 80%
 - Utah's streamlined selection process
 - Florida's use of consultant PMs
 - Where high use was noted-evaluation systems were in place
 - DOTs are concerned with maintaining core competencies of their staff

- GIS and Data Management Systems
 - States leveraged GIS and data to expedite and improve project delivery
 - WSDOT's MAP Team enhances third party interaction and permitting
 - Effective use of visualization tools
 - FDOT's ETDM program improves permitting and relationships

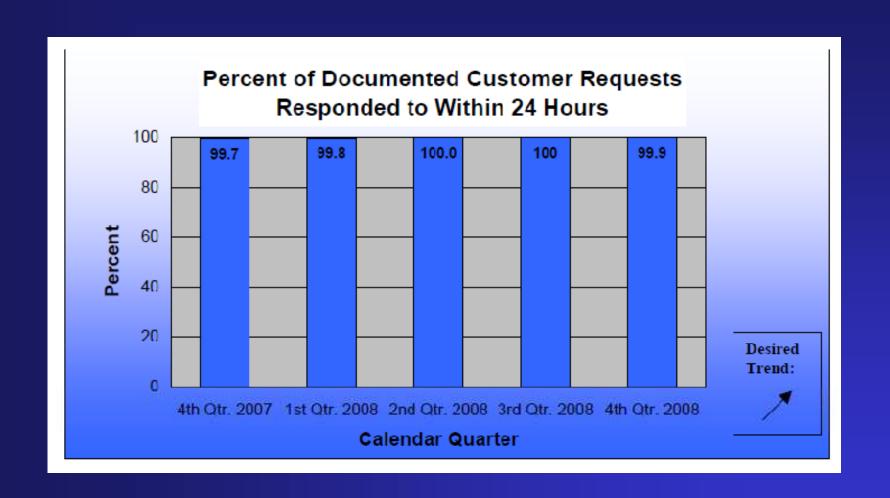
Performance Measurement

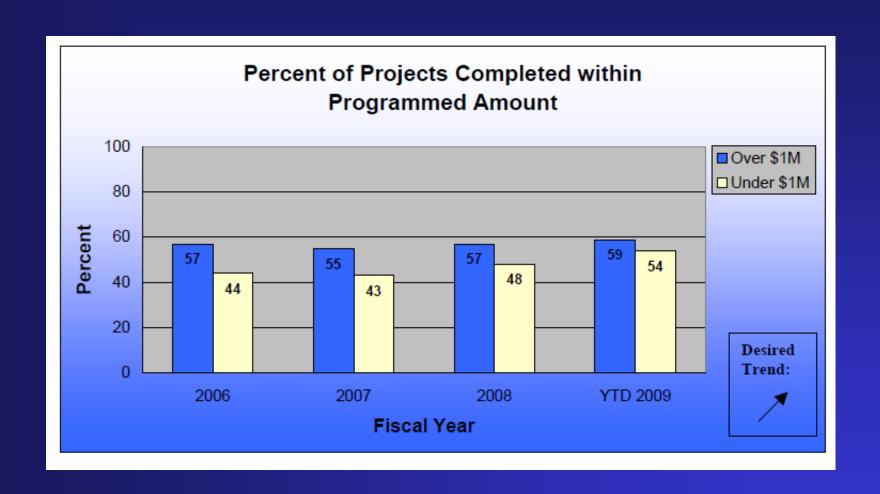
- Performance Measurement Systems
 - What gets measured gets done
 - Ease of use both internally and externally were key
 - Transparency was most evident in Missouri, Virginia and Washington
 - UDOT's ePM reduced duplicative data entry to support their system

Missouri DOT's Tracker System

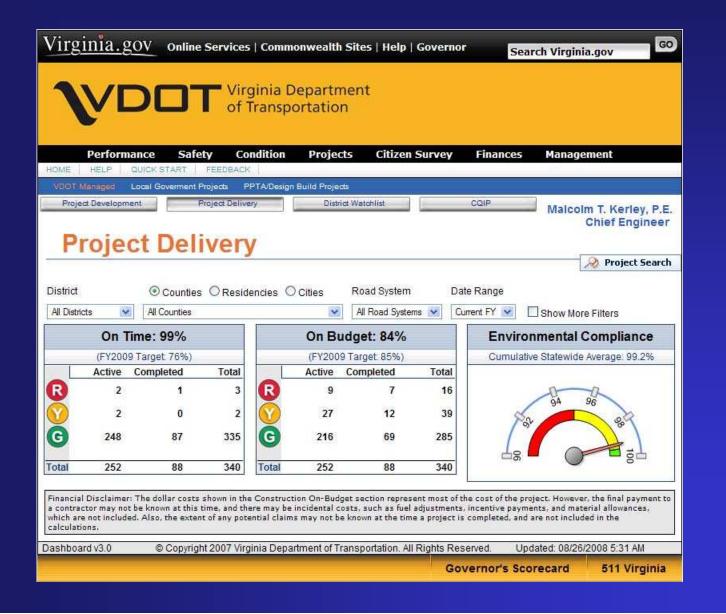


- •100 measures
- •18 tangible results
- Published quarterly
- Involves senior and mid-level management





VDOT's Dashboard



VDOT's Dashboard Attributes

- Ease of use and public transparency
- Demands accountability for performance
- Manage the projects not the data
- Defining the business rules is critical
- "Real time" updates of information
- Every "dial" has a champion

Contracting Practices

- States had extensive experience with innovative delivery tools
- Each agency used the tools available (e.g. CMGC, DB, CM at R) based on legislative authority
- Agencies cited fewer claims, better cost control, improved schedules when using these practices

Contracting Practices-cont.

- SEP-14 was used to implement new practices
- Agencies have managed federal-aid to implement innovations or reduce regulatory impacts on their programs

Community Involvement

- Early and continuous involvement
 - Brand management can be done at the agency or corridor level
 - WSDOT tells the news whether good or bad
 - Formal and informal public surveys are used-Utah has years of data available

Community Involvement-cont.

- Early and continuous involvement-cont.
 - NEPA was recognized as necessary. States found ways to leverage the process
 - Good planning and effective integration of public involvement with STIP/TIP processes works well
 - PMs who work directly with third parties and public were more effective

Community Involvement

- External relationships are important
 - States worked hard to cultivate and honor external relationships
 - Florida's ETDM initiative integrates stakeholders and resource agencies
 - WSDOT's MAP Team co-locates resource agencies and agency personnel for more efficient decisionmaking

Implementation

- Implementation strategies include:
 - Publication in professional journals (e.g. Public Roads, Governing, TR News, etc.)
 - Presentations at AASHTO, TRB, and other association or trade meetings
 - Use of contemporary media such as YouTube

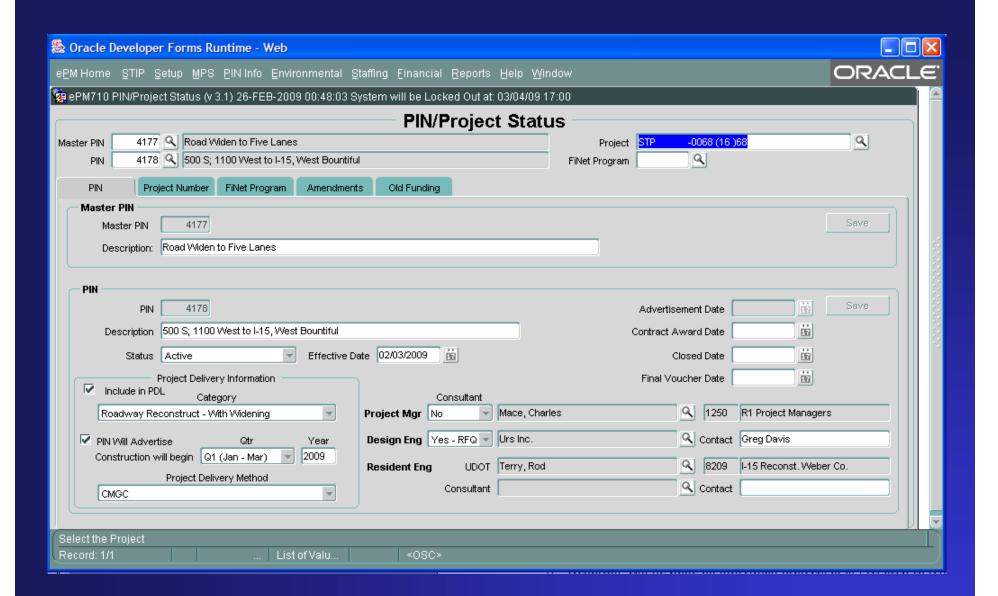
Implementation-cont.

- Implementation strategies-cont.
 - Host Webinars for selected groups
 - Share and implement findings with groups like LTAP, TIG, etc.
 - In-reach at FHWA

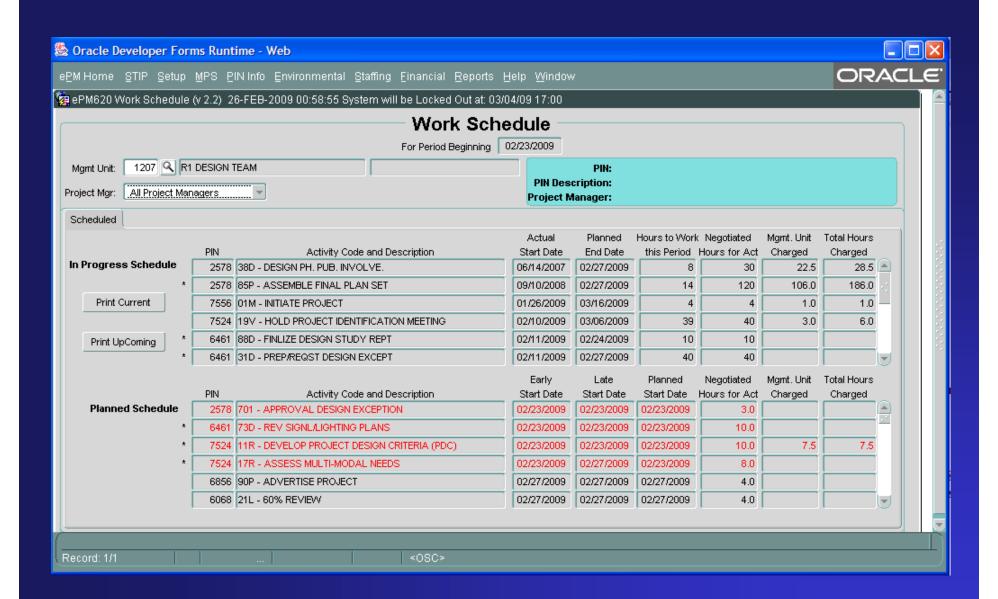
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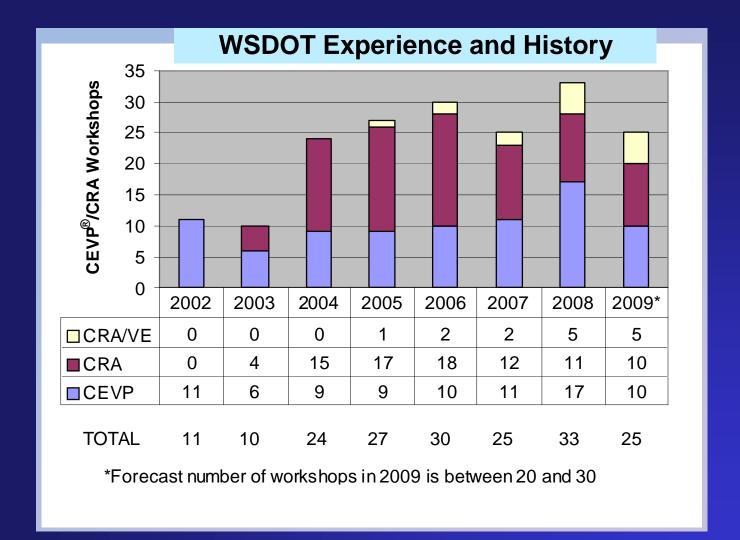




UDOT's ePM



UDOT's ePM





We, the Washington State Departments of Ecology, Fish and Wildlife, Transportation, the United States Army Corps of Engineers, and King County do believe that by working together, in the same location on the same projects, permit and regulatory decision-making for state transportation projects will be improved for all.

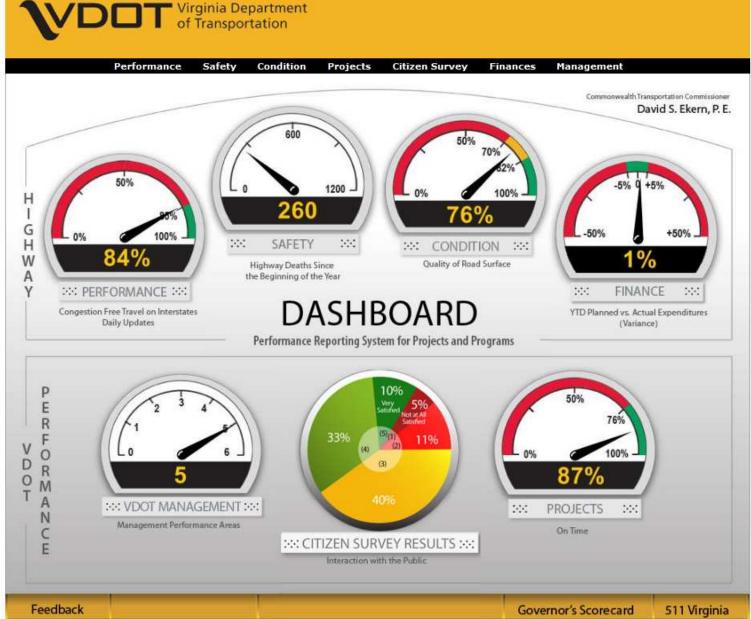
Accordingly, we commit to launching this first Multi-Agency Permitting Team (MAP Team) at the Department of Ecology's Northwest Regional Office on this 14th day of October, 2003; and, in so doing, further commit to empowering this first MAP Team with the responsibility to uphold and embrace the public call for:

- ✓ Governmental cooperation, collaboration, creativity, and team work;
- Streamlined permitting and regulatory decision-making;
- ✓ Effective environmental protection and impact mitigation; and
- Efficient delivery of transportation improvement projects that balance and are accountable to community, economic, and environmental values.

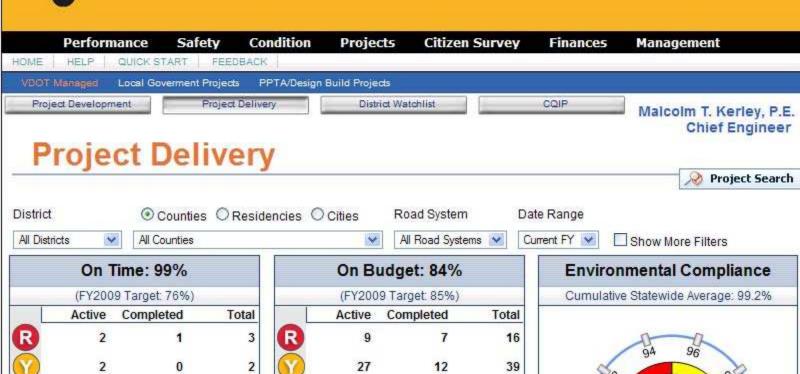
With our signatures, we enthusiastically declare "open for business" this first MAP Team, pledge our full support, and commit to continuing to work together to achieve the transportation and environmental protection goals that are vitally important to all citizens of the State of Washington.

Dach B Men Donde	10/14/03
Doug MacDonald, Secretary, Washington State Department of Transportation	Date
Jinda Hoffman	10/14/03
Linda Hoffman, Interim-Director, Washington State Department of Ecology	Date
Che ouring	10/19/03
Jeff Koenings, Director, Washington State Department of Fish and Wildlife	Date
Deba M. Jens	1/05/04
Col. Debra M. Lewis, District Engineer, Seattle District, U.S. Army Corps of En	gineers Date
(Acting pursuant to its streamlining activities under Transportation Equity Act for	21st Century)
Que Milea for	11-2-04
Stephanie Warden, Director, King County Department of Development and Environmental Services	Date

Virginia Department of Transportation







Financial Disclaimer: The dollar costs shown in the Construction On-Budget section represent most of the cost of the project. However, the final payment to a contractor may not be known at this time, and there may be incidental costs, such as fuel adjustments, incentive payments, and material allowances, which are not included. Also, the extent of any potential claims may not be known at the time a project is completed, and are not included in the calculations.

69

88

285

340

Dashboard v3.0

Total

248

252

87

88

335

340

Total

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216

252

Updated: 08/26/2008 5:31 AM



The Gray Notebook

WSDOT's quarterly performance report on transportation systems, programs and department management

Paula J. Hammond, P. E. Secretary of Transportation



GNB 32



Quarter ending December 31, 2008

published February 27, 2009



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Rail Ferries Capital Projects Workforce



http://www.wsdot. wa.gov/accountability

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American Recovery and Reinvestment Act

Project Information

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- Public Involvement
- HOV Lanes and More
- Increasing Safety
- Reducing Congestion
- Environmental Protection
- Tribal Impacts



Recovery.gov

I-5 / SR 16 Tacoma/Pierce County HOV Program

Project Status

May 2009

The Tacoma/Pierce County HOV Program has received \$70 million from the American Recovery and Reinvestment Act.

Traffic & Roads

Of that \$70 million, \$62.2 million will be used to construct HOV lanes from Port of Tacoma Road to the King County Line, supporting an estimated 350 jobs.

The remaining \$7.8 million will be used to accelerate preliminary engineering on the I-5/SR 16 Eastbound Nalley Valley project, which is scheduled to go to construction in 2011.

Welcome to the Tacoma/Pierce County HOV Program home page. The Tacoma/Pierce County HOV Program is a series of projects that build 70 high-occupancy-vehicle (HOV) lane miles on I-5, SR 16 and SR 167 in Pierce County.

From this page, you can navigate to numerous individual projects that make up the program. Some projects are complete, some under construction, others in design and some are unfunded.

Through 2016, six funded projects will be designed and constructed in Tacoma from the Nalley Valley to the King County line.

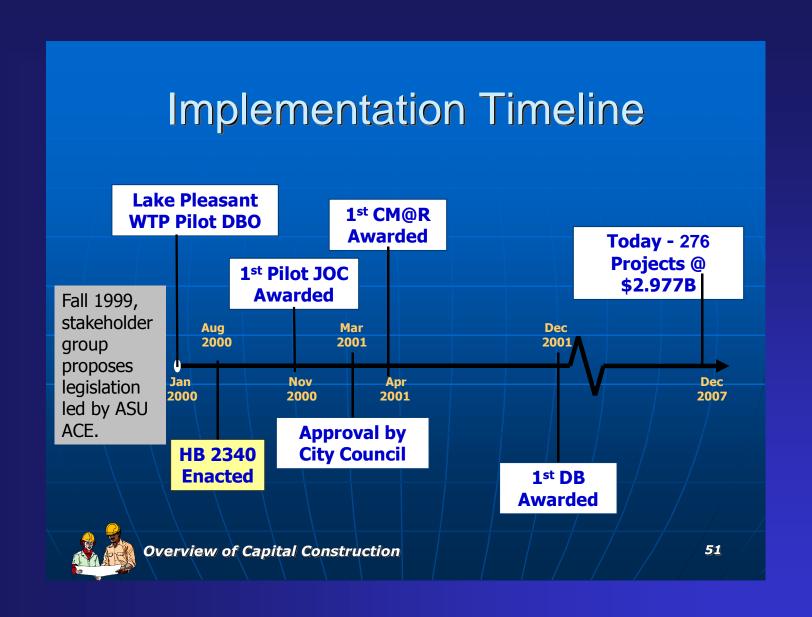
Real-time highway conditions through Tacoma are also available.



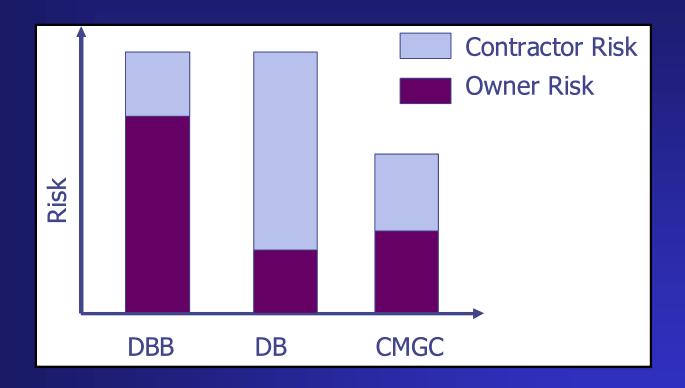
View entire map. The Tacoma/Pierce County HOV Program is a series of projects that will provide operational improvements on I-5, SR 16 and SR 167, Click on the map to view the project area and a list of the projects.



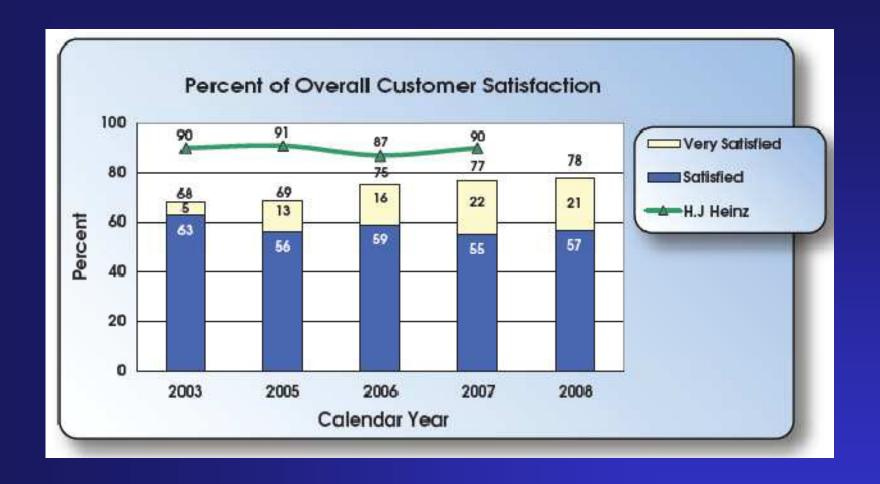
Nalley Valley Viaduct after the new westbound structure is completed.



City of Phoenix Project Delivery



UDOT Risk Allocation



MoDOT Customer Satisfaction