AASHTO Standing Committee on Quality
Subcommittee on Performance Measures

Project Delivery:
5 Yrs, 26,000 Projects, 20 States
How Do DOTs Compare?
Expanded Prototype - Preliminary Results

NCHRP 20-24 (37A) October 2006
Motivations for “Prototype”

» 2005 AASHTO Strategic Plan – “Increased use of benchmarking techniques”


» AASHTO/FHWA 2004 Scan – “Data exchange/warehousing for benchmarking performance among participating states”
Goals for Expanded Prototype

» Demonstrate value/feasibility of using comparative performance measures on wider basis

» Develop measures that will promote sharing of best practices

» Identify & address challenges and barriers
Principles

» Voluntary participation
» Quick turnaround
» Minimal bureaucracy
» Cooperative approach
» Use existing data
» Commitment to accuracy
Expanded Participants

» Arizona
» California
» Delaware*
» Florida*
» Illinois
» Kentucky
» Louisiana
» Maine
» Michigan
» Minnesota

» Missouri*
» New Mexico*
» North Carolina
» Ohio*
» Pennsylvania
» South Dakota
» Tennessee
» Vermont
» Virginia*
» Washington*
The Projects

» Reports are for schedule & cost during construction phase ONLY
» Data exported from states’ construction mgmt systems
» Includes projects with original scheduled completion 2001-2005
Performance Measures

On-Budget
- State sets original project construction budget in project mgmt system
- Strict measure determines whether actual final project cost is more or less than original cost
- Lenient measure allows up to 110% of original bid

!ALL DATA ARE DRAFT ONLY!
Avg. Projects At/Below Original Budget (Strict)

Over Budget: 55%

On Budget: 45%
State-by-State: On-Budget Strict Measure

Highest (64%)

Lowest (23%)

Average (45%)
Avg. Projects At/Below 110% of Orig. Budget (Lenient)

- On Budget: 78%
- Over Budget: 22%
State-by-State: On-Budget Lenient Measure

Highest (91%)

Lowest (52%)

Average (78%)
Performance Measures

On-Schedule

» State sets original project construction schedule in project mgmt system

» Strict measure determines whether actual final project schedule is longer or shorter than original schedule

» Lenient measure compares to updated schedule (e.g. due to change order)
Data still in development

!ALL DATA ARE DRAFT ONLY!
Avg. Projects On Schedule (Strict)

On Schedule 55%
Behind 45%
State-by-State: On Schedule
Strict Measure

- Highest (95%)
- Lowest (13%)
- Average (55%)
Support from the SCoH

» Help drive the development of comparative measures rather than allowing others to drive.
» Support the SCoQ’s efforts to expand comparative measures to more areas of DOT performance.
Thank You!

For further information, contact:

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