



AASHTO TIG

Use of ITS Technologies for Work Zones

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ITS in WZ – Potential Benefits

- Improve safety
- Improve mobility
- Reduce downtime (Get-in, Get-out, and Stay-out)
- Reduced enforcement
- Accurate/timely info to road users
- Understanding/compliant road users
- Cost savings



ITS in WZ - Applications

- Congestion management
- Incident management
- Real-time traffic data acquisition/dispersal
 - > Pre-route and En-route
- Variable Speed Limits
- Dynamic Lane Merge/No Passing Zones
- Automated Enforcement
- Moveable Barrier Technology



ITS in WZ - Concerns

- Credibility of info/control provided
- Driver's expectations
- Travel time info vs. delay vs. queue length
- Manual vs. automated control
- Transportation security issues
- Uniformity/consistency
- Avoid overcontrol – inform vs. regulate



ITS in WZ – TIG Objective

- Extend and expedite the deployment and use of ITS technologies/systems in work zones



ITS in WZ – TIG Approach

- Phase I:
 - Survey
 - Lead States
 - Business Plan
- Phase II:
 - Implement awareness/deployment program



TIG/ITS in WZ – Phase I

- Task #1: Survey of DOTs (completed)
- Task #2: Identify 8 lead states (completed)
- Task #3: Meeting of Lead States (March '03)
- Task #4: Business Plan Proposal/Deployment Plan (March '03)

Total Cost: ~\$100K



TIG/ITS in WZ – Phase II

- Task #1: Implementation Focus Team
 - 15 persons of diverse backgrounds
 - Panel meetings to gather info and prepare workshop materials. **Part of Phase I, Task 4**
- Task #2: Awareness Plan
 - Brochure/booklet
 - Video
 - AASHTO TIG Web-site
 - Materials for Speakers' Presentations



TIG/ITS in WZ – Phase II

- Task #3: Outreach
 - TRB Annual Meeting
 - Info - brochures/booklets/video to transportation professionals; industry
 - Publish articles
 - Present at conferences
 - Host demonstration workshop
(by September ` 03)



TIG/ITS in WZ

- Program Leads: Douglas Rose (MD SHA)
Thomas Hicks (MD SHA)
- Workshop Host State: Maryland
- Program Manager: David Ekern (AASHTO)
- Administrative Officer: Tony Kane (AASHTO)
- AASHTO-TIG Chair: Gary Hoffman (PennDOT)



TIG/ITS in WZ

QUESTIONS ???