

Cost Effectiveness / Right-sizing

- Focus on the 2006 ASHE Presentation
 - District Process/Approach
 - Project Specific Examples
 - Measurements of Success
 - Who Addresses Right-sizing Issues

Cost Effectiveness / Right-sizing

- 2007 Process Improvements
 - All projects have a Right-sizing Element
 - TS&L Approvals
 - DEP Submissions
 - PMC Approval
 - Right-Size Approach, Project Example

Cost Effectiveness / Right-sizing

- All projects have a Right-sizing Element
 - Major 12-year Program Projects
 - Local Lead Projects
 - All Bridge Projects
 - Betterments and Resurfacing Projects
 - Enhancements, HTS and SRS
- Design Review Meetings

Cost Effectiveness / Right-sizing

- TS&L Approvals – Reduced Effort
- Minimize DM4 Requirements
- Pre-Meeting with District Bridge Unit
- Review Existing Conditions/Parameters
- RSGER
- Consider Project Location
- Eliminate Obvious Options
- Focus on Experience/History

Cost Effectiveness / Right-sizing

- DEP Submissions
- Handout on ASHE Website
- Distributed to Consultants from 8-0 (3-7-07)
- Pre-Application Meetings for JPA's
- Direct Submission to DEP w/ADE Signature
- Option for Pre-submission Meeting w/DEP
- Administrative/Technical Review Comments to 8-0

Cost Effectiveness / Right-sizing

- PMC Approval – Project Cost Increase
- Has the Project been Right-sized?
- What are the results – Documentation
- Project Cost Increase Form
- If not, why not?

Cost Effectiveness / Right-sizing

- Right-Size Approach, Project Example
- Lancaster SR 0023-013 Signal Interconnect
 - Scope:
 - Update time-based system in Manheim Twp.
 - Add new Coordination system in Upper Leacock Twp.
 - Update Closed loop system in Earl Twp./New Holland
- Closed Loop vs. Timed Based

Cost Effectiveness / Right-sizing

- Closed Loop System-Pros
 - Signals are tied together in a network
 - Master Controller keeps optimum Synchronization
- Closed Loop System-Cons
 - Initial Cost
 - Need Aggressive Municipality to Maintain the System

Cost Effectiveness / Right-sizing

- Timed Based System-Pros
 - Much Lower Initial Cost
 - Less Sophisticated Maintenance
- Timed Based System-Cons
 - Keeping the System Synchronized
 - Timing Changes Requires Work at Each Site
- Other Options?

Cost Effectiveness / Right-sizing

- Global Positioning System
- 90% Reduction in Construction Cost
- Deliverable in terms of the Let Schedule
- Reduced Local Responsibility/Cost
- Utility Phase Cost Reduction (\$700k)
- Savings in Final Design Cost
