

ASHE Presentation

Project Delivery

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Presentation

- **Planning Strategy/Results**
- **Project Delivery**
 - Results
 - Issues
 - Initiatives
 - Future trends
- **New challenges**

District 8 Planning

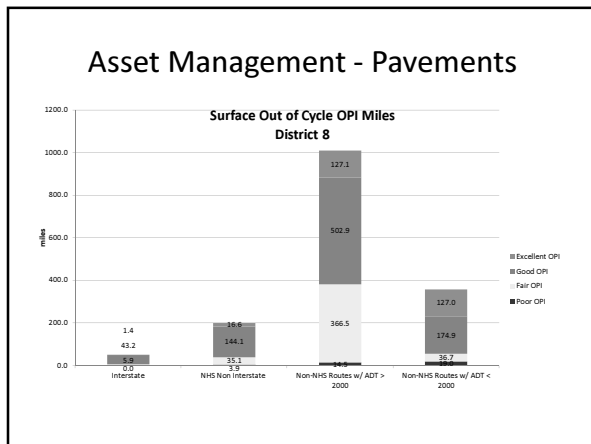
Metric	2007	2014	Trend
SD Deck Area	18.3%	6.8 %	Positive
SD #	20.63%	14.9%	Positive
IRI Median	132	127	Positive
Excellent IRI	23%	27%	Positive
Poor IRI	17%	13%	Positive
Fatalities (5 year avg.)	250	202	Positive

3



Asset Management Bridges

- Decade of Investment
 - Continue Preservations
 - Less Rehabilitation projects
 - More replacements
 - P3 Process for 91 bridges by end of 2017
 - More Packaging for delivery
 - Major Bridges in good condition overall



Project Delivery Performance

- ECMS Teams are doing a great job!

- How do we all do better? Our focus for today's meeting.

Project Delivery Performance

- Metric Trends:
 - 100% on 2013 and 2014 letting schedules met
 - +/- 2% within final construction costs
 - 0% to 40% of the goal for Accrued Unbilled Costs
 - 40% to 60% final estimates within 10% of bids

- Public Relations is Good Overall

Project Delivery in 2014

- \$224.7 million bid**
- 125 MPMS Projects
- Act 89 is about \$71 million for
 - 13 bridge projects
 - 14 resurfacing projects
 - I-283 Dauphin County
 - I-83 Newberrytown, York County
 - District Bridge Contract
 - 73 bridges over 4 years

Project Delivery in 2015

- \$211 million bid**
- 84 MPMS projects
- Act 89 is about \$71 million
 - 53 bridges, fix 31 SD
 - I-83 Exit 18 in York County
 - US 11/15 Rock Slope Duncannon

Project Delivery in 2016

- \$289.4 million bid**
- 140 MPMS projects
 - 105 bridges, fix 60 SD
 - I-83 Bridges in East Shore Section
 - I-81 Widening Projects
- P3 for 37 bridges

Key Project Delivery Metrics/Goals

- DOT Design 100% Meet Letting Schedule
- Construction On budget/On schedule
- Contractors 100% Payment in least time
- Consultants Billable hours
- Agencies Minimize impacts
- Public Minimize impacts
- All Quality projects

Addressing the Future

- PENNDOT Next Generation Teams
- PENNDOT/PA Turnpike Surveys; partner with APC on priority items
- Feedback from ASHE Partners
- Q/A sessions on technical issues, do in follow-up sessions at District 8 for New Project Managers



Project Delivery Themes

**Public Private Partnerships
Innovation
Every Day Counts**

14



Project Delivery Focus



Safety

Grouping projects

Communication/Teamwork

Less time on doing business is more time
for work

15

Project Delivery Issues

- Opportunities for the future
 - Allowing for **innovation**
 - How?
 - When?
 - Where?
 - Who?
 - Utility and Construction Scheduling
 - Bike/Pedestrian Coordination

Innovation

"Change does not necessarily assure progress, but progress implacably requires change. Education is essential to change, for education creates both new wants and the ability to satisfy them."

- Henry Steele Commager (American historian)



Project Delivery (Where we have been)

Design/bid/build
ECMS Teams
Maximum detail
One bridge at a time
Redundancy
Multiple Reviews

18




Project Delivery

(Where we are)

Design/bid/build

Design Build



Little innovative bidding

Some bridge grouping

QC/QA Plans

More owner perspective review
Next Generation Changes

19

Project Delivery

(Where do we go for innovation?)

Design/bid/build modifications

Design Build



P3 Approach

Less details

Project packaging
Warranty

Innovative Bidding (A +Bx, Lane rentals, etc.)

20

Project Delivery

(Where do we go for innovation?)

Who decides what and when for a project?

Linking NEPA and Planning?

Scoping?



TSL?

PE?

Design Build?

Value Engineering?

21





Project Delivery

Consultant Quote:

" I do not want to design something that is not going to be built"

22



How can we improve?



ECMS Teamwork

Less walls between DOT & Private

Teams work/think out of silos

Consultants make decisions

23



Project Delivery

(Where we are for 2015 and 2016)


Design Build for innovation: 4 Projects

A + B(x) bidding/Lane Rentals: 20 projects?

Design Build Bridge Grouping: 11 bridges


Supergroup Bridge Selections

24



Project Delivery

(Allow innovation?)



How to do Design/Build in 8-0?

Choose the right projects

Concept plans only if necessary

Do not overlap information

Efficiency is key!

25

Safety/Congestion Innovation

- **We all need to advocate when needed:**
 - Adaptive Traffic Signal Systems
 - Diverging Diamond Interchanges
 - Weave Lanes connecting ramps
 - Low Cost Safety Projects
 - Markings, Rumble strips, signing
 - Roundabouts

Bike/Pedestrians

- Cross River Study in Harrisburg
- Capital Area Greenbelt
- Cities and redevelopment/bikelanes
- District working with Advocacy Groups
- Financial and Responsibility Issues
- Trying to address issues in Planning stages

New Challenges for Consultants

- Manage Multiple project packages
 - PM questions for Bridge Supergroup Selections
- Coordination Work
 - Permits, ROW, Utilities, Municipalities
 - ROW Trainees in Agreements
 - How to track and expedite
 - Accurate Schedule for Construction
- Ideas for how to allow innovation efficiently?

Challenges for ECMS Teams

- Constructability Work
 - Coordinate, review, make decisions, innovative bidding, coordinated schedules
- More efficient ECMS agreement processes; two months savings overall with PNG items
 - ECMS Improvements, open-end capacity increases, cloning items for speed , etc.

THANK YOU

?? QUESTIONS ??
