



# Next Generation Transportation Construction Management Pooled Fund Program

Keith Molenaar

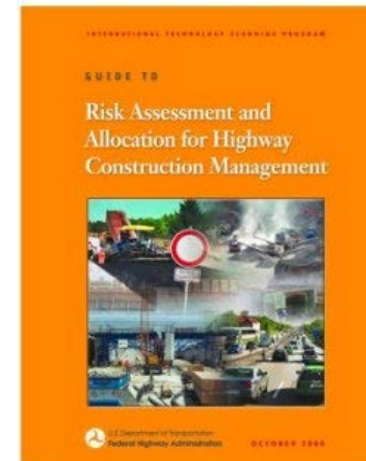
2015 Subcommittee on Construction  
Little Rock, Arkansas



# TCM Pooled Fund Background

- Began with TCM Steering Group in 2004
- Funded by FHWA over 6 years
  - Two International TCM Conferences
  - Published a “Risk 101 Guide” and Risk Workshops
  - Published white paper on Alternative Payment and Progress Reporting Methods
  - Coordinated and delivered six webinars

Thanks to Jerry Yakowenko  
and FHWA Team





# Why a TCM Pooled Fund?

- FHWA Pooled Fund Program has existed for more than 25 years
- The Next Generation TCM is the first SOC pooled fund
- Leverages minimal state commitments
- Pooled fund programs allow flexibility and focus not available elsewhere



# TCM - Filling a Construction Technology Transfer Gap between the AASHTO SOC and TRB

## AASHTO Subcommittee on Construction / AASHTO Task Forces

- Annual Meeting
- Section Workplans

## TRB / NCHRP / FHWA Research

- NCHRP Research Reports
- NCHRP Synthesis Program
- FHWA Research



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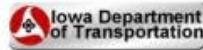
## TCM – Pooled Fund

Sharing experiences and current practices through

- Case Studies
- Reports
- Evaluations
- Web Pages
- Webinars
- Meetings
- Conferences

## TRB / NCHRP / FHWA Research

- NCHRP Research Reports
- NCHRP Synthesis Program
- FHWA Research



# What is the TCM Scope?

- 1) Improve the *Efficiency* of the delivery of transportation projects through the use of appropriate project delivery methods, contracting methods and contract management provisions, new technology, etc.
- 2) Improve the *Quality* of construction through the use of advanced construction management tools, practices, and performance measures
- 3) Improve *Risk Management* procedures

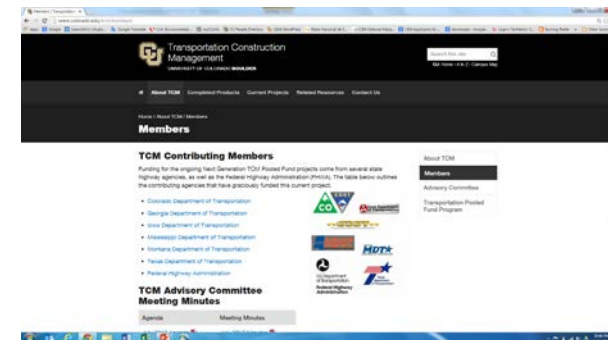


Thanks to Steve DeWitt and the  
AASHTO/ARTBA/AGC/ACEC Team



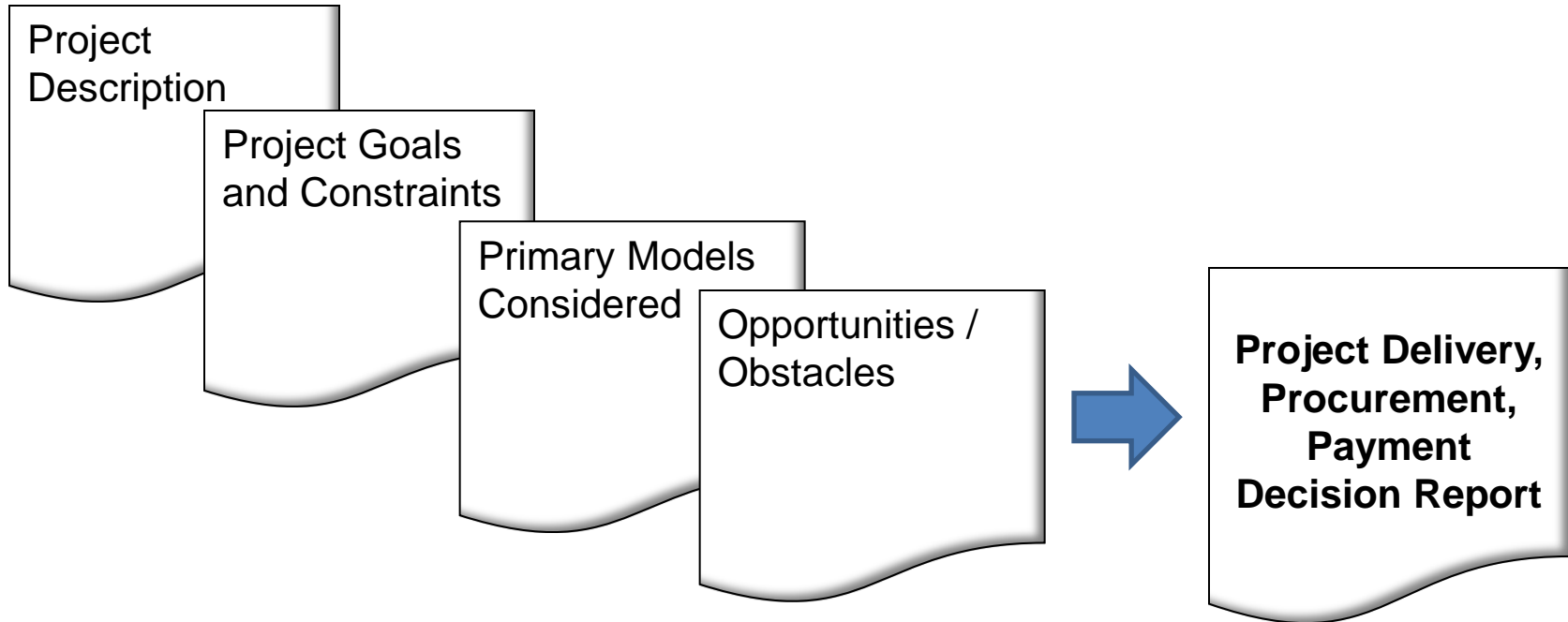
# What has the TCM accomplished?

- 1) Guidebook on Alternative Contracting Methods
- 2) Construction Engineering and Inspection Practices
- 3) Community Outreach Best Practices for Accelerated Construction Projects
- 4) Construction Production Rates for Estimating Contract Time





# Guidebook on Alternative Contracting Methods







# Construction Engineering and Inspection Practices

- CEI Categories (Activities) Usage
- Estimated Annual Dollar Volume of CEI Consultant Work
- Frequency of CEI Services per Project Size
- Practices or Tools used in Administration of CEI Consultants:

- Define Scope of Work
- Selection Process
- Pre-construction
- Contract Clarification and Modification
- Work Execution
- Payment Administration
- Monitoring and Inspection
- Human Resources
- Closeout Process

- Frequency of Meetings
- Importance of Advantages & Disadvantages

**SCOPE OF WORK**  
April 28, 2011  
CONSTRUCTION MANAGEMENT & CONSTRUCTION INSPECTION SERVICES

**EXHIBIT B**  
SCOPE OF SERVICES  
RFQ 484-09012  
T000CEI13022

**CONSTRUCTION ENGINEERING AND INSPECTION**  
INFORMATION PAMPHLET FOR CONSULTING ENGINEERS  
CONNECTICUT DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING AND HIGHWAY OPERATIONS  
OFFICE OF CONSTRUCTION  
~ August, 2008 ~

**SCOPE OF SERVICES SUMMARY**  
PROPOSED SCOPE OF WORK - CEI

**SCOPE OF WORK**  
April 28, 2011  
CONSTRUCTION MANAGEMENT & CONSTRUCTION INSPECTION SERVICES



# Community Outreach Best Practices

## Outreach Tools

- Variable sign boards
- Name branding
- Webpages
- Newspaper coverage
- Radio coverage
- Television coverage
- Town hall meetings
- Social media



## Topical Gaps

- Outreach Goal
  - Traffic avoidance
  - Driver awareness
- Loss of Service
  - Loss of shoulder
  - 50% capacity loss
  - Full closure
- Mobility Impact
  - Tier I - <24 hours
  - Tier V - > 3 months





# Production Rates for Estimating Contract Time

Objective is to develop a guide and tool to effectively estimate contract time for future construction project.

- Project kickoff this month
- Forming advisory panel now





# Who is the TCM Pooled Fund?

Imad Aleithawe MDOT

Thomas Bohuslav TxDOT

Bryan Cawley FHWA

Steve DeWitt NCDOT

Roselle Drahushak-Crow CDOT

Richard Duval FHWA

Lester Fukuda ACEC

Jake Goettle MTDOT

Paul Goodrum, CU

Nabil Haddad CDOT

Christofer Harper, LSU

Randy Jensen FHWA

Marc Mastronardi GDOT

Keith Molenaar, CU

John Obr TxDOT

Greg Mulder IDOT

David Reeves CDOT

Kevin Ryburn CDOT

John Smythe IDOT

Dan Tran, KU

Moin Uddin, ETSU

David Unkefer FHWA

Gerald Yakowenko FHWA

Laura Zamora CDOT



# You are the TCM Pooled Fund

- Meeting today at 1:00 pm today – Hoffman Room
- Committee is looking for new members
- Suggested contribution is \$25k/year for 3 years
- TCM Pooled Fund must renew in 2016 or sunset

