



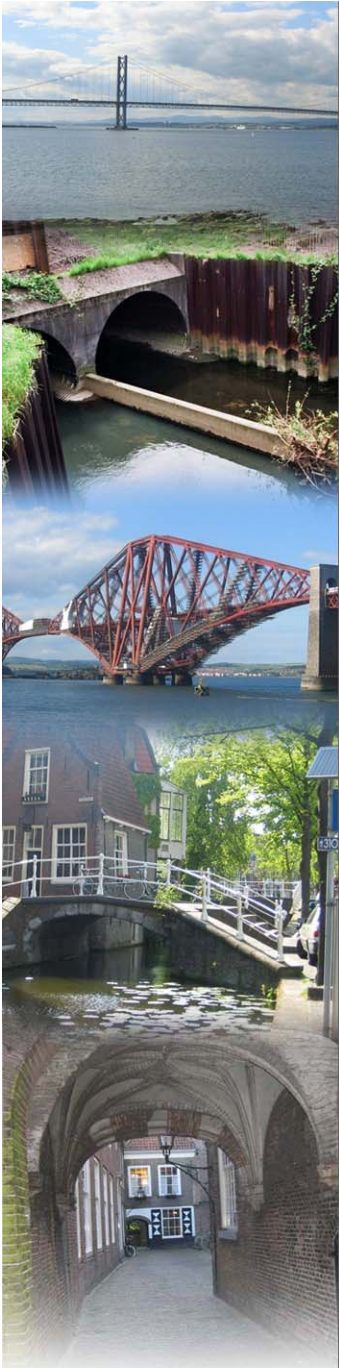
Construction Management Expert Technical Group

Concept Implementation Status

Steven D. DeWitt, PE
Chief Engineer
North Carolina Turnpike Authority

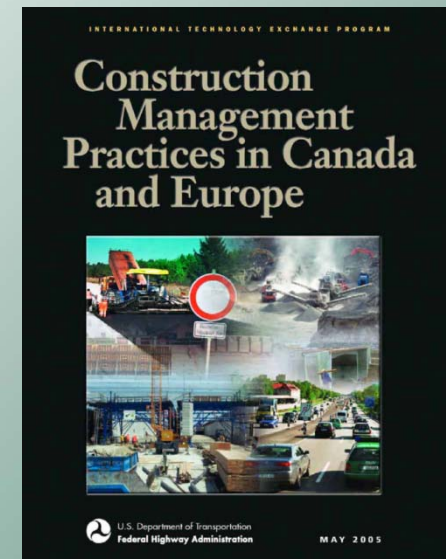


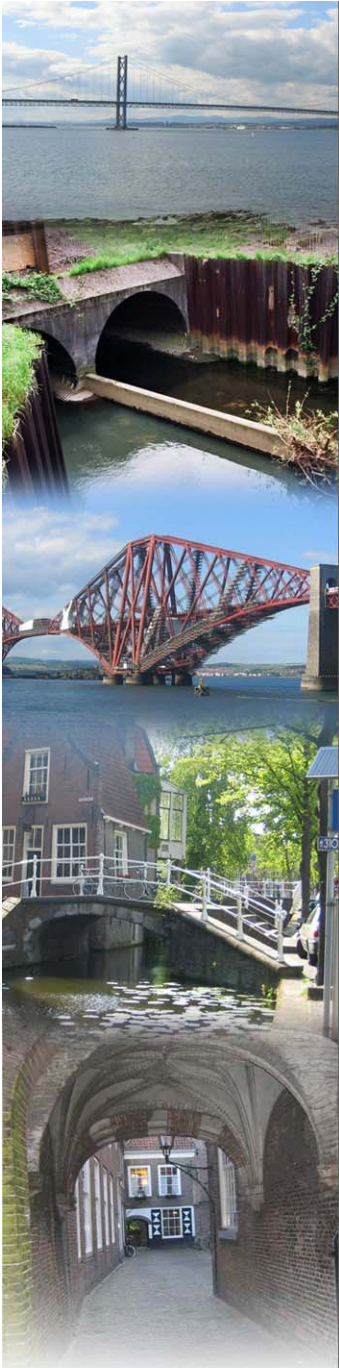
U.S. Department of Transportation
Federal Highway Administration



2004 Scan Objectives

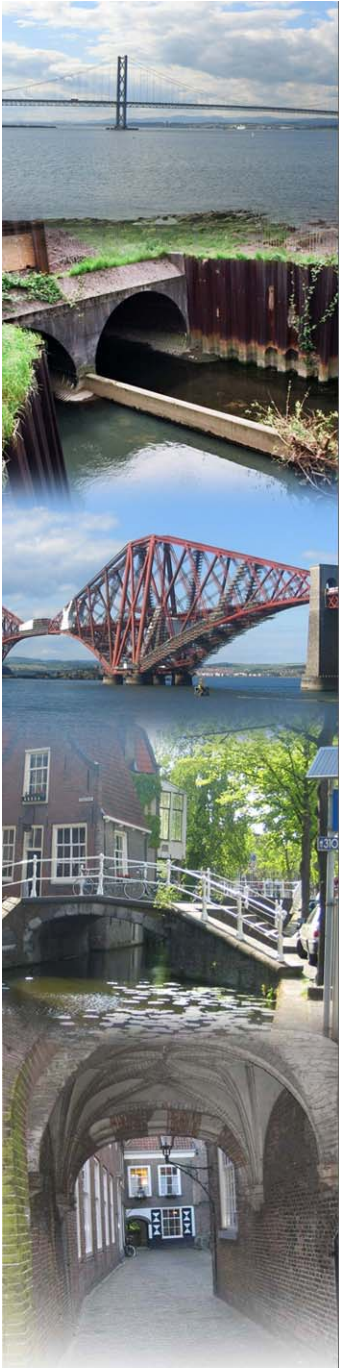
- International CM Procedures
- Focus Toward Ensuring Project Delivery
- Contract Compliance
- Quality Assurance





Recommendations

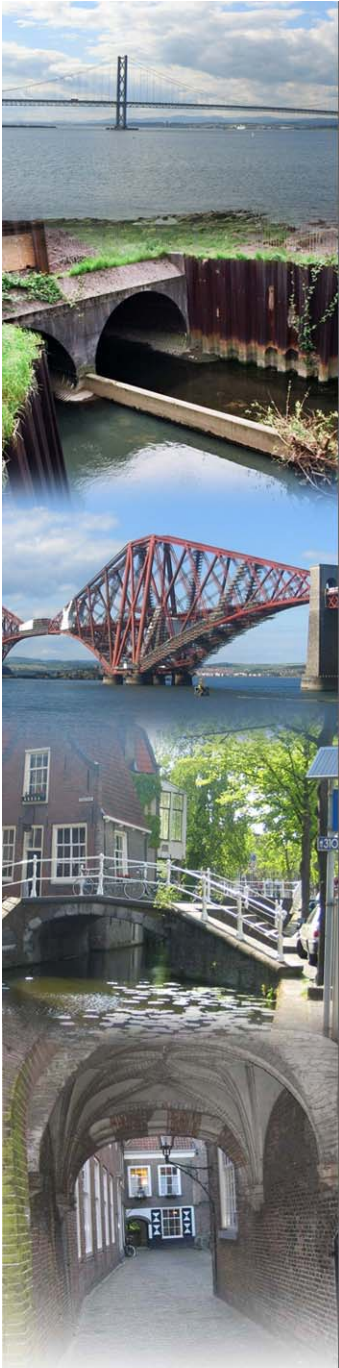
- **Align Goals**
- **Risk Management**
- **Alternative Delivery Methods**
- **Qualifications**
 - Rating Process
 - Procurement Process



Recommendations

- Early Contractor Involvement
- Alternate Bids/Designs
- Contractor Quality Management
- Alternative Contract Payment
- Warranties & Life-Cycle

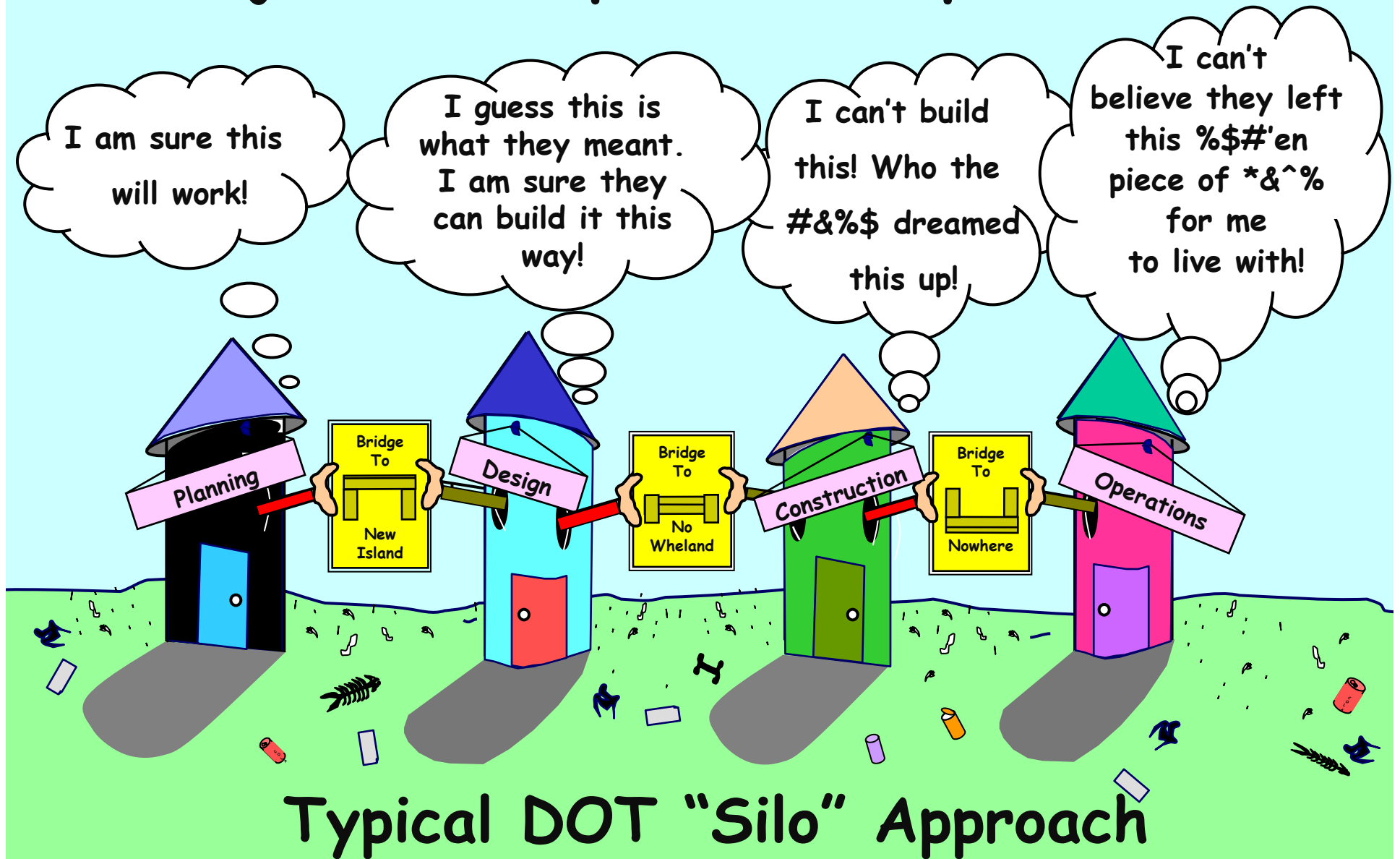
Setting Projects up for Success...

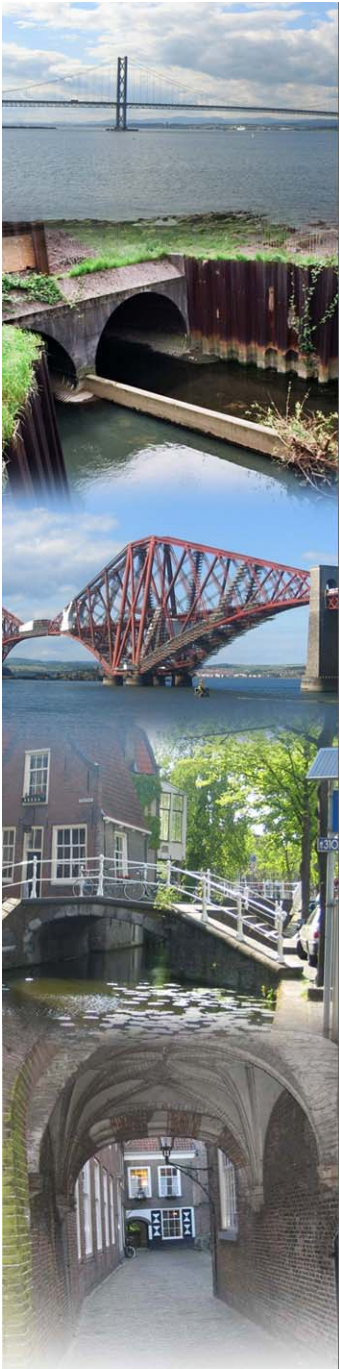


"New" Definition of CM

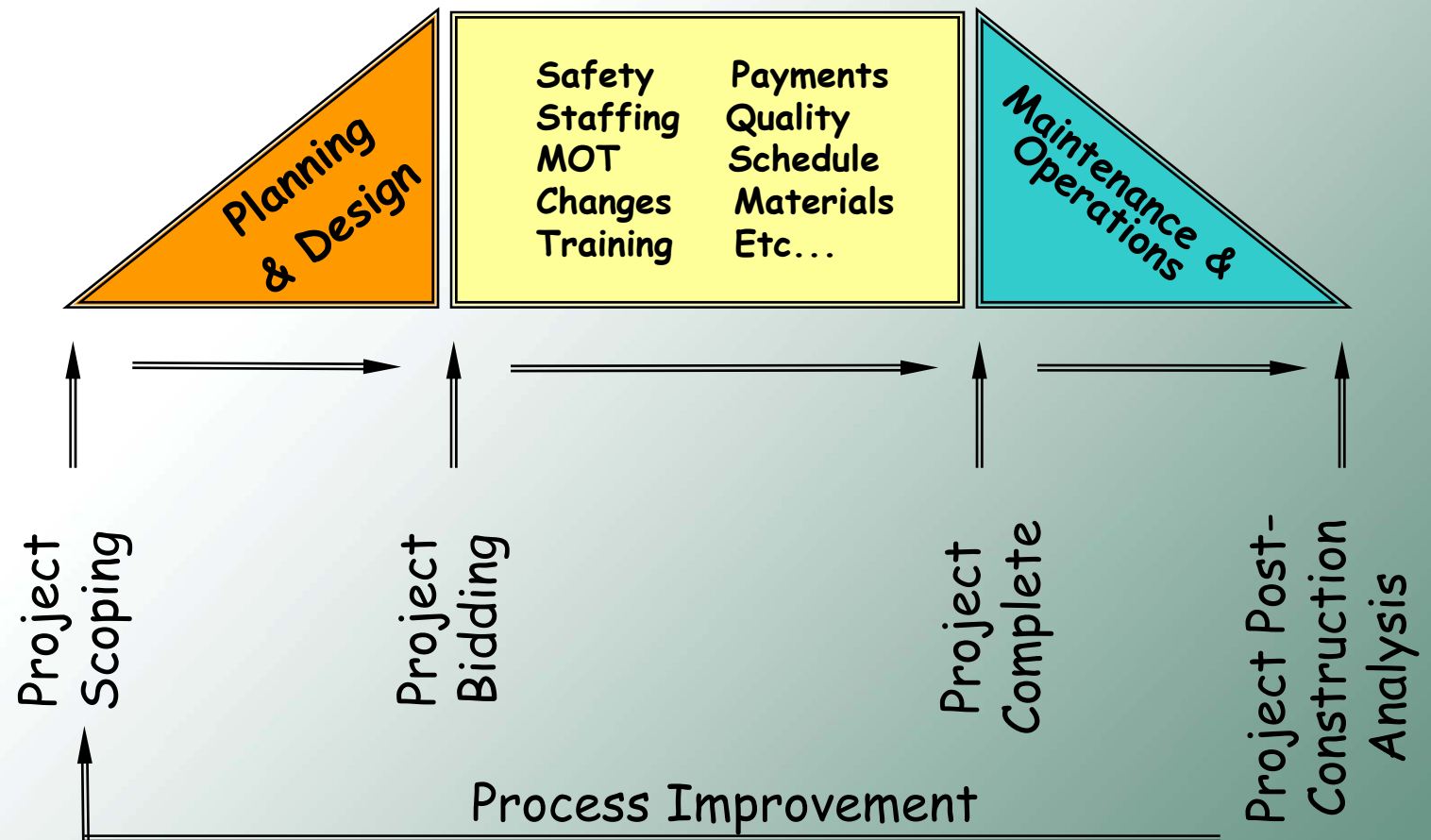
The totality of activities that address the management and technology aspects of highway construction, conducted during the planning, design, construction, and post-construction phases of a project for the purpose of achieving scope, quality level, cost, schedule and other project performance objectives.

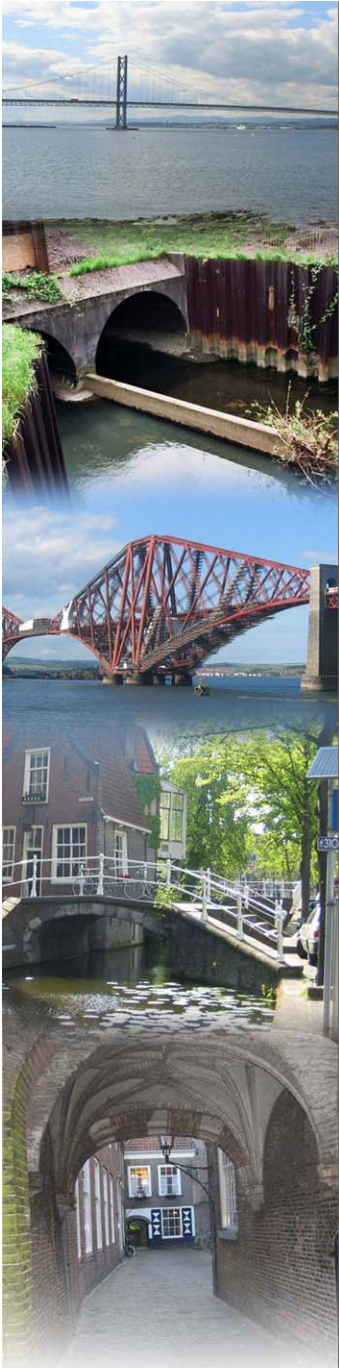
Project Development & Implementation





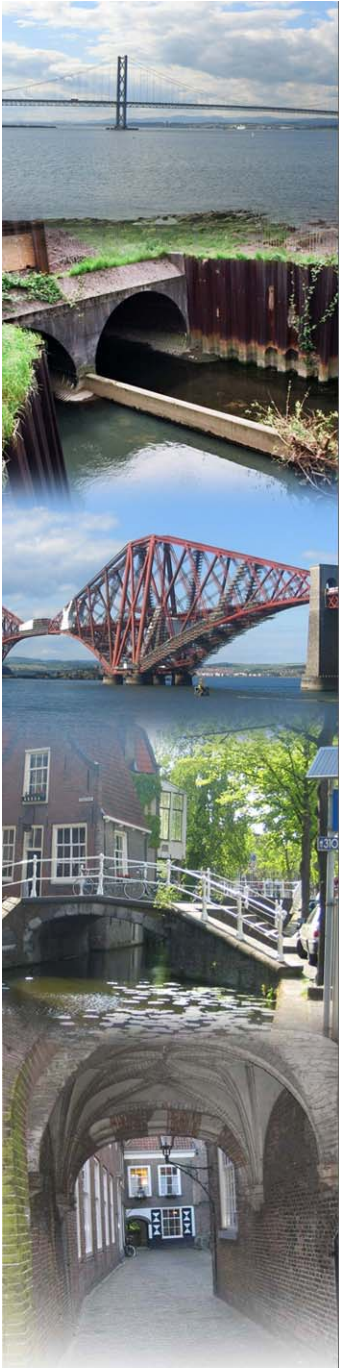
Construction Management Expert Technical Group





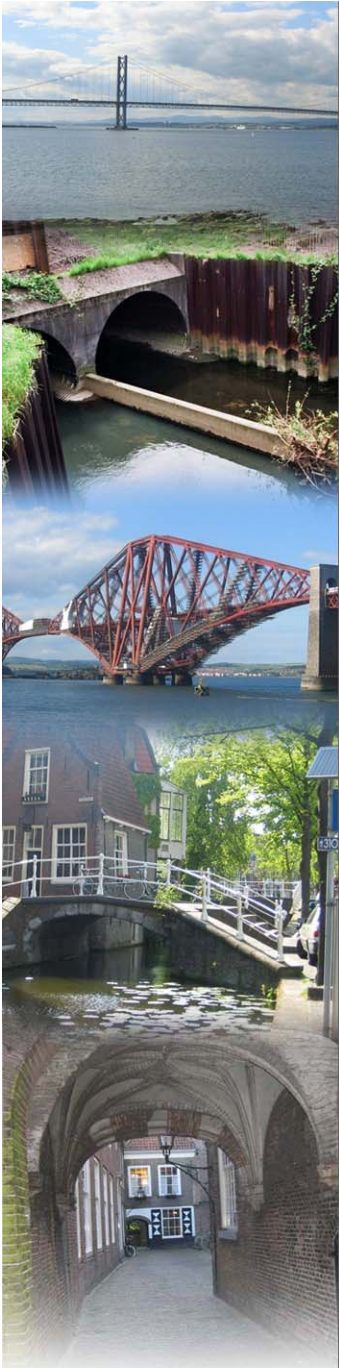
Construction Management ETG Headlines

- Risk Workshop Process
- SHRP II (Rapid Renewal) Risk Workshop
- Quality Systems
- International CM Conference
- Design-Build?



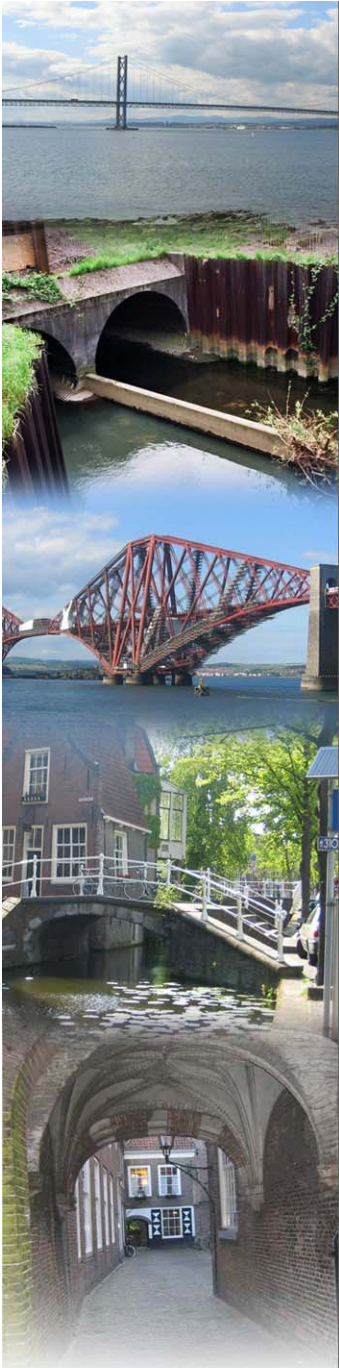
Implementation Tasks

- Scan Report
- ETG
- ETG Tasks
 - Research
 - Reports
 - Training - Workshops, Courses
- International CM Conference
- Continued Evolution...



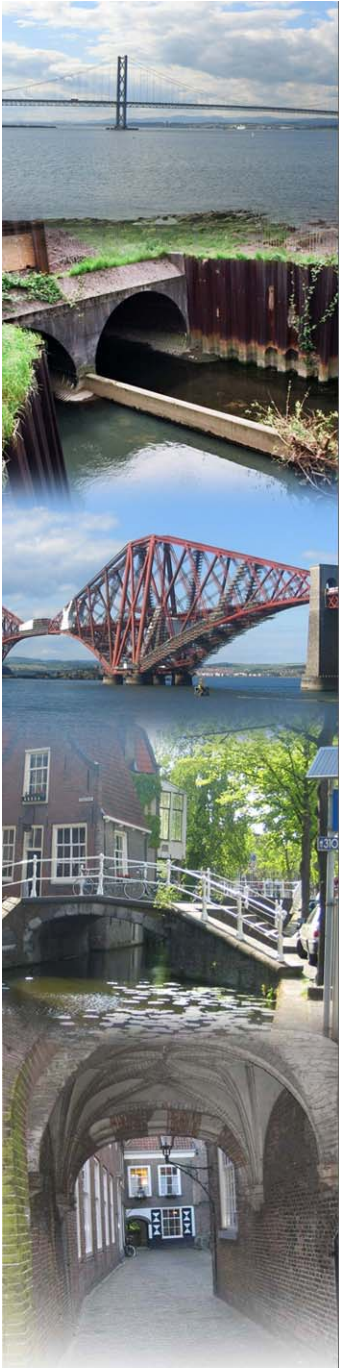
Implementation Tasks

- **Risk Guidelines**
 - Complete
 - Ready for Marketing
- **Alternate Payments Methods**
 - Complete
 - Ready For Marketing



Implementation Tasks

- **Best-Value Procurement**
 - Complete
 - Ready for Implementation
- **Alternate Bidding Practices**
 - Underway
- **Enhanced Prequalification Rating Process**
 - Underway

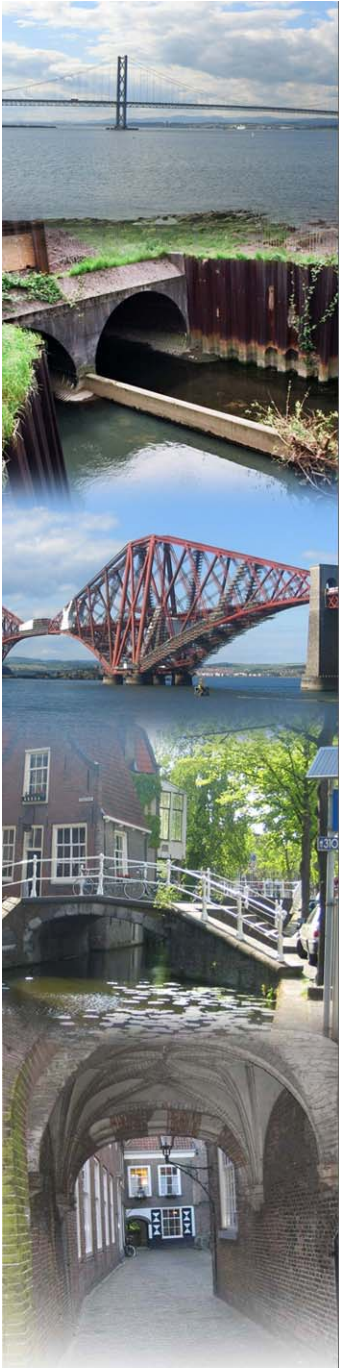


Implementation Tasks

- **Early Contractor Involvement**
 - PPP & Others...
- **Contractor Quality Management**
- **Warranties**
- **Life-Cycle Considerations**

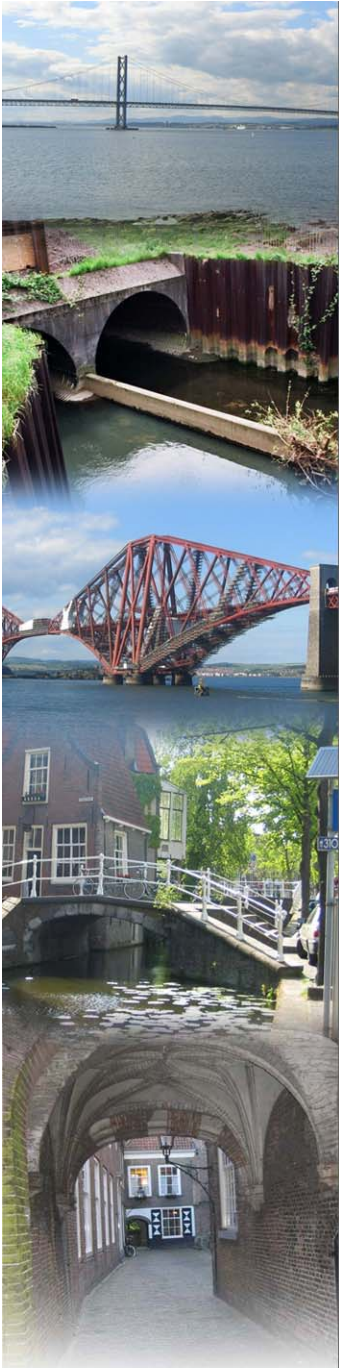
What Else?

- AASHTO Project Delivery Technical Committee
- Cradle to Grave PM?
 - Do We Evolve From CM to True PM?
- Partners
 - PS Workgroup
 - SHRP II Renewal
 - TRB
 - Highways for Life
- PPPs, Toll Road Development, Etc.



Questions?

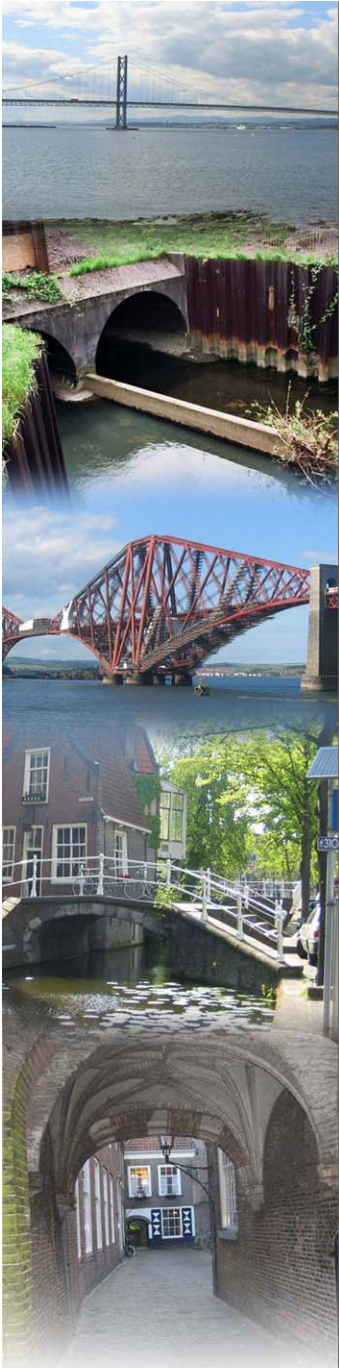




"Old" Definition of Project Delivery

If We Can Get a Project to the Letting We Will be Successful

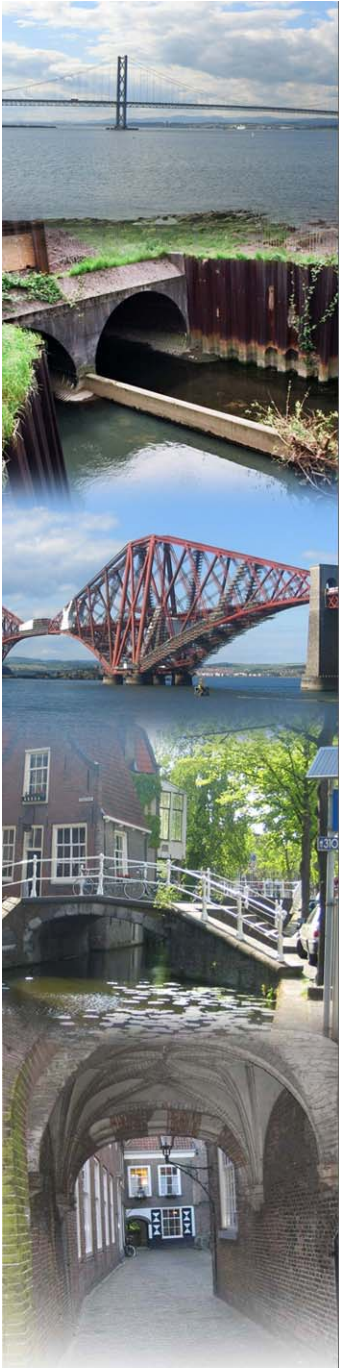
- Immense Pressure to Award Contracts Within a Given Timeline "No Matter What"
- Preconstruction Schedule Delays are Unacceptable
- Do "Whatever it Takes" to Get the Project to Letting



"New" Definition of Project Delivery

If We Can Get a Project Open to the Public We Will be Successful

- A Delayed Letting Does Not Necessarily Mean Delayed Completion
- Delays During Construction are Unacceptable
- Do "Whatever it Takes" During Preconstruction to Ensure We Have Focused on Completion *and Beyond*



"Old" Definition of CM

"Typical DOT Process"

Managing the Physical Construction of a Project After Award of a Contract to Ensure Quality, Safety, Cost, and Schedule Performance Expectations are Met Through Contract Administration Processes.