

A composite image featuring a blue-tinted Chicago skyline in the background and a multi-lane highway in the foreground. The highway has light trails from traffic, suggesting motion. A 30 MPH speed limit sign is visible on the left side of the road. An orange horizontal bar is at the top, and a blue vertical bar is on the right. A large orange semi-transparent rectangle is overlaid on the left side of the highway, containing the text.

Welcome!

We will get started right at 1:00PM



**Illinois Department
of Transportation**

Bridge Bundling DBE Webinar



Thank you for joining us! The meeting will begin shortly.

This meeting will be recorded and available online after the meeting

For Questions

- At the bottom of the window, click **Q&A**.
- When you click on Q&A, a window will appear where you can type a question and see others' questions.
- DOT.InnovativeProjectDelivery@Illinois.gov



The background of the slide is a composite image. The top portion shows a panoramic view of the Chicago skyline under a cloudy, overcast sky. The bottom portion shows a multi-lane highway with a 30 MPH speed limit sign on the left shoulder. An orange horizontal bar is positioned above the main title.

Bridge Bundling DBE Webinar

*More Projects * Faster Investment * Saves Money * Additional DBE Opportunities*

Omer Osman
Holly Bieneman
Neil Adams
Carl Puzey
Earl Harrison

09/08/2021



Illinois Department
of Transportation

Opening Remarks



Omer Osman

- Secretary of Transportation, Illinois Department of Transportation



Agenda



Welcome and Webinar Overview

Illinois Bridge Bundling Overview

Guest Speaker: Previous DBE Experience with Bridge Bundling

Polling Questions

Open Discussion Q&A

Wrap Up and Next Steps

A blue-tinted background image showing the steel truss structure of a bridge, with a road deck visible at the bottom.

The purpose of today's meeting is to introduce IDOT's bridge bundling program, as well as engage with industry to solicit and gather feedback and input on how to best structure the program.

Bureau of Innovative Project Delivery

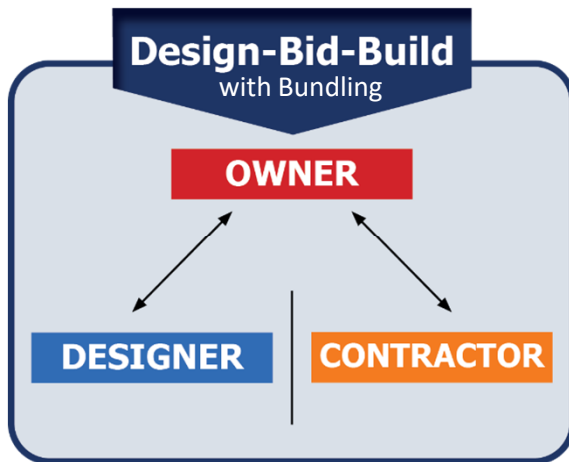


Illinois Department
of Transportation

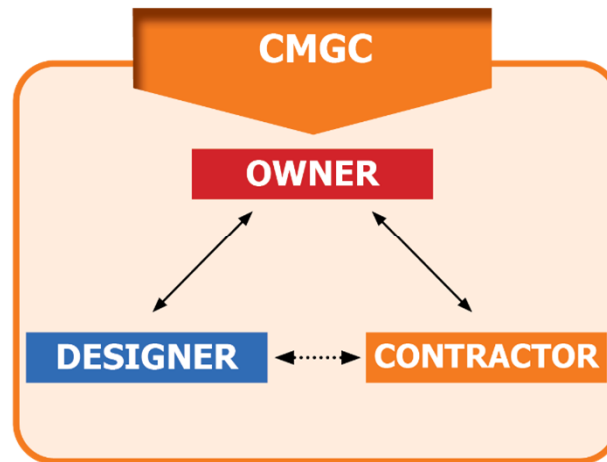
- IDOT continually seeks innovative solutions to meet the growing transportation needs of Illinois.
 - Bureau of Innovative Project Delivery or IPD
 - Established in 2016
 - Identifies, evaluates, and develops projects that may benefit from innovative approaches, including the use of various forms of public-private partnerships (“P3”), and other contracting methods allowable under law.
-



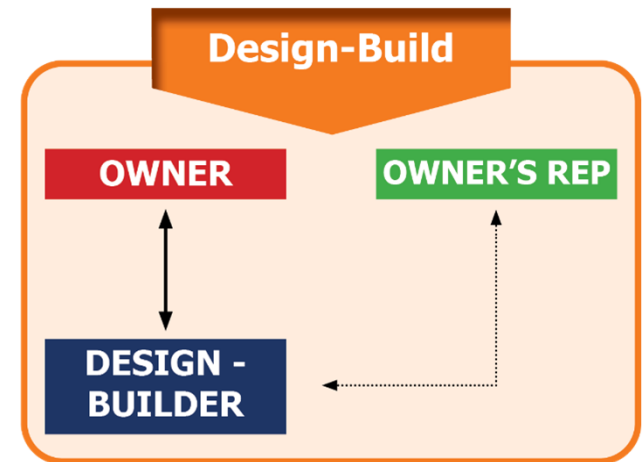
Innovative Delivery Methods



Traditional delivery (design-bid-build) with bundling will **not** require legislation, also reduces time and cost savings, flexibility for DBE innovations



Legislation will be required for **innovative, alternative** delivery options; more opportunities to reduce time and cost savings, flexibility for DBE innovations



TRADITIONAL DELIVERY

INNOVATIVE DELIVERY



Bridge Bundling Feasibility Study - Background



Over 3,400 of IDOT's Bridges (43%) were built over 50 years ago.

- IDOT currently **non-compliant with Federal law** with >10% of National Highway System bridge deck "structurally deficient"
- Increased Rebuild Illinois revenues and traditional delivery approaches **remain insufficient** to meet federal requirements
- **Freight movement is constrained** due to load-posted bridges



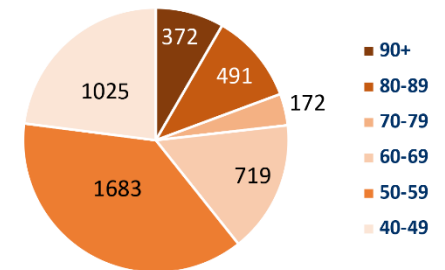
Over 1,000 bridges "load posted" in Illinois



Nearly 2,500 structurally deficient bridges in Illinois

- **13%** of the deck area on structures maintained by IDOT are classified as structurally deficient

of IDOT Maintained Structures over 40 years old



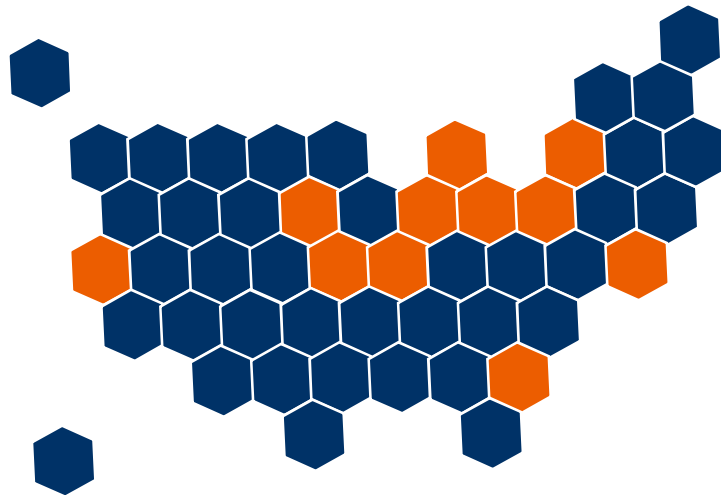
- **43%** of structures maintained by IDOT are over 50 years old
- **7,859** state bridges have an average age of **44**
- **18,972** local bridges have an average age of **41**



Bridge Bundling Feasibility Study - Overview



- Evaluate bundling for state-owned bridges and culverts throughout Illinois to assist IDOT with understanding the benefits and considerations of establishing a bundling demonstration project and ongoing program.



Bundling Works!

Bridge bundling in Illinois could:

- Complete **more projects** in **less time** at **lower costs**
- **Leverage increased revenues** to deliver *more* projects
- Create new, innovative opportunities for **DBE engagement and growth**



How Bundling Works



1



Structures (bridges and culverts) in poor condition are screened to identify and that:

- **Need replacement**
- Technically **straight forward**
- Have **similar replacement structure characteristics** (pier, columns beam, guardrail types)

2



Structures will be prepared for procurements:

- Level of effort by IDOT will **depend on the delivery model selected**:
 - DBB: 100% design
 - CMGC: 1-5% design
 - DB & P3: 35% design to secure permits and estimate costs

3



Bundles could be procured based on:

- **Proximity** of the structure to one another
- **Capacity** of the market to deliver the structures
- **Priorities** based on feedback

4



Selection of Best Proposals:

- Bundles will **depend on structure similarity**
- Goal: **Contractors quickly deliver** multiple projects by **minimizing the number of designs** and **optimizing the ability to apply economies of scale** to efficiently construct all of the structures
- Compared to the traditional delivery (one structure at a time), **lower costs should be realized, and the cost savings should be able to grow overtime** as the process is repeated



Economic Benefits of Bundling



- Increased **investment in disadvantaged communities** and across the state via additional projects
- Improved **safety and connectivity** of the transportation network
- Bundled delivery **reduces costs** due to economies of scale, reducing deferred maintenance, and avoiding cost escalation and inflation; also provides opportunities for reduced staff time
- Delivering bundled structures means **additional projects** can be built *now* through Rebuild Illinois

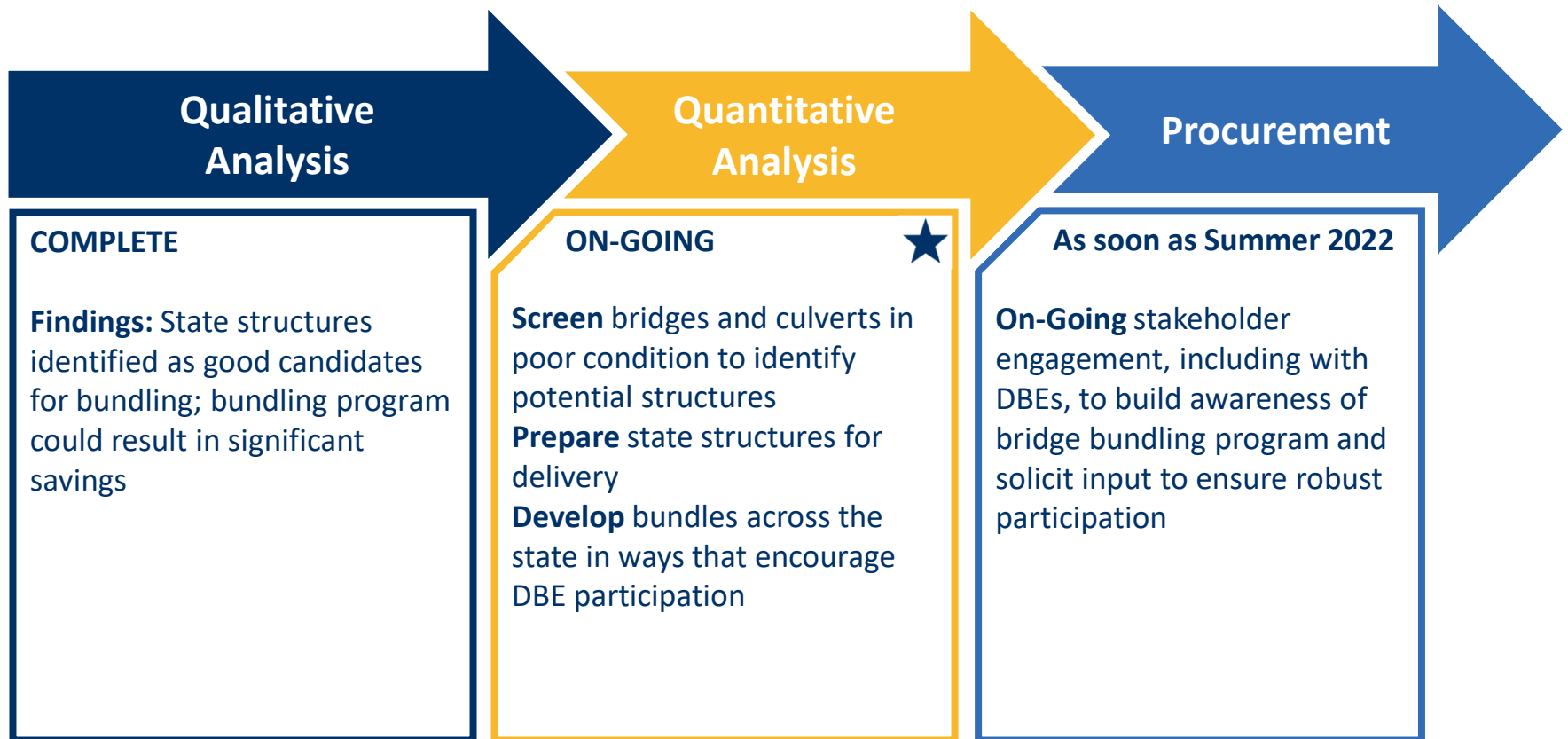


Current pace of bridge construction:

- **Hurts economic activity** by limiting freight movements
- **Inconveniences** the traveling public
- Leads to **increased costs** from deferred maintenance and inflation



Timeline





Bridge Bundling Program Goals



- Create new opportunities and work experiences for **DBEs to grow and thrive**
 - Improve the **safety** of the traveling public
 - Improve **condition** of the overall bridge inventory
 - **Expedite** the delivery of bridges and culverts
 - Ensure **financial stewardship** of public funds
 - Improve the **connectivity** of the transportation network
-

Guest Speaker:

Earl Harrison

- President and Owner of Hg Consult, Inc.
- 27 yrs. Industry Experience
- Founded Hg Consult, Inc (2010)



Hg Consult, Inc Overview



Clients

- Missouri Department of Transportation (MoDOT)
- Kansas Department of Transportation (KDOT)
- Other Consultant Firms

Bridge Types

- Rural
 - Off-System
 - Simple Stream Crossings
 - Rehabilitation or Re-deck Design
-

Hg Consult, Inc Pros/Cons



Pros

- Streamlined Proposal/Selection Process
- Combined Meetings and Field Checks
- Design & Plan Production Efficiencies
- Multiple Bridges = More Backlog (Sustained Staff Levels)

Cons

- Design Complacency (QA/QC)
- Overcome Capacity Perception (Teaming)

"Be Honest & Confident about your Capabilities and take a chance"

Bridge Bundling and DBE Engagement



IDOT Focus Areas:

- Determine the key factors for successful bundling program by soliciting perspective from DBE community
- Evaluate challenges currently being faced by DBEs
- Explore new opportunities/ programs for DBEs via future potential bundling program

*Program Goal:
Create new opportunities and work experiences for DBEs to grow and thrive.*

Bridge Bundling and DBE Engagement

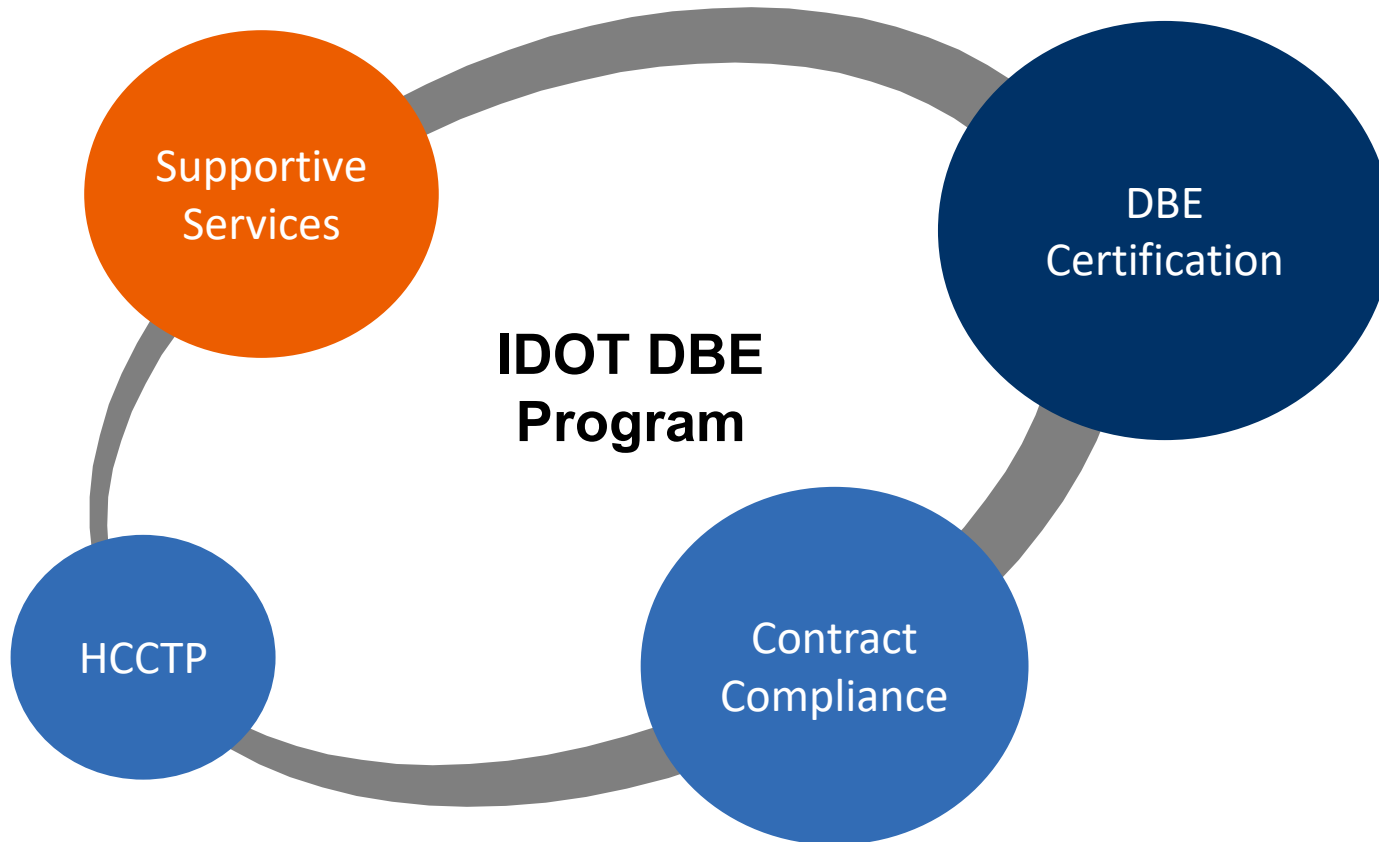


Objectives of DBE Outreach and Programmatic Opportunities Under Consideration, subject to FHWA Review and Approval

- Overall: Connect early, often with DBE regarding potential programs
 - Coordinate DBE procedures to bundling processes
 - Potential for streamlined requirements
 - Increased opportunities for DBEs to be a part of the process
 - Increased interaction between DBEs and Prime Firms
 - Mentorship opportunities
 - Project Scoring
 - Targeted DBE participation goals
-



Small Business Enterprise





Bureau Processes



Certification

- Process Cert Apps
- On-site Interviews
- Work Cat. Expansions
- IL UCP Directory
- Follow Up Monitoring
- State & Fed Reporting

Supportive Services

- DBE Assistance
- Certification Assistance
- One-on-One Consultations
- Workshops / Annual Conference
- Reimbursement Program
- Business Development Program
- Networking / Outreach

Compliance

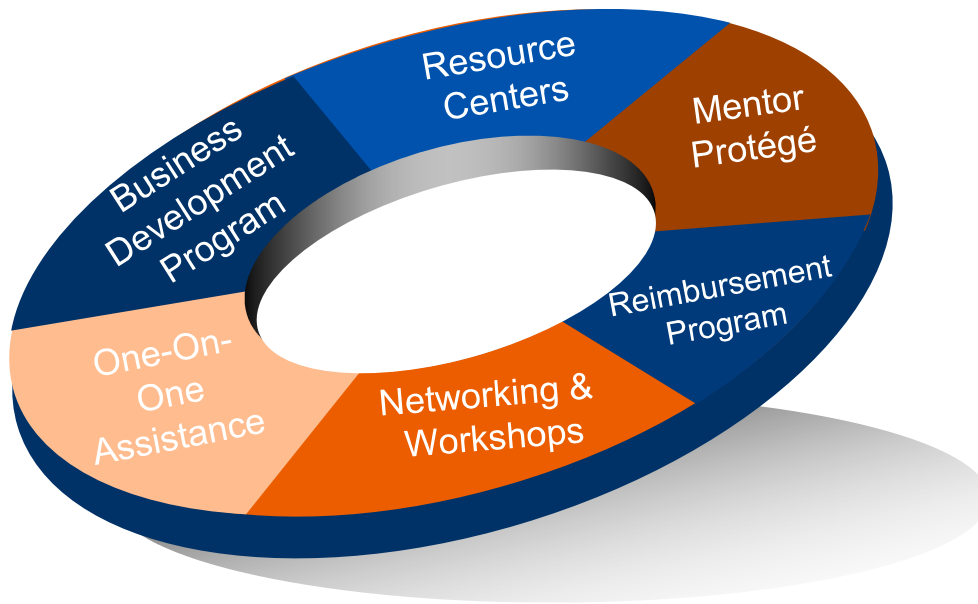
- U-Plan Review
- Contract Goal Review
- Goal Modifications
- Labor Field Reviews
- Track final payments
- Reconsideration Hearing



DBE Supportive Services



10 Resource Centers Statewide: Equipped with computer, Wi-Fi, printer/scanner.



OFFICE OF BUSINESS & WORKFORCE DIVERSITY

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Polling Questions



Now we will now ask a series of polling questions. Responses to these polling questions will assist IDOT with further developing the Bridge Bundling Program.

Chat Function:

- When you click on chat, a window will appear where you can also type responses to the polling questions. Responses will remain anonymous. A member of the project team will be reviewing your responses in the chat.



Polling Question #1



What elements tied to prequalification/ certifications are barriers to participation?

**Please respond using
the chat**

Polling Question #2



Are there other constraints related to financial capacity, bonding, or insurance, that may constrain your ability to participate in a bundling project?

**Please respond using
the chat**

Polling Question #3



What types of incentives/programs would assist with DBE participation?

**Please respond using
the chat**



Open Discussion Q&A



Questions?

- Overall bridge bundling effort? Feedback on DBE webinar and engagement?
- For additional feedback or thoughts please feel out the online survey before September 22nd. You can find the survey at:
- IDOT.Illinois.gov -> Doing Business -> Innovative Project Delivery or by using the following [link](#).

Next Steps



Next Steps

- Compile Results from Industry and DBE Webinars
 - Industry/DBE Survey (available until 09/22/21)
 - Risk Assessment
 - Identify Bundle Structures
 - Recommend Optimal Delivery Approach
-



Thank You

For more information and for our survey please see the
[IDOT Bureau of Innovative Project Delivery Webpage](#) or email the program team at:
DOT.InnovativeProjectDelivery@Illinois.gov



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MPH