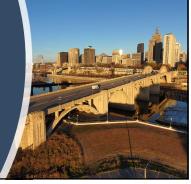




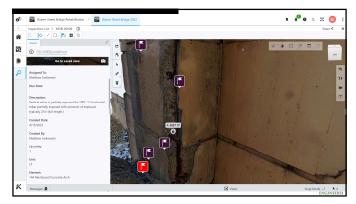
Robert Street Bridge Management Digital Twin Workflow

- UAS Field Data Capture
 Digital Twin Creation
- 3. Office Pre-Inspection
- 4. Field Inspection
- 5. Rehabilitation Design and Plans
- 6. Construction



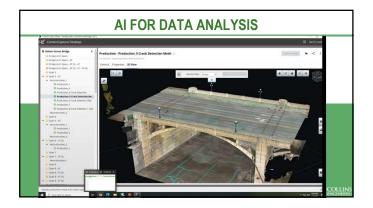


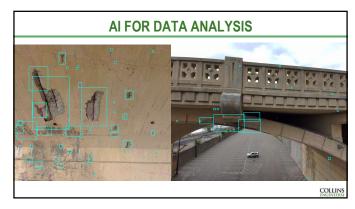








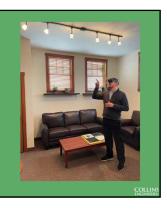






INDUSTRY IMPLICATIONS

- · Poised for a monumental shift in project workflows
- Data is king
- Engineer/Inspector qualifications changing
- · Embrace robotics, AI and machine learning
- · Be willing to abandon traditional methods
- · AI and automation will change work categories
- Use AI to address staffing shortages





Marc Parker, P.E. mparker@collinsengr.com

COLLINS ENGINEERS²