

Building Information Modeling for Infrastructure (BIM4I)

United Contractors
Public Works Summit

May 28, 2026





Building Information Modeling for Infrastructure (BIM4I) Program



Agenda

1 What is BIM4I?

2 Goals & Vision

3 Benefits

4 Status



What is BIM4I?

3D Model-based digital data and information

- 3D representation of the project
 - ❖ Geospatially referenced
 - ❖ Construction information
- Collaboration – internal and external
- Digital information

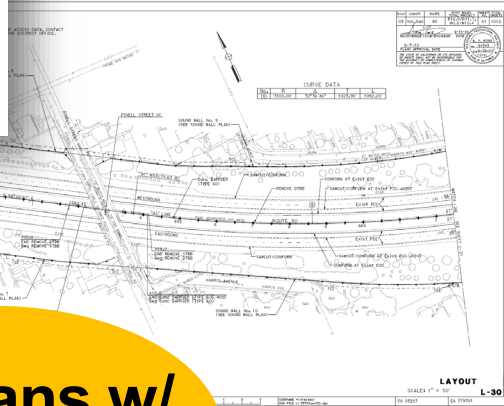


Transition Goal

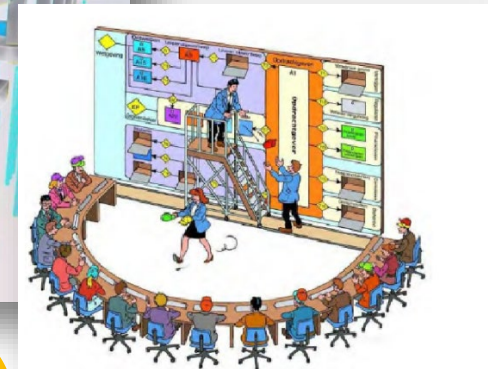
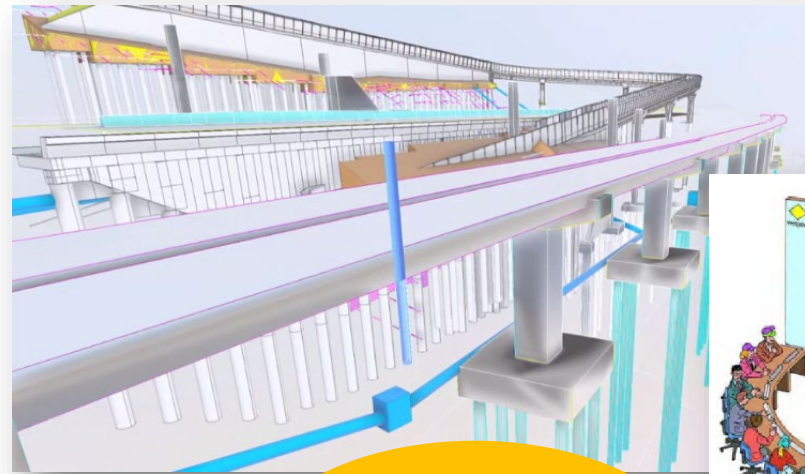
Replace this siloed approach:



With this collaborative work method:



**2D plans w/
limited data**



**3D models
w/ attributes**

BIM4I Lifecycle Vision

Asset Performance Management



Enterprise Asset Information

Maintenance & Operations



Planning



Digital Project Delivery



Design

Construction



Benefits of BIM4I

Improves Collaboration & Engagement

- 3D model visualization
- Information easily accessible & reliable

Cost Savings

- Streamline processes
- Better decision making
- Reduced rework, errors, and changes
- Mitigate risks

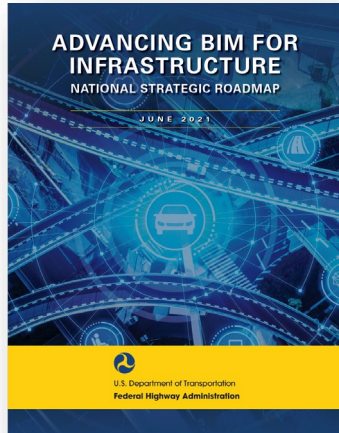
Improves Safety



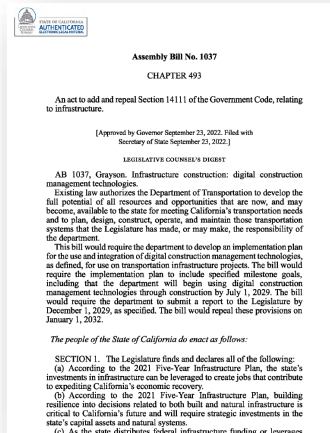
Benefits for Contractors

- Improve cost estimating
- Improve communication with all parties
- Improve planning and site logistics
 - Develop reliable project schedules & sequencing before on-site mobilization
 - Visualize crane reach, swing radiuses, and haul routes
- Improve safety

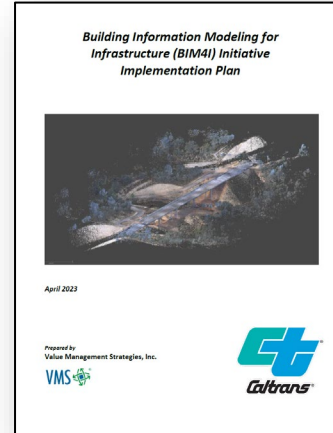
Implementation



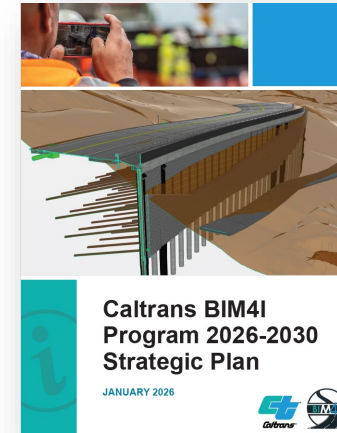
FHWA, "[Advancing BIM for Infrastructure: National Strategic Roadmap](#)"
June 2021



[Assembly Bill 1037](#)
Filed September 2022



[Implementation Plan](#)
April 2023



[Strategic Plan](#)
Jan. 2026



Implementation Plan Update
Fall 2026

Pilot Projects

13 Active Pilot Projects

- 5 projects in construction phase
- 1 Model as a Legal Document
 - 11-43088

Complex Bridge Projects (Limited BIM)

- Stockton Channel Viaduct
- Last Chance Grade
- Whiskey Creek Bridge



Timeline

Phased approach, moving from initial pilot projects to broader implementation

BIM4I Implementation Timeline

An approximate timeline of the phased approach to BIM4I, moving from initial pilot projects to broader implementation



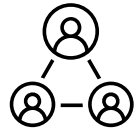
Opportunities to Engage

- Annual BIM4I Summit (in-person)
 - April 6 & 7, 2027
- Caltrans & Industry Workgroup (virtual)
 - Comprised of 17 contractors
- Caltrans & Industry Forum (virtual)
 - Open to any contractors, DOTs, and FHWA
 - Inaugural meeting on Jun 17, 2026, 1:30pm-3pm
 - Contact bim4i@dot.ca.gov



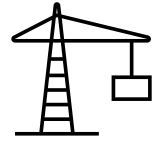
BIM4I: Connecting People, Workflows, Data, and Outcomes

- Better Collaboration & Communication
- Improve Decision-Making



People

- Less Rework
- Mitigate Risks
- Synchronize Workflow with a Common Data Environment



Workflows

- Utilize Lifecycle Digital Information
- Better Asset Performance
- No Reinventing the Wheel for Each Project



Data

- Improve Efficiency
- Less Change Orders
- Improve Safety



Outcomes

BIM4I



Thank you!

Contact Information

Amy Fong, amy.fong@dot.ca.gov
BIM4I Delivery & Guidance Manager
Division of Project Management

<https://dot.ca.gov/programs/bim4i>

BIM4I Program Vision: Leading digital innovation by integrating BIM4I into Caltrans project delivery and asset lifecycle management practices.

