



American Road
& Transportation
Builders Association

Digital Construction Update

October 8, 2025

About ARTBA

American Road & Transportation Builders Association

- ARTBA brings together all facets of the transportation construction industry to responsibly advocate for infrastructure investment and policy that meet the nation's need for the safe and efficient movement of people and goods.
- Over 8,000 members across 8 membership divisions:
 - Contractors
 - Planning & Design
 - Traffic Safety
 - Transportation Officials
 - Research & Education
 - Materials & Services
 - Equipment Manufacturers
 - P3
- ARTBA also provides value-added programs and services that create an environment where our members thrive in a competitive world.

Innovation & Technology Forum

- Established in September 2020 after ARTBA's Strategic Plan was implemented.
- Includes ARTBA members from all Divisions.
- ARTBA's Policy Forums bring together transportation construction professionals from all eight ARTBA membership divisions to develop consensus policies, white papers, or best practices on emerging industry issues.

Digital Construction was the first initiative of the Innovation & Technology Forum.

Digital Construction Policy Statement

(Approved by ARTBA Board in May 2021)

Digital Construction is defined as commercially proven digital technologies and processes for management of construction and engineering activities, including systems for infrastructure project procurement, planning and coordination, construction, digital as-builts, e-Ticketing, operations and maintenance, modernization and management, asset management systems for machines, site equipment, and personnel.

Digital construction technologies will provide mechanisms and processes to decrease and more properly allocate project risk, reduce schedule uncertainty, increase productivity and efficiency, lower cost, and deliver safer, higher quality, and environmentally sustainable infrastructure projects.



Accelerating Digital Construction

- In 2023, the Forum created a paper on “Accelerating Digital Construction for Transportation Projects: Recommendations and Root Issues”
- Key Takeaways:
 - ▣ Outlines ideas to use funding to leverage technologies and programs.
 - ▣ Details how contractors must be able to rely on digital files to realize the benefits, and the importance of data standardization.
 - ▣ Promotes open data standards and Model As the Legal Document.

ARTBA Reauthorization Recommendations

- ARTBA's recommendations for the next surface transportation bill adopted in May include a section on "Accelerating Adoption of Digital Construction (page 17).
- Recommendations include:
 - ▣ Increased funding across surface transportation programs, including Advanced Digital Construction Management Systems (ADCMS) grants.
 - ▣ Creation of a parallel program to ADCMS that incentivizes state deployment in other areas including work zone safety.
 - ▣ Enabling lifecycle digital workflows.

