

Transportation Pooled Fund Study TPF-5 (480): BIM for Infrastructure Update

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Outline

- ◀ Project status
- ◀ Upcoming Stakeholder Engagement Opportunities
- ◀ Spotlight: BIM Clearinghouse





Project Status Update

IDM and IDS Timeline

July 2024 – July 2025:
Process Design and
Data Dictionary

- Detailed Process Models
- Roads Data Dictionary for Design-Construction Exchange

July 2025 – July 2026:
Information Delivery
Manuals (IDM)

- Process Models & Data Dictionary for DABs
- Draft IDMs: DC, DAB
- IDM Review by BIM TPF States

July 2025 – Nov. 2026:
Information Delivery
Specifications (IDS)

- D-C IDS Development
- DABs IDS Development
- IDS Testing with BIM Prototype Models and Select Tools

July 2026 – July 2027:
AASHTO Review of IDM
and BIM TPF Updates

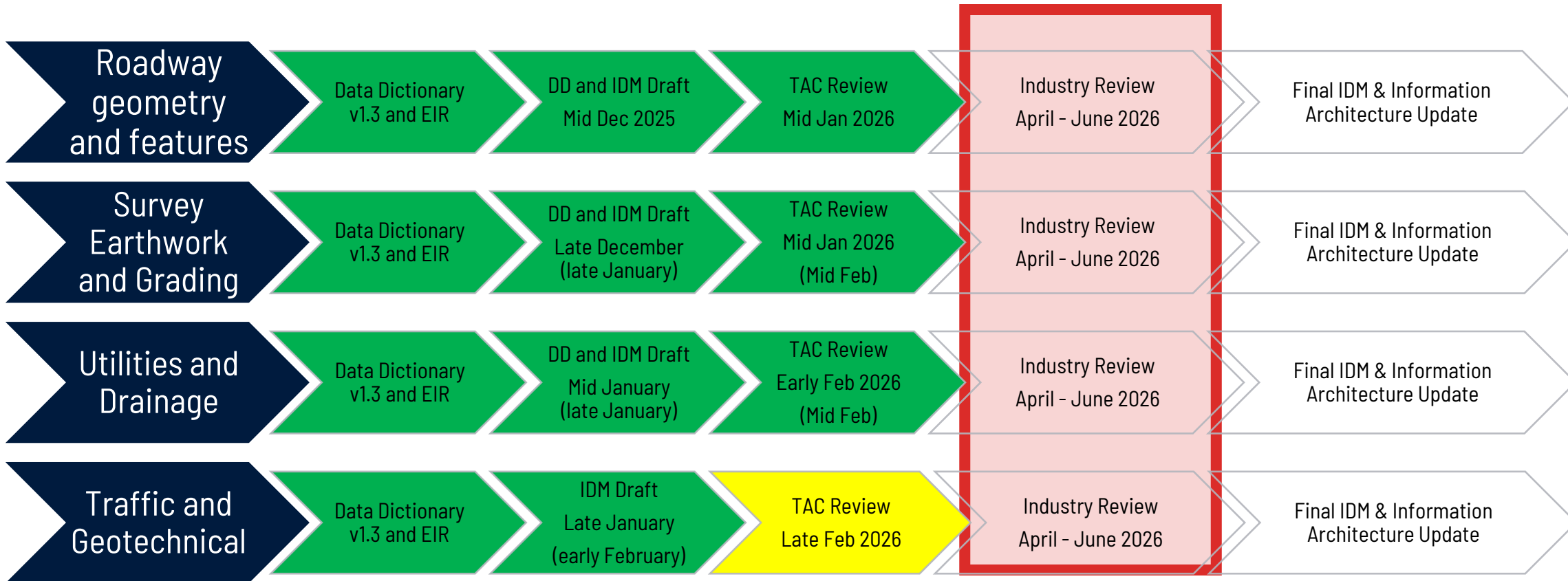
- D-C IDM Review by AASHTO
- DABs IDM Review by AASHTO
- BIM TPF Updates & Publication

Work
Area A
Team

Work
Area B
Team

Work
Area
C&D
Team

IDM D-C Review Schedule



Draft D-C IDM is in the Works (Outline below)

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Example Section -- Corridors

- ▶ **Overview¶**
- **Information Requirements¶**
- ▶ Preconditions¶
- Corridor-Parent-Class-Properties:¶
- ▶ Property-Group: Corridor-Information¶
- ▶ Property-Group: Corridor-Stations¶
- Property-Group: Corridor-Width¶
- ▶ Property-Name: Total-Width-of-Roadway¶
- ▶ Property-Name: Out-to-Out-Width¶
- ▶ Property-Name: Limits-of-Construction¶
- ▶ Property-Name: ROW-to-ROW-Width¶
- ▶ Property-Name: Clear-Zone-Width¶
- Property-Group: Super-Elevation-Controls¶
- ▶ Property-Name: Point-of-Rotation-to-Right-Edge-of-Roadway¶
- ▶ Property-Name: Left-Edge-of-Roadway-to-Point-of-Rotation¶
- ▶ Property-Name: Point-of-Rotation-(POR)-to-Horizontal-Control-Line-(HCL)¶
- ▶ Property-Name: Left-Edge-of-Roadway-to-Theoretical-Grade-Line-(TGL)¶
- ▶ Property-Name: Theoretical-Grade-Line-(TGL)-to-Right-Edge-of-Roadway¶
- ▶ Child-Class: Lane-Properties¶
- ▶ Child-Class: Shoulder-Properties¶



Upcoming DDSG Engagement Opportunities



Lifecycle of TPF Open Process and Data Standard Products

Current and Near-Term Process



DDSG Engagement Needs

◁ Why?

- TPF work products pertain to data needs of many stakeholders

◁ What?

- Streamlined coordination and engagement with industry via the DDSG

◁ How?

- 3 steps involved...

1

Establish Representation

2

Input on Products

3

Awareness and Adoption

Stakeholders and Products

Product	Primary Stakeholders	Typical Use / Interest
Exchange Information Requirements (EIR)	DOTs / Owners / Consultants	Establish information expectations
Data Dictionary	All (Spec writers, Vendors)	Common attributes and definitions
Information Delivery Manual	Designers / Contractors	Workflow & process flows
Information Delivery Specifications	Software Vendors / Tool Developers	Exchange schema testing



BIM Clearinghouse: Website and Knowledge Platform

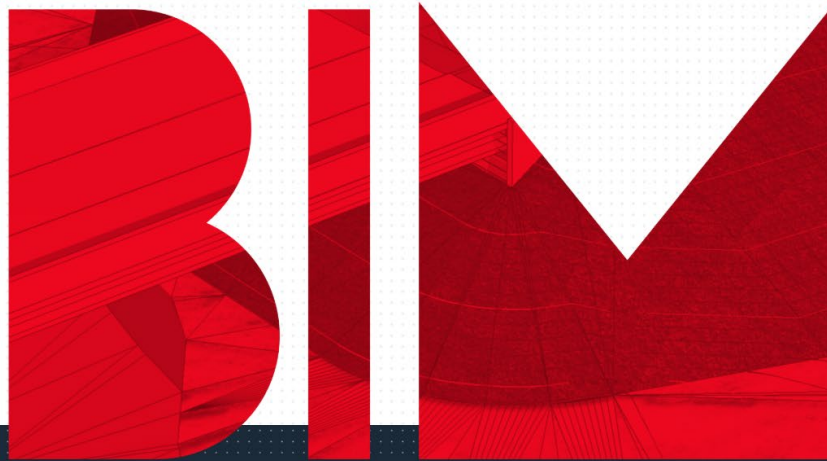
Educational Materials



BIM TPF Explained ▾

BIM Clearinghouse

BIM Resources ▾



**BUILDING
INFORMATION
MODELING
(BIM)**

_FOR INFRASTRUCTURE

Project Deliverables & Status

- Technical guidance/state-of-the-practice on applying open BIM standards
- Project progress reports

AI-enabled Knowledge Platform

- AI-enabled chatbot built on curated content to authoritatively support user queries

Practitioner Products

- Project roadmap
- BIM videos
- Glossary
- Guidebook (to be published)
- Events



<https://bimclearinghouse.com/>

Q&A / Open Discussion