

# BIM FOR BRIDGES AND STRUCTURES

TPF-5(372)

## ROADMAP

### BACKGROUND

The desired outcome of the work under the TPF-5(372) Project is to establish a standard for bridge semantic and geometric information that is common in the United States, which is a continuation of a previous effort known as the IFC Bridge project to create international standards. The resulting products from the TPF-5(372) may be used by States as a baseline for future projects to further refine standards at the local level. The work under this project will be conducted in a series of activities in a five-year timeline to accomplish four major goals:

#### OUTCOME 1:

Development of Information Delivery Manual (IDM)

#### OUTCOME 2:

Creation of Model View Definition (MVD)

#### OUTCOME 3:

Development of Software Certification Materials

#### OUTCOME 4:

Deployment of Stakeholder Training

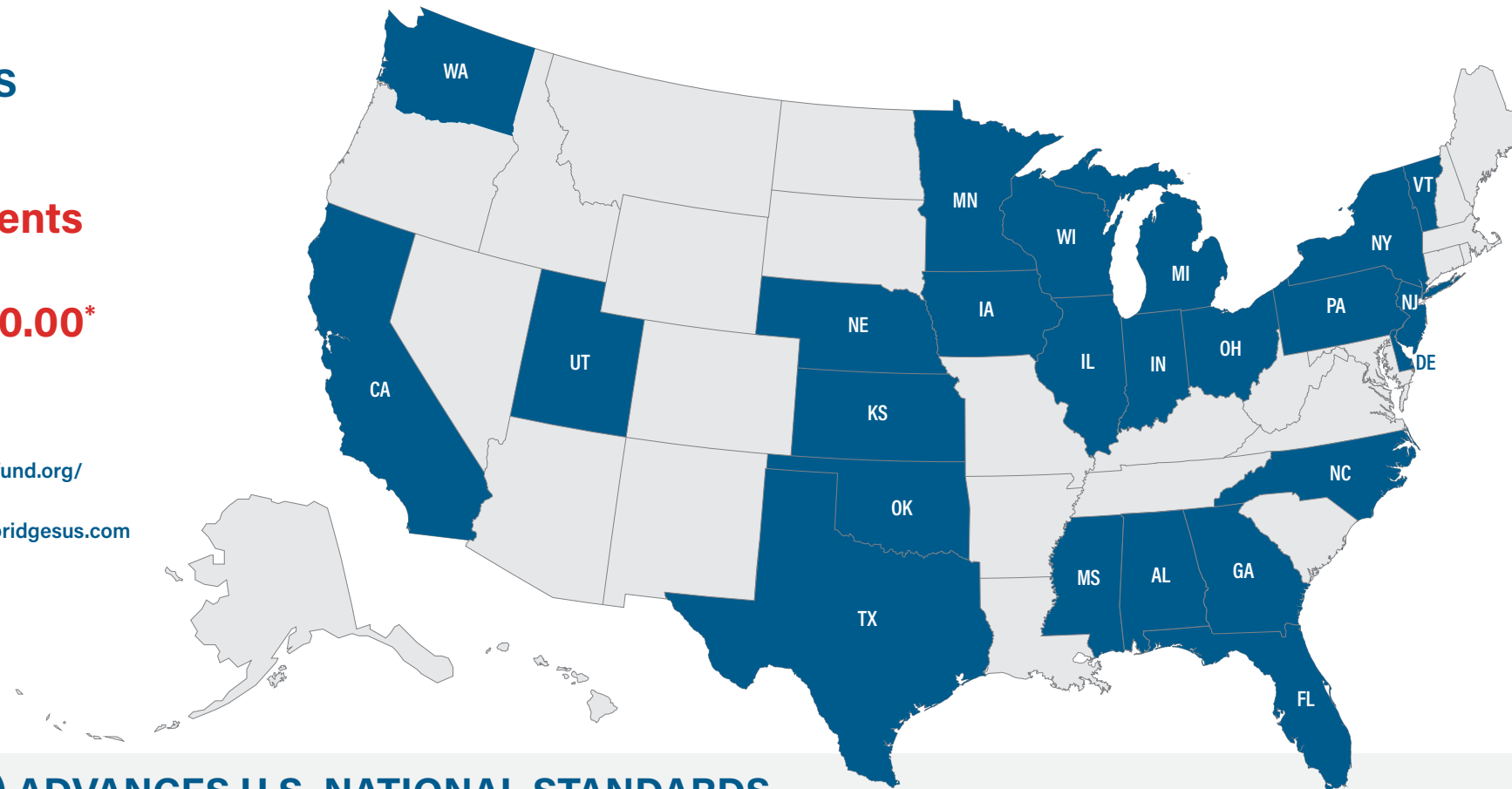
### PROJECT SPONSORS

**Total Commitments Received:**  
**\$2,545,000.00\***

\*As of January 2023

<https://www.pooledfund.org/Details/Study/624>

<https://www.bimforbridgesus.com>

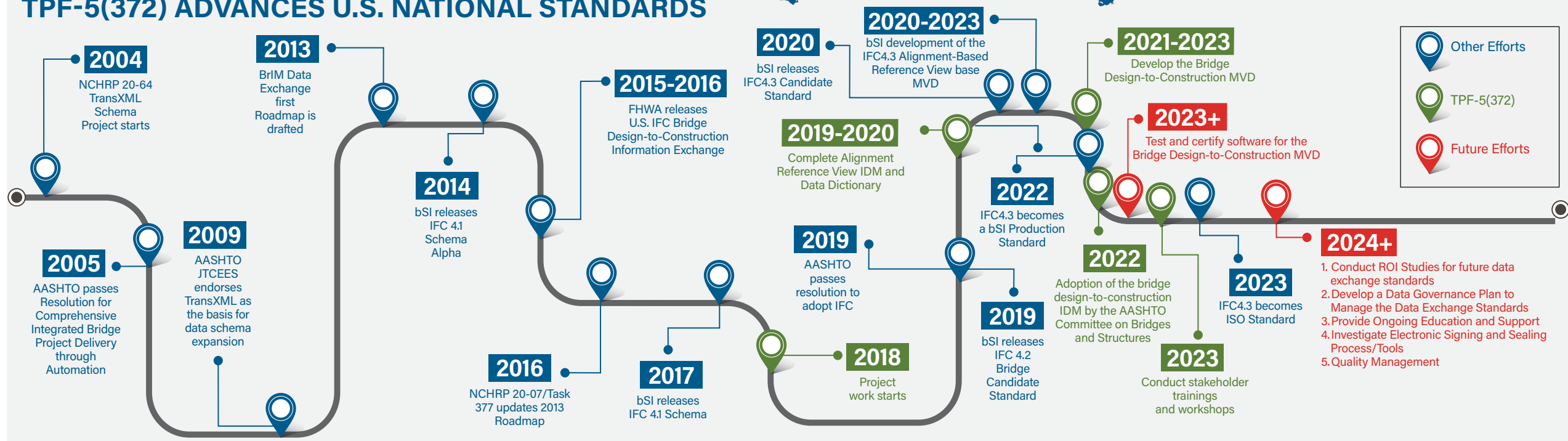


**24 PARTICIPATING STATES PLUS FHWA\***

### Potential AASHTO Publications

- BIM for Bridges IDM
- BIM for Bridges MVD
- BIM Guide for MVD certification

### TPF-5(372) ADVANCES U.S. NATIONAL STANDARDS



#### Key Activities to Create IDM

- Validate FHWA Bridge Lifecycle Process Map
- Develop IDM
- Evaluate current data dictionary
- Develop engagement plan

#### Key Activities to Create MVD

- Research common terms for bridge taxonomy for naming elements
- Evaluate proposed data structure and LOD requirements
- Generate exchange requirements

#### Key Activities to Test Software

- Create a software vendor engagement plan
- Create manuals and guidance documents to support software vendors in the initial certification process

#### Key Activities for Stakeholder Involvement

- Create product-specific BIM Guides on how to use the standards
- Conduct an ROI study
- Host seminars, conferences, and workshops to educate on the standards
- Develop a collaboration forum to gather feedback on standards

Year 1

Year 2

Year 3

Year 4

Year 5