

# U.S. NATIONAL BUILDING INFORMATION MANAGEMENT PROGRAM






## Objective

The National Institute of Building Sciences (NIBS) is leading the development and dissemination of the next-generation of practice standards and processes for the built environment. The U.S. National Building Information Management Program will provide a step-change in capacity, creating a platform and community to support for digital innovation.

## Why Does The U.S. Need a National BIM Program?

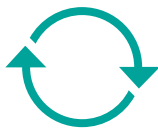
Building information modeling is now a widely used technology providing a data foundation for increasingly digitized processes, yet practices and procedures across the architecture/engineering/construction/operation (AECO) marketplace operate under no common standards for data formats. This program offers the opportunity to improve the relationships, performance and profitability of the increasingly digitized U.S. AECO industry.

Demand for construction is expected to increase to address these challenges and opportunities:

-  The public sector requires **\$2 trillion** in infrastructure investment, which is being funded in part by the Infrastructure Investment and Jobs Act.
-  Schools need upgrading to provide better and safer learning environments.
-  Coastal communities require building and infrastructure adaptation to cope with rising sea levels and climate change.
-  New energy infrastructure is needed to transition to carbon-free power sources.
-  New data centers and labs are required to support innovation and enhance growth and competitiveness.

Effective digital processes supported by common ways of working based on open standards are key to cost effectively realizing these benefits.

## Critical outcomes of the program:



**Allow owners to build and renovate more buildings, bridges and roads with less money** by enhancing the efficiency of design, construction and asset operation.



**Accelerate delivery, manage costs, and increase sustainability** through information standards and protocols shared across the supply chain.



**Build on U.S. leadership** in AECO technology development to enable the next generation of building technology.



**Strengthen U.S. industry access to global markets** with U.S. standards compatible with worldwide programs.



**Integrate buildings, lifelines and infrastructure** for seamless management of the built environment to improve safety, security, resilience and sustainability.



**Expand innovation** in the development of new digital solutions and practices throughout the AECO industry.

[usbimprogram.nibs.org](https://usbimprogram.nibs.org)

What are the top drivers for a National BIM Program?

**13-21%**

savings via increased efficiencies in design and construction assembly in the next 10 years (Boston Consulting Group)

**60%**

long-term increased construction productivity through design-to-manufacturing processes supported by digital information (McKinsey)

**100%**

increase in profits for AECO players (McKinsey)

**15%**

public construction cost savings (UK Government Construction Strategy)

**41%**

of the U.S. labor force will retire by 2031, diversify through industrialized construction processes driven by digital automation (McKinsey)



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## Who is involved

NIBS is leading a consortium of industry representatives from design, construction, manufacturing, technology and asset operation sectors to develop a standard that reflects both domestic current best practice, international process standards and the evolution of future digital practices.

“If we work together, we can develop the people, processes, and technology solutions that benefit asset owners and digitally transform our construction industry.” - Salla Eckhardt, Director of Digital Building Lifecycle and Innovation, Microsoft; Chair, U.S. BIM Program Steering Committee

## Organizations Participating in NIBS BIM Council and National BIM Program Steering Committee

## Where are we today - current activity

- 1 Steering committee of prominent public and private sector owners, designers, and constructors of buildings and infrastructure meeting regularly guiding the effort.
- 2 National BIM Program 5-Year Plan and Roadmap addresses standards, outreach, education, implementation, legal and education development.
- 3 Working with government and private sector owners, AEC practitioners, technology companies and industry organizations to build support and attract funding.
- 4 Continuing to progress on the National BIM Standard-US 4.0, aimed at providing direct benefits to owners is being made while adoption of ISO 19650 Organization and digitization of information about buildings and civil engineering works, including building information modeling begins.



Get Involved. Get Engaged. Get Connected.

To learn more, visit [NIBS BIM Program site](#) and sign up to receive the latest updates or email [NIBS BIM Program](#) to become a supporter.