

**AMENDMENT TO THE AMENDMENT IN THE  
NATURE OF A SUBSTITUTE TO H.R. 3684  
OFFERED BY MR. PAPPAS OF NEW HAMPSHIRE**

Page 1076, after line 6, insert the following:

1 **SEC. 5112. ACCELERATED IMPLEMENTATION AND DEPLOY-**  
2 **MENT OF ADVANCED DIGITAL CONSTRUC-**  
3 **TION MANAGEMENT SYSTEMS.**

4 Section 503(c) of title 23, United States Code, is  
5 amended by adding at the end the following:

6 “(5) ACCELERATED IMPLEMENTATION AND DE-  
7 PLOYMENT OF ADVANCED DIGITAL CONSTRUCTION  
8 MANAGEMENT SYSTEMS.—

9 “(A) IN GENERAL.—The Secretary shall  
10 establish and implement a program under the  
11 technology and innovation deployment program  
12 established under paragraph (1) to promote,  
13 implement, deploy, demonstrate, showcase, sup-  
14 port, and document the application of advanced  
15 digital construction management systems, prac-  
16 tices, performance, and benefits.

17 “(B) GOALS.—The goals of the accelerated  
18 implementation and deployment of advanced  
19 digital construction management systems pro-

1           gram established under subparagraph (A) shall  
2           include—

3                   “(i) accelerated State and local gov-  
4                   ernment adoption of advanced digital con-  
5                   struction management systems applied  
6                   throughout the construction lifecycle (in-  
7                   cluding through the design and engineer-  
8                   ing, construction, and operations phases)  
9                   that—

10                           “(I) maximize interoperability  
11                           with other systems, products, tools, or  
12                           applications;

13                           “(II) boost productivity;

14                           “(III) manage complexity and  
15                           risk;

16                           “(IV) reduce project delays and  
17                           cost overruns;

18                           “(V) enhance safety and quality;

19                           and

20                           “(VI) support sustainable design  
21                           and construction;

22                           “(ii) more timely and productive infor-  
23                           mation-sharing among stakeholders  
24                           through digital collaboration platforms  
25                           that connect workflows, teams, and data

1 and reduced reliance on paper to manage  
2 construction processes and deliverables  
3 such as blueprints, design drawings, pro-  
4 curement and supply-chain orders, equip-  
5 ment logs, daily progress reports, inspec-  
6 tions, requests for information, and punch  
7 lists;

8 “(iii) deployment of digital manage-  
9 ment systems that enable and leverage the  
10 use of digital technologies on construction  
11 sites by contractors, such as state-of-the-  
12 art automated and connected machinery  
13 and optimized routing software that allows  
14 construction workers to perform tasks fast-  
15 er, safer, more accurately, and with mini-  
16 mal supervision;

17 “(iv) the development and deployment  
18 of best practices for use in digital con-  
19 struction management;

20 “(v) increased technology adoption  
21 and deployment by States and units of  
22 local government that enables project spon-  
23 sors—

1                   “(I) to integrate the adoption of  
2                   digital management systems and tech-  
3                   nologies in contracts; and

4                   “(II) to weigh the cost of  
5                   digitization and technology in setting  
6                   project budgets;

7                   “(vi) technology training and work-  
8                   force development to build the capabilities  
9                   of project managers and sponsors that en-  
10                  ables States and units of local govern-  
11                  ment—

12                  “(I) to better manage projects  
13                  using advanced digital construction  
14                  management technologies; and

15                  “(II) to properly measure and re-  
16                  ward technology adoption across  
17                  projects of the State or unit of local  
18                  government;

19                  “(vii) development of guidance to as-  
20                  sist States in updating regulations of the  
21                  State to allow project sponsors and con-  
22                  tractors—

23                  “(I) to report data relating to the  
24                  project in digital formats; and

1                   “(II) to fully capture the effi-  
2                   ciencies and benefits of advanced dig-  
3                   ital construction management systems  
4                   and related technologies;

5                   “(viii) reduction in the environmental  
6                   footprint of construction projects using ad-  
7                   vanced digital construction management  
8                   systems resulting from elimination of con-  
9                   gestion through more efficient projects;

10                  “(ix) development of more sustainable  
11                  infrastructure that is designed to be more  
12                  resilient to climate impacts, constructed  
13                  with less material waste and made with  
14                  more low-emissions construction materials;  
15                  and

16                  “(x) enhanced worker and pedestrian  
17                  safety resulting from increased trans-  
18                  parency.

19                  “(C) FUNDING.—From funds made avail-  
20                  able to carry out this subsection, for each of fis-  
21                  cal years 2023 through 2026, the Secretary  
22                  shall obligate such sums as may be necessary to  
23                  carry out this paragraph.

24                  “(D) PUBLIC REPORT.—

1                   “(i) IN GENERAL.—Not less fre-  
2                   quently than annually, the Secretary shall  
3                   issue and make available to the public on  
4                   a website a report on—

5                   “(I) progress made in the imple-  
6                   mentation of advanced digital man-  
7                   agement systems by States; and

8                   “(II) the costs and benefits of  
9                   the deployment of new technology and  
10                  innovations that substantially and di-  
11                  rectly resulted from the program es-  
12                  tablished under this paragraph.

13                  “(ii) INCLUSIONS.—The report under  
14                  clause (i) may include an analysis of—

15                  “(I) Federal, State, and local  
16                  cost savings;

17                  “(II) project delivery time im-  
18                  provements;

19                  “(III) waste reduction and sus-  
20                  tainability improvements;

21                  “(IV) congestion impacts; and

22                  “(V) safety improvements for  
23                  roadway users and construction work-  
24                  ers.

1           “(E) REPORT TO CONGRESS.—Not later  
2 than 1 year after the date of enactment of this  
3 Act, the Secretary shall submit to the Com-  
4 mittee on Environment and Public Works of the  
5 Senate and the Committee on Transportation  
6 and Infrastructure of the House of Representa-  
7 tives a report that includes—  
8           “(i) a description of—  
9                 “(I) the current status of the use  
10                of advanced digital construction man-  
11                agement systems in each State; and  
12                “(II) the progress of each State  
13                toward accelerating the adoption of  
14                advanced digital construction manage-  
15                ment systems; and  
16                “(ii) an analysis of the savings in  
17                project delivery time and project costs,  
18                waste reduction, and sustainability im-  
19                provements, that can be achieved through  
20                the use of advanced digital construction  
21                management systems.”.

