

AMENDMENT TO H.R. 8748
OFFERED BY MR. WEBSTER OF FLORIDA

Add at the end the following:

1 **SEC. 10. STUDY AND STRATEGY ON INTEROPERABLE DIG-**
2 **ITAL INFRASTRUCTURE FOR TRANSPOR-**
3 **TATION REGULATORY AND ENGINEERING AC-**
4 **TIVITIES.**

5 (a) IN GENERAL.—Not later than one year after the
6 date of the enactment of this Act, the Secretary of Trans-
7 portation, acting through the Assistant Secretary for Re-
8 search and Technology and in coordination with relevant
9 operating administrations of the Department of Transpor-
10 tation, shall conduct a study and develop a strategy re-
11 lated to the use of a decentralized, vendor-neutral digital
12 infrastructure to support activities related to digital trans-
13 portation planning, environmental review, engineering
14 analysis, modeling and simulation, testing, certification,
15 permitting, and lifecycle management of infrastructure
16 systems.

17 (b) CONTENTS.—The study conducted under sub-
18 section (a) shall include the following:

19 (1) An assessment of the following:

1 (A) Barriers to secure information sharing
2 and collaboration resulting from a fragmented,
3 incompatible, or non-interoperable digital sys-
4 tem, data environment, or modeling tool used
5 by transportation and infrastructure agencies or
6 stakeholders.

7 (B) Methods, including interoperable mod-
8 els, simulations, and digital twins, to support
9 machine-readable and traceable regulatory, en-
10 gineering, and environmental review of infra-
11 structure systems.

12 (C) Methods, including technical stand-
13 ards, governance frameworks, and cybersecurity
14 approaches, as determined appropriate by the
15 Secretary of Transportation, to preserve data
16 ownership, operational autonomy, provenance,
17 auditability, or secure collaboration between
18 such agencies or stakeholders.

19 (2) An evaluation of the following:

20 (A) Approaches to enable secure, decen-
21 tralized, and cross-network collaboration be-
22 tween transportation and infrastructure agen-
23 cies and stakeholders without replacing existing
24 systems.

1 (B) Any opportunity to improve the fol-
2 lowing:

3 (i) Coordination, transparency, or
4 reuse of authoritative digital information.

5 (ii) Efficiency of transportation re-
6 views, approvals, and lifecycle management
7 activities.

8 (c) REPORT.—Not later than 18 months after the
9 date of the enactment of this Act, the Secretary of Trans-
10 portation shall submit to the Committee on Transpor-
11 tation and Infrastructure and the Committee on Science,
12 Space, and Technology of the House of Representatives
13 and the Committee on Commerce, Science, and Transpor-
14 tation and the Committee on Environment and Public
15 Works of the Senate a report that includes information
16 relating to the following:

17 (1) The findings of the study conducted under
18 subsection (a).

19 (2) Any recommendation for the following:

20 (A) Pilot programs or activities related to
21 the implementation of a decentralized, vendor-
22 neutral digital infrastructure for activities re-
23 lated to transportation planning, environmental
24 review, engineering analysis, modeling and sim-

1 ulation, testing, certification, permitting, and
2 lifecycle management of infrastructure systems.

3 (B) Methods, including technical stand-
4 ards, governance frameworks, and cybersecurity
5 approaches, to support infrastructure-related
6 regulatory, engineering, and environmental re-
7 view activities.

8 (C) Improving public communication strat-
9 egies to ensure information relating to planned
10 and active right-of-way disruptions to affected
11 communities and the public is understandable
12 and made available in a timely manner.

13 (3) Any statutory, regulatory, technical, or or-
14 ganizational barriers to implementation of an inter-
15 operable digital infrastructure.

