

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) Any barrier resulting from a frag-
2 mented, incompatible, or non-interoperable dig-
3 ital system, data environment, or modeling tool
4 used by transportation and infrastructure agen-
5 cies or stakeholders.

6 (B) Any method that uses an interoperable
7 model, simulation, or digital twin to support the
8 machine-readable and traceable regulatory, en-
9 gineering, and environmental review of a pro-
10 posed project of such agencies or stakeholders.

11 (C) Any standard, governance framework,
12 or cybersecurity approach necessary , as deter-
13 mined by the Secretary of Transportation, to
14 preserve data ownership, operational autonomy,
15 provenance, auditability, or secure collaboration
16 between such agencies or stakeholders.

17 (2) An evaluation of the following:

18 (A) Approaches to enable secure, decen-
19 tralized, and cross-network collaboration be-
20 tween transportation and infrastructure agen-
21 cies and stakeholders without utilizing central-
22 ized data storage or replacing existing systems.

23 (B) Any opportunity to improve the fol-
24 lowing:

1 (i) Coordination, transparency, or
2 reuse of authoritative digital information.

3 (ii) Efficiency of transportation re-
4 views, approvals proposed projects of such
5 agencies or stakeholders, and lifecycle
6 management activities.

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

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

18 (2) Any recommendation for the following:

19 (A) Pilot programs or activities related to
20 the implementation of a decentralized, vendor-
21 neutral digital infrastructure for activities re-
22 lated to transportation planning, environmental
23 review, engineering analysis, modeling and sim-
24 ulation, testing, certification, permitting, and
25 lifecycle management infrastructure systems.

1 (B) Standards, governance frameworks,
2 and cybersecurity approaches to support infra-
3 structure-related regulatory, engineering, and
4 environmental review of such systems.

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

10 (3) Any statutory, regulatory, technical, or or-
11 ganizational barriers to implementation of an inter-
12 operable digital infrastructure.

