To require the Secretary of Commerce, acting through the Director of the National Institute of Standards and Technology, to help facilitate the adoption of composite technology in infrastructure in the United States, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

SECTION 1. FACILITATING THE ADOPTION OF COMPOSITE TECHNOLOGY IN INFRASTRUCTURE.

(a) RESEARCH.—The Secretary of Commerce, acting through the Director of the National Institute of Standards and Technology, shall implement the recommenda-
tions contained in the December 2017 report entitled
“Road Mapping Workshop Report on Overcoming Bar-
riers to Adoption of Composites in Sustainable Infrastruc-ture”, as appropriate, to help facilitate the adoption of
composite technology in infrastructure in the United
States. In implementing such recommendations, the Sec-
etary, acting through the Director shall, with respect to
the use of composite technology in infrastructure—

(1) not later than 9 months after the date of
the enactment of this Act, develop a design for a
data clearinghouse to identify, gather, validate, and
disseminate existing design criteria, tools, guidelines,
and standards in a timely manner;

(2) not later than 18 months after the date of
the enactment of this Act, establish the data clear-
inghouse described in paragraph (1); and

(3) develop methods and resources required for
testing and evaluating safe and appropriate uses of
composite materials for infrastructure, including—

(A) conditioning protocols, procedures and
models;

(B) screening and acceptance tools; and

(C) minimum allowable design data sets
that can be converted into design tools.
(b) **Standards Coordination.**—The Secretary, acting through the Director, shall assure that the appropriate Institute staff consult regularly with standards developers, members of the composites industry, institutions of higher education, and other stakeholders in order to facilitate the adoption of standards for use of composite materials in infrastructure that are based on the research and testing results and other information developed by the Institute.

(c) **Pilot Program.**—

(1) **In General.**—Commencing not later than 1 year after the date of the enactment of this Act, the Director of the National Institute of Standards and Technology shall, in consultation with the Industry-University Cooperative Research Centers Program of the National Science Foundation, conduct a pilot program to assess the feasibility and advisability of adopting composite technology in sustainable infrastructure.

(2) **Duration.**—The Director shall carry out the pilot program during the 4-year period beginning on the date of the commencement of the pilot program.

(3) **Reports.**—
(A) Preliminary report.—Not later than the date that is 2 years after the date of the commencement of the pilot program, the Director shall submit to the Committee on Commerce, Science, and Transportation of the Senate and the Committee on Science, Space, and Technology of the House of Representatives a report on the preliminary findings of the Director with respect to the pilot program.

(B) Final report.—Not later than the date that is 90 days after the date of the completion of the pilot program, the Director shall submit to the committees referred to in subparagraph (A) a report on the findings of the Director with respect to the pilot program.