

Union Calendar No. 178

117TH CONGRESS
2^D SESSION

H. R. 3858

[Report No. 117-248]

To establish a national science and technology strategy, a quadrennial science and technology review, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

JUNE 11, 2021

Mr. WALTZ (for himself, Ms. ROSS, Mr. LUCAS, and Ms. JOHNSON of Texas) introduced the following bill; which was referred to the Committee on Science, Space, and Technology

FEBRUARY 18, 2022

Additional sponsors: Mr. SHERMAN, Mr. DELGADO, Mr. CROW, and Mr. ELLZEY

FEBRUARY 18, 2022

Reported from the Committee on Science, Space, and Technology; committed to the Committee of the Whole House on the State of the Union and ordered to be printed

A BILL

To establish a national science and technology strategy, a quadrennial science and technology review, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “National Science and
5 Technology Strategy Act of 2021”.

6 **SEC. 2. NATIONAL SCIENCE AND TECHNOLOGY STRATEGY.**

7 Section 206 of the National Science and Technology
8 Policy, Organization, and Priorities Act of 1976 (42
9 U.S.C. 6615) is amended to read as follows:

10 **“SEC. 206. NATIONAL SCIENCE AND TECHNOLOGY STRAT-**
11 **EGY.**

12 “(a) IN GENERAL.—Not later than the end of each
13 calendar year immediately after the calendar year in which
14 a review under section 206b is completed, the Director of
15 the Office of Science and Technology Policy, in consulta-
16 tion with the National Science and Technology Council,
17 shall develop and submit to Congress a comprehensive na-
18 tional science and technology strategy of the United States
19 to meet national research and development objectives for
20 the following 4-year period (in this Act referred to as ‘the
21 national science and technology strategy’).

22 “(b) REQUIREMENTS.—Each national science and
23 technology strategy required by subsection (a) shall delin-
24 eate a national science and technology strategy consistent
25 with—

1 “(1) the recommendations and priorities devel-
2 oped by the review established in section 206b;

3 “(2) the most recent national security strategy
4 report submitted pursuant to section 1032 of the
5 National Defense Authorization Act for Fiscal Year
6 2012 (50 U.S.C. 3043);

7 “(3) other relevant national plans; and

8 “(4) the strategic plans of relevant Federal de-
9 partments and agencies.

10 “(c) CONSULTATION.—The Director shall consult as
11 necessary with the Office of Management and Budget and
12 other appropriate elements of the Executive Office of the
13 President to ensure that the recommendations and prior-
14 ities delineated in the science and technology strategy are
15 incorporated in the development of annual budget re-
16 quests.

17 “(d) REPORT.—The President shall submit to Con-
18 gress each year a comprehensive report on the national
19 science and technology strategy of the United States. Each
20 report on the national science and technology strategy of
21 the United States shall include a description of—

22 “(1) strategic objectives and priorities necessary
23 to maintain the leadership of the United States in
24 science and technology and to advance science and
25 technology to address societal and national chal-

1 lenges, including near-term, medium-term, and long-
2 term research priorities;

3 “(2) programs, policies, and activities that the
4 President recommends across all Federal agencies to
5 achieve the strategic objectives in paragraph (1);
6 and

7 “(3) global trends in science and technology, in-
8 cluding potential threats to the leadership of the
9 United States in science and technology and oppor-
10 tunities for international collaboration in science and
11 technology.

12 “(e) PUBLICATION.—The Director shall, consistent
13 with the protection of national security and other sensitive
14 matters to the maximum extent practicable, make each re-
15 port submitted under subsection (d) publicly available on
16 an internet website of the Office.”.

17 **SEC. 3. QUADRENNIAL SCIENCE AND TECHNOLOGY RE-**
18 **VIEW.**

19 The National Science and Technology Policy, Organi-
20 zation, and Priorities Act of 1976 (42 U.S.C. 6601 et seq.)
21 is amended by inserting after section 206 the following:

22 **“SEC. 206b. QUADRENNIAL SCIENCE AND TECHNOLOGY RE-**
23 **VIEW.**

24 “(a) REQUIREMENTS.—

1 “(1) QUADRENNIAL REVIEWS REQUIRED.—Not
2 later than December 31, 2022, and every 4 years
3 thereafter, the Director of the Office of Science and
4 Technology Policy shall complete a review of the
5 science and technology enterprise of the United
6 States (in this section referred to as the ‘quadren-
7 nial science and technology review’).

8 “(2) SCOPE.—The quadrennial science and
9 technology review shall be a comprehensive examina-
10 tion of the science and technology strategy of the
11 United States, including recommendations for main-
12 taining global leadership in science and technology
13 and advancing science and technology to address the
14 societal and national challenges and guidance on the
15 coordination of programs, assets, capabilities, budg-
16 et, policies, and authorities across all Federal re-
17 search and development programs.

18 “(3) CONSULTATION.—The Director of the Of-
19 fice of Science and Technology Policy shall conduct
20 each quadrennial science and technology review
21 under this subsection in consultation with—

22 “(A) the National Science and Technology
23 Council;

24 “(B) the heads of other relevant Federal
25 agencies;

1 “(C) the President’s Council of Advisors
2 on Science and Technology;

3 “(D) the National Science Board;

4 “(E) the National Security Council; and

5 “(F) other relevant governmental and non-
6 governmental entities, including representatives
7 from industry, institutions of higher education,
8 nonprofit organizations, Members of Congress,
9 and other policy experts.

10 “(4) COORDINATION.—The Director shall en-
11 sure that each quadrennial science and technology
12 review conducted under this section is coordinated
13 with other relevant statutorily required reviews, and
14 to the maximum extent practicable incorporates in-
15 formation and recommendations from existing re-
16 views to avoid duplication.

17 “(b) CONTENTS.—In each quadrennial science and
18 technology review, the Director shall—

19 “(1) provide an integrated view of, and rec-
20 ommendations for, science and technology policy
21 across the Federal Government, while considering
22 economic and national security and other societal
23 and national challenges;

24 “(2) assess and recommend priorities for re-
25 search, development and demonstration programs to

1 maintain American leadership in science and tech-
2 nology;

3 “(3) assess and recommend priorities for re-
4 search, development, and demonstration programs to
5 address societal and national challenges;

6 “(4) assess the global competition in science
7 and technology and identify potential threats to the
8 leadership of the United States in science and tech-
9 nology and opportunities for international collabora-
10 tion;

11 “(5) assess and make recommendations on the
12 science, technology, engineering, mathematics and
13 computer science workforce in the United States;

14 “(6) assess and make recommendations to im-
15 prove regional innovation across the United States;

16 “(7) assess and make recommendations to im-
17 prove translation of basic research and the enhance-
18 ment of technology transfer of federally funded re-
19 search;

20 “(8) assess and identify the infrastructure and
21 tools needed to maintain the leadership of the
22 United States in science and technology and address
23 other societal and national challenges; and

24 “(9) review administrative or legislative policies
25 that affect the science and technology enterprise and

1 identify and make recommendations on policies that
2 hinder research and development in the United
3 States.

4 “(c) REPORTING.—

5 “(1) IN GENERAL.—Not later than December
6 31 of the year in which a quadrennial science and
7 technology review is conducted, the Director shall
8 submit a report of the review to Congress.

9 “(2) PUBLICATION.—The Director shall, con-
10 sistent with the protection of national security and
11 other sensitive matters to the maximum extent pos-
12 sible, make each report submitted under paragraph
13 (1) publicly available on an internet website of the
14 Office of Science and Technology Policy.”.

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