

117TH CONGRESS  
1ST SESSION

# S. 3015

To require the Director of the Office of Science and Technology Policy to submit to Congress each year a national science and technology strategy, to require the Director to complete quadrennial science and technology reviews, and for other purposes.

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## IN THE SENATE OF THE UNITED STATES

OCTOBER 20, 2021

Ms. CORTEZ MASTO (for herself and Mr. DAINES) introduced the following bill; which was read twice and referred to the Committee on Commerce, Science, and Transportation

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## A BILL

To require the Director of the Office of Science and Technology Policy to submit to Congress each year a national science and technology strategy, to require the Director to complete quadrennial science and technology reviews, 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, Inno-  
5       vation, and Technology Strategy Act of 2021”.

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

2 Title II of the National Science and Technology Pol-  
 3 icy, Organization, and Priorities Act of 1976 (42 U.S.C.  
 4 6611 et seq.) is amended by striking section 206 and in-  
 5 serting the following:

6 **“SEC. 206. NATIONAL SCIENCE AND TECHNOLOGY STRAT-**  
 7 **EGY.**

8 “(a) STRATEGY REQUIRED.—Not later than the end  
 9 of each calendar year immediately after the calendar year  
 10 in which a review under section 206A(b) is completed, the  
 11 Director of the Office of Science and Technology Policy,  
 12 in consultation with the National Science and Technology  
 13 Council, shall develop and submit to Congress a com-  
 14 prehensive national science and technology strategy of the  
 15 United States to meet national research and development  
 16 objectives for the following 4-year period (in this section  
 17 referred to as the ‘national science and technology strat-  
 18 egy’).

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

23 “(1) the recommendations and priorities devel-  
 24 oped pursuant to the review most recently completed  
 25 under section 206A(b);

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

5           “(3) other relevant national plans; and

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

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

16          “(d) ANNUAL REPORTS.—

17                 “(1) IN GENERAL.—The President shall submit  
18                 to Congress each year a comprehensive report on the  
19                 national science and technology strategy of the  
20                 United States.

21                 “(2) CONTENTS.—Each report submitted under  
22                 paragraph (1) shall include a description of the fol-  
23                 lowing:

24                         “(A) The strategic objectives and priorities  
25                         necessary to maintain the leadership of the

1 United States in science and technology and to  
 2 advance science and technology to address soci-  
 3 etal and national challenges, including near-  
 4 term, medium-term, and long-term research pri-  
 5 orities.

6 “(B) The programs, policies, and activities  
 7 that the President recommends across all Fed-  
 8 eral agencies to achieve the strategic objectives  
 9 in subparagraph (A).

10 “(C) The global trends in science and tech-  
 11 nology, including potential threats to the leader-  
 12 ship of the United States in science and tech-  
 13 nology and opportunities for international col-  
 14 laboration in science and technology.

15 “(e) PUBLICATION.—The Director shall, consistent  
 16 to the maximum extent practicable with the protection of  
 17 national security and other sensitive matters, make each  
 18 report submitted under subsection (d) publicly available  
 19 on an internet website of the Office of Science and Tech-  
 20 nology Policy.

21 **“SEC. 206A. INTERAGENCY QUADRENNIAL INNOVATION**  
 22 **AND TECHNOLOGY REVIEW.**

23 “(a) DEFINITIONS.—In this section:

1           “(1) APPROPRIATE COMMITTEES OF CON-  
2       GRESS.—The term ‘appropriate committees of Con-  
3       gress’ means—

4           “(A) the Committee on Commerce,  
5       Science, and Transportation, the Committee on  
6       Armed Services, the Committee on Appropria-  
7       tions, the Committee on Environment and Pub-  
8       lic Works, the Committee on Foreign Relations,  
9       and the Committee on Homeland Security and  
10      Governmental Affairs of the Senate; and

11          “(B) the Committee on Energy and Com-  
12      merce, the Committee on Armed Services, the  
13      Committee on Appropriations, the Committee  
14      on Foreign Affairs, the Committee on Science,  
15      Space, and Technology and the Committee on  
16      Homeland Security of the House of Representa-  
17      tives.

18          “(2) INTERAGENCY.—The term ‘interagency’  
19      with respect to a review means that the review is  
20      conducted in consultation and coordination between  
21      Federal agencies, including the Department of Com-  
22      merce, the Department of Transportation, the De-  
23      partment of Defense, the Department of Energy, the  
24      Environmental Protection Agency, and such other  
25      related agencies as the Director of the Office of

1 Science and Technology Policy considers appro-  
 2 priate, as well as the following:

3 “(A) The National Science and Technology  
 4 Council.

5 “(B) The President’s Council of Advisors  
 6 on Science and Technology.

7 “(C) The National Science Board.

8 “(D) the National Security Council.

9 “(E) The Council of Economic Advisers.

10 “(F) The National Economic Council.

11 “(G) The Domestic Policy Council.

12 “(H) The Office of the United States  
 13 Trade Representative.

14 “(b) INTERAGENCY QUADRENNIAL INNOVATION AND  
 15 TECHNOLOGY REVIEW REQUIRED.—

16 “(1) IN GENERAL.—Not later than 1 year after  
 17 the date of the enactment of the National Science,  
 18 Innovation, and Technology Strategy Act of 2021,  
 19 and every 4 years thereafter, the Director of the Of-  
 20 fice of Science and Technology Policy shall complete  
 21 an interagency review of the science and technology  
 22 enterprise of the United States (in this section re-  
 23 ferred to as the ‘quadrennial innovation and tech-  
 24 nology review’).

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

11          “(3) CONSULTATION.—In carrying out each  
12          quadrennial innovation and technology review, the  
13          Director of the Office of Science and Technology  
14          Policy shall consult with the following:

15                 “(A) Congress.

16                 “(B) Federal agencies, including Federal  
17                 agencies not described in subsection (a)(2).

18                 “(C) Experts in national security.

19                 “(D) Representatives of specific technology  
20                 industries, as the Director considers appro-  
21                 priate.

22                 “(E) Academics.

23                 “(F) State, local, and Tribal governments.

24                 “(G) Nongovernmental organizations.

25                 “(H) The public.

1       “(c) CONTENTS.—In each quadrennial innovation  
2 and technology review, the Director shall—

3           “(1) provide an integrated view of, and rec-  
4 ommendations for, science and technology policy  
5 across the Federal Government, while considering  
6 economic and national security and other societal  
7 and national challenges;

8           “(2) assess and recommend priorities for re-  
9 search, development, and demonstration programs to  
10 maintain American leadership in science and tech-  
11 nology;

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

15          “(4) assess the global competition in science  
16 and technology and identify potential threats to the  
17 leadership of the United States in science and tech-  
18 nology opportunities for international collaboration;

19          “(5) assess and make recommendations on the  
20 science, technology, engineering, mathematics, and  
21 computer science workforce in the United States;

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

24          “(7) assess and make recommendations to im-  
25 prove translation of basic research and the enhance-



1       ment of technology transfer of federally funded re-  
2       search;

3           “(8) assess and identify the infrastructure and  
4       tools needed to maintain the leadership of the  
5       United States in science and technology and address  
6       other societal and national challenges; and

7           “(9) review administrative or legislative policies  
8       that affect the science and technology enterprise and  
9       identify and make recommendations on policies that  
10      hinder research and development in the United  
11      States.

12      “(d) COORDINATION.—The Director shall ensure that  
13      each quadrennial innovation and technology review con-  
14      ducted under this section is coordinated with efforts to  
15      carry out other relevant statutorily required reviews, and  
16      to the maximum extent practicable incorporates informa-  
17      tion and recommendations from other reviews in order to  
18      avoid duplication.

19      “(e) REPORTING.—

20           “(1) IN GENERAL.—Not later than December  
21      31 of the year in which a quadrennial innovation  
22      and technology review is conducted, the Director  
23      shall submit to Congress a report of the review.

24           “(2) PUBLICATION.—The Director shall, con-  
25      sistent to the maximum extent possible with the pro-

1       tection of national security and other sensitive mat-  
2       ters, make each report submitted under paragraph  
3       (1) publicly available on an internet website of the  
4       Office of Science and Technology Policy.”.

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