

119TH CONGRESS
2D SESSION

S. _____

To establish standards and guidelines to make open Government data assets artificial intelligence-ready, and for other purposes.

IN THE SENATE OF THE UNITED STATES

Mr. BUDD (for himself and Mr. KIM) introduced the following bill; which was read twice and referred to the Committee on _____

A BILL

To establish standards and guidelines to make open Government data assets artificial intelligence-ready, 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 “Artificial Intelligence-
5 Ready Data Act”.

1 **SEC. 2. ESTABLISHMENT OF STANDARDS AND GUIDELINES**
2 **TO MAKE OPEN GOVERNMENT DATA ASSETS**
3 **ARTIFICIAL INTELLIGENCE-READY.**

4 The National Institute of Standards and Technology
5 Act (15 U.S.C. 271 et seq.) is amended by adding at the
6 end the following:

7 **“SEC. 37. STANDARDS AND GUIDELINES TO MAKE OPEN**
8 **GOVERNMENT DATA ASSETS ARTIFICIAL IN-**
9 **TELLIGENCE-READY.**

10 “(a) IN GENERAL.—The Director shall, in consulta-
11 tion with the Secretary of Commerce, the Director of the
12 Office of Science and Technology Policy, the Director of
13 the Office of Management and Budget, and the head of
14 any other Federal agency the Director considers appro-
15 priate, develop standards and guidelines to assist Federal
16 agencies with making open Government data assets (as
17 defined in section 3502 of title 44, United States Code)
18 artificial intelligence-ready.

19 “(b) REQUIREMENTS.—

20 “(1) ADAPTABILITY AND INTEROPERABILITY.—

21 In developing the standards and guidelines under
22 subsection (a), the Director shall set baseline stand-
23 ards and guidelines for all Federal agencies that, to
24 the greatest extent practicable, allow for the heads
25 of the agencies to adapt and extend such standards

1 and guidelines to meet the needs of agency-specific
2 missions.

3 “(2) ELEMENTS.—The standards and guide-
4 lines required by subsection (a) shall—

5 “(A) recommend improvements to the
6 availability and utility of open Government data
7 assets for the development of artificial intel-
8 ligence (as defined in section 5002 of the Na-
9 tional Artificial Intelligence Initiative Act of
10 2020 (15 U.S.C. 9401)) by private or public
11 sector entities, including—

12 “(i) for the training of artificial intel-
13 ligence models or systems;

14 “(ii) best practices for data quality,
15 data stewardship, metadata, and docu-
16 mentation; and

17 “(iii) ways to manage intellectual
18 property concerns when Federal data is
19 combined with proprietary data;

20 “(B) identify, or recommend methods for
21 identifying, other data assets (as defined in sec-
22 tion 3502 of title 44, United States Code) gen-
23 erated or maintained by Federal agencies that
24 should be made available for the development of
25 artificial intelligence; and

1 “(C) recommend measurements for evalu-
2 ating the effectiveness of Federal agency action
3 pertaining to subparagraphs (A) and (B).

4 “(3) ARTIFICIAL INTELLIGENCE-READY RE-
5 QUIREMENTS FOR OPEN GOVERNMENT DATA AS-
6 SETS.—The standards and guidelines developed
7 under subsection (a) shall require open Government
8 data assets to be, to the greatest extent prac-
9 ticable—

10 “(A) artificial intelligence-ready, defined
11 based on the needs of artificial intelligence de-
12 velopers and information provided by persons
13 engaged with artificial intelligence that is re-
14 ceived through the notice and comment proce-
15 dure outlined in subsection (c);

16 “(B) available for download—

17 “(i) on a publicly accessible website or
18 other convenient method;

19 “(ii) by web-scraping; or

20 “(iii) by any other method the Direc-
21 tor considers practicable and beneficial;

22 “(C) accurate as of the date of the publica-
23 tion of the open Government data asset;

24 “(D) human-readable;

1 “(E) in an open and machine-readable for-
2 mat, accompanied by publicly available software
3 tools that can decode or process the data; and

4 “(F) secure and protective of individual
5 privacy.

6 “(c) PUBLIC NOTICE AND OPPORTUNITY FOR COM-
7 MENT.—

8 “(1) IN GENERAL.—In developing the stand-
9 ards and guidelines under subsection (a), and in
10 considering revisions to the standards and guidelines
11 under subsection (d), the Director shall—

12 “(A) publish in the Federal Register—

13 “(i) proposed standards and guide-
14 lines; and

15 “(ii) a request for feedback, including
16 on the recommendations described in sub-
17 section (b)(2);

18 “(B) provide the public with an oppor-
19 tunity to comment for a period of not less than
20 60 days;

21 “(C) ensure public comments are available
22 for public inspection; and

23 “(D) demonstrate consideration of the
24 public comments received under this paragraph
25 in the development of the standards and guide-

1 lines under subsection (a) or the revision of the
2 standards and guidelines under subsection (d).

3 “(2) TIMELINE FOR PUBLICATION.—The Direc-
4 tor shall publish—

5 “(A) the standards and guidelines devel-
6 oped under subsection (a) in the Federal Reg-
7 ister not later than 1 year after the date of the
8 enactment of this section; and

9 “(B) any revision to the standards and
10 guidelines under subsection (d), or a notice that
11 public comment had been considered and pro-
12 posed revisions are not beneficial or necessary,
13 in the Federal Register not later than 60 days
14 after the Director has completed the review re-
15 quired by that subsection.

16 “(d) UPDATES TO THE STANDARDS AND GUIDE-
17 LINES.—Not later than 2 years after the date on which
18 the Director submits the standards and guidelines to the
19 Director of the Office of Science and Technology Policy
20 under subsection (e) and not less frequently than once
21 every 2 years thereafter, the Director shall consider, in
22 accordance with the notice and comment procedures under
23 subsection (c), revisions to the standards and guidelines
24 required by subsection (a) to improve the utility of the
25 standards and guidelines.

1 “(e) SUBMISSION TO THE DIRECTOR OF THE OFFICE
2 OF SCIENCE AND TECHNOLOGY POLICY.—The Director
3 shall submit the standards and guidelines developed under
4 subsection (a), and any revision of the standards and
5 guidelines under subsection (d), to the President for
6 issuing requirements in accordance with section 701 of the
7 National Science and Technology Policy, Organization,
8 and Priorities Act of 1976.”.

9 **SEC. 3. IMPLEMENTATION OF STANDARDS AND GUIDE-**
10 **LINES TO MAKE OPEN GOVERNMENT DATA**
11 **ASSETS ARTIFICIAL INTELLIGENCE-READY.**

12 The National Science and Technology Policy, Organi-
13 zation, and Priorities Act of 1976 (42 U.S.C. 6611 et seq.)
14 is amended by adding at the end the following:

15 **“TITLE VII—IMPLEMENTATION**
16 **OF STANDARDS AND GUIDE-**
17 **LINES TO MAKE OPEN GOV-**
18 **ERNMENT DATA ASSETS ARTI-**
19 **FICIAL INTELLIGENCE-READY**
20 **“SEC. 701. IMPLEMENTATION OF STANDARDS AND GUIDE-**
21 **LINES BY FEDERAL AGENCIES.**

22 “(a) IN GENERAL.—Upon receiving the standards
23 and guidelines from the Director of the National Institute
24 of Standards and Technology pursuant to section 37(e)
25 of the National Institute of Standards and Technology

1 Act, the President, acting through the Director of the Of-
2 fice of Science and Technology Policy, in consultation with
3 the Director of the Office of Management and Budget,
4 shall issue a requirement that the head of each Federal
5 agency adopt such standards and guidelines.

6 “(b) AGENCY REQUIREMENT.—Upon the President,
7 acting through the Director of the Office of Science and
8 Technology Policy, issuing a requirement to the head of
9 a Federal agency under subsection (a), the head of such
10 agency shall—

11 “(1) adopt and adhere to the standards and
12 guidelines issued by the Director of the Office of
13 Science and Technology Policy;

14 “(2) ensure that any agency-specific adapta-
15 tions of the standards and guidelines remain inter-
16 operable with the data systems of other Federal
17 agencies to support interagency collaboration; and

18 “(3) ensure that major information technology
19 and high-performance computing acquisitions explic-
20 itly account for any requirement contained in the
21 standards and guidelines.”.

1 **SEC. 4. ARTIFICIAL INTELLIGENCE AND MACHINE LEARN-**
2 **ING READINESS OF NATIONAL OCEANIC AND**
3 **ATMOSPHERIC ADMINISTRATION DATA AS-**
4 **SETS FOR OPERATIONAL FORECASTING.**

5 (a) IN GENERAL.—After the adoption by the Under
6 Secretary of Commerce for Oceans and Atmosphere (in
7 this section referred to as the “Under Secretary”) of the
8 standards and guidelines described in section 701 of the
9 National Science and Technology Policy, Organization,
10 and Priorities Act of 1976, as added by section 3, the
11 Under Secretary shall ensure the data assets of the Na-
12 tional Oceanic and Atmospheric Administration (in this
13 section referred to as the “Administration”) support the
14 integration of artificial intelligence and machine learning
15 into the operational forecasting activities of the Adminis-
16 tration, specifically for—

- 17 (1) model analyses, forecasts, and reanalyses;
18 (2) in-situ and conventional observations;
19 (3) satellite datasets; and
20 (4) environmental observations that are critical
21 for forecasting.

22 (b) ANNUAL BRIEFINGS.—Not later than 1 year
23 after the date of adoption described in subsection (a), and
24 annually thereafter for 5 years, the Under Secretary shall
25 brief the Committee on Commerce, Science, and Transpor-
26 tation of the Senate and the Committee on Science, Space,

1 and Technology of the House of Representatives on the
2 progress made by the Under Secretary in implementing
3 subsection (a).