116TH CONGRESS 2D SESSION

S. 2597

AN ACT

- To require the National Oceanic and Atmospheric Administration to make certain operational models available to the public, 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,

1 SECTION 1. SHORT TITLE.

- This Act may be cited as the "Learning Excellence
- 3 and Good Examples from New Developers Act of 2020"
- 4 or the "LEGEND Act of 2020".
- 5 SEC. 2. DEFINITIONS.
- 6 In this Act:
- 7 (1) ADMINISTRATION.—The term "Administra-
- 8 tion" means the National Oceanic and Atmospheric
- 9 Administration.
- 10 (2) Administrator.—The term "Adminis-
- trator" means the Under Secretary of Commerce for
- 12 Oceans and Atmosphere and Administrator of the
- National Oceanic and Atmospheric Administration.
- 14 (3) Earth prediction innovation cen-
- 15 TER.—The term "Earth Prediction Innovation Cen-
- ter" means the community global weather research
- modeling system described in paragraph (5)(E) of
- section 102(b) of the Weather Research Forecasting
- and Innovation Act of 2017 (15 U.S.C. 8512(b)), as
- redesignated by section 4(g).
- 21 (4) Model.—The term "model" means any
- vetted numerical model and associated data assimila-
- tion of the Earth's system or its components—
- 24 (A) developed, in whole or in part, by sci-
- entists and engineers employed by the Adminis-
- 26 tration; or

1	(B) otherwise developed using Federal					
2	funds.					
3	(5) OPERATIONAL MODEL.—The term "oper-					
4	ational model" means any model that has an output					
5	used by the Administration for operational func-					
6	tions.					
7	(6) Suitable Model.—The term "suitable					
8	model" means a model that meets the requirements					
9	described in paragraph (5)(E)(ii) of section 102(b)					
10	of the Weather Research Forecasting and Innovation					
11	Act of 2017 (15 U.S.C. 8512(b)), as redesignated by					
12	section 4(g), as determined by the Administrator.					
13	SEC. 3. PURPOSES.					
14	The purposes of this Act are—					
15	(1) to support innovation in modeling by allow-					
16	ing interested stakeholders to have easy and com-					
17	plete access to the models used by the Administra-					
18	tion, as the Administrator determines appropriate;					
19	and					
20	(2) to use vetted innovations arising from ac-					
21	cess described in paragraph (1) to improve modeling					
22	by the Administration.					

1	SEC. 4. PLAN AND IMPLEMENTATION OF PLAN TO MAKE				
2	CERTAIN MODELS AND DATA AVAILABLE TO				
3	THE PUBLIC.				
4	(a) In General.—The Administrator shall develop				
5	and implement a plan to make available to the public the				
6	following:				
7	(1) Operational models developed by the Ad-				
8	ministration.				
9	(2) Models that are not operational models, in-				
10	cluding experimental and developmental models, as				
11	the Administrator determines appropriate.				
12	(3) Applicable information and documentation				
13	for models described in paragraphs (1) and (2).				
14	(4) Subject to section 7, all data owned by the				
15	Federal Government and data that the Adminis-				
16	trator has the legal right to redistribute that are as-				
17	sociated with models made available to the public				
18	pursuant to the plan and used in operational fore-				
19	casting by the Administration, including—				
20	(A) relevant metadata;				
21	(B) data used for operational models used				
22	by the Administration as of the date of the en-				
23	actment of this Act; and				
24	(C) a description of intended model out-				
25	puts.				

- 1 (b) ACCOMMODATIONS.—In developing and imple-2 menting the plan under subsection (a), the Administrator
- 3 may make such accommodations as the Administrator
- 4 considers appropriate to ensure that the public release of
- 5 any model, information, documentation, or data pursuant
- 6 to the plan does not jeopardize—
- 7 (1) national security;
- 8 (2) intellectual property or redistribution rights,
- 9 including under titles 17 and 35, United States
- 10 Code;
- 11 (3) any trade secret or commercial or financial
- information subject to section 552(b)(4) of title 5,
- 13 United States Code;
- 14 (4) any models or data that are otherwise re-
- stricted by contract or other written agreement; or
- 16 (5) the mission of the Administration to protect
- 17 lives and property.
- (c) PRIORITY.—In developing and implementing the
- 19 plan under subsection (a), the Administrator shall
- 20 prioritize making available to the public the models de-
- 21 scribed in subsection (a)(1).
- 22 (d) Exclusion of Certain Models.—In devel-
- 23 oping and implementing the plan under subsection (a), the
- 24 Administrator may exclude models that the Administrator

- 1 determines will be retired or superseded in fewer than 5
- 2 years after the date of the enactment of this Act.
- 3 (e) Platforms.—In carrying out subsections (a)
- 4 and (b), the Administrator may use government servers,
- 5 contracts or agreements with a private vendor, or any
- 6 other platform consistent with the purpose of this Act.
- 7 (f) Support Program.—The Administrator shall
- 8 plan for and establish a program to support infrastruc-
- 9 ture, including telecommunications and technology infra-
- 10 structure of the Administration and the platforms de-
- 11 scribed in subsection (e), relevant to making operational
- 12 models and data available to the public pursuant to the
- 13 plan under subsection (a).
- 14 (g) TECHNICAL CORRECTION.—Section 102(b) of the
- 15 Weather Research Forecasting and Innovation Act of
- 16 2017 (15 U.S.C. 8512(b)) is amended by redesignating
- 17 the second paragraph (4) (as added by section 4(a) of the
- 18 National Integrated Drought Information System Reau-
- 19 thorization Act of 2018 (Public Law 115–423; 132 Stat.
- 20 5456)) as paragraph (5).
- 21 SEC. 5. REQUIREMENT TO REVIEW MODELS AND LEVER-
- 22 AGE INNOVATIONS.
- 23 The Administrator shall—
- 24 (1) consistent with the mission of the Earth
- 25 Prediction Innovation Center, periodically review in-

1	novations and improvements made by persons out-
2	side the Administration to the operational models
3	made available to the public pursuant to the plan
4	under section 4(a) in order to improve the accuracy
5	and timeliness of forecasts of the Administration;
6	and
7	(2) if the Administrator identifies an innovation
8	for a suitable model, develop and implement a plan
9	to use the innovation to improve the model.
10	SEC. 6. REPORT ON IMPLEMENTATION.
11	(a) In General.—Not later than 2 years after the
12	date of the enactment of this Act, the Administrator shall
13	submit to the appropriate congressional committees a re-
14	port on the implementation of this Act that includes a de-
15	scription of—
16	(1) the implementation of the plan required by
17	section 4;
18	(2) the process of the Administration under sec-
19	tion 5—
20	(A) for engaging with interested stake-
21	holders to learn what innovations those stake-
22	holders have found;
23	(B) for reviewing those innovations; and
24	(C) for operationalizing innovations to im-
25	prove suitable models.

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1	(b) Appropriate Congressional Committees					
2	Defined.—In this section, the term "appropriate con-					
3	gressional committees" means—					
4	(1) the Committee on Commerce, Science, and					
5	Transportation and the Committee on Appropria-					
6	tions of the Senate; and					
7	(2) the Committee on Science, Space, and					
8	Technology and the Committee on Appropriations of					
9	the House of Representatives.					
10	SEC. 7. PROTECTION OF NATIONAL SECURITY INTERESTS.					
11	(a) In General.—Notwithstanding any other provi-					
12	sion of this Act, the Administrator, in consultation with					
13	the Secretary of Defense, as appropriate, may withhold					
14	any model or data if the Administrator determines doing					
15	so to be necessary to protect the national security interests					
16	of the United States.					
17	(b) Rule of Construction.—Nothing in this Act					
18	shall be construed to supersede any other provision of law					
19	governing the protection of the national security interests					

Passed the Senate December 14, 2020.

Attest:

20 of the United States.

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