

Calendar No. 529

116TH CONGRESS
2^D SESSION**S. 4157****[Report No. 116–266]**

To amend the Homeland Security Act of 2002 to expand the authority of the National Infrastructure Simulation and Analysis Center, and for other purposes.

IN THE SENATE OF THE UNITED STATES

JULY 2, 2020

Mr. JOHNSON (for himself, Mr. PETERS, and Ms. HASSAN) introduced the following bill; which was read twice and referred to the Committee on Homeland Security and Governmental Affairs

SEPTEMBER 9, 2020

Reported by Mr. JOHNSON, with an amendment

[Strike out all after the enacting clause and insert the part printed in *italic*]**A BILL**

To amend the Homeland Security Act of 2002 to expand the authority of the National Infrastructure Simulation and Analysis Center, 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.**

2 This Act may be cited as the “National Infrastruc-
3 ture Simulation and Analysis Center Pandemic Modeling
4 Act of 2020”.

5 **SEC. 2. NATIONAL INFRASTRUCTURE SIMULATION AND**
6 **ANALYSIS CENTER.**

7 Section 511 of the Homeland Security Act of 2002
8 (6 U.S.C. 321) is amended—

9 (1) in subsection (b)—

10 (A) in paragraph (1)—

11 (i) in subparagraph (A) by striking
12 “and” at the end;

13 (ii) in subparagraph (B)—

14 (I) by inserting “; pandemic”
15 after “natural disaster”; and

16 (II) by striking the period at the
17 end and inserting “; and”; and

18 (iii) by adding at the end the fol-
19 lowing:

20 “(C) such other activities as determined
21 appropriate by the Director of the Cybersecu-
22 rity and Infrastructure Security Agency.”; and

23 (B) in paragraph (2)(C)—

24 (i) in clause (i)—

25 (I) by inserting “; pandemics”
26 after “natural disasters”; and

1 (II) by striking “and other man-
 2 made disasters” and inserting “other
 3 man-made disasters; and such other
 4 activities as determined appropriate
 5 by the Director of the Cybersecurity
 6 and Infrastructure Security Agency”;
 7 and

8 (ii) in clause (ii), by inserting “upon
 9 request and not later than 15 days after
 10 completion” before “, including”.

11 **SEC. 3. REPORTING AND BRIEFING REQUIREMENTS.**

12 (a) ~~REPORTING TO FEDERAL AGENCIES.—~~

13 (1) ~~SUMMARY OF CURRENT PROJECTS.—~~

14 (A) ~~IN GENERAL.—~~Not later than 1 year
 15 after the date of enactment of this Act, and
 16 once each year thereafter, the Director of the
 17 Cybersecurity and Infrastructure Security
 18 Agency shall provide a summary of the current
 19 projects of the National Infrastructure Simula-
 20 tion and Analysis Center to each Federal agen-
 21 cy and department with critical infrastructure
 22 responsibilities under Homeland Security Presi-
 23 dential Directive 7, or any successor to such di-
 24 rective.

1 ~~(B) REQUEST FOR ADDITIONAL INFORMA-~~
2 ~~TION.—If the head of a Federal agency or de-~~
3 ~~partment with critical infrastructure respon-~~
4 ~~sibilities under Homeland Security Presidential~~
5 ~~Directive 7, or any successor to such directive,~~
6 ~~requests additional information on a specific~~
7 ~~project summarized under subparagraph (A),~~
8 ~~the Director of the Cybersecurity and Infra-~~
9 ~~structure Security Agency shall provide the in-~~
10 ~~formation not later than 30 days after the date~~
11 ~~of the request.~~

12 ~~(2) PRIOR DATA.—~~

13 ~~(A) IN GENERAL.—Not later than 90 days~~
14 ~~after the date of enactment of this Act, the Di-~~
15 ~~rector of the Cybersecurity and Infrastructure~~
16 ~~Security Agency shall provide a catalogue of the~~
17 ~~projects of the National Infrastructure Simula-~~
18 ~~tion and Analysis Center for each of fiscal years~~
19 ~~2014 through 2020 to each Federal agency and~~
20 ~~department with critical infrastructure respon-~~
21 ~~sibilities under Homeland Security Presidential~~
22 ~~Directive 7, or any successor to such directive.~~

23 ~~(B) REQUEST FOR ADDITIONAL INFORMA-~~
24 ~~TION.—If the head of a Federal agency or de-~~
25 ~~partment with critical infrastructure respon-~~

sibilities under Homeland Security Presidential Directive 7, or any successor to such directive, requests additional information on a specific project catalogued under subparagraph (A), the Director of the Cybersecurity and Infrastructure Security Agency shall provide the information not later than 30 days after the date of the request.

~~(3)~~ PANDEMIC PORTFOLIO SUMMARY.—

~~(A)~~ IN GENERAL.—Not later than 45 days after the date of enactment of this Act, the Director of the Cybersecurity and Infrastructure Security Agency shall provide a summary of the past pandemic projects and provide all pandemic reports of the National Infrastructure Simulation and Analysis Center to each Federal agency and department with critical infrastructure responsibilities under Homeland Security Presidential Directive 7, or any successor to such directive.

~~(B)~~ REQUEST FOR ADDITIONAL INFORMATION.—If the head of a Federal agency or department with critical infrastructure responsibilities under Homeland Security Presidential Directive 7, or any successor to such directive,

1 requests additional information on a past
2 project or specific pandemic report provided
3 under subparagraph (A); the Director of the
4 Cybersecurity and Infrastructure Security
5 Agency shall provide the information not later
6 than 15 days after the date of the request.

7 (b) REPORTING TO CONGRESS.—

8 (1) CURRENT PROJECTS AND PRIORITIES.—Not
9 later than 1 year after the date of enactment of this
10 Act, and once each year thereafter, the Director of
11 the Cybersecurity and Infrastructure Security Agen-
12 cy shall provide summaries of the current projects
13 and priorities of the National Infrastructure Simula-
14 tion and Analysis Center to the Committee on
15 Homeland Security and Governmental Affairs of the
16 Senate and the Committee on Homeland Security of
17 the House of Representatives.

18 (2) PRIOR DATA.—Not later than 90 days after
19 the date of enactment of this Act, the Director of
20 the Cybersecurity and Infrastructure Security Agen-
21 cy shall provide a catalogue of the projects of the
22 National Infrastructure Simulation and Analysis
23 Center for each of fiscal years 2014 through 2020
24 to the Committee on Homeland Security and Gov-
25 ernmental Affairs of the Senate and the Committee

on Homeland Security of the House of Representatives.

~~(3)~~ PANDEMIC PORTFOLIO SUMMARY.—Not later than 45 days after the date of enactment of this Act, the Director of the Cybersecurity and Infrastructure Security Agency shall provide a summary of the past pandemic projects and provide all pandemic reports of the National Infrastructure Simulation and Analysis Center to the Committee on Homeland Security and Governmental Affairs of the Senate and the Committee on Homeland Security of the House of Representatives.

~~(c)~~ BRIEFING TO CONGRESS.—

~~(1)~~ IN GENERAL.—Not later than 180 days after the date of enactment of this Act, the Director of the Cybersecurity and Infrastructure Security Agency shall provide a briefing on current pandemic modeling, simulation, and analyses of the National Infrastructure Simulation and Analysis Center, and any additional activities supporting these efforts, to the Committee on Homeland Security and Governmental Affairs of the Senate and the Committee on Homeland Security of the House of Representatives.

~~(2)~~ ADDITIONAL BRIEFING.—Not later than 180 days after the date on which the Director of the

1 Cybersecurity and Infrastructure Security Agency
 2 provides the briefing required under paragraph (1),
 3 the Director of the Cybersecurity and Infrastructure
 4 Security Agency shall provide an updated version of
 5 the briefing to the Committee on Homeland Security
 6 and Governmental Affairs of the Senate and the
 7 Committee on Homeland Security of the House of
 8 Representatives.

9 **SECTION 1. SHORT TITLE.**

10 *This Act may be cited as the “National Infrastructure*
 11 *Simulation and Analysis Center Pandemic Modeling Act*
 12 *of 2020”.*

13 **SEC. 2. NATIONAL INFRASTRUCTURE SIMULATION AND**
 14 **ANALYSIS CENTER.**

15 *Section 511(b) of the Homeland Security Act of 2002*
 16 *(6 U.S.C. 321(b)) is amended—*

17 *(1) in paragraph (1)—*

18 *(A) in subparagraph (A) by striking “and”*
 19 *at the end;*

20 *(B) in subparagraph (B)—*

21 *(i) by inserting “, pandemic” after*
 22 *“natural disaster”; and*

23 *(ii) by striking the period at the end*
 24 *and inserting “; and”; and*

25 *(C) by adding at the end the following:*

“(C) *such other activities as determined appropriate by the Director of the Cybersecurity and Infrastructure Security Agency.*”; and

(2) *in paragraph (2)(C)—*

(A) *in clause (i)—*

(i) *by inserting “, pandemics” after “natural disasters”; and*

(ii) *by striking “and other man-made disasters” and inserting “other man-made disasters, and such other activities as determined appropriate by the Director of the Cybersecurity and Infrastructure Security Agency”; and*

(B) *in clause (ii), by inserting “upon request and not later than 15 days after completion” before “, including”.*

SEC. 3. REPORTING AND BRIEFING REQUIREMENTS.

(a) *REPORTING TO FEDERAL AGENCIES.—*

(1) *SUMMARY OF CURRENT PROJECTS.—*

(A) *IN GENERAL.—Not later than October 1, 2021, and once each year thereafter, the Director of the Cybersecurity and Infrastructure Security Agency shall provide the following information to each Federal agency and department with critical infrastructure responsibilities under*

1 *Presidential Policy Directive–21, or any suc-*
2 *cessor to such directive:*

3 *(i) A summary of the priorities of the*
4 *National Infrastructure Simulation and*
5 *Analysis Center as of the date on which the*
6 *information is provided under this subpara-*
7 *graph.*

8 *(ii) A summary of each project carried*
9 *out during the 1-year period preceding the*
10 *date on which the information is provided*
11 *under this subparagraph, including key*
12 *findings and recommendations.*

13 *(B) REQUEST FOR ADDITIONAL INFORMA-*
14 *TION.—If the head of a Federal agency or de-*
15 *partment with critical infrastructure responsibil-*
16 *ities under Presidential Policy Directive–21, or*
17 *any successor to such directive, requests addi-*
18 *tional information on a specific project summa-*
19 *rized under subparagraph (A), the Director of*
20 *the Cybersecurity and Infrastructure Security*
21 *Agency shall provide the information not later*
22 *than 30 days after the date of the request.*

23 *(2) PRIOR DATA.—*

24 *(A) IN GENERAL.—Not later than 90 days*
25 *after the date of enactment of this Act, the Direc-*

1 *tor of the Cybersecurity and Infrastructure Secu-*
 2 *rity Agency shall provide a catalog of the*
 3 *projects of the National Infrastructure Simula-*
 4 *tion and Analysis Center for each of fiscal years*
 5 *2014 through 2020 to each Federal agency and*
 6 *department with critical infrastructure respon-*
 7 *sibilities under Presidential Policy Directive–21,*
 8 *or any successor to such directive.*

9 *(B) REQUEST FOR ADDITIONAL INFORMA-*
 10 *TION.—If the head of a Federal agency or de-*
 11 *partment with critical infrastructure responsibil-*
 12 *ities under Presidential Policy Directive–21, or*
 13 *any successor to such directive, requests addi-*
 14 *tional information on a specific project cataloged*
 15 *under subparagraph (A), the Director of the Cy-*
 16 *bersecurity and Infrastructure Security Agency*
 17 *shall provide the information not later than 30*
 18 *days after the date of the request.*

19 *(3) PANDEMIC PORTFOLIO SUMMARY.—*

20 *(A) IN GENERAL.—Not later than 45 days*
 21 *after the date of enactment of this Act, the Direc-*
 22 *tor of the Cybersecurity and Infrastructure Secu-*
 23 *rity Agency shall provide all pandemic reports of*
 24 *the National Infrastructure Simulation and*
 25 *Analysis Center completed before the date of en-*

1 *actment of this Act to each Federal agency and*
2 *department with critical infrastructure respon-*
3 *sibilities under Presidential Policy Directive–21,*
4 *or any successor to such directive.*

5 *(B) REQUEST FOR ADDITIONAL INFORMA-*
6 *TION.—If the head of a Federal agency or de-*
7 *partment with critical infrastructure responsibil-*
8 *ities under Presidential Policy Directive–21, or*
9 *any successor to such directive, requests addi-*
10 *tional information on a project or specific pan-*
11 *demie report provided under subparagraph (A),*
12 *the Director of the Cybersecurity and Infrastruc-*
13 *ture Security Agency shall provide the informa-*
14 *tion not later than 30 days after the date of the*
15 *request.*

16 *(b) REPORTING TO CONGRESS.—*

17 *(1) CURRENT PROJECTS AND PRIORITIES.—Not*
18 *later than October 1, 2021, and once each year there-*
19 *after, the Director of the Cybersecurity and Infra-*
20 *structure Security Agency shall provide the following*
21 *information to the Committee on Homeland Security*
22 *and Governmental Affairs of the Senate and the Com-*
23 *mittee on Homeland Security of the House of Rep-*
24 *resentatives:*

1 (A) *A summary of the priorities of the Na-*
2 *tional Infrastructure Simulation and Analysis*
3 *Center as of the date on which the information*
4 *is provided under this paragraph.*

5 (B) *A summary of each project carried out*
6 *during the 1-year period preceding the provision*
7 *of information under this paragraph, includ-*
8 *ing—*

9 (i) *key findings and recommendations;*

10 *and*

11 (ii) *a description of how the projects,*
12 *key findings, and recommendations were*
13 *distributed and utilized within the Federal*
14 *Government.*

15 (C) *A description of how the information,*
16 *findings, and recommendations from the projects*
17 *described in subparagraph (B) align with the*
18 *priorities of the Department.*

19 (D) *For each project described in subpara-*
20 *graph (B) beginning after the date of enactment*
21 *of this Act, a breakdown of the number of sci-*
22 *entists from the national laboratories that are*
23 *contributing to the projects and priorities of the*
24 *National Infrastructure Simulation and Anal-*
25 *ysis Center.*

1 (2) *PRIOR DATA.*—Not later than 90 days after
2 the date of enactment of this Act, the Director of the
3 Cybersecurity and Infrastructure Security Agency
4 shall provide a catalog of the projects of the National
5 Infrastructure Simulation and Analysis Center for
6 each of fiscal years 2014 through 2020 to the Com-
7 mittee on Homeland Security and Governmental Af-
8 fairs of the Senate and the Committee on Homeland
9 Security of the House of Representatives.

10 (3) *PANDEMIC PORTFOLIO SUMMARY.*—Not later
11 than 90 days after the date of enactment of this Act,
12 and once each year thereafter for 2 years, the Director
13 of the Cybersecurity and Infrastructure Security
14 Agency shall provide the following information to the
15 Committee on Homeland Security and Governmental
16 Affairs of the Senate and the Committee on Home-
17 land Security of the House of Representatives:

18 (A) All pandemic reports and a summary
19 of pandemic projects of the National Infrastruc-
20 ture Simulation and Analysis Center completed
21 before the date of enactment of this Act, or, in
22 the case of information provided after the first
23 90-day period, a summary of each pandemic
24 project and report completed during the 1-year
25 period covered by the information.

1 (B) A summary of lessons learned from the
2 pandemic reports and projects described in sub-
3 paragraph (A).

4 (C) A summary of how the pandemic re-
5 ports and projects described in subparagraph (A)
6 were used to plan for and respond to the
7 COVID–19 pandemic and national emergency.

8 (D) A description of—

9 (i) how the pandemic reports and
10 projects described in subparagraph (A), and
11 any key findings or recommendations based
12 on such reports and projects, were distrib-
13 uted and utilized within the Federal Gov-
14 ernment; and

15 (ii) the specific agencies to which the
16 information described in clause (i) was dis-
17 tributed.

18 (E) A summary of the projects and prior-
19 ities developed by the National Infrastructure
20 Simulation and Analysis Center during the re-
21 porting periods to assist in the response to the
22 COVID–19 pandemic and national emergency.

23 (F) For each project beginning after the
24 date of enactment of this Act, a breakdown of the
25 number of scientists from the national labora-

1 *tories that are contributing to the pandemic*
2 *projects and priorities of the National Infra-*
3 *structure Simulation and Analysis Center.*

4 *(c) BRIEFING TO CONGRESS.—*

5 *(1) IN GENERAL.—Not later than 180 days after*
6 *the date of enactment of this Act, the Director of the*
7 *Cybersecurity and Infrastructure Security Agency*
8 *shall provide a briefing on current pandemic mod-*
9 *eling, simulation, and analyses of the National Infra-*
10 *structure Simulation and Analysis Center, any addi-*
11 *tional activities supporting these efforts, and how the*
12 *Department of Homeland Security is applying this*
13 *information to current and future COVID–19 pan-*
14 *demic work to the Committee on Homeland Security*
15 *and Governmental Affairs of the Senate and the Com-*
16 *mittee on Homeland Security of the House of Rep-*
17 *resentatives.*

18 *(2) ADDITIONAL BRIEFING.—Not later than 180*
19 *days after the date on which the Director of the Cy-*
20 *bersecurity and Infrastructure Security Agency pro-*
21 *vides the briefing required under paragraph (1), and*
22 *every 180 days thereafter until the date that is 2*
23 *years after the date of enactment of this Act, the Di-*
24 *rector of the Cybersecurity and Infrastructure Secu-*
25 *urity Agency shall provide an updated version of the*

1 *briefing to the Committee on Homeland Security and*
2 *Governmental Affairs of the Senate and the Com-*
3 *mittee on Homeland Security of the House of Rep-*
4 *resentatives.*

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116TH CONGRESS
2D Session

S. 4157

[Report No. 116-266]

A BILL

To amend the Homeland Security Act of 2002 to expand the authority of the National Infrastructure Simulation and Analysis Center, and for other purposes.

SEPTEMBER 9, 2020

Reported with an amendment