(Original Signature of Member)

115TH CONGRESS 2D SESSION H.R.6226

To direct the Secretary of Commerce to provide for civil space situational awareness services and information, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

Mr. SMITH of Texas introduced the following bill; which was referred to the Committee on _____

A BILL

To direct the Secretary of Commerce to provide for civil space situational awareness services and information, 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 "American Space Situa5 tional Awareness and Framework for Entity Management
6 Act" or the "American Space SAFE Management Act".
7 SEC. 2. DEFINITIONS.

8 In this Act:

1	(1) Appropriate committees of con-
2	GRESS.—The term "appropriate committees of Con-
3	gress" means the Committee on Science, Space, and
4	Technology of the House of Representatives and the
5	Committee on Commerce, Science, and Transpor-
6	tation of the Senate.
7	(2) NASA.—The term "NASA" means the Na-
8	tional Aeronautics and Space Administration.
9	SEC. 3. NATIONAL CIVIL SPACE SITUATIONAL AWARENESS
10	AND SPACE TRAFFIC MANAGEMENT SCIENCE
11	AND TECHNOLOGY PLAN.
12	(a) POLICY.—It is the policy of the United States to
13	encourage the coordination of public and private sector
14	science and technology activities to improve space situa-
15	tional awareness and space traffic management.
16	(b) PLAN.—Not later than 180 days after the date
17	of enactment of this Act, the Administrator of NASA, in
18	consultation with other Federal departments and agencies,
19	as appropriate, shall develop and submit to the appro-
20	priate committees of Congress a national civil space situa-
21	tional awareness and space traffic management science
22	and technology plan.
23	(c) PURPOSE.—The Plan developed under subsection
24	(b) shall carry out the policy set forth under subsection

25 (a) by identifying and prioritizing civil space situational

awareness and space traffic management research and de velopment activities in support of the activities to be con ducted pursuant to sections 4 and 5.

4 (d) CONTENTS.—The plan developed under sub-5 section (b) shall include recommendations—

6 (1) to improve coordination among Federal de7 partments and agencies on civil space situational
8 awareness and space traffic management research
9 and development;

10 (2) to promote and facilitate private investment
11 in civil space situational awareness and space traffic
12 management research and development;

(3) to identify current and project future private investment in civil space situational awareness
and space traffic management research and development;

(4) to work proactively with the private sector
to avoid competing with, disincentivizing, or otherwise discouraging private sector research and development investment; and

(5) to prioritize Federal Government investments in civil space situational awareness and space
traffic management research and development to
occur over a 5-year funding period.

(e) AVAILABILITY.—The Administrator shall ensure
 that the plan developed under subsection (b), and any up dates to such plan, are made available on a publicly acces sible website and published in the Federal Register.

5 (f) UPDATED PLAN.—Every 5 years, the Adminis6 trator shall update the plan and submit the updated plan
7 to the appropriate committees of Congress.

8 (g) ANNUAL BUDGET.—In submitting each annual
9 budget request to Congress, the President shall identify
10 activities to implement the plan.

11 (h) CENTER FOR CIVIL SPACE SITUATIONAL AWARE12 NESS AND SPACE TRAFFIC MANAGEMENT SCIENCE AND
13 TECHNOLOGY EXCELLENCE.—

14 (1) ESTABLISHMENT.—The Administrator of
15 NASA shall establish, through a competitive process,
16 a Center for Civil Space Situational Awareness and
17 Space Traffic Management Science and Technology
18 Excellence at a United States academic institution
19 or institutions.

(2) PURPOSE.—The purpose of the Center established under paragraph (1), taking into account
the plan established in this section, shall be to develop, lead, and promote research that furthers civil
space situational awareness, space traffic coordination, and space traffic management.

g:\VHLC\062218\062218.042.xml (698750121) June 22, 2018 (10:27 a.m.) 1 (3) FUNDING.—NASA shall devote not less than \$2,000,000 to carry out this subsection for 2 each of fiscal years 2019 through 2023, subject to 3 4 the availability of appropriations, to come from 5 amounts made available for NASA. This subsection shall be carried out using funds otherwise appro-6 7 priated by law after the date of enactment of this 8 Act. 9 SEC. 4. CIVIL SPACE SITUATIONAL AWARENESS PROGRAM. (a) FINDINGS.—Congress finds that— 10 11 (1) commercial activity in space is accelerating

and the United States has a growing commercial
space market;

(2) the number of launches and satellites in
orbit will grow significantly in the near future, increasing the number of objects, satellites, and debris, and the risk of collisions; and

(3) responsible space operations has large implications for the sustainability of space activities, and
in turn the prosperity and national security of the
United States.

(b) POLICY.—It is the policy of the United States to
establish and maintain a civil space situational awareness
program that provides the public space situational awareness information and services in order to facilitate a safe

operational environment. The Program established under
 subsection (c) shall facilitate and promote opportunities
 for United States private sector providers of space situa tional awareness data, information, and services to partici pate in and contribute to the Program. The Program shall
 promote broad participation from both domestic and inter national spacecraft operators.

8 (c) ESTABLISHMENT.—No later than 1 year after the 9 date of enactment of this Act, the Secretary of Commerce 10 shall establish a civil space situational awareness program (in this section, referred to as the "Program") to provide 11 space situational awareness services and information to, 12 and obtain space situational awareness data and informa-13 14 tion from, eligible entities described under subsection (e), in accordance with this section. 15

16 (d) CONSULTATION.—In developing the Program, the
17 Secretary of Commerce shall consult with—

18 (1) other Federal departments and agencies, as19 the Secretary considers appropriate; and

20 (2) the United States private sector and aca-21 demia.

(e) ELIGIBLE ENTITIES.—The Secretary may provide
services and information under the Program to, and may
obtain data and information from, an entity, including any
of the following:

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1 (1) A State
1 (1) A State.
2 (2) A political subdivision of a State.
3 (3) A United States commercial entity.
(4) The government of a foreign country.
5 (5) A foreign commercial entity.
6 (f) USER FEES.—
7 (1) NO FEE FOR BASIC SET.—In providing
8 space situational awareness services and information
9 under the Program, the Secretary shall provide a
10 basic set of such services and information, as deter-
11 mined by the Secretary, without charging a user fee.
12 (2) Additional services and informa-
13 TION.—The Secretary is authorized to charge a rea-
14 sonable user fee for any additional space situational
15 awareness services and information not provided
16 under paragraph (1).
17 (3) STATUTORY CONSTRUCTION.—Nothing in
18 this subsection shall be construed to preclude private
19 sector entities from charging a user fee for providing
20 space situational awareness services and informa-
tion.
22 (g) Quality of Services and Information.—The
23 Program shall provide space situational awareness services
24 and information that are as good as or better than the
25 services and information provided pursuant to section

1 2274 of title 10, United States Code, as determined by2 the Secretary.

3 (h) SPACE SITUATIONAL AWARENESS DATA TESTBED.—In carrying out the Program, the Secretary 4 shall provide for a space situational awareness data 5 testbed to facilitate innovation in the use of space situa-6 tional awareness data to support space situational aware-7 8 ness services that may be provided by the Federal Govern-9 ment or the private sector. The testbed shall allow the public to access such space situational awareness data, in-10 11 cluding United States Government data, as the Secretary considers appropriate. The Secretary shall place condi-12 tions on such data in consultation with appropriate Fed-13 14 eral departments and agencies to protect United States 15 national security and foreign policy interests.

(i) PROMOTING PRIVATE SECTOR SOLUTIONS.—The
Secretary shall facilitate and promote opportunities for
United States private sector providers of space situational
awareness data, information, and services to participate
in and contribute to the Program.

(j) ROLE OF NASA.—In carrying out the Program,
the Secretary of Commerce may use, on a reimbursable
basis and to the greatest extent practicable, NASA's existing infrastructure, workforce, and experience relating to
space situational awareness, including conjunction assess-

ments that NASA provides for NASA robotic and crewed
 operations.

3 (k) IMMUNITY.—The United States, any agencies and instrumentalities thereof, including the Department of 4 5 Commerce and NASA, and any individuals, firms, cor-6 porations, and other persons acting for the United States. 7 shall be immune from any suit in any court for any cause of action arising from the provision or receipt of space 8 situational awareness services or information, whether or 9 10 not provided in accordance with this section, or any re-11 lated action or omission.

12 (1) QUARTERLY BRIEFING.—The Department of 13 Commerce and NASA shall brief the appropriate commit-14 tees of Congress quarterly, beginning on the date that is 15 3 months after the date of enactment of this Act, on the 16 status of, and all progress, changes, and other develop-17 ments related to, carrying out the Program.

18 (m) PROGRAM USERS.—The Secretary shall, to the 19 maximum extent feasible and as soon as is practicable 20 after the establishment of the Program, engage with and 21 solicit feedback from stakeholders that are contributors to 22 or recipients of space situational awareness services and 23 information under the Program in order to, at a minimum, 24 receive practical information on the effectiveness of the Program and receive recommendations on how to improve
 the Program.

3 (n) STATUTORY CONSTRUCTION.—Nothing in this
4 section may be construed to modify any other authorities
5 for the Federal Government to provide space situational
6 awareness services and information to the public.

7 (o) FUNDING.—The Secretary shall devote no less 8 than \$20,000,000 to carry out this section for each of fis-9 cal years 2019 through 2023, subject to the availability 10 of appropriations, to come from amounts made available 11 for the Office of the Secretary. This section shall be car-12 ried out using funds otherwise appropriated by law after 13 the date of enactment of this Act.

14 SEC. 5. SPACE TRAFFIC MANAGEMENT FRAMEWORK.

15 (a) FINDINGS.—Congress finds the following:

16 (1) The United States has the capability to rap17 idly develop voluntary civil space traffic coordination
18 guidelines, practices, and standards.

(2) It is in the national interest that the United
States leads the world in the development of voluntary civil space traffic coordination guidelines,
practices, and standards in cooperation with the private sector in the United States.

24 (3) The United States should promote the
25 international adoption of such civil space traffic co-

ordination guidelines, practices, and standards devel oped in the United States.

3 (4) Establishing voluntary civil space traffic co4 ordination guidelines, practices, and standards is an
5 important first step in developing a comprehensive
6 space traffic management framework.

7 (b) POLICY.—It is the policy of the United States to
8 timely develop voluntary civil space traffic coordination
9 guidelines, practices, and standards to ensure a safe oper10 ational environment.

11 (c) VOLUNTARY CIVIL SPACE TRAFFIC COORDINA-12 TION GUIDELINES, PRACTICES, AND STANDARDS.—

(1) IN GENERAL.—The Secretary of Commerce
shall, in consultation with appropriate governmental
and nongovernmental entities, promote the development of voluntary civil space traffic coordination
guidelines, practices, and standards to ensure a safe
operational environment.

19 (2) GUIDELINES.—

20 (A) IN GENERAL.—Not later than 1 year
21 after the date of the enactment of this Act, the
22 Secretary of Commerce shall publish voluntary
23 civil space traffic coordination guidelines. Such
24 guidelines shall be developed in consultation
25 with other relevant Federal agencies, domestic

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1 private entities (including entities in the com-
2 mercial sector and institutions of higher edu-
3 cation (as such term is defined in section 101
4 of the Higher Education Act of 1965 (20
5 U.S.C. 1001))).
6 (B) PUBLIC COMMENT.—To facilitate and
7 assure ample opportunity for input from domes-
8 tic private entities specified in subparagraph
9 (A), during the period in which the development
10 of the guidelines under such subparagraph oc-
11 curs, the Secretary of Commerce shall allow for
12 a public comment period to identify key issues,
13 trends, and needs that should be addressed dur-
14 ing the period of that development.
15 (C) USE OF GUIDELINES.—Federal agen-
16 cies operating spacecraft shall, to the extent
17 practicable and taking into account the national
18 security interests of the United States in oper-
19 ating such spacecraft, follow the guidelines
20 issued under subparagraph (A).
(d) Pilot Program.—
(1) IN GENERAL.—Not later than 18 months
23 after the date of enactment of this Act, the Sec-
24 retary of Commerce shall establish a civil space traf-
25 fic coordination pilot program under which the Sec-

1 retary will, using the guidelines, practices, and standards developed under subsection (c) to the 2 3 greatest extent practicable, facilitate communication, 4 coordination, negotiation, and resolution among do-5 mestic and international civil spacecraft operators 6 (including governmental and private entities operating such spacecraft) for the purposes of improving 7 the safety of spaceflight. The Secretary shall, to the 8 greatest extent practicable, incentivize participation 9 10 in the pilot program. Nothing in the preceding sen-11 tence shall be construed as requiring a private entity 12 to participate in such pilot program.

(2) PUBLIC COMMENT.—Before establishing the
pilot program under this subsection, the Secretary of
Commerce shall publish information about the program's details in the Federal Register and allow for
public comment for a reasonable period that ends
before the date of such establishment.

19 (3) DURATION.—The authority to carry out the
20 pilot program under this subsection shall terminate
21 on the date that is 5 years after the pilot program
22 under paragraph (1) is established.

(4) PILOT PROGRAM PARTICIPANTS.—The Secretary shall, to the maximum extent feasible and as
soon as is practicable after the date on which the

pilot program is established under paragraph (1),
 engage with and solicit feedback from pilot program
 participants, in order to, at minimum, receive prac tical information on the effectiveness of the pilot
 program and receive recommendations on how to im prove the pilot program.

7 (5) FUNDING.—The Secretary of Commerce 8 shall devote no less than \$5,000,000 for each of fis-9 cal years 2019 through 2023 to carry out this subsection, subject to the availability of appropriations, 10 11 to come from amounts made available for the Office 12 of the Secretary. This subsection shall be carried out 13 using funds otherwise appropriated by law after the 14 date of enactment of this Act.

- 15 (e) REPORTS.—
- 16 (1) SPACE TRAFFIC COORDINATION STAND-17 ARDS.—Not later than 180 days after the date of 18 the enactment of this Act, the Secretary of Com-19 merce shall submit to the appropriate committees of 20Congress a report on the role the Department of 21 Commerce, including the National Institute of 22 Standards and Technology, will have in the development of civil space traffic coordination standards for 23 24 purposes of promoting innovation and the competitiveness of the United States. 25

1	(2) Report on next steps for space traf-
2	FIC MANAGEMENT FRAMEWORK.—Beginning not
3	later than 1 year after the date of the enactment of
4	this Act and every 2 years thereafter, the Secretary
5	of Commerce shall submit to the appropriate com-
6	mittees of Congress a report on, for the period cov-
7	ered by the report—
8	(A) the state of domestic and international
9	civil space traffic management, including vol-
10	untary or legally binding guidelines, practices,
11	and standards; and
12	(B) the Secretary's recommendations on
13	what steps should be taken by the United
14	States to facilitate further development and
15	adoption of the guidelines, practices, and stand-
16	ards developed under subsection (c) and coordi-
17	nation carried out pursuant to subsection (d).

