

119TH CONGRESS  
1ST SESSION

# H. R. 993

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## AN ACT

To require the Secretary of Homeland Security to develop a plan to identify, integrate, and deploy new, innovative, disruptive, or other emerging or advanced technologies to enhance, or address capability gaps in, border security operations, 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 “Emerging Innovative  
3 Border Technologies Act”.

4 **SEC. 2. INNOVATIVE AND EMERGING BORDER TECH-**  
5 **NOLOGY PLAN.**

6 (a) **IN GENERAL.**—Not later than 180 days after the  
7 date of the enactment of this Act, the Secretary of Home-  
8 land Security, acting through the Commissioner of U.S.  
9 Customs and Border Protection (CBP) and the Under  
10 Secretary for Science and Technology of the Department  
11 of Homeland Security, shall submit to the Committee on  
12 Homeland Security of the House of Representatives and  
13 the Committee on Homeland Security and Governmental  
14 Affairs of the Senate a plan to identify, integrate, and de-  
15 ploy new, innovative, disruptive, or other emerging or ad-  
16 vanced technologies that may incorporate artificial intel-  
17 ligence, machine-learning, automation, fiber-optic sensing  
18 technology, nanotechnology, optical and cognitive radar,  
19 modeling and simulation technology, hyperspectral and  
20 LIDAR sensors, imaging, identification, and categoriza-  
21 tion systems, or other emerging or advanced technologies,  
22 to enhance, or address capability gaps in, border security  
23 operations.

24 (b) **CONTENTS.**—The plan required under subsection  
25 (a) shall include the following:

1           (1) Information regarding how CBP utilizes  
2           CBP Innovation Team authority under subsection  
3           (c) and other mechanisms to carry out the purposes  
4           specified in subsection (a).

5           (2) An assessment of the contributions directly  
6           attributable to such utilization.

7           (3) Information regarding the composition of  
8           each CBP Innovation Team, and how each such  
9           Team coordinates and integrates efforts with the  
10          CBP acquisition program office and other partners  
11          within CBP and the Department of Homeland Secu-  
12          rity.

13          (4) Identification of technologies used by other  
14          Federal departments or agencies not in use by CBP  
15          that could assist in enhancing, or addressing capa-  
16          bility gaps in, border security operations.

17          (5) An analysis of authorities available to CBP  
18          to procure technologies referred to subsection (a),  
19          and an assessment as to whether additional or alter-  
20          native authorities are needed to carry out the pur-  
21          poses specified in such subsection.

22          (6) An explanation of how CBP plans to scale  
23          existing programs related to emerging or advanced  
24          technologies into programs of record.

1           (7) A description of each planned security-re-  
2           lated technology program, including objectives, goals,  
3           and timelines for each such program.

4           (8) An assessment of the privacy and security  
5           impact on border communities of security-related  
6           technology.

7           (9) An assessment of CBP legacy border tech-  
8           nology programs that could be phased out and re-  
9           placed by technologies referred to in subsection (a),  
10          and cost estimates relating to such phase out and  
11          replacement.

12          (10) Information relating to how CBP is coordi-  
13          nating with the Department of Homeland Security's  
14          Science and Technology Directorate to carry out the  
15          following:

16                (A) Research and develop new, innovative,  
17                disruptive, or other emerging or advanced tech-  
18                nologies to carry out the purposes specified in  
19                subsection (a).

20                (B) Identify security-related technologies  
21                that are in development or deployed by the pri-  
22                vate and public sectors that may satisfy the  
23                mission needs of CBP, with or without adapta-  
24                tion.

1           (C) Incentivize the private sector to de-  
2           velop technologies that may help CBP meet  
3           mission needs to enhance, or address capability  
4           gaps in, border security operations.

5           (D) Identify and assess ways to increase  
6           opportunities for communication and collabora-  
7           tion with the private sector, small and dis-  
8           advantaged businesses, intra-governmental enti-  
9           ties, university centers of excellence, and Fed-  
10          eral laboratories to leverage emerging tech-  
11          nology and research within the public and pri-  
12          vate sectors.

13          (11) Information on metrics and key perform-  
14          ance parameters for evaluating the effectiveness of  
15          efforts to identify, integrate, and deploy new, inno-  
16          vative, disruptive, or other emerging or advanced  
17          technologies to carry out the purposes specified in  
18          subsection (a).

19          (12) An identification of recent technological  
20          advancements in the following:

21               (A) Manned aircraft sensor, communica-  
22               tion, and common operating picture technology.

23               (B) Unmanned aerial systems and related  
24               technology, including counter-unmanned aerial  
25               system technology.

1 (C) Surveillance technology, including the  
2 following:

3 (i) Mobile surveillance vehicles.

4 (ii) Associated electronics, including  
5 cameras, sensor technology, and radar.

6 (iii) Tower-based surveillance tech-  
7 nology.

8 (iv) Advanced unattended surveillance  
9 sensors.

10 (v) Deployable, lighter-than-air,  
11 ground surveillance equipment.

12 (D) Nonintrusive inspection technology, in-  
13 cluding non-X-ray devices utilizing muon to-  
14 mography and other advanced detection tech-  
15 nology.

16 (E) Tunnel detection technology.

17 (F) Communications equipment, including  
18 the following:

19 (i) Radios.

20 (ii) Long-term evolution broadband.

21 (iii) Miniature satellites.

22 (13) Any other information the Secretary deter-  
23 mines relevant.

24 (c) CBP INNOVATION TEAM AUTHORITY.—

1           (1) IN GENERAL.—The Commissioner of CBP  
2 is authorized to maintain one or more CBP Innova-  
3 tion Teams to research and adapt commercial tech-  
4 nologies that are new, innovative, disruptive, or oth-  
5 erwise emerging or advanced that may be used by  
6 CBP to enhance, or address capability gaps in, bor-  
7 der security operations and urgent mission needs,  
8 and assess potential outcomes, including any nega-  
9 tive consequences, of the introduction of emerging or  
10 advanced technologies with respect to which docu-  
11 mented capability gaps in border security operations  
12 are yet to be determined.

13           (2) OPERATING PROCEDURES, PLANNING, STRA-  
14 TEGIC GOALS.—The Commissioner of CBP shall re-  
15 quire each team maintained pursuant to paragraph  
16 (1) to establish the following:

17           (A) Operating procedures that include  
18 specificity regarding roles and responsibilities  
19 within each such team and with respect to De-  
20 partment of Homeland Security and non-Fed-  
21 eral partners, and protocols for entering into  
22 agreements to rapidly transition such tech-  
23 nologies to existing or new programs of record  
24 to carry out the purposes specified in subsection  
25 (a).

1 (B) Planning and strategic goals for each  
2 such team that includes projected costs, time  
3 frames, metrics, and key performance param-  
4 eters relating to the achievement of identified  
5 strategic goals, including a metric to measure  
6 the rate at which technologies described in sub-  
7 section (a) are transitioned to existing or new  
8 programs of record in accordance with subpara-  
9 graph (A).

10 (3) REPORTING.—Not later than 180 days after  
11 the date of the enactment of this Act and annually  
12 thereafter, the Commissioner of CBP shall submit to  
13 the Committee on Homeland Security of the House  
14 of Representatives and the Committee on Homeland  
15 Security and Governmental Affairs of the Senate in-  
16 formation relating to the activities of CBP Innova-  
17 tion Teams, including information regarding the fol-  
18 lowing:

19 (A) Copies of operating procedures and  
20 protocols under paragraph (2)(A) and planning  
21 and strategic goals required under paragraph  
22 (2)(B).

23 (B) Descriptions of the technologies piloted  
24 by each such team over the immediately pre-  
25 ceding fiscal year, including information regard-



1           ing which such technologies are determined suc-  
2           cessful and an identification of documented ca-  
3           pability gaps that are addressed.

4           (C) Information on the status of efforts to  
5           rapidly transition technologies determined suc-  
6           cessful to existing or new programs of record.

Passed the House of Representatives March 10,  
2025.

Attest:

*Clerk.*

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