

116<sup>TH</sup> CONGRESS  
2<sup>D</sup> SESSION

# H. R. 8132

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IN THE SENATE OF THE UNITED STATES

SEPTEMBER 30 (legislative day, SEPTEMBER 29), 2020

Received; read twice and referred to the Committee on Commerce, Science,  
and Transportation

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## AN ACT

To require the Federal Trade Commission and the Secretary of Commerce to conduct studies and submit reports on the impact of artificial intelligence and other technologies on United States businesses conducting interstate commerce, 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; TABLE OF CONTENTS.**

2 (a) SHORT TITLE.—This Act may be cited as the  
3 “American Competitiveness Of a More Productive Emerg-  
4 ing Tech Economy Act” or the “American COMPETE  
5 Act”.

6 (b) TABLE OF CONTENTS.—The table of contents for  
7 this Act is as follows:

- Sec. 1. Short title; table of contents.
- Sec. 2. Study to advance artificial intelligence.
- Sec. 3. Study to advance internet of things in manufacturing.
- Sec. 4. Study to advance quantum computing.
- Sec. 5. Study to advance blockchain technology.
- Sec. 6. Study to advance new and advanced materials.
- Sec. 7. Study to advance unmanned delivery services.
- Sec. 8. Study to advance internet of things.
- Sec. 9. Study to advance three-dimensional printing.
- Sec. 10. Study to combat online harms through innovation.

8 **SEC. 2. STUDY TO ADVANCE ARTIFICIAL INTELLIGENCE.**

9 (a) IN GENERAL.—

10 (1) STUDY REQUIRED.—Not later than 1 year  
11 after the date of enactment of this Act, the Sec-  
12 retary of Commerce and the Federal Trade Commis-  
13 sion shall complete a study on the state of the artifi-  
14 cial intelligence industry and the impact of such in-  
15 dustry on the United States economy.

16 (2) REQUIREMENTS FOR STUDY.—In con-  
17 ducting the study, the Secretary and the Commis-  
18 sion shall—

19 (A) develop and conduct a survey of the  
20 artificial intelligence industry through outreach  
21 to participating entities as appropriate to—

- 1 (i) establish a list of industry sectors  
2 that implement and promote the use of ar-  
3 tificial intelligence;
- 4 (ii) establish a list of public-private  
5 partnerships focused on promoting the  
6 adoption and use of artificial intelligence,  
7 as well as industry-based bodies, including  
8 international bodies, which have developed,  
9 or are developing, mandatory or voluntary  
10 standards for artificial intelligence;
- 11 (iii) the status of such industry-based  
12 mandatory or voluntary standards; and
- 13 (iv) provide a description of the ways  
14 entities or industry sectors implement and  
15 promote the use of artificial intelligence;
- 16 (B) develop a comprehensive list of Federal  
17 agencies with jurisdiction over the entities and  
18 industry sectors identified under subparagraph  
19 (A);
- 20 (C) identify which Federal agency or agen-  
21 cies listed under subparagraph (B) each entity  
22 or industry sector interacts with;
- 23 (D) identify all interagency activities that  
24 are taking place among the Federal agencies

1 listed under subparagraph (B), such as working  
2 groups or other coordinated efforts;

3 (E) develop a brief description of the juris-  
4 diction and expertise of the Federal agencies  
5 listed under subparagraph (B) with regard to  
6 such entities and industry sectors;

7 (F) identify all regulations, guidelines,  
8 mandatory standards, voluntary standards, and  
9 other policies implemented by each of the Fed-  
10 eral agencies identified under subparagraph  
11 (B), as well as all guidelines, mandatory stand-  
12 ards, voluntary standards, and other policies  
13 implemented by industry-based bodies; and

14 (G) identify Federal Government resources  
15 that exist for consumers and small businesses  
16 to evaluate the use of artificial intelligence.

17 (b) MARKETPLACE AND SUPPLY CHAIN SURVEY.—  
18 The Secretary and Commission shall conduct a survey of  
19 the marketplace and supply chain of artificial intelligence  
20 to—

21 (1) assess the severity of risks posed to such  
22 marketplace and supply chain;

23 (2) review the ability of foreign governments or  
24 third parties to exploit the supply chain in a manner

1 that raises risks to the economic and national secu-  
2 rity of the United States; and

3 (3) identify emerging risks and long-term  
4 trends in such marketplace and supply chain.

5 (c) REPORT TO CONGRESS.—Not later than 6  
6 months after the completion of the study required under  
7 subsection (a), the Secretary and the Commission shall  
8 submit to the Committee on Energy and Commerce and  
9 the Committee on Science, Space, and Technology of the  
10 House of Representatives, and the Committee on Com-  
11 merce, Science, and Transportation of the Senate, and  
12 make publicly available on their respective websites, a re-  
13 port that contains—

14 (1) the results of the study conducted pursuant  
15 to subsection (a) and the survey conducted pursuant  
16 to subsection (b); and

17 (2) recommendations to—

18 (A) grow the United States economy  
19 through the secure advancement of artificial in-  
20 telligence;

21 (B) develop a national strategy to advance  
22 the United States business sectors' position in  
23 the world on the adoption of artificial intel-  
24 ligence;

1 (C) develop strategies to mitigate current  
2 and emerging risks to the marketplace and sup-  
3 ply chain of artificial intelligence; and

4 (D) develop legislation that may advance  
5 the expeditious adoption of artificial intel-  
6 ligence.

7 **SEC. 3. STUDY TO ADVANCE INTERNET OF THINGS IN MAN-**  
8 **UFACTURING.**

9 (a) IN GENERAL.—

10 (1) STUDY REQUIRED.—Not later than 1 year  
11 after the date of enactment of this Act, the Sec-  
12 retary of Commerce, in coordination with the head  
13 of any other appropriate Federal agency, shall com-  
14 plete a study on the state of manufacturing in the  
15 United States.

16 (2) REQUIREMENTS FOR STUDY.—In con-  
17 ducting the study, the Secretary shall—

18 (A) develop and conduct a survey of the  
19 manufacturing industry through outreach to  
20 participating entities as appropriate to—

21 (i) establish a list of the industry sec-  
22 tors that implement and promote the use  
23 of internet-connected devices and internet-  
24 connected solutions in manufacturing;

- 1           (ii) establish a list of public-private  
2           partnerships focused on promoting the  
3           adoption and use of internet-connected de-  
4           vices and internet-connected solutions in  
5           manufacturing, as well as industry-based  
6           bodies, including international bodies, that  
7           have developed, or are developing, manda-  
8           tory or voluntary standards for such uses;
- 9           (iii) the status of such industry-based  
10          mandatory or voluntary standards;
- 11          (iv) provide a description of the ways  
12          entities or industry sectors implement and  
13          promote the use of internet-connected de-  
14          vices and internet-connected solutions in  
15          manufacturing;
- 16          (B) develop a comprehensive list of Federal  
17          agencies with jurisdiction over the entities and  
18          industry sectors identified under subparagraph  
19          (A);
- 20          (C) identify which Federal agency or agen-  
21          cies listed under subparagraph (B) each entity  
22          or industry sector interacts with;
- 23          (D) identify all interagency activities that  
24          are taking place among the Federal agencies

1 listed under subparagraph (B), such as working  
2 groups or other coordinated efforts;

3 (E) develop a brief description of the juris-  
4 diction and expertise of the Federal agencies  
5 listed under subparagraph (B) with regard to  
6 such entities and industry sectors;

7 (F) identify all regulations, guidelines,  
8 mandatory standards, voluntary standards, and  
9 other policies implemented by each of the Fed-  
10 eral agencies identified under subparagraph  
11 (B), as well as all guidelines, mandatory stand-  
12 ards, voluntary standards, and other policies  
13 implemented by industry-based bodies; and

14 (G) identify Federal Government resources  
15 that exist for consumers and small businesses  
16 to evaluate the use of internet-connected devices  
17 and internet-connected solutions in manufac-  
18 turing.

19 (b) MARKETPLACE AND SUPPLY CHAIN SURVEY.—

20 The Secretary shall conduct a survey of the marketplace  
21 and supply chain of internet-connected devices and inter-  
22 net-connected solutions used in manufacturing to—

23 (1) assess the severity of risks posed to such  
24 marketplace and supply chain;



1           (2) review the ability of foreign governments or  
2           third parties to exploit the supply chain in a manner  
3           that raises risks to the economic and national secu-  
4           rity of the United States; and

5           (3) identify emerging risks and long-term  
6           trends in such marketplace and supply chain.

7           (c) REPORT TO CONGRESS.—Not later than 6  
8           months after the completion of the study required pursu-  
9           ant to subsection (a), the Secretary shall submit to the  
10          Committee on Energy and Commerce and the Committee  
11          on Science, Space, and Technology of the House of Rep-  
12          resentatives, and the Committee on Commerce, Science,  
13          and Transportation of the Senate, and make publicly  
14          available on the website of the Department of Commerce,  
15          a report that contains—

16                (1) the results of the study conducted pursuant  
17                to subsection (a) and the surveys conducted pursu-  
18                ant to subsection (b); and

19                (2) recommendations to—

20                    (A) grow the United States economy  
21                    through the secure advancement of the use of  
22                    internet-connected devices and internet-con-  
23                    nected solutions in manufacturing;

24                    (B) develop a national strategy to advance  
25                    the United States business sectors' position in

1 the world on the adoption of internet-connected  
2 devices and internet-connected solutions used in  
3 manufacturing;

4 (C) develop strategies to mitigate current  
5 and emerging risks to the marketplace and sup-  
6 ply chain of internet-connected devices and  
7 internet-connected solutions used in manufac-  
8 turing;

9 (D) develop policies that States can adopt  
10 to encourage the growth of manufacturing, in-  
11 cluding the use of internet-connected devices  
12 and internet-connected solutions in manufac-  
13 turing; and

14 (E) develop legislation that may advance  
15 the expeditious adoption of the use of internet-  
16 connected devices and internet-connected solu-  
17 tions in manufacturing;

18 **SEC. 4. STUDY TO ADVANCE QUANTUM COMPUTING.**

19 (a) IN GENERAL.—

20 (1) STUDY REQUIRED.—Not later than 1 year  
21 after the date of enactment of this Act, the Sec-  
22 retary of Commerce and the Federal Trade Commis-  
23 sion shall complete a study on the state of the quan-  
24 tum computing industry and the impact of such in-  
25 dustry on the United States economy.

1           (2) REQUIREMENTS FOR STUDY.—In con-  
2     ducting the study, the Secretary and the Commis-  
3     sion shall—

4           (A) develop and conduct a survey of the  
5     quantum computing industry through outreach  
6     to participating entities as appropriate to—

7           (i) establish a list of industry sectors  
8     that implement and promote the use of  
9     quantum computing;

10          (ii) establish a list of public-private  
11     partnerships focused on promoting the  
12     adoption and use of quantum computing,  
13     as well as industry-based bodies, including  
14     international bodies, which have developed,  
15     or are developing, mandatory or voluntary  
16     standards for quantum computing;

17          (iii) the status of such industry-based  
18     mandatory or voluntary standards; and

19          (iv) provide a description of the ways  
20     entities or industry sectors implement and  
21     promote the use of quantum computing;

22          (B) develop a comprehensive list of Federal  
23     agencies with jurisdiction over the entities and  
24     industry sectors identified under paragraph (A);

1 (C) identify which Federal agency or agen-  
2 cies listed under subparagraph (B) each entity  
3 or industry sector interacts with;

4 (D) identify all interagency activities that  
5 are taking place among the Federal agencies  
6 listed under subparagraph (B), such as working  
7 groups or other coordinated efforts;

8 (E) develop a brief description of the juris-  
9 diction and expertise of the Federal agencies  
10 listed under subparagraph (B) with regard to  
11 such entities and industry sectors;

12 (F) identify all regulations, guidelines,  
13 mandatory standards, voluntary standards, and  
14 other policies implemented by each of the Fed-  
15 eral agencies identified under subparagraph  
16 (B), as well as all guidelines, mandatory stand-  
17 ards, voluntary standards, and other policies  
18 implemented by industry-based bodies; and

19 (G) identify Federal Government resources  
20 that exist for consumers and small businesses  
21 to evaluate the use of quantum computing.

22 (b) MARKETPLACE AND SUPPLY CHAIN SURVEY.—  
23 The Secretary and Commission shall conduct a survey of  
24 the marketplace and supply chain of quantum computing  
25 to—

1           (1) assess the severity of risks posed to such  
2 marketplace and supply chain;

3           (2) review the ability of foreign governments or  
4 third parties to exploit the supply chain in a manner  
5 that raises risks to the economic and national secu-  
6 rity of the United States; and

7           (3) identify emerging risks and long-term  
8 trends in such marketplace and supply chain.

9       (c) REPORT TO CONGRESS.—Not later than 6  
10 months after the completion of the study required pursu-  
11 ant to subsection (a), the Secretary and the Commission  
12 shall submit to the Committee on Energy and Commerce  
13 and the Committee on Science, Space, and Technology of  
14 the House of Representatives, and the Committee on Com-  
15 merce, Science, and Transportation of the Senate, and  
16 make publicly available on their respective websites, a re-  
17 port that contains—

18           (1) the results of the study conducted pursuant  
19 to subsection (a) and the survey conducted pursuant  
20 to subsection (b); and

21           (2) recommendations to—

22               (A) grow the United States economy  
23 through the secure advancement of quantum  
24 computing;

1 (B) develop a national strategy to advance  
2 the United States business sectors' position in  
3 the world on the adoption of quantum com-  
4 puting;

5 (C) develop strategies to mitigate current  
6 and emerging risks to the marketplace and sup-  
7 ply chain of quantum computing; and

8 (D) develop legislation that may advance  
9 the expeditious adoption of quantum com-  
10 puting.

11 **SEC. 5. STUDY TO ADVANCE BLOCKCHAIN TECHNOLOGY.**

12 (a) IN GENERAL.—

13 (1) STUDY REQUIRED.—Not later than 1 year  
14 after the date of enactment of this Act, the Sec-  
15 retary of Commerce and the Federal Trade Commis-  
16 sion shall complete a study on the state of the  
17 blockchain technology industry and the impact of  
18 such industry on the United States economy.

19 (2) REQUIREMENTS FOR STUDY.—In con-  
20 ducting the study, the Secretary and the Commis-  
21 sion shall—

22 (A) develop and conduct a survey of the  
23 blockchain technology industry through out-  
24 reach to participating entities as appropriate  
25 to—

- 1 (i) establish a list of industry sectors  
2 that implement and promote the use of  
3 blockchain technology;
- 4 (ii) establish a list of public-private  
5 partnerships focused on promoting the  
6 adoption and use of blockchain technology,  
7 as well as industry-based bodies, including  
8 international bodies, which have developed,  
9 or are developing, mandatory or voluntary  
10 standards for blockchain technology;
- 11 (iii) the status of such industry-based  
12 mandatory or voluntary standards; and
- 13 (iv) provide a description of the ways  
14 entities or industry sectors implement and  
15 promote the use of blockchain technology;
- 16 (B) develop a comprehensive list of Federal  
17 agencies with jurisdiction over the entities and  
18 industry sectors identified under paragraph (A);
- 19 (C) identify which Federal agency or agen-  
20 cies listed under subparagraph (B) each entity  
21 or industry sector interacts with;
- 22 (D) identify all interagency activities that  
23 are taking place among the Federal agencies  
24 listed under subparagraph (B), such as working  
25 groups or other coordinated efforts;

1 (E) develop a brief description of the juris-  
2 diction and expertise of the Federal agencies  
3 listed under subparagraph (B) with regard to  
4 such entities and industry sectors;

5 (F) identify all regulations, guidelines,  
6 mandatory standards, voluntary standards, and  
7 other policies implemented by each of the Fed-  
8 eral agencies identified under subparagraph  
9 (B), as well as all guidelines, mandatory stand-  
10 ards, voluntary standards, and other policies  
11 implemented by industry-based bodies; and

12 (G) identify Federal Government resources  
13 that exist for consumers and small businesses  
14 to evaluate the use of blockchain technology.

15 (b) MARKETPLACE AND SUPPLY CHAIN SURVEY.—  
16 The Secretary and Commission shall conduct a survey of  
17 the marketplace and supply chain of blockchain technology  
18 to—

19 (1) assess the severity of risks posed to such  
20 marketplace and supply chain;

21 (2) review the ability of foreign governments or  
22 third parties to exploit the supply chain in a manner  
23 that raises risks to the economic and national secu-  
24 rity of the United States; and



1           (3) identify emerging risks and long-term  
2 trends in such marketplace and supply chain.

3           (c) REPORT TO CONGRESS.—Not later than 6  
4 months after the completion of the study required pursu-  
5 ant to subsection (a), the Secretary and the Commission  
6 shall submit to the Committee on Energy and Commerce  
7 and the Committee on Science, Space, and Technology of  
8 the House of Representatives, and the Committee on Com-  
9 merce, Science, and Transportation of the Senate, and  
10 make publicly available on their respective websites, a re-  
11 port that contains—

12           (1) the results of the study conducted pursuant  
13 to subsection (a) and the survey conducted pursuant  
14 to subsection (b); and

15           (2) recommendations to—

16           (A) grow the United States economy  
17 through the secure advancement of blockchain  
18 technology;

19           (B) develop a national strategy to advance  
20 the United States business sectors' position in  
21 the world on the adoption of blockchain tech-  
22 nology;

23           (C) develop strategies to mitigate current  
24 and emerging risks to the marketplace and sup-  
25 ply chain of blockchain technology; and

1 (D) develop legislation that may advance  
2 the expeditious adoption of blockchain tech-  
3 nology.

4 **SEC. 6. STUDY TO ADVANCE NEW AND ADVANCED MATE-**  
5 **RIALS.**

6 (a) IN GENERAL.—

7 (1) STUDY REQUIRED.—Not later than 1 year  
8 after the date of enactment of this Act, the Sec-  
9 retary of Commerce and the Federal Trade Commis-  
10 sion, in coordination with the head of any other ap-  
11 propriate Federal agency, shall complete a study on  
12 the state of new and advanced materials industry,  
13 including synthetically derived or enhanced natural  
14 properties, and the impact of such industry on the  
15 United States economy.

16 (2) REQUIREMENTS FOR STUDY.—In con-  
17 ducting the study, the Secretary and the Commis-  
18 sion shall—

19 (A) develop and conduct a survey of the  
20 new and advanced materials industry through  
21 outreach to participating entities as appropriate  
22 to—

23 (i) establish a list of industry sectors  
24 that implement and promote the use of  
25 new and advanced materials;

1           (ii) establish a list of public-private  
2           partnerships focused on promoting the  
3           adoption and use of new and advanced ma-  
4           terials, as well as industry-based bodies,  
5           including international bodies, which have  
6           developed, or are developing, mandatory or  
7           voluntary standards for new and advanced  
8           materials;

9           (iii) the status of such industry-based  
10          mandatory or voluntary standards; and

11          (iv) provide a description of the ways  
12          entities or industry sectors implement and  
13          promote the use of new and advanced ma-  
14          terials;

15          (B) develop a comprehensive list of Federal  
16          agencies with jurisdiction over the entities and  
17          industry sectors identified under subparagraph  
18          (A);

19          (C) identify which Federal agency or agen-  
20          cies listed under subparagraph (B) each entity  
21          or industry sector interacts with;

22          (D) identify all interagency activities that  
23          are taking place among the Federal agencies  
24          listed under subparagraph (B), such as working  
25          groups or other coordinated efforts;

1           (E) develop a brief description of the juris-  
2           diction and expertise of the Federal agencies  
3           listed under subparagraph (B) with regard to  
4           such entities and industry sectors;

5           (F) identify all regulations, guidelines,  
6           mandatory standards, voluntary standards, and  
7           other policies implemented by each of the Fed-  
8           eral agencies identified under subparagraph  
9           (B), as well as all guidelines, mandatory stand-  
10          ards, voluntary standards, and other policies  
11          implemented by industry-based bodies; and

12          (G) identify Federal Government resources  
13          that exist for consumers and small businesses  
14          to evaluate the use of new and advanced mate-  
15          rials.

16          (b) MARKETPLACE AND SUPPLY CHAIN SURVEY.—

17          The Secretary and Commission shall conduct a survey of  
18          the marketplace and supply chain of new and advanced  
19          materials to—

20                (1) assess the severity of risks posed to such  
21                marketplace and supply chain;

22                (2) review the ability of foreign governments or  
23                third parties to exploit the supply chain in a manner  
24                that raises risks to the economic and national secu-  
25                rity of the United States; and

1           (3) identify emerging risks and long-term  
2 trends in such marketplace and supply chain.

3           (c) REPORT TO CONGRESS.—Not later than 6  
4 months after the completion of the study required pursu-  
5 ant to subsection (a), the Secretary and the Commission  
6 shall submit to the Committee on Energy and Commerce  
7 and the Committee on Science, Space, and Technology of  
8 the House of Representatives, and the Committee on Com-  
9 merce, Science, and Transportation of the Senate, and  
10 make publicly available on their respective websites, a re-  
11 port that contains—

12           (1) the results of the study conducted pursuant  
13 to subsection (a) and the survey conducted pursuant  
14 to subsection (b); and

15           (2) recommendations to—

16           (A) grow the United States economy  
17 through the secure advancement of new and ad-  
18 vanced materials;

19           (B) develop a national strategy to advance  
20 the United States business sectors' position in  
21 the world on the adoption of new and advanced  
22 materials;

23           (C) develop strategies to mitigate current  
24 and emerging risks to the marketplace and sup-  
25 ply chain of new and advanced materials; and

1 (D) develop legislation that may advance  
2 the expeditious adoption of new and advanced  
3 materials.

4 **SEC. 7. STUDY TO ADVANCE UNMANNED DELIVERY SERV-**  
5 **ICES.**

6 (a) IN GENERAL.—

7 (1) STUDY REQUIRED.—Not later than 1 year  
8 after the date of enactment of this Act, the Sec-  
9 retary of Commerce, in coordination with the head  
10 of any other appropriate Federal agency, shall com-  
11 plete a study on the impact of unmanned delivery  
12 services on United States businesses conducting  
13 interstate commerce.

14 (2) REQUIREMENTS FOR STUDY.—In con-  
15 ducting the study, the Secretary shall do the fol-  
16 lowing:

17 (A) Conduct a survey through outreach to  
18 participating entities to—

19 (i) establish a list of the industry sec-  
20 tors that develop and use unmanned deliv-  
21 ery services, including the use of autono-  
22 mous vehicles, drones, and robots;

23 (ii) review how unmanned delivery  
24 services are currently being used and any

1 potential future applications of such serv-  
2 ices;

3 (iii) identify any challenges to the de-  
4 velopment and adoption of unmanned de-  
5 livery services;

6 (iv) review how such services may be  
7 used to—

8 (I) deliver groceries, meals, medi-  
9 cations, and other necessities to senior  
10 citizens, people with disabilities, and  
11 people without access to traditional  
12 public transportation;

13 (II) address challenges public  
14 health emergencies present, including  
15 delivering groceries, meals, medica-  
16 tions, medical supplies, and other ne-  
17 cessities during such emergencies; and

18 (III) any other potential use of  
19 such services;

20 (v) identify any safety risks associated  
21 with the adoption of unmanned delivery  
22 services on roads, in the air, or other envi-  
23 ronments, including any dangers posed to  
24 pedestrians, bicyclists, motorcycleists, mo-  
25 torists, or property;

1 (vi) identify the effect of unmanned  
2 delivery services on traffic safety and con-  
3 gestion;

4 (vii) evaluate the extent to which soft-  
5 ware, technology, and infrastructure be-  
6 hind unmanned delivery services are devel-  
7 oped and manufactured in the United  
8 States;

9 (viii) identify the number and types of  
10 jobs that may be lost or substantially  
11 changed due to the development and adop-  
12 tion of unmanned delivery services;

13 (ix) identify the number and types of  
14 jobs that may be created due to the devel-  
15 opment and adoption of unmanned delivery  
16 services; and

17 (x) evaluate the effect of the adoption  
18 unmanned delivery services on job quality  
19 for low, middle, and high-skilled workers.

20 (B) Develop and conduct a survey of Fed-  
21 eral activity related to unmanned delivery serv-  
22 ices to—

23 (i) establish a list of Federal agencies  
24 asserting jurisdiction over industry sectors  
25 identified under subparagraph (A)(i);



1 (ii) develop a brief description of the  
2 jurisdiction and expertise of the Federal  
3 agencies regarding unmanned delivery  
4 services; and

5 (iii) identify all interagency activities  
6 regarding unmanned delivery services.

7 (C) Conduct a survey of the marketplace  
8 and supply chain of unmanned delivery services  
9 to—

10 (i) assess the severity of risks posed  
11 to such marketplace and supply chain;

12 (ii) review the ability of foreign gov-  
13 ernments or third parties to exploit such  
14 supply chain in a manner that raises risks  
15 to the economic and national security of  
16 the United States; and

17 (iii) identify emerging risks and long-  
18 term trends in such marketplace and sup-  
19 ply chain.

20 (b) REPORT TO CONGRESS.—Not later than 6  
21 months after the completion of the study required pursu-  
22 ant to subsection (a), the Secretary, in coordination with  
23 the head of any other appropriate Federal agency, shall  
24 submit to the Committee on Energy and Commerce and  
25 the Committee on Science, Space, and Technology of the

1 House of Representatives, and the Committee on Com-  
2 merce, Science, and Transportation of the Senate, and  
3 make publicly available on the website of the Department  
4 of Commerce, a report that contains—

5 (1) the results of the study conducted under  
6 subsection (a); and

7 (2) recommendations to—

8 (A) develop and implement a comprehen-  
9 sive plan to promote the development and adop-  
10 tion of unmanned delivery services in the  
11 United States;

12 (B) develop policies that States can adopt  
13 to encourage the development and adoption of  
14 unmanned delivery services;

15 (C) develop a national strategy to advance  
16 the United States position in the world on the  
17 development and adoption of unmanned delivery  
18 services, and manufacture of technology behind  
19 unmanned delivery services;

20 (D) develop strategies to mitigate current  
21 and emerging risks to the marketplace and sup-  
22 ply chain of unmanned delivery services; and

23 (E) develop legislation to accomplish such  
24 recommendations.

1 **SEC. 8. STUDY TO ADVANCE INTERNET OF THINGS.**

2 (a) STUDY.—The Secretary of Commerce shall con-  
3 duct a study on the state of the internet-connected devices  
4 industry (commonly known as the “Internet of Things”)  
5 in the United States. In conducting the study, the Sec-  
6 retary shall—

7 (1) develop and conduct a survey of the inter-  
8 net-connected devices industry through outreach to  
9 participating entities as appropriate, including—

10 (A) a list of the industry sectors that de-  
11 velop internet-connected devices;

12 (B) a list of public-private partnerships fo-  
13 cused on promoting the adoption and use of  
14 internet-connected devices, as well as industry-  
15 based bodies, including international bodies,  
16 which have developed, or are developing, man-  
17 datory or voluntary standards for internet-con-  
18 nected devices;

19 (C) the status of the industry-based man-  
20 datory or voluntary standards identified in sub-  
21 paragraph (B); and

22 (D) a description of the ways entities or  
23 industry sectors develop, use, or promote the  
24 use of internet-connected devices;

1           (2) develop a comprehensive list of Federal  
2 agencies with jurisdiction over the entities and in-  
3 dustry sectors identified under paragraph (1);

4           (3) identify which Federal agency or agencies  
5 listed under paragraph (2) each entity or industry  
6 sector interacts with;

7           (4) identify all interagency activities that are  
8 taking place among the Federal agencies listed  
9 under paragraph (2), such as working groups or  
10 other coordinated efforts;

11          (5) develop a brief description of the jurisdic-  
12 tion and expertise of the Federal agencies listed  
13 under paragraph (2) with regard to such entities  
14 and industry sectors;

15          (6) identify all regulations, guidelines, manda-  
16 tory standards, voluntary standards, and other poli-  
17 cies implemented by each of the Federal agencies  
18 identified under paragraph (2), as well as all guide-  
19 lines, mandatory standards, voluntary standards,  
20 and other policies implemented by industry-based  
21 bodies; and

22          (7) identify Federal Government resources that  
23 exist for consumers and small businesses to evaluate  
24 internet-connected devices.

1 (b) REPORT TO CONGRESS.—Not later than 1 year  
2 after the date of enactment of this Act, the Secretary shall  
3 submit to the Committee on Energy and Commerce and  
4 the Committee on Science, Space, and Technology of the  
5 House of Representatives, and the Committee on Com-  
6 merce, Science, and Transportation of the Senate, and  
7 make publicly available on the website of the Department  
8 of Commerce, a report that contains—

9 (1) the results of the study conducted under  
10 subsection (a); and

11 (2) recommendations of the Secretary for  
12 growth of the United States economy through the  
13 secure advancement of internet-connected devices.

14 (c) DEFINITIONS.—In this section—

15 (1) the term “Federal agency” means an agen-  
16 cy, as defined in section 551 of title 5, United States  
17 Code; and

18 (2) the term “internet-connected device” means  
19 a physical object that—

20 (A) is capable of connecting to the inter-  
21 net, either directly or indirectly through a net-  
22 work, to communicate information at the direc-  
23 tion of an individual; and

1 (B) has computer processing capabilities  
2 for collecting, sending, receiving, or analyzing  
3 data.

4 **SEC. 9. STUDY TO ADVANCE THREE-DIMENSIONAL PRINT-**  
5 **ING.**

6 (a) IN GENERAL.—

7 (1) STUDY REQUIRED.—Not later than 1 year  
8 after the date of enactment of this Act, the Sec-  
9 retary of Commerce, in coordination with the head  
10 of any other appropriate Federal agency, shall com-  
11 plete a study on the state of the three-dimensional  
12 printing industry and the impact of such industry on  
13 the United States economy.

14 (2) REQUIREMENTS FOR STUDY.—In con-  
15 ducting the study, the Secretary shall—

16 (A) develop and conduct a survey of the  
17 three-dimensional printing industry through  
18 outreach to participating entities as appropriate  
19 to—

20 (i) establish a list of industry sectors  
21 that implement and promote the use of  
22 three-dimensional printing;

23 (ii) establish a list of public-private  
24 partnerships focused on promoting the  
25 adoption and use of three-dimensional

1 printing, as well as industry-based bodies,  
2 including international bodies, which have  
3 developed, or are developing, mandatory or  
4 voluntary standards for three-dimensional  
5 printing;

6 (iii) the status of such industry-based  
7 mandatory or voluntary standards; and

8 (iv) provide a description of the ways  
9 entities or industry sectors implement and  
10 promote the use of three-dimensional  
11 printing;

12 (B) develop a comprehensive list of Federal  
13 agencies with jurisdiction over the entities and  
14 industry sectors identified under paragraph (A);

15 (C) identify which Federal agency or agen-  
16 cies listed under subparagraph (B) each entity  
17 or industry sector interacts with;

18 (D) identify all interagency activities that  
19 are taking place among the Federal agencies  
20 listed under subparagraph (B), such as working  
21 groups or other coordinated efforts;

22 (E) develop a brief description of the juris-  
23 diction and expertise of the Federal agencies  
24 listed under subparagraph (B) with regard to  
25 such entities and industry sectors;

1           (F) identify all regulations, guidelines,  
2           mandatory standards, voluntary standards, and  
3           other policies implemented by each of the Fed-  
4           eral agencies identified under subparagraph  
5           (B), as well as all guidelines, mandatory stand-  
6           ards, voluntary standards, and other policies  
7           implemented by industry-based bodies; and

8           (G) identify Federal Government resources  
9           that exist for consumers and small businesses  
10          to evaluate the use of three-dimensional print-  
11          ing.

12          (b) MARKETPLACE AND SUPPLY CHAIN SURVEY.—  
13          The Secretary shall conduct a survey of the marketplace  
14          and supply chain of three-dimensional printing to—

15               (1) assess the severity of risks posed to such  
16               marketplace and supply chain;

17               (2) review the ability of foreign governments or  
18               third parties to exploit the supply chain in a manner  
19               that raises risks to the economic and national secu-  
20               rity of the United States; and

21               (3) identify emerging risks and long-term  
22               trends in such marketplace and supply chain.

23          (c) REPORT TO CONGRESS.—Not later than 6  
24          months after the completion of the study required pursu-  
25          ant to subsection (a), the Secretary shall submit to the



1 Committee on Energy and Commerce and the Committee  
2 on Science, Space, and Technology of the House of Rep-  
3 resentatives, and the Committee on Commerce, Science,  
4 and Transportation of the Senate, and make publicly  
5 available on the website of the Department of Commerce,  
6 a report that contains—

7           (1) the results of the study conducted pursuant  
8           to subsection (a) and the survey conducted pursuant  
9           to subsection (b); and

10           (2) recommendations to—

11                 (A) grow the United States economy  
12                 through the secure advancement of three-di-  
13                 mensional printing;

14                 (B) develop a national strategy to advance  
15                 the United States business sectors' position in  
16                 the world on the adoption of three-dimensional  
17                 printing;

18                 (C) develop strategies to mitigate current  
19                 and emerging risks to the marketplace and sup-  
20                 ply chain of three-dimensional printing; and

21                 (D) develop legislation that may advance  
22                 the expeditious adoption of three-dimensional  
23                 printing.

1 **SEC. 10. STUDY TO COMBAT ONLINE HARMS THROUGH IN-**  
2 **NOVATION.**

3 (a) IN GENERAL.—

4 (1) STUDY REQUIRED.—Not later than 1 year  
5 after the date of enactment of this Act, the Federal  
6 Trade Commission shall conduct and complete a  
7 study on how artificial intelligence may be used to  
8 address the online harms described in paragraph  
9 (2).

10 (2) REQUIREMENTS FOR STUDY.—In con-  
11 ducting the study, the Commission shall consider  
12 whether and how artificial intelligence may be used  
13 to identify, remove, or take any other appropriate  
14 action necessary to address the following online  
15 harms:

16 (A) Deceptive and fraudulent content in-  
17 tended to scam or otherwise harm individuals,  
18 including such practices directed at senior citi-  
19 zens.

20 (B) Manipulated content intended to mis-  
21 lead individuals, including deepfake videos and  
22 fake individual reviews.

23 (C) Website or mobile application inter-  
24 faces designed to intentionally mislead or ex-  
25 ploit individuals.

1           (D) Illegal content online, including the il-  
2           legal sale of opioids, child sexual exploitation  
3           and abuse, revenge pornography, harassment,  
4           cyberstalking, hate crimes, the glorification of  
5           violence or gore, and incitement of violence.

6           (E) Terrorist and violent extremists' abuse  
7           of digital platforms, including the use of such  
8           platforms to promote themselves, share propa-  
9           ganda, and glorify real-world acts of violence.

10          (F) Disinformation campaigns coordinated  
11          by inauthentic accounts or individuals to influ-  
12          ence United States elections.

13          (G) The sale of counterfeit products.

14          (b) REPORT TO CONGRESS.—Not later than 6  
15          months after the completion of the study required pursu-  
16          ant to subsection (a), the Commission shall submit to the  
17          Committee on Energy and Commerce and the Committee  
18          on Science, Space, and Technology of the House of Rep-  
19          resentatives, and the Committee on Commerce, Science,  
20          and Transportation of the Senate, and make publicly  
21          available on its website, a report that contains—

22                 (1) the results of the study conducted under  
23          subsection (a);

