

116TH CONGRESS  
2D SESSION

# H. R. 8132

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.

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## IN THE HOUSE OF REPRESENTATIVES

AUGUST 28, 2020

Mrs. RODGERS of Washington (for herself, Mr. RUSH, Mr. WALDEN, Mr. SOTO, Mr. HUDSON, Ms. KELLY of Illinois, Mr. LATTA, Mr. BURGESS, Mr. UPTON, Mr. GUTHRIE, Mr. BUCSHON, Mr. GIANFORTE, Mr. GRIF-FITH, and Mr. CARTER of Georgia) introduced the following bill; which was referred to the Committee on Energy and Commerce

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## A BILL

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,*

3 **SECTION 1. SHORT TITLE; TABLE OF CONTENTS.**

4 (a) SHORT TITLE.—This Act may be cited as the  
5 “American Competitiveness Of a More Productive Emerg-

1 ing Tech Economy Act” or the “American COMPETE  
2 Act”.

3 (b) TABLE OF CONTENTS.—The table of contents for  
4 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.

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

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 shall complete a study on the state of the artifi-  
11 cial intelligence industry and the impact of such in-  
12 dustry on the United States economy.

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

16 (A) develop and conduct a survey of the  
17 artificial intelligence industry through outreach  
18 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 of the  
9 House of Representatives and the Committee on Com-  
10 merce, Science, and Transportation of the Senate, and  
11 make publicly available on their respective websites, a re-  
12 port that contains—

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

16 (2) recommendations to—

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

20 (B) develop a national strategy to advance  
21 the United States business sectors' position in  
22 the world on the adoption of artificial intel-  
23 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 of the House of  
11          Representatives and the Committee on Commerce,  
12          Science, and Transportation of the Senate, and make pub-  
13          licly available on the website of the Department of Com-  
14          merce, a report that contains—

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

18                 (2) recommendations to—

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

23                         (B) develop a national strategy to advance  
24                         the United States business sectors' position in  
25                         the world on the adoption of internet-connected

1 devices and internet-connected solutions used in  
2 manufacturing;

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

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

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

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

18 (a) IN GENERAL.—

19 (1) STUDY REQUIRED.—Not later than 1 year  
20 after the date of enactment of this Act, the Sec-  
21 retary of Commerce and the Federal Trade Commis-  
22 sion shall complete a study on the state of the quan-  
23 tum computing industry and the impact of such in-  
24 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 of the House of Representatives and the Committee on  
14 Commerce, Science, and Transportation of the Senate,  
15 and make publicly available on their respective websites,  
16 a report that contains—

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

20           (2) recommendations to—

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

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

1 the world on the adoption of quantum com-  
2 puting;

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

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

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

10 (a) IN GENERAL.—

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

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

20 (A) develop and conduct a survey of the  
21 blockchain technology industry through out-  
22 reach to participating entities as appropriate  
23 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 of the House of Representatives and the Committee on  
8 Commerce, Science, and Transportation of the Senate,  
9 and make publicly available on their respective websites,  
10 a report that contains—

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

14           (2) recommendations to—

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

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

22           (C) develop strategies to mitigate current  
23 and emerging risks to the marketplace and sup-  
24 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 of the House of Representatives and the Committee on  
8 Commerce, Science, and Transportation of the Senate,  
9 and make publicly available on their respective websites,  
10 a report that contains—

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

14           (2) recommendations to—

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

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

22           (C) develop strategies to mitigate current  
23 and emerging risks to the marketplace and sup-  
24 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 of the  
25 House of Representatives and the Committee on Com-

1 merce, Science, and Transportation of the Senate, and  
2 make publicly available on the website of the Department  
3 of Commerce, a report that contains—

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

6 (2) recommendations to—

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

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

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

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

22 (E) develop legislation to accomplish such  
23 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 of the  
4 House of Representatives and the Committee on Com-  
5 merce, Science, and Transportation of the Senate, and  
6 make publicly available on the website of the Department  
7 of Commerce, a report that contains—

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

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

13 (c) DEFINITIONS.—In this section—

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

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

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

23 (B) has computer processing capabilities  
24 for collecting, sending, receiving, or analyzing  
25 data.

1 **SEC. 9. STUDY TO ADVANCE THREE-DIMENSIONAL PRINT-**  
2 **ING.**

3 (a) IN GENERAL.—

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

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

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

17 (i) establish a list of industry sectors  
18 that implement and promote the use of  
19 three-dimensional printing;

20 (ii) establish a list of public-private  
21 partnerships focused on promoting the  
22 adoption and use of three-dimensional  
23 printing, as well as industry-based bodies,  
24 including international bodies, which have  
25 developed, or are developing, mandatory or

1 voluntary standards for three-dimensional  
2 printing;

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

5 (iv) provide a description of the ways  
6 entities or industry sectors implement and  
7 promote the use of three-dimensional  
8 printing;

9 (B) develop a comprehensive list of Federal  
10 agencies with jurisdiction over the entities and  
11 industry sectors identified under paragraph (A);

12 (C) identify which Federal agency or agen-  
13 cies listed under subparagraph (B) each entity  
14 or industry sector interacts with;

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

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

23 (F) identify all regulations, guidelines,  
24 mandatory standards, voluntary standards, and  
25 other policies implemented by each of the Fed-

1           eral agencies identified under subparagraph  
2           (B), as well as all guidelines, mandatory stand-  
3           ards, voluntary standards, and other policies  
4           implemented by industry-based bodies; and

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

9           (b) MARKETPLACE AND SUPPLY CHAIN SURVEY.—

10   The Secretary shall conduct a survey of the marketplace  
11   and supply chain of three-dimensional printing to—

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

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

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

20           (c) REPORT TO CONGRESS.—Not later than 6  
21   months after the completion of the study required pursu-  
22   ant to subsection (a), the Secretary shall submit to the  
23   Committee on Energy and Commerce of the House of  
24   Representatives and the Committee on Commerce,  
25   Science, and Transportation of the Senate, and make pub-



1 lically available on the website of the Department of Com-  
 2 merce, a report that contains—

3           (1) the results of the study conducted pursuant  
 4           to subsection (a) and the survey conducted pursuant  
 5           to subsection (b); and

6           (2) recommendations to—

7                 (A) grow the United States economy  
 8                 through the secure advancement of three-di-  
 9                 mensional printing;

10                (B) develop a national strategy to advance  
 11                the United States business sectors' position in  
 12                the world on the adoption of three-dimensional  
 13                printing;

14                (C) develop strategies to mitigate current  
 15                and emerging risks to the marketplace and sup-  
 16                ply chain of three-dimensional printing; and

17                (D) develop legislation that may advance  
 18                the expeditious adoption of three-dimensional  
 19                printing.

20 **SEC. 10. STUDY TO COMBAT ONLINE HARMS THROUGH IN-**  
 21 **NOVATION.**

22           (a) IN GENERAL.—

23                 (1) STUDY REQUIRED.—Not later than 1 year  
 24                 after the date of enactment of this Act, the Federal  
 25                 Trade Commission shall conduct and complete a

1 study on how artificial intelligence may be used to  
2 address the online harms described in paragraph  
3 (2).

4 (2) REQUIREMENTS FOR STUDY.—In con-  
5 ducting the study, the Commission shall consider  
6 whether and how artificial intelligence may be used  
7 to identify, remove, or take any other appropriate  
8 action necessary to address the following online  
9 harms:

10 (A) Deceptive and fraudulent content in-  
11 tended to scam or otherwise harm individuals,  
12 including such practices directed at senior citi-  
13 zens.

14 (B) Manipulated content intended to mis-  
15 lead individuals, including deepfake videos and  
16 fake individual reviews.

17 (C) Website or mobile application inter-  
18 faces designed to intentionally mislead or ex-  
19 ploit individuals.

20 (D) Illegal content online, including the il-  
21 legal sale of opioids, child sexual exploitation  
22 and abuse, revenge pornography, harassment,  
23 cyberstalking, hate crimes, the glorification of  
24 violence or gore, and incitement of violence.

1           (E) Terrorist and violent extremists’ abuse  
2           of digital platforms, including the use of such  
3           platforms to promote themselves, share propa-  
4           ganda, and glorify real-world acts of violence.

5           (F) Disinformation campaigns coordinated  
6           by inauthentic accounts or individuals to influ-  
7           ence United States elections.

8           (G) The sale of counterfeit products.

9           (b) REPORT TO CONGRESS.—Not later than 6  
10          months after the completion of the study required pursu-  
11          ant to subsection (a), the Commission shall submit to the  
12          Committee on Energy and Commerce of the House of  
13          Representatives and the Committee on Commerce,  
14          Science, and Transportation of the Senate, and make pub-  
15          licly available on its website, a report that contains—

16               (1) the results of the study conducted under  
17               subsection (a);

18               (2) recommendations on how artificial intel-  
19               ligence may be used to address the online harms de-  
20               scribed in subsection (a)(2);

21               (3) recommendations on what reasonable poli-  
22               cies, practices, and procedures may be implemented  
23               to utilize artificial intelligence to address such online  
24               harms; and

1           (4) recommendations for any legislation that  
2           may advance the adoption and use of artificial intel-  
3           ligence to address such online harms.

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