

116TH CONGRESS 2D SESSION

S. 5043

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.

IN THE SENATE OF THE UNITED STATES

DECEMBER 17, 2020

Ms. Sinema (for Mrs. Fischer (for herself and Ms. Sinema)) introduced the following bill; which was read twice and referred to the Committee on Commerce, Science, and Transportation

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-
- 6 ing Tech Economy Act of 2020" or the "American COM-
- 7 PETE Act of 2020".

1	(b) Table of Contents.—The table of contents for
2	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.
3	SEC. 2. STUDY TO ADVANCE ARTIFICIAL INTELLIGENCE.
4	(a) In General.—
5	(1) Study required.—Not later than 1 year
6	after the date of the enactment of this Act, the Sec-
7	retary of Commerce and the Federal Trade Commis-
8	sion shall complete a study on the state of the artifi-
9	cial intelligence industry and the impact of such in-
10	dustry on the United States economy.
11	(2) Requirements for study.—In con-
12	ducting the study, the Secretary and the Commis-
13	sion shall—
14	(A) develop and conduct a survey of the
15	artificial intelligence industry through outreach
16	to participating entities as appropriate to—
17	(i) establish a list of industry sectors
18	that implement and promote the use of ar-

tificial intelligence;

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

1	listed under subparagraph (B) with regard to
2	such entities and industry sectors;
3	(F) identify all regulations, guidelines,
4	mandatory standards, voluntary standards, and
5	other policies implemented by each of the Fed-
6	eral agencies identified under subparagraph
7	(B), as well as all guidelines, mandatory stand-
8	ards, voluntary standards, and other policies
9	implemented by industry-based bodies; and
10	(G) identify Federal Government resources
11	that exist for consumers and small businesses
12	to evaluate the use of artificial intelligence.
13	(b) Marketplace and Supply Chain Survey.—
14	The Secretary and Commission shall conduct a survey of
15	the marketplace and supply chain of artificial intelligence
16	to—
17	(1) assess the severity of risks posed to such
18	marketplace and supply chain;
19	(2) review the ability of foreign governments or
20	third parties to exploit the supply chain in a manner
21	that raises risks to the economic and national secu-
22	rity of the United States; and
23	(3) identify emerging risks and long-term
24	trends in such marketplace and supply chain.

1	(c) Report to Congress.—Not later than 6
2	months after the completion of the study required under
3	subsection (a), the Secretary and the Commission shall
4	submit to the Committee on Energy and Commerce and
5	the Committee on Science, Space, and Technology of the
6	House of Representatives, and the Committee on Com-
7	merce, Science, and Transportation of the Senate, and
8	make publicly available on their respective websites, a re-
9	port that contains—
10	(1) the results of the study conducted pursuant
11	to subsection (a) and the survey conducted pursuant
12	to subsection (b); and
13	(2) recommendations to—
14	(A) grow the United States economy
15	through the secure advancement of artificial in-
16	telligence;
17	(B) develop a national strategy to advance
18	the United States business sectors' position in
19	the world on the adoption of artificial intel-
20	ligence;
21	(C) develop strategies to mitigate current
22	and emerging risks to the marketplace and sup-
23	ply chain of artificial intelligence; and

1	(D) develop legislation that may advance
2	the expeditious adoption of artificial intel-
3	ligence.
4	SEC. 3. STUDY TO ADVANCE INTERNET OF THINGS IN MAN-
5	UFACTURING.
6	(a) In General.—
7	(1) Study required.—Not later than 1 year
8	after the date of the 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 manufacturing in the
12	United States.
13	(2) Requirements for study.—In con-
14	ducting the study, the Secretary shall—
15	(A) develop and conduct a survey of the
16	manufacturing industry through outreach to
17	participating entities as appropriate to—
18	(i) establish a list of the industry sec-
19	tors that implement and promote the use
20	of internet-connected devices and internet-
21	connected solutions in manufacturing;
22	(ii) establish a list of public-private
23	partnerships focused on promoting the
24	adoption and use of internet-connected de-
25	vices and internet-connected solutions in

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

1	listed under subparagraph (B) with regard to
2	such entities and industry sectors;
3	(F) identify all regulations, guidelines
4	mandatory standards, voluntary standards, and
5	other policies implemented by each of the Fed-
6	eral agencies identified under subparagraph
7	(B), as well as all guidelines, mandatory stand-
8	ards, voluntary standards, and other policies
9	implemented by industry-based bodies; and
10	(G) identify Federal Government resources
11	that exist for consumers and small businesses
12	to evaluate the use of internet-connected devices
13	and internet-connected solutions in manufac-
14	turing.
15	(b) Marketplace and Supply Chain Survey.—
16	The Secretary shall conduct a survey of the marketplace
17	and supply chain of internet-connected devices and inter-
18	net-connected solutions used in manufacturing 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-

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 shall submit to the
6	Committee on Energy and Commerce and the Committee
7	on Science, Space, and Technology of the House of Rep-
8	resentatives, and the Committee on Commerce, Science,
9	and Transportation of the Senate, and make publicly
10	available on the website of the Department of Commerce,
11	a report that contains—
12	(1) the results of the study conducted pursuant
13	to subsection (a) and the surveys conducted pursu-
14	ant to subsection (b); and
15	(2) recommendations to—
16	(A) grow the United States economy
17	through the secure advancement of the use of
18	internet-connected devices and internet-con-
19	nected solutions in manufacturing;
20	(B) develop a national strategy to advance
21	the United States business sectors' position in
22	the world on the adoption of internet-connected
23	devices and internet-connected solutions used in
24	manufacturing;

1	(C) develop strategies to mitigate current
2	and emerging risks to the marketplace and sup-
3	ply chain of internet-connected devices and
4	internet-connected solutions used in manufac-
5	turing;
6	(D) develop policies that States can adopt
7	to encourage the growth of manufacturing, in-
8	cluding the use of internet-connected devices
9	and internet-connected solutions in manufac-
10	turing; and
11	(E) develop legislation that may advance
12	the expeditious adoption of the use of internet-
13	connected devices and internet-connected solu-
14	tions in manufacturing;
15	SEC. 4. STUDY TO ADVANCE QUANTUM COMPUTING.
16	(a) In General.—
17	(1) Study required.—Not later than 1 year
18	after the date of the enactment of this Act, the Sec-
19	retary of Commerce and the Federal Trade Commis-
20	sion shall complete a study on the state of the quan-
21	tum computing industry and the impact of such in-
22	dustry on the United States economy.
23	(2) Requirements for study.—In con-
24	ducting the study, the Secretary and the Commis-

sion shall—

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

1	(D) identify all interagency activities that
2	are taking place among the Federal agencies
3	listed under subparagraph (B), such as working
4	groups or other coordinated efforts;
5	(E) develop a brief description of the juris-
6	diction and expertise of the Federal agencies
7	listed under subparagraph (B) with regard to
8	such entities and industry sectors;
9	(F) identify all regulations, guidelines,
10	mandatory standards, voluntary standards, and
11	other policies implemented by each of the Fed-
12	eral agencies identified under subparagraph
13	(B), as well as all guidelines, mandatory stand-
14	ards, voluntary standards, and other policies
15	implemented by industry-based bodies; and
16	(G) identify Federal Government resources
17	that exist for consumers and small businesses
18	to evaluate the use of quantum computing.
19	(b) Marketplace and Supply Chain Survey.—
20	The Secretary and Commission shall conduct a survey of
21	the marketplace and supply chain of quantum computing
22	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 and the Commission
10	shall submit to the Committee on Energy and Commerce
11	and the Committee on Science, Space, and Technology of
12	the House of Representatives, and the Committee on Com-
13	merce, Science, and Transportation of the Senate, and
14	make publicly available on their respective websites, a re-
15	port that contains—
16	(1) the results of the study conducted pursuant
17	to subsection (a) and the survey conducted pursuant
18	to subsection (b); and
19	(2) recommendations to—
20	(A) grow the United States economy
21	through the secure advancement of quantum
22	computing;
23	(B) develop a national strategy to advance
24	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 the 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	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 the 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 the 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, motorcyclists, 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);
 - (3) identify which Federal agency or agencies listed under paragraph (2) each entity or industry sector interacts with;
 - (4) identify all interagency activities that are taking place among the Federal agencies listed under paragraph (2), such as working groups or other coordinated efforts;
 - (5) develop a brief description of the jurisdiction and expertise of the Federal agencies listed under paragraph (2) with regard to such entities and industry sectors;
 - (6) identify all regulations, guidelines, mandatory standards, voluntary standards, and other policies implemented by each of the Federal agencies identified under paragraph (2), as well as all guidelines, mandatory standards, voluntary standards, and other policies implemented by industry-based bodies; and
 - (7) identify Federal Government resources that exist for consumers and small businesses to evaluate 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) FEDERAL AGENCY.—The term "Federal
16	agency" means an agency, as defined in section 551
17	of title 5, United States Code.
18	(2) Internet-connected device.—The term
19	"internet-connected device" means a physical object
20	that—
21	(A) is capable of connecting to the inter-
22	net, either directly or indirectly through a net-
23	work, to communicate information at the direc-
24	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 the 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.

34 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 the enactment of this Act, the Fed-6 eral Trade Commission shall conduct and complete 7 a 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 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.

(C) Website or mobile application inter-

faces designed to intentionally mislead or ex-

ploit individuals.

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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);

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

- (3) recommendations on what reasonable policies, practices, and procedures may be implemented to utilize artificial intelligence to address such online harms; and
- (4) recommendations for any legislation that may advance the adoption and use of artificial intelligence to address such online harms.

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