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115TH CONGRESS 1ST SESSION

S. 19

[Report No. 115-4]

To provide opportunities for broadband investment, and for other purposes.

IN THE SENATE OF THE UNITED STATES

January 3, 2017

Mr. Thune (for himself and Mr. Nelson) introduced the following bill; which was read twice and referred to the Committee on Commerce, Science, and Transportation

March 21, 2017

Reported by Mr. Thune, with an amendment

[Strike out all after the enacting clause and insert the part printed in italic]

A BILL

To provide opportunities for broadband investment, 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 eited as the
- 5 "Making Opportunities for Broadband Investment and

Limiting Excessive and Needless Obstacles to Wireless Act" or the "MOBILE NOW Act". (b) Table of Contents of contents of 3 this Act is as follows: Sec. 1. Short title; table of contents. Sec. 2. Definitions. Sec. 3. Making 500 megahertz available. Sec. 4. Millimeter wave spectrum. Sec. 5. 3 gigahertz spectrum. Sec. 6. Distributed antenna systems and small cell infrastructure. See. 7. Communications facilities deployment on Federal property. See. 8. Broadband infrastructure deployment. Sec. 9. National broadband facilities asset database. Sec. 10. Reallocation incentives. Sec. 11. Bidirectional sharing study. Sec. 12. Unlicensed services in guard bands. Sec. 13. Pre-auction funding. Sec. 14. Immediate transfer of funds. Sec. 15. Amendments to the Spectrum Pipeline Act of 2015. See. 16. GAO assessment of unlicensed spectrum and Wi-Fi use in low-income neighborhoods. See. 17. Rulemaking related to partitioning or disaggregating licenses. Sec. 18. Unlicensed spectrum policy. Sec. 19. National plan for unlicensed spectrum. Sec. 20. Spectrum challenge prize. Sec. 21. Wireless telecommunications tax and fee collection fairness. Sec. 22. Rules of construction. See. 23. Relationship to Middle Class Tax Relief and Job Creation Act of 2012. 5 SEC. 2. DEFINITIONS. In this Act: 6 7 (1)APPROPRIATE COMMITTEES Θ F CON-GRESS.—The term "appropriate committees of Con-8 9 gress" means 10 (A) the Committee on Commerce, Science, 11 and Transportation of the Senate; 12 (B) the Committee on Energy and Com-

merce of the House of Representatives; and

1	(C) each committee of the Senate or of the
2	House of Representatives with jurisdiction over
3	a Federal entity affected by the applicable sec-
4	tion in which the term appears.
5	(2) Commission.—The term "Commission"
6	means the Federal Communications Commission.
7	(3) FEDERAL ENTITY.—The term "Federal en-
8	tity" has the meaning given the term in section
9	113(1) of the National Telecommunications and In-
10	formation Administration Organization Act (47
11	U.S.C. 923(1)).
12	(4) NTIA.—The term "NTIA" means the Na-
13	tional Telecommunications and Information Admin-
14	istration of the Department of Commerce.
15	(5) OMB.—The term "OMB" means the Office
16	of Management and Budget.
17	(6) Secretary.—The term "Secretary" means
18	the Secretary of Commerce.
19	SEC. 3. MAKING 500 MEGAHERTZ AVAILABLE.
20	(a) Requirements.—
21	(1) In General.—Consistent with the Presi-
22	dential Memorandum of June 28, 2010, entitled
23	"Unleashing the Wireless Broadband Revolution"
24	and establishing a goal of making a total of 500
25	megahertz of Federal and non-Federal spectrum

available on a licensed or unlicensed basis for wireless broadband use by 2020, not later than December 31, 2020, the Secretary, working through the
NTIA, and the Commission shall make available a
total of at least 255 megahertz of Federal and nonFederal spectrum below the frequency of 6000
megahertz for mobile and fixed wireless broadband
use.

- (2) Unlicensed and licensed use. Of the spectrum made available under paragraph (1), not less than—
 - (A) 100 megahertz shall be made available on an unlicensed basis; and

(B) 100 megahertz shall be made available on an exclusive, licensed basis for commercial mobile use, pursuant to the Commission's authority to implement such licensing in a flexible manner, and subject to potential continued use of such spectrum by incumbent Federal entities in designated geographic areas indefinitely or for such length of time as is necessary for those incumbent entities to be relocated to other spectrum.

1	(3) Non-eligible spectrum.—For purposes
2	of satisfying the requirement under paragraph (1),
3	the following spectrum shall not be counted:
4	(A) The frequencies between 1695 and
5	1710 megahertz.
6	(B) The frequencies between 1755 and
7	1780 megahertz.
8	(C) The frequencies between 2155 and
9	2180 megahertz.
10	(D) The frequencies between 3550 and
11	3700 megahertz.
12	(E) Spectrum that the Commission deter-
13	mines had more than de minimis mobile or
14	fixed wireless broadband operations within the
15	band on the day before the date of enactment
16	of this Act.
17	(4) Relocation prioritized over shar-
18	ING.—This section shall be carried out in accordance
19	with section 113(j) of the National Telecommuni-
20	cations and Information Administration Organiza-
21	tion Act (47 U.S.C. 923(j)).
22	(5) Considerations.—In making spectrum
23	available under this section, the Secretary and Com-
24	mission shall consider—

1	(A) the need to preserve critical existing
2	and planned Federal Government capabilities;
3	(B) the impact on existing State, local, and
4	tribal government capabilities;
5	(C) the international implications;
6	(D) the need for appropriate enforcement
7	mechanisms and authorities; and
8	(E) the importance of the deployment of
9	wireless broadband services in rural areas of the
10	United States.
11	(b) Rules of Construction.—Nothing in this sec-
12	tion shall be construed—
13	(1) to impair or otherwise affect the functions
14	of the Director of OMB relating to budgetary, ad-
15	ministrative, or legislative proposals;
16	(2) to require the disclosure of classified infor-
17	mation, law enforcement sensitive information, or
18	other information that must be protected in the in-
19	terest of national security; or
20	(3) to affect any requirement under section 156
21	of the National Telecommunications and Informa-
22	tion Administration Organization Act (47 U.S.C.
23	921 note), as added by section 1062(a) of the Na-
24	tional Defense Authorization Act for Fiscal Year

1	2000, or any other relevant statutory requirement
2	applicable to the reallocation of Federal spectrum.
3	SEC. 4. MILLIMETER WAVE SPECTRUM.
4	(a) Feasibility Assessment.—Not later than 18
5	months after the date of enactment of this Act, the NTIA,
6	in consultation with the Commission, shall conduct a feasi-
7	bility assessment regarding the impact, on Federal entities
8	and operations in any of the following bands, of author-
9	izing mobile or fixed terrestrial wireless operations, includ-
10	ing for advanced mobile service operations, in the fol-
11	lowing bands:
12	(1) The band between 31800 and 33400 mega-
13	hertz.
14	(2) The band between 71000 and 76000 mega-
15	hertz.
16	(3) The band between 81000 and 86000 mega-
17	hertz.
18	(b) REQUIREMENTS.—In conducting the feasibility
19	assessment under subsection (a), the NTIA shall—
20	(1) consult directly with Federal entities with
21	respect to frequencies allocated to Federal use by
22	such entities in the bands identified in that sub-
23	section;
24	(2) consider what, if any, impact authorizing
25	mobile or fixed terrestrial wireless operations, in-

- cluding advanced mobile services operations, in any
 of such frequencies would have on an affected Federal entity; and
- 4 (3) identify any such frequencies in the bands
 5 described in that subsection that the NTIA assess6 ment determines are feasible for authorizing for mo7 bile or fixed terrestrial wireless operations, including
 8 any advanced mobile service operations.
- 9 (c) Report to Congress and the Commission.—
- 10 Not later than 30 days after the date the feasibility assess-
- 11 ment under subsection (a) is complete, the NTIA shall
- 12 submit to the appropriate committees of Congress a report
- 13 on the feasibility assessment and provide a copy to the
- 14 Commission.
- 15 (d) FCC PROCEEDING.—Not later than 2 years after
- 16 the date of enactment of this Act or 90 days after the
- 17 date it receives the feasibility assessment under subsection
- 18 (c), whichever is earlier, the Commission, in consultation
- 19 with the NTIA, shall publish a notice of proposed rule-
- 20 making to consider service rules to authorize mobile or
- 21 fixed terrestrial wireless operations, including for ad-
- 22 vanced mobile service operations, in the following radio
- 23 frequency bands:
- 24 (1) The band between 24250 and 24450 mega-
- 25 hertz.

1	(2) The band between 25050 and 25250 mega-
2	hertz.
3	(3) The band between 31800 and 33400 mega-
4	hertz, except for any frequencies with Federal alloca-
5	tions.
6	(4) The band between 42000 and 42500 mega-
7	hertz.
8	(5) The band between 71000 and 76000 mega-
9	hertz, except for any frequencies with Federal alloca-
10	tions.
11	(6) The band between 81000 and 86000 mega-
12	hertz, except for any frequencies with Federal alloca-
13	tions.
14	(7) Any frequencies with Federal allocations
15	identified as feasible under subsection (b)(3).
16	(e) Considerations.—In conducting a rulemaking
17	under subsection (d), the Commission shall—
18	(1) consult with Federal entities via the NTIA
19	regarding the frequencies described in subsection
20	(d)(7);
21	(2) consider how the bands described in sub-
22	section (d) may be used to provide commercial wire-
23	less broadband service, including whether—

1 (A) such spectrum may be best used for li-2 censed or unlicensed services, or some combina-3 tion thereof; and

4 (B) to permit additional licensed oper-5 ations in such bands on a shared basis; and

(3) include technical characteristics under which the bands described in subsection (d) may be employed for mobile or fixed terrestrial wireless operations, including any appropriate coexistence requirements.

1 SEC. 5. 3 GIGAHERTZ SPECTRUM.

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12 (a) Between 3100 Megahertz and 3550 Mega-HERTZ.—Not later than 18 months after the date of enactment of this Act, and in consultation with the Commis-15 sion and the head of each affected Federal agency (or a designee thereof), the Secretary shall submit to the Commission and the appropriate committees of Congress a report evaluating the feasibility of allowing commercial wireless services, licensed or unlicensed, to share use of the frequencies between 3100 megahertz and 3550 megahertz. 21 (b) Between 3700 Megahertz and 4200 Mega-HERTZ.—Not later than 18 months after the date of enactment of this Act, after notice and an opportunity for public comment, and in consultation with the Secretary and the head of each affected Federal agency (or a des-

- 1 ignee thereof), the Commission shall submit to the Sec-
- 2 retary and the appropriate committees of Congress a re-
- 3 port evaluating the feasibility of allowing commercial wire-
- 4 less services, licensed or unlicensed, to share use of the
- 5 frequencies between 3700 megahertz and 4200 megahertz.
- 6 (c) REQUIREMENTS.—A report under subsection (a)
 7 or subsection (b) shall include the following:
- 8 (1) An assessment of the operations of Federal
 9 entities that operate Federal Government stations
 10 authorized to use the frequencies described in that
 11 subsection.
 - (2) An assessment of the possible impacts of such sharing on Federal and non-Federal users already operating on the frequencies described in that subsection.
 - (3) The criteria that may be necessary to ensure shared licensed or unlicensed services would not cause harmful interference to Federal or non-Federal users already operating in the frequencies described in that subsection.
 - (4) If such sharing is feasible, an identification of which of the frequencies described in that subsection are most suitable for sharing with commercial wireless services through the assignment of new licenses by competitive bidding, for sharing with un-

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1	licensed operations, or through a combination of li-
2	censing and unlicensed operations.
3	(d) Commission Action.—The Commission, in con-
4	sultation with the NTIA, shall seek public comment on
5	the reports required under subsections (a) and (b), includ-
6	ing regarding the bands identified in such reports as fea-
7	sible pursuant to subsection (e)(4).
8	SEC. 6. DISTRIBUTED ANTENNA SYSTEMS AND SMALL CELL
9	INFRASTRUCTURE.
10	Not later than December 31, 2017, the Commission
11	shall take action in its Program Alternatives for Small
12	Wireless Communications Facility Deployments pro-
13	ceeding (WT Docket 15–180).
13 14	ceeding (WT Docket 15–180). SEC. 7. COMMUNICATIONS FACILITIES DEPLOYMENT ON
14	SEC. 7. COMMUNICATIONS FACILITIES DEPLOYMENT ON
14 15	SEC. 7. COMMUNICATIONS FACILITIES DEPLOYMENT ON FEDERAL PROPERTY.
14151617	SEC. 7. COMMUNICATIONS FACILITIES DEPLOYMENT ON FEDERAL PROPERTY. (a) IN GENERAL.—Section 6409 of the Middle Class
14151617	SEC. 7. COMMUNICATIONS FACILITIES DEPLOYMENT ON FEDERAL PROPERTY. (a) IN GENERAL.—Section 6409 of the Middle Class Tax Relief and Job Creation Act of 2012 (47 U.S.C.
1415161718	SEC. 7. COMMUNICATIONS FACILITIES DEPLOYMENT ON FEDERAL PROPERTY. (a) IN GENERAL.—Section 6409 of the Middle Class Tax Relief and Job Creation Act of 2012 (47 U.S.C. 1455) is amended by striking subsections (b), (c), and (d)
141516171819	SEC. 7. COMMUNICATIONS FACILITIES DEPLOYMENT ON FEDERAL PROPERTY. (a) IN GENERAL.—Section 6409 of the Middle Class Tax Relief and Job Creation Act of 2012 (47 U.S.C. 1455) is amended by striking subsections (b), (c), and (d) and inserting the following:
14 15 16 17 18 19 20	SEC. 7. COMMUNICATIONS FACILITIES DEPLOYMENT ON FEDERAL PROPERTY. (a) IN GENERAL.—Section 6409 of the Middle Class Tax Relief and Job Creation Act of 2012 (47 U.S.C. 1455) is amended by striking subsections (b), (c), and (d) and inserting the following: "(b) FEDERAL EASEMENTS, RIGHTS-OF-WAY, AND
14 15 16 17 18 19 20 21	SEC. 7. COMMUNICATIONS FACILITIES DEPLOYMENT ON FEDERAL PROPERTY. (a) IN GENERAL.—Section 6409 of the Middle Class Tax Relief and Job Creation Act of 2012 (47 U.S.C. 1455) is amended by striking subsections (b), (c), and (d) and inserting the following: "(b) FEDERAL EASEMENTS, RIGHTS-OF-WAY, AND LEASES.—
14 15 16 17 18 19 20 21 22	SEC. 7. COMMUNICATIONS FACILITIES DEPLOYMENT ON FEDERAL PROPERTY. (a) IN GENERAL.—Section 6409 of the Middle Class Tax Relief and Job Creation Act of 2012 (47 U.S.C. 1455) is amended by striking subsections (b), (c), and (d) and inserting the following: "(b) FEDERAL EASEMENTS, RIGHTS-OF-WAY, AND LEASES.— "(1) GRANT.—If an executive agency, a State,

Government for the right to install, construct, modify, or maintain a communications facility installation, the executive agency having control of the building or other property may grant to the applicant, on behalf of the Federal Government, subject to paragraph (5), an easement, right-of-way, or lease to perform such installation, construction, modification, or maintenance.

"(2) APPLICATION.—

"(A) IN GENERAL. The Administrator of General Services shall develop a common form for applications for easements, rights-of-way, and leases under paragraph (1) for all executive agencies that, except as provided in subparagraph (B), shall be used by all executive agencies and applicants with respect to the buildings or other property of each such agency.

"(B) EXCEPTION.—The requirement under subparagraph (A) for an executive agency to use the common form developed by the Administrator of General Services shall not apply to an executive agency if the head of an executive agency notifies the Administrator that the exec-

1	utive agency uses a substantially similar appli-
2	eation.
3	"(3) FEE.—
4	"(A) In General.—Notwithstanding any
5	other provision of law, the Administrator of
6	General Services shall establish a fee for the
7	grant of an easement, right-of-way, or lease
8	pursuant to paragraph (1) that is based on di-
9	rect cost recovery.
10	"(B) Exceptions.—The Administrator of
11	General Services may establish exceptions to
12	the fee amount required under subparagraph
13	(Λ) —
14	"(i) in consideration of the public ben-
15	efit provided by a grant of an easement,
16	right-of-way, or lease; and
17	"(ii) in the interest of expanding wire-
18	less and broadband coverage.
19	"(4) Use of fees collected.—Any fee
20	amounts collected by an executive agency pursuant
21	to paragraph (3) may be made available, as provided
22	in appropriations Acts, to such agency to cover the
23	costs of granting the easement, right-of-way, or
24	lease

1	"(5) Timely consideration of applica-
2	TIONS.—
3	"(A) In General.—Not later than 270
4	days after the date on which an executive agen-
5	ey receives a duly filed application for an ease-
6	ment, right-of-way, or lease under this sub-
7	section, the executive agency shall—
8	"(i) grant or deny, on behalf of the
9	Federal Government, the application; and
10	"(ii) notify the applicant of the grant
11	or denial.
12	"(B) Explanation of Denial.—If an ex-
13	ecutive agency denies an application under sub-
14	paragraph (A), the executive agency shall notify
15	the applicant in writing, including a clear state-
16	ment of the reasons for the denial.
17	"(C) APPLICABILITY OF ENVIRONMENTAL
18	LAWS.—Nothing in this paragraph shall be con-
19	strued to relieve an executive agency of the re-
20	quirements of division A of subtitle III of title
21	54, United States Code, or the National Envi-
22	ronmental Policy Act of 1969 (42 U.S.C. 4321
23	et seq.).
24	"(D) Point of Contact.—Upon receiving
25	an application under subparagraph (A), an ex-

1	ecutive agency shall designate one or more ap-
2	propriate individuals within the executive agen-
3	ey to act as a point of contact with the appli-
4	eant.
5	"(e) Master Contracts for Communications
6	FACILITY INSTALLATION SITINGS.—
7	"(1) In General.—Notwithstanding section
8	704 of the Telecommunications Act of 1996 (Public
9	Law 104–104; 110 Stat. 151) or any other provision
10	of law, the Administrator of General Services shall—
11	"(A) develop one or more master contracts
12	that shall govern the placement of communica-
13	tions facility installation on buildings and other
14	property owned by the Federal Government;
15	and
16	"(B) in developing the master contract or
17	contracts, standardize the treatment of the
18	placement of communications facility installa-
19	tion on building rooftops or facades, the place-
20	ment of communications facility installation on
21	rooftops or inside buildings, the technology used
22	in connection with communications facility in-
23	stallation placed on Federal buildings and other
24	property, and any other key issues the Adminis-

1 trator of General Services considers appro-2 priate.

"(2) APPLICABILITY. The master contract or contracts developed by the Administrator of General Services under paragraph (1) shall apply to all publicly accessible buildings and other property owned by the Federal Government, unless the Administrator of General Services decides that issues with respect to the siting of a communications facility installation on a specific building or other property warrant nonstandard treatment of such building or other property.

"(3) APPLICATION.—

"(A) IN GENERAL.—The Administrator of General Services shall develop a common form or set of forms for communications facility installation siting applications that, except as provided in subparagraph (B), shall be used by all executive agencies and applicants with respect to the buildings and other property of each such agency.

"(B) EXCEPTION.—The requirement under subparagraph (A) for an executive agency to use the common form or set of forms developed by the Administrator of General Services shall

1	not apply to an executive agency if the head of
2	the executive agency notifies the Administrator
3	that the executive agency uses a substantially
4	similar application.
5	"(d) Definitions.—In this section:
6	"(1) Communications facility installa-
7	TION.—The term 'communications facility installa-
8	tion' includes—
9	"(A) any infrastructure, including any
10	transmitting device, tower, or support structure,
11	and any equipment, switches, wiring, cabling,
12	power sources, shelters, or cabinets, associated
13	with the licensed or permitted unlicensed wire-
14	less or wireline transmission of writings, signs,
15	signals, data, images, pictures, and sounds of
16	all kinds; and
17	"(B) any antenna or apparatus that—
18	"(i) is designed for the purpose of
19	emitting radio frequency;
20	"(ii) is designed to be operated, or is
21	operating, from a fixed location pursuant
22	to authorization by the Commission or is
23	using duly authorized devices that do not
24	require individual licenses; and

1	"(iii) is added to a tower, building, or
2	other structure.
3	"(2) EXECUTIVE AGENCY.—The term 'executive
4	agency' has the meaning given such term in section
5	102 of title 40, United States Code.".
6	(b) Savings Provision.—An application for an
7	easement, right-of-way, or lease that was made or granted
8	under section 6409 of the Middle Class Tax Relief and
9	Job Creation Act of 2012 (47 U.S.C. 1455) before the
10	effective date of this Act shall continue, subject to that
11	section as in effect on the day before such effective date.
12	(e) Streamlining Broadband Facility Applica-
13	TIONS.—
14	(1) DEFINITION OF COMMUNICATIONS FACILITY
15	INSTALLATION.—In this subsection, the term "com-
16	munications facility installation" has the meaning
17	given the term in section 6409(d) of the Middle
18	Class Tax Relief and Job Creation Act of 2012 (47
19	U.S.C. 1455(d)), as amended by subsection (a).
20	(2) Recommendations.—
21	(A) In General.—Not later than 2 years
22	after the date of enactment of this Act, the
23	NTIA, in coordination with the Department of
24	the Interior, the Department of Agriculture, the
25	Department of Defense, the Department of

1	Transportation, the Office of Management and
2	Budget, and the General Services Administra-
3	tion, shall develop recommendations to stream-
4	line the process for considering applications by
5	those agencies under section 6409(b) of the
6	Middle Class Tax Relief and Job Creation Act
7	of 2012 (47 U.S.C. 1455(b)), as amended by
8	subsection (a).
9	(B) REQUIREMENTS FOR RECOMMENDA-
10	TIONS.—The recommendations developed under
11	subparagraph (A) shall include—
12	(i) procedures for the tracking of ap-
13	plications described in subparagraph (A);
14	(ii) methods by which to reduce the
15	amount of time between the receipt of an
16	application and the issuance of a final de-
17	eision on an application; and
18	(iii) policies to expedite renewals of an
19	easement, license, or other authorization to
20	locate a communications facility installa-
21	tion on land managed by the agencies de-
22	scribed in subparagraph (A).
23	(C) REPORT TO CONGRESS.—Not later
24	than 2 years after the date on which the rec-
25	ommendations required under subparagraph

1	(A) are developed, the NTIA shall submit to the
2	Committee on Commerce, Science, and Trans-
3	portation of the Senate and the Committee on
4	Energy and Commerce of the House of Rep-
5	resentatives a report that describes—
6	(i) the status of the implementation of
7	the recommendations developed under sub-
8	paragraph (A); and
9	(ii) any improvements to the process
10	for considering applications described in
11	subparagraph (A) that have resulted from
12	those recommendations, including in par-
13	ticular the speed at which such applica-
14	tions are reviewed and a final determina-
15	tion is issued.
16	SEC. 8. BROADBAND INFRASTRUCTURE DEPLOYMENT.
17	(a) United States Policy.—It is the policy of the
18	United States for the Department of Transportation and
19	State departments of transportation—
20	(1) to adjust or otherwise develop right-of-way
21	policies for Federal-aid highways to effectively ac-
22	commodate broadband infrastructure;
23	(2) to ensure the safe and efficient accommoda-
24	tion of broadband infrastructure in the public right-
25	of-way;

1	(3) to include broadband stakeholders in the
2	transportation planning process; and
3	(4) to coordinate highway construction plans
4	with other statewide telecommunications and
5	broadband plans.
6	(b) DEFINITIONS.—In this section:
7	(1) APPROPRIATE STATE AGENCY.—The term
8	"appropriate State agency" means a State govern-
9	mental agency that is recognized by the executive
10	branch of the State as having the experience nee-
11	essary to evaluate and carry out projects relating to
12	the proper and effective installation and operation of
13	broadband infrastructure.
14	(2) Broadband infrastructure.—The term
15	"broadband infrastructure" means any buried or
16	aerial facility, and any wireless or wireline connec-
17	tion, that enables users to send and receive voice,
18	video, data, graphics, or any combination thereof.
19	(3) Broadband infrastructure entity.
20	The term "broadband infrastructure entity" means
21	any entity that—
22	(A) installs, owns, or operates broadband
23	infrastructure; and
24	(B) provides broadband services to the
25	public in a manner consistent with the public

1	interest, convenience, and necessity, as deter-
2	mined by the State.
3	(4) STATE.—The term "State" means—
4	(A) a State;
5	(B) the District of Columbia; and
6	(C) the Commonwealth of Puerto Rico.
7	(c) Broadband Infrastructure Deployment.—
8	To facilitate the installation of broadband infrastructure
9	and achieve the policy described in subsection (a), the Sec-
10	retary of Transportation shall ensure that each State that
11	receives funds under chapter 1 of title 23, United States
12	Code, meets the following requirements:
13	(1) Broadband coordination.—The State
14	department of transportation, in coordination with
15	appropriate State agencies, shall—
16	(A) identify a broadband utility coordi-
17	nator, that may have additional responsibilities,
18	whether in the State department of transpor-
19	tation or in another State agency, and that is
20	responsible for coordinating the broadband in-
21	frastructure right-of-way needs of the State
22	with Federal-aid highway projects carried out in
23	the State;
24	(B) establish a process for the registration
25	of broadband infrastructure entities that seek

to be included in those broadband infrastructure right-of-way coordination efforts within the State;

- (C) coordinate initiatives carried out under this section with other statewide telecommunication and broadband plans and State and local transportation and land use plans; and
- (D) develop strategies to minimize repeated exeavations that involve the installation of broadband infrastructure in a right-of-way.
- (2) Priority.—If a State chooses to provide for the installation of broadband infrastructure in the right-of-way of an applicable Federal-aid high-way under this subsection in a given ease, the State department of transportation shall carry out any appropriate measures to ensure that any existing broadband infrastructure entities are not disadvantaged, as compared to other broadband infrastructure entities, with respect to the program under this subsection.
- (d) EFFECT OF SECTION.—This section applies only to activities for which obligations or expenditures are initially approved on or after the date of enactment of this Act. Nothing in this section establishes a mandate or requirement, or authorizes the Secretary to establish a man-

1	date or requirement, that a State install broadband infra-
2	structure in a highway right-of-way.
3	SEC. 9. NATIONAL BROADBAND FACILITIES ASSET DATA-
4	BASE.
5	(a) DEFINITIONS.—In this section:
6	(1) Communications facility installa-
7	TION.—The term "communications facility installa-
8	tion" includes—
9	(A) any infrastructure, including any
10	transmitting device, tower, or support structure,
11	and any equipment, switches, wiring, cabling,
12	power sources, shelters, or cabinets, associated
13	with the licensed or permitted unlicensed wire-
14	less or wireline transmission of writings, signs,
15	signals, data, images, pictures, and sounds of
16	all kinds; and
17	(B) any antenna or apparatus that—
18	(i) is designed for the purpose of
19	emitting radio frequency;
20	(ii) is designed to be operated, or is
21	operating, from a fixed location pursuant
22	to authorization by the Federal Commu-
23	nications Commission or is using duly au-
24	thorized devices that do not require indi-
25	vidual licenses: and

1	(iii) is added to a tower, building, or
2	other structure.
3	(2) COVERED PROPERTY.—The term "covered
4	property"—
5	(A) means any real property capable of
6	supporting a communications facility installa-
7	tion; and
8	(B) includes any interest in real property
9	described in subparagraph (A) .
10	(3) Database.—The term "database" means
11	the database established under subsection (b).
12	(4) Executive AGENCY.—The term "Executive
13	agency" has the meaning given the term in section
14	105 of title 5, United States Code.
15	(b) Database Established.—Not later than June
16	30, 2018, the Director of the Office of Science and Tech-
17	nology Policy, in consultation with the Chairman of the
18	Commission, Assistant Secretary of Commerce for Com-
19	munications and Information, Under Secretary of Com-
20	merce for Standards and Technology, Administrator of
21	General Services, and Director of OMB, shall—
22	(1) establish and operate a single database of
23	any covered property that is owned, leased, or other-
24	wise managed by an Executive agency;
25	(2) make the database available to—

1	(A) any entity that—
2	(i) constructs or operates communica
3	tions facility installations; or
4	(ii) provides communications service
5	and
6	(B) any other entity that the Director of
7	the Office of Science and Technology Policy de
8	termines is appropriate; and
9	(3) establish a process for withholding data
10	from the database for national security, public safe
11	ty, or other national strategic concerns in accord-
12	ance with existing statutory authority and Executive
13	order mandates with respect to handling and protec
14	tion of such information.
15	(e) Public Comment.—
16	(1) In General.—Not later than 30 days after
17	the date of enactment of the MOBILE NOW Act
18	the Director of the Office of Science and Technology
19	Policy shall seek public comment to inform the es
20	tablishment and operation of the database.
21	(2) Contents.—In seeking public comment
22	under paragraph (1), the Director shall include a re
23	quest for recommendations on—

1	(A) criteria that make real property capa-
2	ble of supporting communications facility instal-
3	lations;
4	(B) types of information related to covered
5	property that should be included in the data-
6	base;
7	(C) an interface by which accessibility to
8	the database for all users will be appropriately
9	efficient and secure; and
10	(D) other information the Director deter-
11	mines necessary to establish and operate the
12	database.
13	(d) Federal Agencies.—
14	(1) Initial Provision of Information.—Not
15	later than 90 days after the date on which the data-
16	base is established under subsection (b), the head of
17	an Executive agency shall provide to the Director of
18	the Office of Science and Technology Policy, in a
19	manner and format to be determined by the Direc-
20	tor, such information as the Director determines ap-
21	propriate with respect to covered property owned,
22	leased, or otherwise managed by the Executive agen-
23	e y.
24	(2) Change to information previously
25	PROVIDED.—In the case of any change to informa-

tion provided to the Director of the Office of Science and Technology Policy by the head of an Executive agency under paragraph (1), the head of the Executive agency shall provide updated information to the Director not later than 30 days after the date of the change.

(3) Subsequently acquires covered property.—If an Executive agency acquires covered property after the date on which the database is established under subsection (b), the head of the Executive agency shall provide to the Director of the Office of Science and Technology Policy the information required under paragraph (1) with respect to the covered property not later than 30 days after the date of the acquisition.

(e) STATE AND LOCAL GOVERNMENTS.—

(1) In GENERAL.—The Director of the Office of Science and Technology Policy (referred to in this subsection as the "Director") shall make the database available to State and local governments so that such governments may provide to the Director for inclusion in the database similar information to the information required under subsection (d)(1) regarding covered property owned, leased, or otherwise managed by such governments.

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(2) REPORT ON INC	CENTIVIZING PARTICIPATION
BY STATE AND LOCAL GO	WERNMENTS —

(A) IN GENERAL.—Not later than 1 year after the date of enactment of this Act, the Director, in consultation with the Chairman of the Commission, the Assistant Secretary of Commerce for Communications and Information, the Under Secretary of Commerce for Standards and Technology, the Administrator of General Services, and the Director of OMB, shall the Committee submit to $\frac{\partial \mathbf{n}}{\partial \mathbf{n}}$ Commerce, Science, and Transportation of the Senate and the Committee on Energy and Commerce of the House of Representatives a report on potential ways to incentivize State and local governments to provide to the Director for inclusion in the database similar information to the information required under subsection (d)(1) regarding covered property owned, leased, or otherwise managed by such governments pursuant to paragraph (1) of this subsection or through other means.

(B) Considerations.—The Director, in preparing the report under subparagraph (A), shall—

(i) consult with State and local governments, or their representatives, to identify for inclusion in the report the most cost-effective options for State and local governments to collect and provide the information described in subparagraph (A), including utilizing and leveraging State broadband initiatives and programs; and

(ii) make recommendations on ways the Federal Government can assist State and local governments in collecting and providing the information described in subparagraph (A).

(C) REPORT UPDATE. Not later than 2 years after the date on which the database is established under this section, the Director shall submit to the Committee on Commerce, Science, and Transportation of the Senate and the Committee on Energy and Commerce of the House of Representatives an update to the report required under subparagraph (A) that identifies State and local governments that have contributed to the database and recommends ways to further incentivize participation by State and local governments pursuant to para-

1 graph (1) of this subsection or through other
2 means.

(f) Database Updates.—

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- (1) TIMELY INCLUSION.—After the establishment of the database, the Director of the Office of Science and Technology Policy shall ensure that information provided under subsection (d) or subsection (e) is included in the database not later than 7 days after the date on which the Director receives the information.
- 12 (2) DATE OF ADDITION OR UPDATE.—Informa12 tion in the database relating to covered property
 13 shall include the date on which the information was
 14 added or most recently updated.
- 15 (g) Report.—Not later than 180 days after the date
 16 the Director of the Office of Science and Technology Pol17 iey seeks public comment under subsection (c)(1), the Di18 rector shall submit to the Committee on Commerce,
 19 Science, and Transportation of the Senate and the Com20 mittee on Energy and Commerce of the House of Rep21 resentatives a report on the progress in establishing the
 22 database under this section. The Director shall update the
 23 report annually until the date that the database is fully
 24 operational. After the database is fully operational and for
 25 the next 5 years thereafter, the Director shall provide an-

1	nual reports regarding the use of the database, rec-
2	ommendations of how the database may provide additional
3	utility to the entities described in subsection (b)(2), if any
4	recommendations are warranted, and how previous rec-
5	ommendations have been implemented.
6	SEC. 10. REALLOCATION INCENTIVES.
7	(a) In General.—Not later than 18 months after
8	the date of enactment of this Act, the Secretary, in con-
9	sultation with the Commission, the Director of OMB, and
10	the head of each affected Federal agency (or a designee
11	thereof), after notice and an opportunity for public com-
12	ment, shall submit to the appropriate committees of Con-
13	gress a report that includes legislative or regulatory rec-
14	ommendations to incentivize a Federal entity to relinquish,
15	or share with Federal or non-Federal users, Federal spec-
16	trum for the purpose of allowing commercial wireless
17	broadband services to operate on that Federal spectrum.
18	(b) Post-Auction Payments.—
19	(1) Report.—In preparing the report under
20	subsection (a), the Secretary shall—
21	(A) consider whether permitting eligible
22	Federal entities that are implementing a transi-
23	tion plan submitted under section 113(h) of the
24	National Telecommunications and Information
25	Administration Organization Act (47 U.S.C.

1	923(h)) to accept payments could result in ac-
2	cess to the eligible frequencies that are being
3	reallocated for exclusive non-Federal use or
4	shared use sooner than would otherwise occur
5	without such payments; and
6	(B) include the findings under subpara-
7	graph (A), including the analysis under para-
8	graph (2) and any recommendations for legisla-
9	tion, in the report.
10	(2) Analysis.—In considering payments under
11	paragraph (1)(A), the Secretary shall conduct an
12	analysis of whether and how such payments would
13	affect—
14	(A) bidding in auctions conducted under
15	section 309(j) of the Communications Act of
16	1934 (47 U.S.C. 309(j)) of such eligible fre-
17	quencies; and
18	(B) receipts collected from the auctions de-
19	scribed in subparagraph (A).
20	(3) Definitions.—In this subsection:
21	(A) PAYMENT.—The term "payment"
22	means a payment in eash or in-kind by any
23	auction winner, or any person affiliated with an
24	auction winner, of eligible frequencies during
25	the period after eligible frequencies have been

1	reallocated by competitive bidding under section
2	309(j) of the Communications Act of 1934 (47
3	U.S.C. 309(j)) but prior to the completion of
4	relocation or sharing transition of such eligible
5	frequencies per transition plans approved by the
6	Technical Panel.
7	(B) ELIGIBLE FREQUENCIES.—The term
8	"eligible frequencies" has the meaning given
9	the term in section 113(g)(2) of the National
10	Telecommunications and Information Adminis-
11	tration Organization Act (47 U.S.C. 923(g)(2))
12	SEC. 11. BIDIRECTIONAL SHARING STUDY.
13	(a) In General.—Not later than 1 year after the
14	date of enactment of this Act, including an opportunity
15	for public comment, the Commission, in collaboration with
16	the NTIA, shall—
17	(1) conduct a bidirectional sharing study to de-
18	termine the best means of providing Federal entities
19	flexible access to non-Federal spectrum on a shared
20	basis across a range of short-, mid-, and long-range
21	timeframes, including for intermittent purposes like
22	emergency use; and
23	(2) submit to Congress a report on the study
24	under paragraph (1), including any recommenda-
25	tions for legislation or proposed regulations.

- 1 (b) Considerations.—In conducting the study
 2 under subsection (a), the Commission shall—
- (1) consider the regulatory certainty that com mercial spectrum users and Federal entities need to
 make longer-term investment decisions for shared
 access to be viable; and
- 7 (2) evaluate any barriers to voluntary commer-8 cial arrangements in which non-Federal users could 9 provide access to Federal entities.

10 SEC. 12. UNLICENSED SERVICES IN GUARD BANDS.

- (a) IN GENERAL.—After public notice and comment,
 and in consultation with the Secretary and the head of
 cach affected Federal agency (or a designee thereof), with
 respect to frequencies allocated for Federal use, the Commission shall adopt rules that permit unlicensed services
 where feasible to use any frequencies that are designated
 as guard bands to protect frequencies allocated after the
 date of enactment of this Act by competitive bidding under
 section 309(j) of the Communications Act of 1934 (47
 U.S.C. 309(j)), including spectrum that acts as a duplex
 gap between transmit and receive frequencies.
- 22 (b) LIMITATION.—The Commission may not permit
 23 any use of a guard band under this section that would
 24 cause harmful interference to a licensed service or a Fed-

1	eral service operating in the guard band or in an adjacent
2	band.
3	(e) Rule of Construction. Nothing in this sec-
4	tion shall be construed as limiting the Commission or the
5	Secretary from otherwise making spectrum available for
6	licensed or unlicensed use in any frequency band in addi-
7	tion to guard bands, including under section 3, consistent
8	with their statutory jurisdictions.
9	SEC. 13. PRE-AUCTION FUNDING.
10	Section 118(d)(3)(B)(i)(II) of the National Tele-
11	communications and Information Administration Organi-
12	zation Act (47 U.S.C. 928(d)(3)(B)(i)(H)) is amended by
13	striking "5 years" and inserting "8 years".
14	SEC. 14. IMMEDIATE TRANSFER OF FUNDS.
15	Section 118(e)(1) of the National Telecommuni-
16	cations and Information Administration Organization Act
17	(47 U.S.C. 928(e)(1)) is amended by adding at the end
18	the following:
19	"(D) At the request of an eligible Federal
20	entity, the Director of OMB may transfer the
21	amount under subparagraph (A) immediately—
22	"(i) after the frequencies are reallo-
23	eated by competitive bidding under section
24	309(j) of the Communications Act of 1934
25	(47 U.S.C. 309(j)); or

1	"(ii) in the case of an incumbent Fed-
2	eral entity that is incurring relocation or
3	sharing costs to accommodate sharing
4	spectrum frequencies with another Federal
5	entity, after the frequencies from which the
6	other eligible Federal entity is relocating
7	are reallocated by competitive bidding
8	under section 309(j) of the Communica
9	tions Act of 1934 (47 U.S.C. 309(j)), with
10	out regard to the availability of such sums
11	in the Fund.
12	"(E) Prior to the deposit of proceeds into
13	the Fund from an auction, the Director of
14	OMB may borrow from the Treasury the
15	amount under subparagraph (A) for a transfer
16	under subparagraph (D). The Treasury shall
17	immediately be reimbursed, without interest
18	from funds deposited into the Fund.".
19	SEC. 15. AMENDMENTS TO THE SPECTRUM PIPELINE ACT
20	OF 2015.
21	Section 1008 of the Spectrum Pipeline Act of 2015
22	(Public Law 114-74; 129 Stat. 584) is amended in the
23	matter preceding paragraph (1) by inserting ", after no-
24	tice and an opportunity for public comment," after "the
25	Commission".

1	SEC. 16. GAO ASSESSMENT OF UNLICENSED SPECTRUM
2	AND WI-FI USE IN LOW-INCOME NEIGHBOR-
3	HOODS.
4	(a) Study.—
5	(1) In General.—The Comptroller General of
6	the United States shall conduct a study to evaluate
7	the availability of broadband Internet access using
8	unlicensed spectrum and wireless networks in low-in-
9	come neighborhoods.
10	(2) REQUIREMENTS.—In conducting the study
11	under paragraph (1), the Comptroller General shall
12	consider and evaluate—
13	(A) the availability of wireless Internet hot
14	spots and access to unlicensed spectrum in low-
15	income neighborhoods, particularly for elemen-
16	tary and secondary school-aged children in such
17	neighborhoods;
18	(B) any barriers preventing or limiting the
19	deployment and use of wireless networks in low-
20	income neighborhoods;
21	(C) how to overcome any barriers described
22	in subparagraph (B), including through incen-
23	tives, policies, or requirements that would in-
24	crease the availability of unlicensed spectrum
25	and related technologies in low-income neigh-
26	borhoods; and

1	(D) how to encourage home broadband
2	adoption by households with elementary and
3	secondary school-age children that are in low-
4	income neighborhoods.
5	(b) REPORT.—Not later than 1 year after the date
6	of enactment of this Act, the Comptroller General shall
7	submit to the Committee on Commerce, Science, and
8	Transportation of the Senate and the Committee on En-
9	ergy and Commerce of the House of Representatives a re-
10	port that—
11	(1) summarizes the findings of the study con-
12	ducted under subsection (a); and
13	(2) makes recommendations with respect to po-
14	tential incentives, policies, and requirements that
15	could help achieve the goals described in subpara-
16	graphs (C) and (D) of subsection $(a)(2)$.
17	SEC. 17. RULEMAKING RELATED TO PARTITIONING OR
18	DISAGGREGATING LICENSES.
19	(a) Definitions.—In this section—
20	(1) COVERED SMALL CARRIER.—The term
21	"covered small earrier" means a earrier (as defined
22	in section 3 of the Communications Act of 1934 (47
23	U.S.C. 153)) that—
24	(A) has not more than 1,500 employees (as
25	determined under section 121 106 of title 12

1	Code of Federal Regulations, or any successor
2	thereto); and
3	(B) offers services using the facilities of
4	the carrier.
5	(2) Rural area.—The term "rural area"
6	means any area other than—
7	(A) a city, town, or incorporated area that
8	has a population of more than 20,000 inhab-
9	itants; or
10	(B) an urbanized area contiguous and ad-
11	jacent to a city or town that has a population
12	of more than 50,000 inhabitants.
13	(b) Rulemaking.—
14	(1) In General.—Not later than 1 year after
15	the date of enactment of this Act, the Commission
16	shall initiate a rulemaking proceeding to assess
17	whether to establish a program, or modify existing
18	programs, under which a licensee that receives a li-
19	eense for the exclusive use of spectrum in a specific
20	geographic area under section 301 of the Commu-
21	nications Act of 1934 (47 U.S.C. 301) may partition
22	or disaggregate the license by sale or long-term
23	lease
24	(A) in order to—

1	(i) provide services consistent with the
2	license; and
3	(ii) make unused spectrum available
4	to
5	(I) an unaffiliated covered small
6	carrier; or
7	(H) an unaffiliated carrier to
8	serve a rural area; and
9	(B) if the Commission finds that such a
10	program would promote—
11	(i) the availability of advanced tele-
12	communications services in rural areas; or
13	(ii) spectrum availability for covered
14	small earriers.
15	(2) Considerations.—In conducting the rule-
16	making proceeding under paragraph (1), the Com-
17	mission shall consider, with respect to the program
18	proposed to be established under that paragraph—
19	(A) whether reduced performance require-
20	ments with respect to spectrum obtained
21	through the program would facilitate deploy-
22	ment of advanced telecommunications services
23	in the areas covered by the program;
24	(B) what conditions may be needed on
25	transfers of spectrum under the program to

1	allow covered small carriers that obtain spec-
2	trum under the program to build out the spec-
3	trum in a reasonable period of time;
4	(C) what incentives may be appropriate to
5	encourage licensees to lease or sell spectrum, in-
6	cluding
7	(i) extending the term of a license
8	granted under section 301 of the Commu-
9	nications Act of 1934 (47 U.S.C. 301); or
10	(ii) modifying performance require-
11	ments of the license relating to the leased
12	or sold spectrum; and
13	(D) the administrative feasibility of—
14	(i) the incentives described in sub-
15	paragraph (C); and
16	(ii) other incentives considered by the
17	Commission that further the goals of this
18	section.
19	(3) Forfeiture of spectrum.—If a party
20	fails to meet any build out requirements set by the
21	Commission for any spectrum sold or leased under
22	this section, the right to the spectrum shall be for-
23	feited to the Commission unless the Commission
24	finds that there is good cause for the failure of the
25	party.

1	(4) REQUIREMENT.—The Commission may
2	offer a licensee incentives or reduced performance
3	requirements under this section only if the Commis-
4	sion finds that doing so would likely result in in-
5	creased availability of advanced telecommunications
6	services in a rural area.
7	SEC. 18. UNLICENSED SPECTRUM POLICY.
8	(a) STATEMENT OF POLICY.—It is the policy of the
9	United States—
10	(1) to maximize the benefit to the people of the
11	United States of the spectrum resources of the
12	United States;
13	(2) to advance innovation and investment in
14	wireless broadband services; and
15	(3) to promote spectrum policy that makes
16	available on an unlicensed basis radio frequency
17	bands sufficient to meet consumer demand for unli-
18	eensed wireless broadband operations.
19	(b) Commission Responsibilities.—The Commis-
20	sion shall ensure that the efforts of the Commission re-
21	lated to spectrum allocation and assignment make avail-
22	able on an unlicensed basis radio frequency bands suffi-
23	cient to meet demand for unlicensed wireless broadband
24	operations if doing so is, after taking into account the fu-
25	ture needs of other spectrum users—

1	(1) reasonable; and
2	(2) in the public interest.
3	(e) Commission Action.—Not later than 18 months
4	after the date of enactment of this Act, the Commission
5	shall take action to implement subsection (b).
6	SEC. 19. NATIONAL PLAN FOR UNLICENSED SPECTRUM.
7	(a) Definitions.—In this section:
8	(1) Spectrum relocation fund.—The term
9	"Spectrum Relocation Fund" means the Fund es-
10	tablished under section 118 of the National Tele-
11	communications and Information Administration Or-
12	ganization Act (47 U.S.C. 928).
13	(2) Unlicensed operations.—The term "un-
14	licensed operations" means the use of spectrum or
15	a non-exclusive basis under—
16	(A) part 15 of title 47, Code of Federal
17	Regulations; or
18	(B) licensing by rule under part 96 of title
19	47, Code of Federal Regulations.
20	(b) NATIONAL PLAN.—Not later than 1 year after
21	the date of enactment of this Act, the Commission, in con-
22	sultation with the NTIA, shall develop a national plan for
23	making additional radio frequency bands available for un-
24	licensed enerations

1	(e) REQUIREMENTS.—The plan developed under this
2	section shall—
3	(1) identify an approach that ensures that con-
4	sumers have access to additional spectrum to con-
5	duet unlicensed operations in a range of radio fre-
6	quencies to meet consumer demand;
7	(2) recommend specific actions by the Commis-
8	sion and the NTIA to permit unlicensed operations
9	in additional radio frequency ranges that the Com-
10	mission finds—
11	(A) are consistent with the statement of
12	policy under section 18(a);
13	(B) will—
14	(i) expand opportunities for unli-
15	censed operations in a spectrum band; or
16	(ii) otherwise improve spectrum utili-
17	zation and intensity of use of bands where
18	unlicensed operations are already per-
19	mitted;
20	(C) will not eause harmful interference to
21	Federal or non-Federal users of such bands
22	and
23	(D) will not significantly impact homeland
24	security or national security communications
25	systems: and

1	(3) examine additional ways, with respect to ex-
2	isting and planned databases or spectrum access sys-
3	tems designed to promote spectrum sharing and ac-
4	cess to spectrum for unlicensed operations—
5	(A) to improve accuracy and efficacy;
6	(B) to reduce burdens on consumers, man-
7	ufacturers, and service providers; and
8	(C) to protect sensitive Government infor-
9	mation.
10	(d) Spectrum Relocation Fund.—To be included
11	as part of the plan developed under this section, the NTIA
12	shall share with the Commission recommendations about
13	how to reform the Spectrum Relocation Fund—
14	(1) to address costs incurred by Federal entities
15	related to sharing radio frequency bands with radio
16	technologies conducting unlicensed operations; and
17	(2) to ensure the Spectrum Relocation Fund
18	has sufficient funds to cover—
19	(A) the costs described in paragraph (1);
20	and
21	(B) other expenditures allowed of the
22	Spectrum Relocation Fund under section 118 of
23	the National Telecommunications and Informa-
24	tion Administration Organization Act (47
25	U.S.C. 928).

1 (e) REPORT REQUIRED.— 2 (1) IN GENERAL.—Not later than 1 year after 3

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the date of enactment of this Act, the Commission shall submit to the appropriate committees of Congress a report that describes the plan developed under this section, including any recommendations for legislative change.

8 (2) Publication on commission website.— 9 Not later than the date on which the Commission 10 submits the report under paragraph (1), the Commission shall make the report publicly available on 12 the website of the Commission.

13 SEC. 20. SPECTRUM CHALLENGE PRIZE.

- (a) FINDINGS.—Congress finds the following:
- (1) The future competitiveness and global technology leadership of the United States depend, in part, upon the availability and efficient use of spectrum.
 - (2) Dramatic improvement in spectrum efficiency would spur innovation, investment, and economic growth.
 - (3) Radio frequency spectrum is vital for emergency communications, national security, law enforcement, aviation, maritime safety, space communications, and numerous other Federal functions.

1	(4) Prize competitions can spur innovation in
2	the private and public sectors.
3	(b) DEFINITION OF PRIZE COMPETITION.—In this
4	section, the term "prize competition" means a prize com-
5	petition conducted by the Secretary under subsection
6	(e)(1).
7	(c) Spectrum Challenge Prize.—
8	(1) In General.—The Secretary, in consulta-
9	tion with the Assistant Secretary of Commerce for
10	Communications and Information and the Under
11	Secretary of Commerce for Standards and Tech-
12	nology, shall, subject to the availability of funds for
13	prize competitions under this section—
14	(A) conduct prize competitions to dramati-
15	cally accelerate the development and commer-
16	cialization of technology that improves spectrum
17	efficiency and is capable of cost-effective deploy-
18	ment; and
19	(B) define a measurable set of perform-
20	ance goals for participants in the prize competi-
21	tions to demonstrate their solutions on a level
22	playing field while making a significant ad-
23	vancement over the current state of the art.
24	(2) Authority of Secretary. In carrying
25	out paragraph (1), the Secretary may—

1	(A) enter into a grant, contract, coopera-
2	tive agreement, or other agreement with a pri-
3	vate sector for-profit or nonprofit entity to ad-
4	minister the prize competitions;
5	(B) invite the Defense Advanced Research
6	Projects Agency, the Commission, the National
7	Aeronautics and Space Administration, the Na-
8	tional Science Foundation, or any other Federal
9	agency to provide advice and assistance in the
10	design or administration of the prize competi-
11	tions; and
12	(C) award not more than \$5,000,000, in
13	the aggregate, to the winner or winners of the
14	prize competitions.
15	(d) Criteria.—Not later than 180 days after the
16	date on which funds for prize competitions are made avail-
17	able pursuant to this section, the Commission shall publish
18	a technical paper on spectrum efficiency providing criteria
19	that may be used for the design of the prize competitions.
20	(e) Authorization of Appropriations.—There
21	are authorized to be appropriated such sums as may be

22 necessary to carry out this section.

1	SEC. 21. WIRELESS TELECOMMUNICATIONS TAX AND FEE
2	COLLECTION FAIRNESS.
3	(a) Short Title.—This section may be cited as the
4	"Wireless Telecommunications Tax and Fee Collection
5	Fairness Act''.
6	(b) FINDINGS.—Congress makes the following find-
7	ings:
8	(1) A State may designate an in-State or out-
9	of-State person as a collection agent for the State
10	and impose upon the person a duty to collect certain
11	taxes and fees for wireless telecommunications serv-
12	ices from residents of the State.
13	(2) States have the sovereign right to tax their
14	citizens, subject to the Constitution of the United
15	States and Federal law. States do not have the right
16	to tax interstate commerce or to impose taxes or
17	other obligations on citizens of other States without
18	limitation.
19	(3) A collection agent for a State may feasibly
20	collect taxes and fees from a customer in connection
21	with a financial transaction to which the agent and
22	customer are parties.
23	(4) Congress can help ensure against unreason-
24	able burdens on interstate commerce by prohibiting
25	each State from imposing a duty on any person to

serve as a collection agent for the State unless the

1 collection is in connection with a financial trans-2 action.

(c) DEFINITIONS.—In this section:

- (1) Financial transaction.—The term "financial transaction" means a transaction in which the purchaser or user of a wireless telecommunications service upon whom a tax, fee, or surcharge is imposed gives eash, eredit, or any other exchange of monetary value or consideration to the person who is required to collect or remit the tax, fee, or surcharge.
- (2) Local jurisdiction.—The term "local jurisdiction" means a political subdivision of a State.
- (3) STATE.—The term "State" means any of the several States, the District of Columbia, and any territory or possession of the United States.
- (4) STATE OR LOCAL JURISDICTION.—The term "State or local jurisdiction" includes any governmental entity or person acting on behalf of a State or local jurisdiction that has the authority to assess, impose, levy, or collect taxes or fees.
- (5) WIRELESS TELECOMMUNICATIONS SERV-ICE.—The term "wireless telecommunications service" means a commercial mobile radio service, as de-

1	fined in section 20.3 of title 47, Code of Federal
2	Regulations, or any successor thereto.
3	(d) Financial Transaction Requirement.—
4	(1) In General.—A State, or a local jurisdic-
5	tion of a State, may not require a person to collect
6	from, or remit on behalf of, any other person a State
7	or local tax, fee, or surcharge imposed on a pur-
8	chaser or user with respect to the purchase or use
9	of any wireless telecommunications service within
10	the State unless the collection or remittance is in
11	connection with a financial transaction between—
12	(A) the person that the State or local juris-
13	diction requires to collect or remit the tax, fee,
14	or surcharge; and
15	(B) the purchaser or user of the wireless
16	telecommunications service.
17	(2) Rule of construction.—Nothing in this
18	subsection shall be construed to affect the right of
19	a State or local jurisdiction to require the collection
20	of any tax, fee, or surcharge in connection with a fi-
21	nancial transaction.
22	(e) Enforcement.—
23	(1) PRIVATE RIGHT OF ACTION.—Any person
24	aggrieved by a violation of subsection (d) may bring
25	a civil action in an appropriate district court of the

- 1 United States for equitable relief in accordance with 2 paragraph (2) of this subsection.
- 3 (2) Jurisdiction of district courts.—Not-4 withstanding section 1341 of title 28, United States 5 Code, or the constitution or laws of any State, the 6 district courts of the United States shall have juris-7 diction, without regard to the amount in controversy or citizenship of the parties, to grant such manda-8 9 tory or prohibitive injunctive relief, interim equitable 10 relief, and declaratory judgments as may be nec-11 essary to prevent, restrain, or terminate any acts in 12 violation of subsection (d).

13 SEC. 22. RULES OF CONSTRUCTION.

- 14 (a) Ranges of Frequencies.—Each range of fre-
- 15 quencies described in this Act shall be construed to be in-
- 16 clusive of the upper and lower frequencies in the range.
- 17 (b) Assessment of Electromagnetic Spectrum
- 18 Reallocation.—Nothing in this Act shall be construed
- 19 to affect any requirement under section 156 of the Na-
- 20 tional Telecommunications and Information Administra-
- 21 tion Organization Act (47 U.S.C. 921 note), as added by
- 22 section 1062(a) of the National Defense Authorization Act
- 23 for Fiscal Year 2000.

1 SEC. 23. RELATIONSHIP TO MIDDLE CLASS TAX RELIEF

- 2 AND JOB CREATION ACT OF 2012.
- 3 Nothing in this Act shall be construed to limit, re-
- 4 strict, or circumvent in any way the implementation of the
- 5 nationwide public safety broadband network defined in
- 6 section 6001 of title VI of the Middle Class Tax Relief
- 7 and Job Creation Act of 2012 (47 U.S.C. 1401) or any
- 8 rules implementing that network under title VI of that Act
- 9 (47 U.S.C. 1401 et seq.).
- 10 SECTION 1. SHORT TITLE; TABLE OF CONTENTS.
- 11 (a) Short Title.—This Act may be cited as the
- 12 "Making Opportunities for Broadband Investment and
- 13 Limiting Excessive and Needless Obstacles to Wireless Act"
- 14 or the "MOBILE NOW Act".
- 15 (b) Table of Contents of this
- 16 Act is as follows:
 - Sec. 1. Short title; table of contents.
 - Sec. 2. Definitions.
 - Sec. 3. Making 500 megahertz available.
 - Sec. 4. Millimeter wave spectrum.
 - Sec. 5. 3 gigahertz spectrum.
 - Sec. 6. Communications facilities deployment on Federal property.
 - Sec. 7. Broadband infrastructure deployment.
 - Sec. 8. National broadband facilities asset database.
 - Sec. 9. Reallocation incentives.
 - Sec. 10. Bidirectional sharing study.
 - Sec. 11. Unlicensed services in guard bands.
 - Sec. 12. Pre-auction funding.
 - Sec. 13. Immediate transfer of funds.
 - Sec. 14. Amendments to the Spectrum Pipeline Act of 2015.
 - Sec. 15. GAO assessment of unlicensed spectrum and Wi-Fi use in low-income neighborhoods.
 - Sec. 16. Rulemaking related to partitioning or disaggregating licenses.
 - Sec. 17. Unlicensed spectrum policy.
 - Sec. 18. National plan for unlicensed spectrum.
 - Sec. 19. Spectrum challenge prize.
 - Sec. 20. Wireless telecommunications tax and fee collection fairness.

	Sec. 21. Rules of construction. Sec. 22. Relationship to Middle Class Tax Relief and Job Creation Act of 2012.
1	SEC. 2. DEFINITIONS.
2	In this Act:
3	(1) Appropriate committees of congress.—
4	The term "appropriate committees of Congress"
5	means—
6	(A) the Committee on Commerce, Science,
7	and Transportation of the Senate;
8	(B) the Committee on Energy and Com-
9	merce of the House of Representatives; and
10	(C) each committee of the Senate or of the
11	House of Representatives with jurisdiction over a
12	Federal entity affected by the applicable section
13	in which the term appears.
14	(2) Commission.—The term "Commission"
15	$means\ the\ Federal\ Communications\ Commission.$
16	(3) Federal enti-
17	ty" has the meaning given the term in section 113(l)
18	of the National Telecommunications and Information
19	Administration Organization Act (47 U.S.C. 923(l)).
20	(4) NTIA.—The term "NTIA" means the Na-
21	tional Telecommunications and Information Admin-
22	istration of the Department of Commerce.
23	(5) OMB.—The term "OMB" means the Office of

Management and Budget.

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1	(6) Secretary.—The term "Secretary" means
2	the Secretary of Commerce.
3	SEC. 3. MAKING 500 MEGAHERTZ AVAILABLE.
4	(a) Requirements.—
5	(1) In General.—Consistent with the Presi-
6	dential Memorandum of June 28, 2010, entitled
7	"Unleashing the Wireless Broadband Revolution" and
8	establishing a goal of making a total of 500 megahertz
9	of Federal and non-Federal spectrum available on a
10	licensed or unlicensed basis for wireless broadband use
11	by 2020, not later than December 31, 2020, the Sec-
12	retary, working through the NTIA, and the Commis-
13	sion shall make available a total of at least 255 mega-
14	hertz of Federal and non-Federal spectrum below the
15	frequency of 6000 megahertz for mobile and fixed
16	wireless broadband use.
17	(2) Unlicensed and licensed use.—Of the
18	spectrum made available under paragraph (1), not
19	less than—
20	(A) 100 megahertz shall be made available
21	on an unlicensed basis; and
22	(B) 100 megahertz shall be made available
23	on an exclusive, licensed basis for commercial
24	mobile use, pursuant to the Commission's au-
25	thority to implement such licensing in a flexible

1	manner, and subject to potential continued use
2	of such spectrum by incumbent Federal entities
3	in designated geographic areas indefinitely or for
4	such length of time stipulated in transition plans
5	approved by the Technical Panel under section
6	113(h) of the National Telecommunications and
7	Information Administration Organization Act
8	(47 U.S.C. 923(h)) for those incumbent entities
9	to be relocated to alternate spectrum.
10	(3) Non-eligible spectrum.—For purposes of
11	satisfying the requirement under paragraph (1), the
12	following spectrum shall not be counted:
13	(A) The frequencies between 1695 and 1710
14	megahertz.
15	(B) The frequencies between 1755 and 1780
16	megahertz.
17	(C) The frequencies between 2155 and 2180
18	megahertz.
19	(D) The frequencies between 3550 and 3700
20	megahertz.
21	(E) Spectrum that the Commission deter-
22	mines had more than de minimis mobile or fixed
23	wireless broadband operations within the band
24	on the day before the date of enactment of this
25	Act.

1	(4) Relocation prioritized over sharing.—
2	This section shall be carried out in accordance with
3	section 113(j) of the National Telecommunications
4	and Information Administration Organization Act
5	(47 U.S.C. 923(j)).
6	(5) Considerations.—In making spectrum
7	available under this section, the Secretary and Com-
8	mission shall consider—
9	(A) the need to preserve critical existing
10	and planned Federal Government capabilities;
11	(B) the impact on existing State, local, and
12	$tribal\ government\ capabilities;$
13	(C) the international implications;
14	(D) the need for appropriate enforcement
15	mechanisms and authorities; and
16	(E) the importance of the deployment of
17	wireless broadband services in rural areas of the
18	United States.
19	(b) Rules of Construction.—Nothing in this sec-
20	tion shall be construed—
21	(1) to impair or otherwise affect the functions of
22	the Director of OMB relating to budgetary, adminis-
23	trative, or legislative proposals;
24	(2) to require the disclosure of classified informa-
25	tion law enforcement sensitive information or other

- 1 information that must be protected in the interest of 2 national security; or
- 3 (3) to affect any requirement under section 156
 4 of the National Telecommunications and Information
 5 Administration Organization Act (47 U.S.C. 921
 6 note), as added by section 1062(a) of the National De7 fense Authorization Act for Fiscal Year 2000, or any
 8 other relevant statutory requirement applicable to the
 9 reallocation of Federal spectrum.

10 SEC. 4. MILLIMETER WAVE SPECTRUM.

- 11 (a) Feasibility Assessment.—Not later than 18
- 12 months after the date of enactment of this Act, the NTIA,
- 13 in consultation with the Commission, shall conduct a feasi-
- 14 bility assessment regarding the impact, on Federal entities
- 15 and operations in any of the following bands, of authorizing
- 16 mobile or fixed terrestrial wireless operations, including for
- 17 advanced mobile service operations, in the following bands:
- 18 (1) The band between 31800 and 33400 mega-
- 19 *hertz*.
- 20 (2) The band between 71000 and 76000 mega-
- 21 hertz.
- 22 (3) The band between 81000 and 86000 mega-
- 23 hertz.
- 24 (b) Requirements.—In conducting the feasibility as-
- 25 sessment under subsection (a), the NTIA shall—

- 1 (1) consult directly with Federal entities with re-2 spect to frequencies allocated to Federal use by such 3 entities in the bands identified in that subsection;
- 4 (2) consider what, if any, impact authorizing 5 mobile or fixed terrestrial wireless operations, includ-6 ing advanced mobile services operations, in any of 7 such frequencies would have on an affected Federal 8 entity; and
- 9 (3) identify any such frequencies in the bands 10 described in that subsection that the NTIA assessment 11 determines are feasible for authorizing for mobile or 12 fixed terrestrial wireless operations, including any 13 advanced mobile service operations.
- 14 (c) Report to Congress and the Commission.—
 15 Not later than 30 days after the date the feasibility assess16 ment under subsection (a) is complete, the NTIA shall sub17 mit to the appropriate committees of Congress a report on
 18 the feasibility assessment and provide a copy to the Com19 mission.
- 20 (d) FCC PROCEEDING.—Not later than 2 years after
 21 the date of enactment of this Act or 90 days after the date
 22 it receives the feasibility assessment under subsection (c),
 23 whichever is earlier, the Commission, in consultation with
 24 the NTIA, shall publish a notice of proposed rulemaking
 25 to consider service rules to authorize mobile or fixed terres-

1	trial wireless operations, including for advanced mobile
2	service operations, in the following radio frequency bands:
3	(1) The band between 24250 and 24450 mega-
4	hertz.
5	(2) The band between 25050 and 25250 mega-
6	hertz.
7	(3) The band between 31800 and 33400 mega-
8	hertz, except for any frequencies with Federal alloca-
9	tions.
10	(4) The band between 42000 and 42500 mega-
11	hertz.
12	(5) The band between 71000 and 76000 mega-
13	hertz, except for any frequencies with Federal alloca-
14	tions.
15	(6) The band between 81000 and 86000 mega-
16	hertz, except for any frequencies with Federal alloca-
17	tions.
18	(7) Any frequencies with Federal allocations
19	$identified\ as\ feasible\ under\ subsection\ (b) (3).$
20	(e) Considerations.—In conducting a rulemaking
21	under subsection (d), the Commission shall—
22	(1) consult with Federal entities via the NTIA
23	regarding the frequencies described in subsection
24	(d)(7);

1	(2) consider how the bands described in sub-
2	section (d) may be used to provide commercial wire-
3	less broadband service, including whether—
4	(A) such spectrum may be best used for li-
5	censed or unlicensed services, or some combina-
6	tion thereof; and
7	(B) to permit additional licensed operations
8	in such bands on a shared basis; and
9	(3) include technical characteristics under which
10	the bands described in subsection (d) may be em-
11	ployed for mobile or fixed terrestrial wireless oper-
12	ations, including any appropriate coexistence require-
13	ments.
14	SEC. 5. 3 GIGAHERTZ SPECTRUM.
15	(a) Between 3100 Megahertz and 3550 Mega-
16	HERTZ.—Not later than 18 months after the date of enact-
17	ment of this Act, and in consultation with the Commission
18	and the head of each affected Federal agency (or a designee
19	thereof), the Secretary shall submit to the Commission and
20	the appropriate committees of Congress a report evaluating
21	the feasibility of allowing commercial wireless services, li-
22	censed or unlicensed, to share use of the frequencies between
23	3100 megahertz and 3550 megahertz.
24	(b) Between 3700 Megahertz and 4200 Mega-
25	HERTZ.—Not later than 18 months after the date of enact-

- 64 ment of this Act, after notice and an opportunity for public comment, and in consultation with the Secretary and the head of each affected Federal agency (or a designee thereof), 4 the Commission shall submit to the Secretary and the appropriate committees of Congress a report evaluating the feasibility of allowing commercial wireless services, licensed or unlicensed, to share use of the frequencies between 3700 8 megahertz and 4200 megahertz. 9 (c) Requirements.—A report under subsection (a) or (b) shall include the following: 10 11 (1) An assessment of the operations of Federal
- 11 (1) An assessment of the operations of Federal 12 entities that operate Federal Government stations au-13 thorized to use the frequencies described in that sub-14 section.
 - (2) An assessment of the possible impacts of such sharing on Federal and non-Federal users already operating on the frequencies described in that subsection.
 - (3) The criteria that may be necessary to ensure shared licensed or unlicensed services would not cause harmful interference to Federal or non-Federal users already operating in the frequencies described in that subsection.
- (4) If such sharing is feasible, an identification
 of which of the frequencies described in that subsection

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- 1 are most suitable for sharing with commercial wire-
- 2 less services through the assignment of new licenses by
- 3 competitive bidding, for sharing with unlicensed oper-
- 4 ations, or through a combination of licensing and un-
- 5 licensed operations.
- 6 (d) Commission Action.—The Commission, in con-
- 7 sultation with the NTIA, shall seek public comment on the
- 8 reports required under subsections (a) and (b), including
- 9 regarding the bands identified in such reports as feasible
- 10 pursuant to subsection (c)(4).
- 11 SEC. 6. COMMUNICATIONS FACILITIES DEPLOYMENT ON
- 12 FEDERAL PROPERTY.
- 13 (a) In General.—Section 6409 of the Middle Class
- 14 Tax Relief and Job Creation Act of 2012 (47 U.S.C. 1455)
- 15 is amended by striking subsections (b), (c), and (d) and
- 16 inserting the following:
- 17 "(b) Federal Easements, Rights-of-Way, and
- 18 Leases.—
- 19 "(1) Grant.—If an executive agency, a State, a
- 20 political subdivision or agency of a State, or a per-
- 21 son, firm, or organization applies for the grant of an
- 22 easement, right-of-way, or lease to, in, over, or on a
- building or other property owned by the Federal Gov-
- 24 ernment for the right to install, construct, modify, or
- 25 maintain a communications facility installation, the

executive agency having control of the building or other property may grant to the applicant, on behalf of the Federal Government, subject to paragraph (5), an easement, right-of-way, or lease to perform such installation, construction, modification, or maintenance.

"(2) APPLICATION.—

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"(A) IN GENERAL.—The Administrator of General Services shall develop a common form for applications for easements, rights-of-way, and leases under paragraph (1) for all executive agencies that, except as provided in subparagraph (B), shall be used by all executive agencies and applicants with respect to the buildings or other property of each such agency.

"(B) Exception.—The requirement under subparagraph (A) for an executive agency to use the common form developed by the Administrator of General Services shall not apply to an executive agency if the head of an executive agency notifies the Administrator that the executive agency uses a substantially similar application.

"(3) FEE.—

"(A) In General.—Notwithstanding any other provision of law, the Administrator of Gen-

1	eral Services shall establish a fee for the grant of
2	an easement, right-of-way, or lease pursuant to
3	paragraph (1) that is based on direct cost recov-
4	ery.
5	"(B) Exceptions.—The Administrator of
6	General Services may establish exceptions to the
7	fee amount required under subparagraph (A)—
8	"(i) in consideration of the public ben-
9	efit provided by a grant of an easement,
10	right-of-way, or lease; and
11	"(ii) in the interest of expanding wire-
12	less and broadband coverage.
13	"(4) Use of fees collected.—Any fee
14	amounts collected by an executive agency pursuant to
15	paragraph (3) may be made available, as provided in
16	appropriations Acts, to such agency to cover the costs
17	of granting the easement, right-of-way, or lease.
18	"(5) Timely consideration of applica-
19	TIONS.—
20	"(A) In General.—Not later than 270
21	days after the date on which an executive agency
22	receives a duly filed application for an easement,
23	right-of-way, or lease under this subsection, the
24	executive agency shall—

1	"(i) grant or deny, on behalf of the
2	Federal Government, the application; and
3	"(ii) notify the applicant of the grant
4	or denial.
5	"(B) Explanation of Denial.—If an exec-
6	utive agency denies an application under sub-
7	paragraph (A), the executive agency shall notify
8	the applicant in writing, including a clear state-
9	ment of the reasons for the denial.
10	"(C) Applicability of environmental
11	LAWS.—Nothing in this paragraph shall be con-
12	strued to relieve an executive agency of the re-
13	quirements of division A of subtitle III of title
14	54, United States Code, or the National Envi-
15	ronmental Policy Act of 1969 (42 U.S.C. 4321 et
16	seq.).
17	"(D) Point of contact.—Upon receiving
18	an application under subparagraph (A), an exec-
19	utive agency shall designate one or more appro-
20	priate individuals within the executive agency to
21	act as a point of contact with the applicant.
22	"(c) Master Contracts for Communications Fa-
23	CILITY INSTALLATION SITINGS.—
24	"(1) In General.—Notwithstanding section 704
25	of the Telecommunications Act of 1996 (Public Law

1 104-104; 110 Stat. 151) or any other provision of 2 law, the Administrator of General Services shall—

> "(A) develop one or more master contracts that shall govern the placement of communications facility installations on buildings and other property owned by the Federal Government; and

> "(B) in developing the master contract or contracts, standardize the treatment of the placement of communications facility installations on building rooftops or facades, the placement of communications facility installations on rooftops or inside buildings, the technology used in connection with communications facility installations placed on Federal buildings and other property, and any other key issues the Administrator of General Services considers appropriate.

"(2) APPLICABILITY.—The master contract or contracts developed by the Administrator of General Services under paragraph (1) shall apply to all publicly accessible buildings and other property owned by the Federal Government, unless the Administrator of General Services decides that issues with respect to the siting of a communications facility installation on a specific building or other property warrant non-

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1	standard treatment of such building or other prop-
2	erty.
3	"(3) Application.—
4	"(A) In general.—The Administrator of
5	General Services shall develop a common form or
6	set of forms for communications facility installa-
7	tion siting applications that, except as provided
8	in subparagraph (B), shall be used by all execu-
9	tive agencies and applicants with respect to the
10	buildings and other property of each such agen-
11	cy.
12	"(B) Exception.—The requirement under
13	subparagraph (A) for an executive agency to use
14	the common form or set of forms developed by the
15	Administrator of General Services shall not
16	apply to an executive agency if the head of the
17	executive agency notifies the Administrator that
18	the executive agency uses a substantially similar
19	application.
20	"(d) Definitions.—In this section:
21	"(1) Communications facility installa-
22	TION.—The term 'communications facility installa-
23	tion' includes—
24	"(A) any infrastructure, including any
25	transmitting device, tower, or support structure,

1	and any equipment, switches, wiring, cabling,
2	power sources, shelters, or cabinets, associated
3	with the licensed or permitted unlicensed wireless
4	or wireline transmission of writings, signs, sig-
5	nals, data, images, pictures, and sounds of all
6	kinds; and
7	"(B) any antenna or apparatus that—
8	"(i) is designed for the purpose of
9	emitting radio frequency;
10	"(ii) is designed to be operated, or is
11	operating, from a fixed location pursuant to
12	authorization by the Commission or is
13	using duly authorized devices that do not
14	require individual licenses; and
15	"(iii) is added to a tower, building, or
16	$other\ structure.$
17	"(2) Executive Agency.—The term 'executive
18	agency' has the meaning given such term in section
19	102 of title 40, United States Code.".
20	(b) Savings Provision.—An application for an ease-
21	ment, right-of-way, or lease that was made or granted under
22	section 6409 of the Middle Class Tax Relief and Job Cre-
23	ation Act of 2012 (47 U.S.C. 1455) before the date of enact-
24	ment of this Act shall continue, subject to that section as
25	in effect on the day before such date of enactment.

1	(c) Streamlining Broadband Facility Applica-
2	TIONS.—
3	(1) Definition of communications facility
4	Installation.—In this subsection, the term "commu-
5	nications facility installation" has the meaning given
6	the term in section 6409(d) of the Middle Class Tax
7	Relief and Job Creation Act of 2012 (47 U.S.C.
8	1455(d)), as amended by subsection (a).
9	(2) Recommendations.—
10	(A) In General.—Not later than 2 years
11	after the date of enactment of this Act, the NTIA,
12	in coordination with the Department of the Inte-
13	rior, the Department of Agriculture, the Depart-
14	ment of Defense, the Department of Transpor-
15	tation, OMB, and the General Services Adminis-
16	tration, shall develop recommendations to
17	streamline the process for considering applica-
18	tions by those agencies under section 6409(b) of
19	the Middle Class Tax Relief and Job Creation
20	Act of 2012 (47 U.S.C. 1455(b)), as amended by
21	subsection (a).
22	(B) REQUIREMENTS FOR RECOMMENDA-
23	TIONS.—The recommendations developed under
24	subparagraph (A) shall include—

1	(i) procedures for the tracking of appli-
2	cations described in subparagraph (A);
3	(ii) methods by which to reduce the
4	amount of time between the receipt of an
5	application and the issuance of a final deci-
6	sion on an application;
7	(iii) policies to expedite renewals of an
8	easement, license, or other authorization to
9	locate communications facility installations
10	on land managed by the agencies described
11	in subparagraph (A); and
12	(iv) policies that would prioritize or
13	streamline a permit for construction in a
14	previously-disturbed right-of-way.
15	(C) Report to congress.—Not later than
16	2 years after the date on which the recommenda-
17	tions required under subparagraph (A) are devel-
18	oped, the NTIA shall submit to the Committee on
19	Commerce, Science, and Transportation of the
20	Senate and the Committee on Energy and Com-
21	merce of the House of Representatives a report
22	that describes—
23	(i) the status of the implementation of
24	the recommendations developed under sub-
25	paragraph (A); and

1	(ii) any improvements to the process
2	for considering applications described in
3	subparagraph (A) that have resulted from
4	those recommendations, including in par-
5	ticular the speed at which such applications
6	are reviewed and a final determination is
7	is sued.
8	SEC. 7. BROADBAND INFRASTRUCTURE DEPLOYMENT.
9	(a) Finding Regarding Federal and State De-
10	PARTMENTS OF TRANSPORTATION.—Congress finds that it
11	is the policy of the United States for the Department of
12	Transportation and State departments of transportation—
13	(1) to adjust or otherwise develop right-of-way
14	policies for Federal-aid highways to effectively accom-
15	$modate\ broadband\ in frastructure;$
16	(2) to allow for the safe and efficient accommo-
17	dation of broadband infrastructure in the public
18	right-of-way; and
19	(3) to the extent applicable, to coordinate with
20	other statewide telecommunication and broadband
21	plans when developing a statewide transportation im-
22	provement program.
23	(b) Definitions.—In this section:
24	(1) Appropriate state agency.—The term
25	"appropriate State agency" means a State govern-

1	mental agency that is recognized by the executive
2	branch of the State as having the experience necessary
3	to evaluate and carry out projects relating to the
4	proper and effective installation and operation of
5	$broad band\ in frastructure.$
6	(2) Broadband infrastructure.—The term
7	"broadband infrastructure" means any buried, under-
8	ground, or aerial facility, and any wireless or
9	wireline connection, that enables users to send and re-
10	ceive voice, video, data, graphics, or any combination
11	thereof.
12	(3) Broadband infrastructure entity.—The
13	term "broadband infrastructure entity" means any
14	entity that—
15	(A) installs, owns, or operates broadband
16	infrastructure; and
17	(B) provides broadband services in a man-
18	ner consistent with the public interest, conven-
19	ience, and necessity, as determined by the State.
20	(4) State.—The term "State" means—
21	(A) a State;
22	(B) the District of Columbia; and
23	(C) the Commonwealth of Puerto Rico.
24	(c) Broadband Infrastructure Deployment.—To
25	facilitate the installation of broadband infrastructure and

1	achieve the policy described in subsection (a), the Secretary
2	of Transportation shall ensure that each State that receives
3	funds under chapter 1 of title 23, United States Code, meets
4	the following requirements:
5	(1) Broadband consultation.—The State de-
6	partment of transportation, in consultation with ap-
7	propriate State agencies, shall—
8	(A) identify a broadband utility coordi-
9	nator, that may have additional responsibilities,
10	whether in the State department of transpor-
11	tation or in another State agency, that is re-
12	sponsible for facilitating the broadband infra-
13	structure right-of-way efforts within the State;
14	(B) establish a process for the registration
15	of broadband infrastructure entities that seek to
16	be included in those broadband infrastructure
17	right-of-way facilitation efforts within the State;
18	(C) establish a process to electronically no-
19	tify broadband infrastructure entities identified
20	under subparagraph (B) of the State transpor-
21	tation improvement program on an annual basis
22	and provide additional notifications as necessary
23	to achieve the goals of this section; and
24	(D) coordinate initiatives carried out under
25	this section with other statewide telecommuni-

- cation and broadband plans and State and local transportation and land use plans, including strategies to minimize repeated excavations that involve the installation of broadband infrastructure in a right-of-way.
- 6 (2) Priority.—If a State chooses to provide for 7 the installation of broadband infrastructure in the 8 right-of-way of an applicable Federal-aid highway 9 project under this subsection, the State department of 10 transportation shall carry out any appropriate meas-11 ures to ensure that any existing broadband infra-12 structure entities are not disadvantaged, as compared 13 to other broadband infrastructure entities, with re-14 spect to the program under this subsection.
- 15 (d) Effect of Section.—This section applies only
 16 to activities for which obligations or expenditures are ini17 tially approved on or after the date of enactment of this
 18 Act. Nothing in this section establishes a mandate or re19 quirement that a State install broadband infrastructure in
 20 a highway right-of-way.
- 21 SEC. 8. NATIONAL BROADBAND FACILITIES ASSET DATA-
- 22 **BASE**.
- 23 (a) DEFINITIONS.—In this section:

1	(1) Communications facility installation.—
2	The term "communications facility installation" in-
3	cludes—
4	(A) any infrastructure, including any
5	transmitting device, tower, or support structure,
6	and any equipment, switches, wiring, cabling,
7	power sources, shelters, or cabinets, associated
8	with the licensed or permitted unlicensed wireless
9	or wireline transmission of writings, signs, sig-
10	nals, data, images, pictures, and sounds of all
11	kinds; and
12	(B) any antenna or apparatus that—
13	(i) is designed for the purpose of emit-
14	$ting\ radio\ frequency;$
15	(ii) is designed to be operated, or is op-
16	erating, from a fixed location pursuant to
17	authorization by the Commission or is
18	using duly authorized devices that do not
19	require individual licenses; and
20	(iii) is added to a tower, building, or
21	other structure.
22	(2) Covered property.—The term "covered
23	property"—

1	(A) means any real property capable of
2	supporting a communications facility installa-
3	tion; and
4	(B) includes any interest in real property
5	described in subparagraph (A).
6	(3) Database.—The term "database" means the
7	database established under subsection (b).
8	(4) Executive Agency.—The term "Executive
9	agency" has the meaning given the term in section
10	105 of title 5, United States Code.
11	(b) Database Established.—Not later than June
12	30, 2018, the Director of the Office of Science and Tech-
13	nology Policy, in consultation with the Chairman of the
14	Commission, Assistant Secretary of Commerce for Commu-
15	nications and Information, Under Secretary of Commerce
16	for Standards and Technology, Administrator of General
17	Services, and Director of OMB, shall—
18	(1) establish and operate a single database of
19	any covered property that is owned, leased, or other-
20	wise managed by an Executive agency;
21	(2) make the database available to—
22	(A) any entity that—
23	(i) constructs or operates communica-
24	tions facility installations; or

1	(ii) provides communications service;
2	and
3	(B) any other entity that the Director of the
4	Office of Science and Technology Policy deter-
5	mines is appropriate; and
6	(3) establish a process for withholding data from
7	the database for national security, public safety, or
8	other national strategic concerns in accordance with
9	existing statutory authority and Executive order
10	mandates with respect to handling and protection of
11	such information.
12	(c) Public Comment.—
13	(1) In general.—Not later than 30 days after
14	the date of enactment of this Act, the Director of the
15	Office of Science and Technology Policy shall seek
16	public comment to inform the establishment and oper-
17	ation of the database.
18	(2) Contents.—In seeking public comment
19	under paragraph (1), the Director shall include a re-
20	quest for recommendations on—
21	(A) criteria that make real property capable
22	of supporting communications facility installa-
23	tions;
24	(B) types of information related to covered
25	property that should be included in the database;

1	(C) an interface by which accessibility to
2	the database for all users will be appropriately
3	efficient and secure; and
4	(D) other information the Director deter-
5	mines necessary to establish and operate the
6	database.
7	(d) Federal Agencies.—
8	(1) Initial provision of information.—Not
9	later than 90 days after the date on which the data-
10	base is established under subsection (b), the head of
11	an Executive agency shall provide to the Director of
12	the Office of Science and Technology Policy, in a
13	manner and format to be determined by the Director,
14	such information as the Director determines appro-
15	priate with respect to covered property owned, leased,
16	or otherwise managed by the Executive agency.
17	(2) Change to information previously pro-
18	VIDED.—In the case of any change to information
19	provided to the Director of the Office of Science and
20	Technology Policy by the head of an Executive agency
21	under paragraph (1), the head of the Executive agen-
22	cy shall provide updated information to the Director
23	not later than 30 days after the date of the change

(3) Subsequently acquired property.—If

an Executive agency acquires covered property after

24

the date on which the database is established under subsection (b), the head of the Executive agency shall provide to the Director of the Office of Science and Technology Policy the information required under paragraph (1) with respect to the covered property not later than 30 days after the date of the acquisition.

(e) State and Local Governments.—

(1) In General.—The Director of the Office of Science and Technology Policy (referred to in this subsection as the "Director") shall make the database available to State and local governments so that such governments may provide to the Director for inclusion in the database similar information to the information required under subsection (d)(1) regarding covered property owned, leased, or otherwise managed by such governments.

(2) Report on incentivizing participation By State and local governments.—

(A) In GENERAL.—Not later than 1 year after the date of enactment of this Act, the Director, in consultation with the Chairman of the Commission, the Assistant Secretary of Commerce for Communications and Information, the Under Secretary of Commerce for Standards and

Technology, the Administrator of General Services, and the Director of OMB, shall submit to the Committee on Commerce, Science, and Transportation of the Senate and the Committee on Energy and Commerce of the House of Representatives a report on potential ways to incentivize State and local governments to provide to the Director for inclusion in the database similar information to the information required under subsection (d)(1) regarding covered property owned, leased, or otherwise managed by such governments pursuant to paragraph (1) of this subsection or through other means.

- (B) Considerations.—The Director, in preparing the report under subparagraph (A), shall—
 - (i) consult with State and local governments, or their representatives, to identify for inclusion in the report the most cost-effective options for State and local governments to collect and provide the information described in subparagraph (A), including utilizing and leveraging State broadband initiatives and programs; and

- 1 (ii) make recommendations on ways 2 the Federal Government can assist State 3 and local governments in collecting and 4 providing the information described in sub-5 paragraph (A).
 - years after the date on which the database is established under this section, the Director shall submit to the Committee on Commerce, Science, and Transportation of the Senate and the Committee on Energy and Commerce of the House of Representatives an update to the report required under subparagraph (A) that identifies State and local governments that have contributed to the database and recommends ways to further incentivize participation by State and local governments pursuant to paragraph (1) of this subsection or through other means.

(f) Database Updates.—

(1) Timely inclusion.—After the establishment of the database, the Director of the Office of Science and Technology Policy shall ensure that information provided under subsection (d) or (e) is included in the database not later than 7 days after the date on which the Director receives the information.

- 1 (2) Date of addition or update.—Informa-
- 2 tion in the database relating to covered property shall
- 3 include the date on which the information was added
- 4 or most recently updated.
- 5 (g) REPORT.—Not later than 180 days after the date
- 6 the Director of the Office of Science and Technology Policy
- 7 seeks public comment under subsection (c)(1), the Director
- 8 shall submit to the Committee on Commerce, Science, and
- 9 Transportation of the Senate and the Committee on Energy
- 10 and Commerce of the House of Representatives a report on
- 11 the progress in establishing the database under this section.
- 12 The Director shall update the report annually until the date
- 13 that the database is fully operational. After the database
- 14 is fully operational and for the next 5 years thereafter, the
- 15 Director shall provide annual reports regarding the use of
- 16 the database, recommendations of how the database may
- 17 provide additional utility to the entities described in sub-
- 18 section (b)(2), if any recommendations are warranted, and
- 19 how previous recommendations have been implemented.

20 SEC. 9. REALLOCATION INCENTIVES.

- 21 (a) In General.—Not later than 18 months after the
- 22 date of enactment of this Act, the Secretary, in consultation
- 23 with the Commission, the Director of OMB, and the head
- 24 of each affected Federal agency (or a designee thereof), after
- 25 notice and an opportunity for public comment, shall submit

1	to the appropriate committees of Congress a report that in-
2	cludes legislative or regulatory recommendations to
3	incentivize a Federal entity to relinquish, or share with
4	Federal or non-Federal users, Federal spectrum for the pur-
5	pose of allowing commercial wireless broadband services to
6	operate on that Federal spectrum.
7	(b) Post-Auction Payments.—
8	(1) Report.—In preparing the report under
9	subsection (a), the Secretary shall—
10	(A) consider whether permitting eligible
11	Federal entities that are implementing a transi-
12	tion plan submitted under section 113(h) of the
13	National Telecommunications and Information
14	Administration Organization Act (47 U.S.C.
15	923(h)) to accept payments could result in access
16	to the eligible frequencies that are being reallo-
17	cated for exclusive non-Federal use or shared use
18	sooner than would otherwise occur without such
19	payments; and
20	(B) include the findings under subpara-
21	graph (A), including the analysis under para-
22	graph (2) and any recommendations for legisla-
23	tion, in the report.
24	(2) Analysis.—In considering payments under
25	paragraph (1)(A), the Secretary shall conduct an

1	analysis of whether and how such payments would af-
2	fect—
3	(A) bidding in auctions conducted under
4	section 309(j) of the Communications Act of
5	1934 (47 U.S.C. 309(j)) of such eligible fre-
6	quencies; and
7	(B) receipts collected from the auctions de-
8	$scribed\ in\ subparagraph\ (A).$
9	(3) Definitions.—In this subsection:
10	(A) Payment.—The term "payment" means
11	a payment in cash or in-kind by any auction
12	winner, or any person affiliated with an auction
13	winner, of eligible frequencies during the period
14	after eligible frequencies have been reallocated by
15	competitive bidding under section 309(j) of the
16	Communications Act of 1934 (47 U.S.C. 309(j))
17	but prior to the completion of relocation or shar-
18	ing transition of such eligible frequencies per
19	transition plans approved by the Technical
20	Panel.
21	(B) Eligible frequencies.—The term
22	"eligible frequencies" has the meaning given the
23	term in section $113(g)(2)$ of the National Tele-
24	communications and Information Administra-

 $tion\ Organization\ Act\ (47\ U.S.C.\ 923(g)(2)).$

1 SEC. 10. BIDIRECTIONAL SHARING STUDY.

2	(a) In General.—Not later than 1 year after the date
3	of enactment of this Act, including an opportunity for pub-
4	lic comment, the Commission, in collaboration with the
5	NTIA, shall—
6	(1) conduct a bidirectional sharing study to de-
7	termine the best means of providing Federal entities
8	flexible access to non-Federal spectrum on a shared
9	basis across a range of short-, mid-, and long-range
10	timeframes, including for intermittent purposes like
11	emergency use; and
12	(2) submit to Congress a report on the study
13	under paragraph (1), including any recommendations
14	for legislation or proposed regulations.
15	(b) Considerations.—In conducting the study under
16	subsection (a), the Commission shall—
17	(1) consider the regulatory certainty that com-
18	mercial spectrum users and Federal entities need to
19	make longer-term investment decisions for shared ac-
20	cess to be viable; and
21	(2) evaluate any barriers to voluntary commer-
22	cial arrangements in which non-Federal users could
23	provide access to Federal entities.
24	SEC. 11. UNLICENSED SERVICES IN GUARD BANDS.
25	(a) In General.—After public notice and comment,

26 and in consultation with the Secretary and the head of each

- 1 affected Federal agency (or a designee thereof), with respect
- 2 to frequencies allocated for Federal use, the Commission
- 3 shall adopt rules that permit unlicensed services where fea-
- 4 sible to use any frequencies that are designated as guard
- 5 bands to protect frequencies allocated after the date of enact-
- 6 ment of this Act by competitive bidding under section 309(j)
- 7 of the Communications Act of 1934 (47 U.S.C. 309(j)), in-
- 8 cluding spectrum that acts as a duplex gap between trans-
- 9 mit and receive frequencies.
- 10 (b) Limitation.—The Commission may not permit
- 11 any use of a guard band under this section that would cause
- 12 harmful interference to a licensed service or a Federal serv-
- 13 ice operating in the guard band or in an adjacent band.
- 14 (c) Rule of Construction.—Nothing in this section
- 15 shall be construed as limiting the Commission or the Sec-
- 16 retary from otherwise making spectrum available for li-
- 17 censed or unlicensed use in any frequency band in addition
- 18 to guard bands, including under section 3, consistent with
- 19 their statutory jurisdictions.
- 20 SEC. 12. PRE-AUCTION FUNDING.
- Section 118(d)(3)(B)(i)(II) of the National Tele-
- 22 communications and Information Administration Organi-
- 23 zation Act (47 U.S.C. 928(d)(3)(B)(i)(II)) is amended by
- 24 striking "5 years" and inserting "8 years".

1 SEC. 13. IMMEDIATE TRANSFER OF FUNDS.

2	Section 118(e)(1) of the National Telecommunications
3	and Information Administration Organization Act (47
4	U.S.C. 928(e)(1)) is amended by adding at the end the fol-
5	lowing:
6	"(D) At the request of an eligible Federal
7	entity, the Director of the Office of Management
8	and Budget (in this subsection referred to as
9	'OMB') may transfer the amount under subpara-
10	$graph \ (A) \ immediately$ —
11	"(i) after the frequencies are reallo-
12	cated by competitive bidding under section
13	309(j) of the Communications Act of 1934
14	(47 U.S.C. 309(j)); or
15	"(ii) in the case of an incumbent Fed-
16	eral entity that is incurring relocation or
17	sharing costs to accommodate sharing spec-
18	trum frequencies with another Federal enti-
19	ty, after the frequencies from which the
20	other eligible Federal entity is relocating
21	are reallocated by competitive bidding
22	under section 309(j) of the Communications
23	Act of 1934 (47 U.S.C. 309(j)), without re-
24	gard to the availability of such sums in the
25	Fund.

1	"(E) Prior to the deposit of proceeds into
2	the Fund from an auction, the Director of OMB
3	may borrow from the Treasury the amount
4	under subparagraph (A) for a transfer under
5	subparagraph (D). The Treasury shall imme-
6	diately be reimbursed, without interest, from
7	funds deposited into the Fund.".
8	SEC. 14. AMENDMENTS TO THE SPECTRUM PIPELINE ACT
9	OF 2015.
10	Section 1008 of the Spectrum Pipeline Act of 2015
11	(Public Law 114–74; 129 Stat. 584) is amended in the mat-
12	ter preceding paragraph (1) by inserting ", after notice and
13	an opportunity for public comment," after "the Commis-
14	sion".
15	SEC. 15. GAO ASSESSMENT OF UNLICENSED SPECTRUM
16	AND WI-FI USE IN LOW-INCOME NEIGHBOR-
17	HOODS.
18	(a) Study.—
19	(1) In General.—The Comptroller General of
20	the United States shall conduct a study to evaluate
21	the availability of broadband Internet access using
22	unlicensed spectrum and wireless networks in low-in-
23	$come\ neighborhoods.$

1	(2) Requirements.—In conducting the study
2	under paragraph (1), the Comptroller General shall
3	consider and evaluate—
4	(A) the availability of wireless Internet hot
5	spots and access to unlicensed spectrum in low-
6	income neighborhoods, particularly for elemen-
7	tary and secondary school-aged children in such
8	neighborhoods;
9	(B) any barriers preventing or limiting the
10	deployment and use of wireless networks in low-
11	$income\ neighborhoods;$
12	(C) how to overcome any barriers described
13	in subparagraph (B), including through incen-
14	tives, policies, or requirements that would in-
15	crease the availability of unlicensed spectrum
16	and related technologies in low-income neighbor-
17	hoods; and
18	(D) how to encourage home broadband
19	adoption by households with elementary and sec-
20	ondary school-age children that are in low-in-
21	$come\ neighborhoods.$
22	(b) REPORT.—Not later than 1 year after the date of
23	enactment of this Act, the Comptroller General shall submit
24	to the Committee on Commerce, Science, and Transpor-

1	tation of the Senate and the Committee on Energy and
2	Commerce of the House of Representatives a report that—
3	(1) summarizes the findings of the study con-
4	ducted under subsection (a); and
5	(2) makes recommendations with respect to po-
6	tential incentives, policies, and requirements that
7	could help achieve the goals described in subpara-
8	graphs (C) and (D) of subsection $(a)(2)$.
9	SEC. 16. RULEMAKING RELATED TO PARTITIONING OR
10	DISAGGREGATING LICENSES.
11	(a) Definitions.—In this section—
12	(1) Covered small carrier.—The term "cov-
13	ered small carrier" means a carrier (as defined in
14	section 3 of the Communications Act of 1934 (47
15	U.S.C. 153)) that—
16	(A) has not more than 1,500 employees (as
17	determined under section 121.106 of title 13,
18	Code of Federal Regulations, or any successor
19	thereto); and
20	(B) offers services using the facilities of the
21	carrier.
22	(2) Rural area.—The term "rural area" means
23	anu area other than—

1	(A) a city, town, or incorporated area that
2	has a population of more than 20,000 inhab-
3	itants; or
4	(B) an urbanized area contiguous and adja-
5	cent to a city or town that has a population of
6	more than 50,000 inhabitants.
7	(b) Rulemaking.—
8	(1) In general.—Not later than 1 year after
9	the date of enactment of this Act, the Commission
10	shall initiate a rulemaking proceeding to assess
11	whether to establish a program, or modify existing
12	programs, under which a licensee that receives a li-
13	cense for the exclusive use of spectrum in a specific
14	geographic area under section 301 of the Communica-
15	tions Act of 1934 (47 U.S.C. 301) may partition or
16	disaggregate the license by sale or long-term lease—
17	(A) in order to—
18	(i) provide services consistent with the
19	license; and
20	(ii) make unused spectrum available
21	to—
22	(I) an unaffiliated covered small
23	carrier; or
24	(II) an unaffiliated carrier to
25	serve a rural area; and

1	(B) if the Commission finds that such a
2	program would promote—
3	(i) the availability of advanced tele-
4	communications services in rural areas; or
5	(ii) spectrum availability for covered
6	small carriers.
7	(2) Considerations.—In conducting the rule-
8	making proceeding under paragraph (1), the Commis-
9	sion shall consider, with respect to the program pro-
10	posed to be established under that paragraph—
11	(A) whether reduced performance require-
12	ments with respect to spectrum obtained through
13	the program would facilitate deployment of ad-
14	vanced telecommunications services in the areas
15	covered by the program;
16	(B) what conditions may be needed on
17	transfers of spectrum under the program to allow
18	covered small carriers that obtain spectrum
19	under the program to build out the spectrum in
20	a reasonable period of time;
21	(C) what incentives may be appropriate to
22	encourage licensees to lease or sell spectrum, in-
23	cluding—

1	(i) extending the term of a license
2	granted under section 301 of the Commu-
3	nications Act of 1934 (47 U.S.C. 301); or
4	(ii) modifying performance require-
5	ments of the license relating to the leased or
6	sold spectrum; and
7	(D) the administrative feasibility of—
8	(i) the incentives described in subpara-
9	graph(C); and
10	(ii) other incentives considered by the
11	Commission that further the goals of this
12	section.
13	(3) Forfeiture of spectrum.—If a party
14	fails to meet any build out requirements set by the
15	Commission for any spectrum sold or leased under
16	this section, the right to the spectrum shall be forfeited
17	to the Commission unless the Commission finds that
18	there is good cause for the failure of the party.
19	(4) Requirement.—The Commission may offer
20	a licensee incentives or reduced performance require-
21	ments under this section only if the Commission finds
22	that doing so would likely result in increased avail-
23	ability of advanced telecommunications services in a
24	rural area.

1 SEC. 17. UNLICENSED SPECTRUM POLICY.

2	(a) Statement of Policy.—It is the policy of the
3	United States—
4	(1) to maximize the benefit to the people of the
5	United States of the spectrum resources of the United
6	States;
7	(2) to advance innovation and investment in
8	wireless broadband services; and
9	(3) to promote spectrum policy that makes avail-
10	able on an unlicensed basis radio frequency bands
11	sufficient to meet consumer demand for unlicensed
12	wireless broadband operations.
13	(b) Commission Responsibilities.—The Commis-
14	sion shall ensure that the efforts of the Commission related
15	to spectrum allocation and assignment make available on
16	an unlicensed basis radio frequency bands sufficient to meet
17	demand for unlicensed wireless broadband operations is
18	doing so is, after taking into account the future needs of
19	other spectrum users—
20	(1) reasonable; and
21	(2) in the public interest.
22	(c) Commission Action.—Not later than 18 months
23	after the date of enactment of this Act, the Commission shall
24	take action to implement subsection (b).

- 25 SEC. 18. NATIONAL PLAN FOR UNLICENSED SPECTRUM.
- 26 (a) Definitions.—In this section:

1	(1) Spectrum relocation fund.—The term
2	"Spectrum Relocation Fund" means the Fund estab-
3	lished under section 118 of the National Tele-
4	communications and Information Administration Or-
5	ganization Act (47 U.S.C. 928).
6	(2) Unlicensed operations.—The term "unli-
7	censed operations" means the use of spectrum on a
8	non-exclusive basis under—
9	(A) part 15 of title 47, Code of Federal Reg-
10	ulations; or
11	(B) licensing by rule under part 96 of title
12	47, Code of Federal Regulations.
13	(b) National Plan.—Not later than 1 year after the
14	date of enactment of this Act, the Commission, in consulta-
15	tion with the NTIA, shall develop a national plan for mak-
16	ing additional radio frequency bands available for unli-
17	censed operations.
18	(c) Requirements.—The plan developed under this
19	section shall—
20	(1) identify an approach that ensures that con-
21	sumers have access to additional spectrum to conduct
22	unlicensed operations in a range of radio frequencies
23	to meet consumer demand;
24	(2) recommend specific actions by the Commis-
25	sion and the NTIA to permit unlicensed operations in

1	additional radio frequency ranges that the Commis-
2	sion finds—
3	(A) are consistent with the statement of pol-
4	$icy\ under\ section\ 18(a);$
5	(B) will—
6	(i) expand opportunities for unlicensed
7	operations in a spectrum band; or
8	(ii) otherwise improve spectrum utili-
9	zation and intensity of use of bands where
10	unlicensed operations are already per-
11	mitted;
12	(C) will not cause harmful interference to
13	Federal or non-Federal users of such bands; and
14	(D) will not significantly impact homeland
15	security or national security communications
16	systems; and
17	(3) examine additional ways, with respect to ex-
18	isting and planned databases or spectrum access sys-
19	tems designed to promote spectrum sharing and access
20	to spectrum for unlicensed operations—
21	(A) to improve accuracy and efficacy;
22	(B) to reduce burdens on consumers, manu-
23	facturers, and service providers; and
24	(C) to protect sensitive Government infor-
25	mation.

1	(d) Spectrum Relocation Fund.—To be included as
2	part of the plan developed under this section, the NTIA
3	shall share with the Commission recommendations about
4	how to reform the Spectrum Relocation Fund—
5	(1) to address costs incurred by Federal entities
6	related to sharing radio frequency bands with radio
7	technologies conducting unlicensed operations; and
8	(2) to ensure the Spectrum Relocation Fund has
9	sufficient funds to cover—
10	(A) the costs described in paragraph (1);
11	and
12	(B) other expenditures allowed of the Spec-
13	trum Relocation Fund under section 118 of the
14	National Telecommunications and Information
15	Administration Organization Act (47 U.S.C.
16	928).
17	(e) Report Required.—
18	(1) In General.—Not later than 1 year after
19	the date of enactment of this Act, the Commission
20	shall submit to the appropriate committees of Con-
21	gress a report that describes the plan developed under
22	this section, including any recommendations for legis-
23	lative change.
24	(2) Publication on commission website.—
25	Not later than the date on which the Commission sub-

1	mits the report under paragraph (1), the Commission
2	shall make the report publicly available on the website
3	of the Commission.
4	SEC. 19. SPECTRUM CHALLENGE PRIZE.
5	(a) Short Title.—This section may be cited as the
6	"Spectrum Challenge Prize Act".
7	(b) Definition of Prize Competition.—In this sec-
8	tion, the term "prize competition" means a prize competi-
9	tion conducted by the Secretary under subsection $(c)(1)$.
10	(c) Spectrum Challenge Prize.—
11	(1) In General.—The Secretary, in consultation
12	with the Assistant Secretary of Commerce for Com-
13	munications and Information and the Under Sec-
14	retary of Commerce for Standards and Technology,
15	shall, subject to the availability of funds for prize
16	competitions under this section—
17	(A) conduct prize competitions to dramati-
18	cally accelerate the development and commer-
19	cialization of technology that improves spectrum
20	efficiency and is capable of cost-effective deploy-
21	ment; and
22	(B) define a measurable set of performance
23	goals for participants in the prize competitions
24	to demonstrate their solutions on a level plauing

1	field while making a significant advancement
2	over the current state of the art.
3	(2) Authority of Secretary.—In carrying
4	out paragraph (1), the Secretary may—
5	(A) enter into a grant, contract, cooperative
6	agreement, or other agreement with a private
7	sector for-profit or nonprofit entity to administer
8	the prize competitions;
9	(B) invite the Defense Advanced Research
10	Projects Agency, the Commission, the National
11	Aeronautics and Space Administration, the Na-
12	tional Science Foundation, or any other Federal
13	agency to provide advice and assistance in the
14	design or administration of the prize competi-
15	tions; and
16	(C) award not more than \$5,000,000, in the
17	aggregate, to the winner or winners of the prize
18	competitions.
19	(d) Criteria.—Not later than 180 days after the date
20	on which funds for prize competitions are made available
21	pursuant to this section, the Commission shall publish a
22	technical paper on spectrum efficiency providing criteria
23	that may be used for the design of the prize competitions.

1	(e) Authorization of Appropriations.—There are					
2	authorized to be appropriated such sums as may be need					
3	essary to carry out this section.					
4	SEC. 20. WIRELESS TELECOMMUNICATIONS TAX AND FEE					
5	COLLECTION FAIRNESS.					
6	(a) Short Title.—This section may be cited as the					
7	"Wireless Telecommunications Tax and Fee Collection					
8	Fairness Act".					
9	(b) Definitions.—In this section:					
10	(1) Financial transaction.—The term "finan-					
11	cial transaction" means a transaction in which the					
12	purchaser or user of a wireless telecommunications					
13	service upon whom a tax, fee, or surcharge is imposed					
14	gives cash, credit, or any other exchange of monetar					
15	value or consideration to the person who is required					
16	to collect or remit the tax, fee, or surcharge.					
17	(2) Local jurisdiction.—The term 'local ju-					
18	risdiction" means a political subdivision of a State.					
19	(3) State.—The term "State" means any of the					
20	several States, the District of Columbia, and any ter-					
21	ritory or possession of the United States.					
22	(4) State or local jurisdiction.—The term					
23	"State or local jurisdiction" includes any govern-					
24	mental entity or person acting on behalf of a State					

- or local jurisdiction that has the authority to assess, impose, levy, or collect taxes or fees.
- 3 (5) Wireless telecommunications service"
 4 ICE.—The term "wireless telecommunications service"
 5 means a commercial mobile radio service, as defined
 6 in section 20.3 of title 47, Code of Federal Regula7 tions, or any successor thereto.

(c) Financial Transaction Requirement.—

- (1) In General.—A State, or a local jurisdiction of a State, may not require a person to collect from, or remit on behalf of, any other person a State or local tax, fee, or surcharge imposed on a purchaser or user with respect to the purchase or use of any wireless telecommunications service within the State unless the collection or remittance is in connection with a financial transaction.
- (2) RULE OF CONSTRUCTION.—Nothing in this subsection shall be construed to affect the right of a State or local jurisdiction to require the collection of any tax, fee, or surcharge in connection with a financial transaction.

(d) Enforcement.—

(1) Private right of action.—Any person aggrieved by a violation of subsection (c) may bring a civil action in an appropriate district court of the

- United States for equitable relief in accordance with
 paragraph (2) of this subsection.
- 3 (2) Jurisdiction of district courts.—Not-4 withstanding section 1341 of title 28, United States 5 Code, or the constitution or laws of any State, the 6 district courts of the United States shall have jurisdiction, without regard to the amount in controversy 7 8 or citizenship of the parties, to grant such mandatory 9 or prohibitive injunctive relief, interim equitable re-10 lief, and declaratory judgments as may be necessary 11 to prevent, restrain, or terminate any acts in viola-12 tion of subsection (c).

13 SEC. 21. RULES OF CONSTRUCTION.

- 14 (a) RANGES OF FREQUENCIES.—Each range of fre-15 quencies described in this Act shall be construed to be inclu-16 sive of the upper and lower frequencies in the range.
- 17 (b) Assessment of Electromagnetic Spectrum
- 18 Reallocation.—Nothing in this Act shall be construed to
- 19 affect any requirement under section 156 of the National
- 20 Telecommunications and Information Administration Or-
- 21 ganization Act (47 U.S.C. 921 note), as added by section
- 22 1062(a) of the National Defense Authorization Act for Fis-
- 23 cal Year 2000.

1 SEC. 22. RELATIONSHIP TO MIDDLE CLASS TAX RELIEF AND

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	JOB CREATION ACT OF 2012.
_	JUB CREATION ACTION ACTION

- 3 Nothing in this Act shall be construed to limit, restrict,
- 4 or circumvent in any way the implementation of the na-
- 5 tionwide public safety broadband network defined in section
- 6 6001 of title VI of the Middle Class Tax Relief and Job
- 7 Creation Act of 2012 (47 U.S.C. 1401) or any rules imple-
- 8 menting that network under title VI of that Act (47 U.S.C.
- 9 1401 et seq.).

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115TH CONGRESS S. 19
1ST SESSION [Report No. 115-4]

A BILL

To provide opportunities for broadband investment, and for other purposes.

Reported with an amendment March 21, 2017