116TH CONGRESS 1ST SESSION H.R. 2636

AUTHENTICATED U.S. GOVERNMENT INFORMATION

> To promote the use of smart technologies and systems in communities, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

MAY 9, 2019

Ms. DELBENE (for herself and Mr. LUJÁN) introduced the following bill; which was referred to the Committee on Energy and Commerce, and in addition to the Committees on Science, Space, and Technology, Education and Labor, and Foreign Affairs, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

A BILL

To promote the use of smart technologies and systems in communities, and for other purposes.

- 1 Be it enacted by the Senate and House of Representa-
- 2 tives of the United States of America in Congress assembled,
- **3** SECTION 1. SHORT TITLE; TABLE OF CONTENTS.
- 4 (a) SHORT TITLE.—This Act may be cited as the
- 5 "Smart Cities and Communities Act of 2019".
- 6 (b) TABLE OF CONTENTS.—The table of contents for

7 this Act is as follows:

- Sec. 1. Short title; table of contents.
- Sec. 2. Purpose.
- Sec. 3. Definitions.

TITLE I—ENHANCING FEDERAL COORDINATION AND INVESTMENT IN SMART CITY OR COMMUNITY PROGRAMS

- Sec. 101. Coordination of activities among Federal agencies.
- Sec. 102. Smart city and community resource guide.

TITLE II—PROVIDING ASSISTANCE TO CITIES AND COMMUNITIES

- Sec. 201. Technology demonstration grant program.
- Sec. 202. Cybersecurity Working Group.
- Sec. 203. TechHire Workforce Training and Development Program.
- Sec. 204. GAO study on innovative financing.
- Sec. 205. Technical assistance, voucher pilot program, and technologist in residence pilot program.

TITLE III—IMPROVING PERFORMANCE AND INTEROPERABILITY

Sec. 301. Standards and interoperability framework.

TITLE IV—INTERNATIONAL COOPERATION AND BEST PRACTICES

Sec. 401. Development of global smart city or community best practices. Sec. 402. Trade program.

1 SEC. 2. PURPOSE.

The purpose of this Act is to promote smart technologies and systems to improve community livability, services, communication, safety, mobility, energy productivity, and resilience to natural and manmade disasters, to reduce costs, traffic congestion, and air pollution, and to promote economic growth and opportunities for communities of all sizes by—

- 9 (1) improving Federal Government coordination
 10 and outreach with respect to smart city or commu11 nity technologies;
- 12 (2) promoting the quality and performance of
 13 smart city or community technologies while pro14 tecting—

15 (A) the security of data and systems; and

1	(B) privacy;
2	(3) demonstrating the value and utility of
3	smart, local government-owned and -operated serv-
4	ices through the development and implementation of
5	performance standards;
6	(4) providing assistance to local governments
7	interested in implementing smart city or community
8	technologies;
9	(5) developing a workforce skilled in smart city
10	or community technologies; and
11	(6) expanding international cooperation and
12	trade in smart city or community technologies.
13	SEC. 3. DEFINITIONS.
13 14	SEC. 3. DEFINITIONS. In this Act:
14	In this Act:
14 15	In this Act: (1) COUNCIL.—The term "Council" means the
14 15 16	In this Act: (1) COUNCIL.—The term "Council" means the Interagency Council on Smart Cities established
14 15 16 17	In this Act: (1) COUNCIL.—The term "Council" means the Interagency Council on Smart Cities established under section 101(a)(1)(A)(i).
14 15 16 17 18	In this Act: (1) COUNCIL.—The term "Council" means the Interagency Council on Smart Cities established under section 101(a)(1)(A)(i). (2) DATA.—The term "data" includes informa-
14 15 16 17 18 19	In this Act: (1) COUNCIL.—The term "Council" means the Interagency Council on Smart Cities established under section 101(a)(1)(A)(i). (2) DATA.—The term "data" includes informa- tion and images.
 14 15 16 17 18 19 20 	In this Act: (1) COUNCIL.—The term "Council" means the Interagency Council on Smart Cities established under section 101(a)(1)(A)(i). (2) DATA.—The term "data" includes informa- tion and images. (3) LOCAL WORKFORCE DEVELOPMENT BOARD;
 14 15 16 17 18 19 20 21 	In this Act: (1) COUNCIL.—The term "Council" means the Interagency Council on Smart Cities established under section 101(a)(1)(A)(i). (2) DATA.—The term "data" includes informa- tion and images. (3) LOCAL WORKFORCE DEVELOPMENT BOARD; STATE WORKFORCE DEVELOPMENT BOARD.—The

1	board", respectively, in section 3 of the Workforce
2	Innovation and Opportunity Act (29 U.S.C. 3102).
3	(4) Secretaries.—The term "Secretaries"
4	means the Secretary, acting in coordination with—
5	(A) the Secretary of Energy;
6	(B) the Secretary of Housing and Urban
7	Development;
8	(C) the Secretary of Transportation;
9	(D) the Director of the National Science
10	Foundation; and
11	(E) as the Secretary determines to be ap-
12	propriate—
13	(i) the Secretary of Health and
14	Human Services;
15	(ii) the Secretary of Homeland Secu-
16	rity;
17	(iii) the Secretary of Labor; and
18	(iv) the Secretary of State.
19	(5) Secretary.—The term "Secretary" means
20	the Secretary of Commerce.
21	(6) Smart City or community.—
22	(A) IN GENERAL.—The term "smart city
23	or community" means a community in which
24	innovative, advanced, and trustworthy informa-

1	tion, communication, and energy technologies
2	and related mechanisms are applied—
3	(i) to improve the health and quality
4	of life of residents;
5	(ii) to increase the efficiency and cost
6	effectiveness of civic operations and serv-
7	ices;
8	(iii) to promote economic growth; and
9	(iv) to create a community that is
10	safer and more secure, sustainable, resil-
11	ient, livable, and workable.
12	(B) INCLUSIONS.—The term "smart city
13	or community" includes a local jurisdiction
14	that—
15	(i) gathers and incorporates data from
16	systems, devices, and sensors embedded in
17	civic systems and infrastructure to improve
18	the effectiveness and efficiency of civic op-
19	erations and services;
20	(ii) aggregates and analyzes gathered
21	data;
22	(iii) communicates the analysis and
23	data in a variety of formats;

	ů –
1	(iv) makes corresponding improve-
2	ments to civic systems and services based
3	on gathered data;
4	(v) coordinates with relevant public
5	and private sector entities (including enti-
6	ties providing electric, water, telecommuni-
7	cations, energy, and transportation serv-
8	ices) to leverage the activities carried out
9	by those entities;
10	(vi) integrates measures—
11	(I) to ensure the resilience of
12	civic systems against cybersecurity
13	threats and physical vulnerabilities
14	and breaches;
15	(II) to protect the private data of
16	residents; and
17	(III) to measure the impact of
18	smart city or community technologies
19	on the effectiveness and efficiency of
20	civic operations and services; and
21	(vii) promotes regional coordination of
22	the activities described in clauses (i)
23	through (vi).
24	(7) STATE.—The term "State" means—
25	(A) a State;

1	(B) the District of Columbia;
2	(C) the Commonwealth of Puerto Rico;
3	and
4	(D) any other territory or possession of the
5	United States.
6	(8) Working Group.—The term "Working
7	Group" means the Cybersecurity Working Group es-
8	tablished under section $202(b)(1)$.
9	TITLE I-ENHANCING FEDERAL
10	COORDINATION AND INVEST-
11	MENT IN SMART CITY OR
12	COMMUNITY PROGRAMS
13	SEC. 101. COORDINATION OF ACTIVITIES AMONG FEDERAL
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13 14	SEC. 101. COORDINATION OF ACTIVITIES AMONG FEDERAL AGENCIES.
13 14 15	SEC. 101. COORDINATION OF ACTIVITIES AMONG FEDERAL AGENCIES. (a) COORDINATION.—
13 14 15 16	SEC. 101. COORDINATION OF ACTIVITIES AMONG FEDERAL AGENCIES. (a) COORDINATION.— (1) COORDINATION OF ACTIVITIES.—
13 14 15 16 17	SEC. 101. COORDINATION OF ACTIVITIES AMONG FEDERAL AGENCIES. (a) COORDINATION.— (1) COORDINATION OF ACTIVITIES.— (A) FEDERAL COUNCIL.—
13 14 15 16 17 18	SEC. 101. COORDINATION OF ACTIVITIES AMONG FEDERAL AGENCIES. (a) COORDINATION.— (1) COORDINATION OF ACTIVITIES.— (A) FEDERAL COUNCIL.— (i) ESTABLISHMENT.—The Secre-
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1	(ii)	Membership.—The Council
2	shall—	
3		(I) be led by the Secretary; and
4		(II) include—
5		(aa) the Secretary of En-
6		ergy;
7		(bb) the Secretary of Hous-
8		ing and Urban Development;
9		(cc) the Secretary of Trans-
10		portation;
11		(dd) the Director of the Na-
12		tional Science Foundation;
13		(ee) the heads of such other
14		departments and agencies as the
15		Secretary determines to be ap-
16		propriate, including—
17		(AA) the Secretary of
18		Homeland Security;
19		(BB) the Secretary of
20		Labor; and
21		(CC) the Secretary of
22		State; and
23		(ff) such representatives of
24		industry expert organizations and
25		local government entities as the

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1	Secretary determines to be ap-
2	propriate.
3	(B) PRIORITIZATION.—For purposes of co-
4	ordinating Federal activities under subpara-
5	graph (A), the Secretaries shall prioritize the
6	conduct of Federal activities that would—
7	(i) demonstrate smart city or commu-
8	nity technologies in repeatable ways that
9	can rapidly be scaled;
10	(ii) encourage public, private, re-
11	gional, national, and international sharing
12	of data and best practices;
13	(iii) encourage private sector innova-
14	tion by promoting industry-driven tech-
15	nology standards, open platforms, tech-
16	nology-neutral requirements, and inter-
17	operability;
18	(iv) promote—
19	(I) a skilled workforce;
20	(II) an open and competitive
21	global market for smart city or com-
22	munity technologies;
23	(III) inclusion of all citizens, in-
24	cluding minority or disadvantaged
25	groups; and

	10
1	(IV) protocols and standards that
2	allow for the measurement and valida-
3	tion of the cost savings and perform-
4	ance improvements associated with
5	the installation and use of smart city
6	or community technologies and prac-
7	tices;
8	(v) foster the growth of the smart city
9	or community technology industry and
10	workforce in the United States;
11	(vi) encourage the adoption of smart
12	city or community technologies by commu-
13	nities;
14	(vii) safeguard cybersecurity, includ-
15	ing by promoting industry practices re-
16	garding cybersecurity; and
17	(viii) safeguard privacy and, in con-
18	sultation with cities, communities, and in-
19	dustry entities, establish parameters and
20	best practices for the full life cycle man-
21	agement of all types of smart city or com-
22	munity data, including collection, storage,
23	ownership, and sharing of data.
24	(C) CONSIDERATIONS.—The Secretaries
25	shall—

1	(i) ensure that the Federal activities
2	described in subparagraph (B) related to
3	safeguarding cybersecurity take into ac-
4	count existing Federal, State, and local
5	frameworks, guidelines, and best practices
6	when considering their application to smart
7	city technologies;
8	(ii) ensure that the Federal activities
9	described in subparagraph (B) take into
10	consideration software quality, especially
11	as that quality impacts reproducibility,
12	maintainability, reliability, and security,
13	especially of high-confidence systems;
14	(iii) conduct privacy impact assess-
15	ments for Federal activities that could neg-
16	atively affect privacy; and
17	(iv) ensure the privacy of individuals
18	through the use of technologies with inher-
19	ent privacy and security considerations.
20	(2) Strategy.—
21	(A) IN GENERAL.—The Secretaries, acting
22	through the Council, in consultation with indus-
23	try entities, cities, and communities, shall de-
24	velop a multiyear strategy for—

1 (i) the coordination of activities and funding under paragraph (1)(A); 2 3 (ii) the development of partnerships 4 with the private sector relating to smart 5 cities or communities; and 6 (iii) the promotion of international co-7 operation with respect to smart city or 8 community technologies and standards. 9 (B) REQUIREMENT.—The Secretaries shall coordinate with the heads of any applicable 10 11 Federal agencies to leverage private sector and 12 non-Federal public investment in smart city or 13 community technologies consistent with the 14 strategy developed under subparagraph (A). 15 (3) Assessment.— (A) IN GENERAL.—Not later than 180 16 17 days after the date of enactment of this Act, 18 the Secretary of Labor, in consultation with the 19 heads of other applicable Federal agencies, shall 20 coordinate with such private and public organi-21 zations and units of local government as the 22 Secretary of Labor determines to be appro-23 priate regarding the preparation of a smart city 24 or community technology workforce needs as-25 sessment.

1	(B) SUBMISSION.—On completion of the
2	assessment prepared under subparagraph (A),
3	the Secretary of Labor shall submit to the ap-
4	propriate committees of Congress and the
5	Council the completed assessment.
6	(4) Coordination of funds.—In promoting
7	the coordination of Federal funding relating to
8	smart city or community activities under paragraph
9	(1)(A) and in accordance with the strategy developed
10	under paragraph (2)(A), each of the Secretaries
11	shall—
12	(A) track, with respect to the appropriate
13	agency, the expenditures and planned expendi-
14	tures of Federal funds for smart city- or com-
15	munity-related activities, together with lever-
16	aged non-Federal matching funds; and
17	(B) coordinate with the head of any other
18	applicable Federal agency that allocates funds
19	for smart city or community activities—
20	(i) to achieve greater benefits from ac-
21	tivities using Federal funds;
22	(ii) to produce integrated projects re-
23	lating to those activities; and

1	(iii) to leverage complementary invest-
2	ments of other Federal agencies in those
3	activities.

4 (b) SUBMISSION OF INFORMATION AND BIENNIAL
5 REPORT.—During the 6-year period beginning on the date
6 of enactment of this Act—

7 (1) the head of each applicable Federal agency
8 shall submit to the Secretary information for inclu9 sion in the report submitted under paragraph (2);
10 and

11 (2) not less frequently than once every 2 years, 12 the Secretary shall submit to the Committees on 13 Commerce, Science, and Transportation and Energy 14 and Natural Resources of the Senate and the Com-15 mittees on Energy and Commerce and Transpor-16 tation and Infrastructure of the House of Represent-17 atives a report, based on the information under 18 paragraph (1), that includes—

19 (A) an update of the status of relevant
20 smart city or community technology develop21 ments and applications, including broadband in22 frastructure;

(B) a description of any related program
or activity that is funded by the Federal agency
during the period covered by the report;

1	(C) the budget of the agency for sup-
2	porting smart city or community activities, as
3	described in subsection $(a)(4)(A)$;
4	(D) any non-Federal cost-share contrib-
5	uted for activities for which Federal assistance
6	is provided under this section;
7	(E) a description of the applicable strategy
8	under subsection $(a)(2)(A)$, including a descrip-
9	tion of how the relevant programs are pro-
10	gressing under that strategy;
11	(F) a description of outreach activities con-
12	ducted under section 102(d), including the
13	amount and type of assistance required by cities
14	and communities to overcome barriers to imple-
15	menting smart city or community technologies,
16	and any Federal actions that are needed to
17	meet those needs;
18	(G) a description of projects funded under
19	section 201, including a description of—
20	(i) project outcomes and performance;
21	and
22	(ii) the use of leveraged non-Federal
23	funds; and
24	(H) such other information as the Sec-
25	retary determines to be necessary.

2 (a) PUBLICATION.—

3 (1) IN GENERAL.—The Secretaries, in coordina-4 tion with the heads of any other applicable Federal 5 agencies, shall create, publish, and maintain, for a 6 period of at least 6 years beginning on the date that 7 is 1 year after the date of enactment of this Act, a 8 resource guide designed to assist States and United 9 States communities and cities in developing and im-10 plementing smart city or community programs.

(2) INFORMATION INCLUDED.—The Secretaries,
in coordination with cities, communities, and industry entities, shall determine which information shall
be included in the guide under paragraph (1).

15 (b) REQUIREMENTS.—The guide published under16 subsection (a)—

17 (1) shall be maintained electronically on a18 website;

19 (2) shall be provided as an electronic reference20 guide available to the public free of charge; and

21 (3) may include—

(A) a compilation of existing related programs of the Federal Government available to
communities, including technical assistance,
education, training, research and development,
analysis, and funding;

1 (B) available examples of local govern-2 ments engaging private sector entities in order to implement smart city or community solu-3 4 tions, including public-private partnership models, such as the use of energy savings perform-5 6 ance contracts and utility energy service con-7 tracts or other innovative models, that could be 8 used to leverage private sector funding to in-9 crease energy productivity and reduce water, 10 transportation, and other costs to cities and 11 communities, including the results of the study 12 under section 204; 13 (C) available examples of proven methods 14 for local governments and utilities to facilitate

15 integration of smart technologies with new and16 existing infrastructure and systems;

17 (D) best practices and lessons learned
18 from technology demonstrations, including re19 turn on investment and performance informa20 tion to help cities decide how to initiate integra21 tion of smart technologies;

(E) Federal, State, and local best practices
for safeguarding cybersecurity and ensuring appropriate data management and data privacy;

1	(F) technical specifications for wireless or
2	wired broadband infrastructure to support
3	smart city technologies; and
4	(G) such other topics as are requested by
5	industry entities or local governments or deter-
6	mined to be necessary by the Secretaries.
7	(c) EXISTING GUIDES.—In creating, publishing, and
8	maintaining the guide under subsection (a), the Secre-
9	taries shall consider Federal, State, and local guides pub-
10	lished before, on, or after the date of enactment of this
11	Act relating to smart city or community goals, activities,
12	and best practices—
13	(1) to prevent duplication of efforts by the Fed-
13 14	(1) to prevent duplication of efforts by the Federal Government; and
14	eral Government; and
14 15 16	eral Government; and (2) to leverage existing complementary efforts.
14 15	eral Government; and(2) to leverage existing complementary efforts.(d) OUTREACH.—The Secretaries, in coordination
14 15 16 17 18	 eral Government; and (2) to leverage existing complementary efforts. (d) OUTREACH.—The Secretaries, in coordination with the heads of any applicable Federal agencies and in
14 15 16 17 18 19	eral Government; and (2) to leverage existing complementary efforts. (d) OUTREACH.—The Secretaries, in coordination with the heads of any applicable Federal agencies and in consultation with applicable private sector entities, shall
14 15 16 17	eral Government; and (2) to leverage existing complementary efforts. (d) OUTREACH.—The Secretaries, in coordination with the heads of any applicable Federal agencies and in consultation with applicable private sector entities, shall conduct outreach to States, cities, and communities—
14 15 16 17 18 19 20	eral Government; and (2) to leverage existing complementary efforts. (d) OUTREACH.—The Secretaries, in coordination with the heads of any applicable Federal agencies and in consultation with applicable private sector entities, shall conduct outreach to States, cities, and communities— (1) to provide interested States and cities with
 14 15 16 17 18 19 20 21 	eral Government; and (2) to leverage existing complementary efforts. (d) OUTREACH.—The Secretaries, in coordination with the heads of any applicable Federal agencies and in consultation with applicable private sector entities, shall conduct outreach to States, cities, and communities— (1) to provide interested States and cities with the guide published under subsection (a);

1	community program and activity data to the guide
2	published under subsection (a);
3	(3) to identify—
4	(A) barriers to smart city or community
5	technology adoption;
6	(B) any research, development, and assist-
7	ance that is needed, including in Tribal, rural,
8	and underserved communities; and
9	(C) local government programs that could
10	be included in the guide under subsection (a);
11	(4) to respond to requests for assistance, ad-
12	vice, or consultation from cities; and
13	(5) for other purposes, as identified by the Sec-
14	retaries.
15	TITLE II—PROVIDING ASSIST-
16	ANCE TO CITIES AND COMMU-
17	NITIES
18	SEC. 201. TECHNOLOGY DEMONSTRATION GRANT PRO-
19	GRAM.
20	(a) IN GENERAL.—The Secretary shall establish a
21	smart city or community regional demonstration grant
22	program under which the Secretary shall conduct dem-
23	onstration projects focused on advanced smart city or
24	community technologies and systems in a variety of com-

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1	munities, including small- and medium-sized cities and
2	rural and Tribal communities.
3	(b) GOALS.—The goals of the program established
4	under subsection (a) are—
5	(1) to demonstrate—
6	(A) potential benefits of concentrated in-
7	vestments in smart city or community tech-
8	nologies that are repeatable and scalable across
9	cities of different sizes; and
10	(B) the efficiency, reliability, and resilience
11	of civic infrastructure and services;
12	(2) to facilitate the adoption of advanced smart
13	city or community technologies and collaboration be-
14	tween small- and medium- to large-sized cities; and
15	(3) to demonstrate protocols and standards that
16	allow for the measurement and validation of the cost
17	savings and performance improvements associated
18	with the installation and use of smart city or com-
19	munity technologies and practices.
20	(c) DEMONSTRATION PROJECTS.—
21	(1) ELIGIBILITY.—Subject to paragraph (2), a
22	unit of local government shall be eligible to receive
23	a grant for a demonstration project under this sec-
24	tion.

1	(2) Application; cooperation.—To qualify
2	for a demonstration project under this section, a
3	unit of local government shall—
4	(A) submit to the Secretary an application
5	for a grant for a demonstration project at such
6	time and containing such information as the
7	Secretary may require; and
8	(B) agree to follow applicable best prac-
9	tices identified by the Secretaries, in consulta-
10	tion with industry entities and institutions of
11	higher education, to evaluate the effectiveness
12	of the implemented smart city or community
13	technologies to ensure that—
14	(i) technologies and interoperability
15	can be assessed;
16	(ii) best practices can be shared; and
17	(iii) data can be shared in a public,
18	interoperable, and transparent format.
19	(3) Federal share of cost of technology
20	INVESTMENTS.—The Secretary—
21	(A) subject to subparagraph (B), shall pro-
22	vide to a unit of local government selected
23	under this section for the conduct of a dem-
24	onstration project a grant in an amount equal
25	to not more than 50 percent of the total cost

1	of technology investments to incorporate and
2	assess qualifying smart city or community tech-
3	nologies in the applicable jurisdiction; but
4	(B) may waive the cost-share requirement
5	of subparagraph (A) as the Secretary deter-
6	mines to be appropriate.
7	(d) REQUIREMENT.—In conducting demonstration
8	projects under this section, the Secretary shall—
9	(1) develop competitive, technology-neutral re-
10	quirements;
11	(2) seek to leverage ongoing or existing civic in-
12	frastructure investments; and
13	(3) take into consideration the non-Federal cost
14	share as a competitive criterion in applicant selec-
15	tion in order to leverage non-Federal investment.
16	(e) Public Availability of Data and Re-
17	PORTS.—The Secretary shall ensure that reports, public
18	data sets, schematics, diagrams, and other works created
19	using a grant provided under this section are—
20	(1) available on a royalty-free, non-exclusive
21	basis; and
22	(2) open to the public to reproduce, publish, or
23	otherwise use, without cost.

(f) AUTHORIZATION OF APPROPRIATIONS.—There is
 authorized to be appropriated to carry out subsection (c)
 \$100,000,000 for each of fiscal years 2020 through 2024.
 SEC. 202. CYBERSECURITY WORKING GROUP.

5 (a) SENSE OF CONGRESS.—It is the sense of Con6 gress that—

7 (1) the work conducted by the Internet Policy 8 Task Force and the Digital Economy Leadership 9 Team of the Department of Commerce to foster an 10 enabling environment for Internet of Things tech-11 nology to grow and thrive, allow the private sector 12 to lead, and promote technology-neutral standards 13 and consensus-based multistakeholder approaches to 14 policymaking at local, Tribal, State, Federal, and 15 international levels on issues ranging from the secu-16 rity to the competitiveness of the United States is 17 valuable and should be continued; and

(2) the work conducted by the Department of
Commerce and the National Telecommunications
and Information Administration to create resources
for communities seeking to adopt smart cities or
communities technology is valuable and should be
continued.

24 (b) Establishment.—

1	(1) IN GENERAL.—The Secretary, in consulta-
2	tion with the Council, shall convene a multistake-
3	holder working group, to be known as the "Cyberse-
4	curity Working Group", to develop tools for commu-
5	nities to use to evaluate the cybersecurity of smart
6	city or community technologies.
7	(2) Membership.—
8	(A) IN GENERAL.—In appointing members
9	to the Working Group, the Secretary shall con-
10	sider appointing—
11	(i) representatives of consumer
12	groups;
13	(ii) representatives of small units of
14	local government, as determined by the
15	Secretary;
16	(iii) representatives of large units of
17	local government, as determined by the
18	Secretary;
19	(iv) manufacturers of smart city or
20	community devices, equipment, and soft-
21	ware;
22	(v) individuals with expertise in com-
23	munications networks;
24	(vi) Federal, State, and local law en-
25	forcement officials;

1	(vii) individuals with other expertise
2	necessary to carry out the duties of the
3	Working Group; and
4	(viii) such representatives of the
5	Council as the Secretary determines to be
6	appropriate.
7	(B) REPRESENTATION.—In appointing
8	members to the Working Group, the Secretary
9	shall ensure that the Working Group includes a
10	multidisciplinary cross section of smart city or
11	community stakeholders.
12	(3) DUTIES.—The Working Group shall—
13	(A) leverage and build on previous activi-
14	ties carried out by the Department of Com-
15	merce relating to Internet of Things technology;
16	(B) develop tools for communities to evalu-
17	ate the cybersecurity of smart city or commu-
18	nity technology being considered by the commu-
19	nities for adoption in those communities;
20	(C) develop tools for communities to pro-
21	tect against cybersecurity threats relevant to
22	the technology the community has chosen to
23	adopt;
24	(D)(i) assess—

1	(I) whether Internet of Things cyber-
2	security standards should exist; and
3	(II) whether the standards described
4	in subclause (I) should be voluntary or
5	mandatory; and
6	(ii) identify which entity is appropriate to
7	devise the standards described in clause $(i)(I)$;
8	and
9	(E) submit to the Council a report that de-
10	scribes the findings of the Working Group.
11	SEC. 203. TECHHIRE WORKFORCE TRAINING AND DEVEL-
12	OPMENT PROGRAM.
13	(a) IN GENERAL.—Not later than 18 months after
13 14	(a) IN GENERAL.—Not later than 18 months after the date of enactment of this Act, based on findings from
14	the date of enactment of this Act, based on findings from
14 15	the date of enactment of this Act, based on findings from the needs assessment conducted under section $101(a)(3)$,
14 15 16	the date of enactment of this Act, based on findings from the needs assessment conducted under section $101(a)(3)$, the Secretary of Labor, in consultation with the Secretary,
14 15 16 17	the date of enactment of this Act, based on findings from the needs assessment conducted under section $101(a)(3)$, the Secretary of Labor, in consultation with the Secretary, shall establish a pilot program, to be known as the
14 15 16 17 18	the date of enactment of this Act, based on findings from the needs assessment conducted under section 101(a)(3), the Secretary of Labor, in consultation with the Secretary, shall establish a pilot program, to be known as the "TechHire Workforce Training and Development Pilot
14 15 16 17 18 19	the date of enactment of this Act, based on findings from the needs assessment conducted under section 101(a)(3), the Secretary of Labor, in consultation with the Secretary, shall establish a pilot program, to be known as the "TechHire Workforce Training and Development Pilot Program", under which the Secretary of Labor, during the
14 15 16 17 18 19 20	the date of enactment of this Act, based on findings from the needs assessment conducted under section 101(a)(3), the Secretary of Labor, in consultation with the Secretary, shall establish a pilot program, to be known as the "TechHire Workforce Training and Development Pilot Program", under which the Secretary of Labor, during the 5-year period beginning on the date of enactment of this
 14 15 16 17 18 19 20 21 	the date of enactment of this Act, based on findings from the needs assessment conducted under section 101(a)(3), the Secretary of Labor, in consultation with the Secretary, shall establish a pilot program, to be known as the "TechHire Workforce Training and Development Pilot Program", under which the Secretary of Labor, during the 5-year period beginning on the date of enactment of this Act, shall provide to eligible entities, on a competitive

(b) REQUIREMENTS.—A job training and education
 program that is awarded a grant under this section
 shall—
 (1) provide technology-based training across
 two or more sectors;
 (2) focus on smart city or community tech-

6 (2) focus on smart city or community tech7 nologies, systems, and infrastructure across all sec8 tors of the economy;

9 (3) address privacy and cybersecurity consider-10 ations; and

11 (4) address smart city or community workforce 12 needs identified by the Secretary of Labor, after 13 consultation with other applicable Federal agencies. 14 (c) ELIGIBLE ENTITIES.—To be eligible to receive a 15 grant under this section, an entity shall be a public organization or an organization described in section 501(c) of 16 17 the Internal Revenue Code of 1986 and exempt from taxation under section 501(a) of that Code that— 18

19 (1) includes an advisory board, which may be—
20 (A)(i) a local workforce development board;
21 (ii) a State workforce development board;
22 or

23 (iii) an appropriate subgroup of a local
24 workforce development board or a State work25 force development board; or

1	(B) a board of proportional participation,
2	as determined by the Secretary of Labor, of rel-
3	evant organizations, including—
4	(i) relevant industry organizations, in-
5	cluding public and private employers;
6	(ii) labor organizations;
7	(iii) one or more units of local govern-
8	ment that are actively pursuing smart city
9	or community programs; and
10	(iv) postsecondary education organiza-
11	tions;
12	(2) demonstrates experience in implementing
13	and operating job training and education programs;
14	(3) demonstrates the ability to recruit and sup-
15	port individuals who plan to work in a relevant sec-
16	tor on the successful completion of relevant job
17	training and education programs;
18	(4)(A) provides students who complete the
19	training and education program with an industry-
20	recognized credential; or
21	(B) uses a curriculum that has received exten-
22	sive feedback from employers; and
23	(5) demonstrates successful outcomes con-
24	necting graduates of job training and education pro-

grams to quality jobs relevant to the job training
 and education programs.

3 (d) APPLICATIONS.—An eligible entity seeking a 4 grant under this section shall submit to the Secretary of 5 Labor an application at such time, in such manner, and 6 containing such information as the Secretary of Labor 7 may require.

8 (e) PRIORITY.—In selecting eligible entities to receive
9 grants under this section, the Secretary of Labor shall
10 prioritize applicants that—

(1)(A) are a local workforce development board
or State workforce development board; or

(B) demonstrate a strong partnership with a
local workforce development board or State workforce development board;

16 (2) house the job training and education pro-17 gram in—

(A) a community college or institution of
higher education that includes basic science,
technology, and math education in the curriculum of the community college or institution
of higher education; or

23 (B) an apprenticeship program registered
24 with the Department of Labor or a State;

1	(3) work with the Secretary of Defense or vet-
2	erans organizations to transition members of the
3	Armed Forces and veterans to careers in a relevant
4	sector;
5	(4) include in the application an entity that re-
6	ceives State funding or is operated by a State agen-
7	cy;
8	(5) include an apprenticeship program reg-
9	istered with the Department of Labor or a State as
10	part of the job training and education program;
11	(6) provide support services and career coach-
12	ing;
13	(7) provide entry-level technology workforce
14	training aimed at matching workers with well-paying
15	jobs; or
16	(8) propose to serve—
17	(A) young adults between the ages of 16
18	and 24; or
19	(B) individuals with barriers to employ-
20	ment (as defined in section 3 of the Workforce
21	Innovation and Opportunity Act (29 U.S.C.
22	3102)).
23	(f) Additional Consideration.—In making grants
24	under this section, the Secretary of Labor shall consider
25	regional diversity.

(g) LIMITATION ON APPLICATIONS.—An eligible enti ty may not submit, either individually or as part of a joint
 application, more than 1 application for a grant under this
 section during any 1 fiscal year.

5 (h) LIMITATIONS ON AMOUNT OF GRANT.—The
6 amount of a single grant provided under this section for
7 any 1 year shall not exceed \$5,000,000.

8 (i) NON-FEDERAL SHARE.—The non-Federal share 9 of the cost of a job training and education program carried 10 out using a grant under this section shall be not less than 11 25 percent of the total cost.

(j) REDUCTION OF DUPLICATION.—Before submitting an application for a grant under this section, each
applicant shall—

(1) consult with the heads of appropriate Fed-eral agencies; and

17 (2) coordinate the proposed activities of the ap-18 plicant with existing State and local programs.

(k) TECHNICAL ASSISTANCE.—The Secretary of
Labor, in consultation with the Secretary, may provide
technical assistance to eligible entities under subsection
(c) to leverage the existing job training and education programs of the Department of Labor and other relevant programs at appropriate Federal agencies.

1	(l) REPORT.—Not less frequently than once every 2
2	years, the Secretary of Labor shall submit to Congress,
3	and make publicly available on the website of the Depart-
4	ment of Labor, a report on the program established under
5	this section, including a description of—
6	(1) any entity that receives a grant under this
7	section;
8	(2) any activity carried out using the grants
9	under this section;
10	(3) best practices used to leverage the invest-
11	ment of the Federal Government under this section;
12	and
13	(4) an assessment of the results achieved by the
14	program established under this section, including the
15	rate of employment for participants after completing
16	a job training and education program carried out
17	using a grant under this section.
18	(m) AUTHORIZATION OF APPROPRIATIONS.—There is
19	authorized to be appropriated to carry out this section
20	\$100,000,000 for each of fiscal years 2020 through 2024.
21	SEC. 204. GAO STUDY ON INNOVATIVE FINANCING.
22	Not later than 1 year after the date of enactment
23	of this Act, the Comptroller General of the United States
24	shall conduct a study to identify—

1 (1) financial and procurement mechanisms cur-2 rently available to public and private entities to fund 3 smart city or community activities and associated 4 demonstration projects, including "pay for perform-5 ance" financing that could deliver measurable and 6 verifiable market and non-market values to smart 7 cities or communities;

8 (2) new, innovative financial and procurement 9 mechanisms under development or used experi-10 mentally that may be available, in the near term, to 11 public and private entities to fund smart city or 12 community activities and associated demonstration 13 projects;

14 (3) barriers to creative financing solutions for
15 those activities and projects, including procurement
16 barriers faced by State and local governments; and
17 (4) ways to leverage private sector investments
18 in smart cities and communities.

19 SEC. 205. TECHNICAL ASSISTANCE, VOUCHER PILOT PRO20 GRAM, AND TECHNOLOGIST IN RESIDENCE
21 PILOT PROGRAM.

(a) TECHNICAL ASSISTANCE PROGRAM.—The Secretary of Energy shall establish a program to provide technical assistance to cities seeking to incorporate smart city
technologies.

(b) Smart City Voucher Pilot Program.—

1

(1) IN GENERAL.—The Secretary of Energy
shall develop and implement a pilot program to improve the access of cities to the expertise, competencies, and infrastructure of National Laboratories for the purposes of promoting smart city technologies.

8 (2) PARTNERSHIPS.—In carrying out the pro-9 gram under this subsection, the Secretary of Energy 10 shall provide to a city that has partnered with a 11 small business concern access to the expertise of Na-12 tional Laboratories.

13 (c) Technologist in Residence Pilot Pro-14 gram.—

(1) IN GENERAL.—The Secretary of Energy
shall expand the Technologist in Residence pilot program of the Department of Energy to include partnerships between National Laboratories and cities
with respect to research and development relating to
smart cities.

(2) REQUIREMENTS.—For purposes of the partnerships entered into under paragraph (1), technologists in residence shall work with an assigned
city to develop an assessment of smart city tech-

 city objectives of the city. (d) GUIDANCE.—The Secretary of Energy, in con- sultation with the Secretary, shall issue guidance with re- spect to— (1) the scope of the programs established under subsections (a) through (c); and (2) requests for proposals from cities interested in participating in those programs. (e) CONSIDERATIONS.—In establishing the programs under subsections (a) through (c), the Secretary of Energy shall seek to address the needs of small- and medium-sized cities. (f) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to carry out this section \$20,000,000 for each of fiscal years 2020 through 2024. TITILE III—IMPROVING PER- FORMANCE AND INTEROPERS- ABILITY SEC. 301. STANDARDS AND INTEROPERABILITY FRAME- work. (a) PARTICIPATION.—To strengthen the public-pri- vate partnership approach to smart city-related or commu- nity-related standards development and interoperability, 	1	nologies available and appropriate to meet the smart
 4 sultation with the Secretary, shall issue guidance with re- spect to— (1) the scope of the programs established under subsections (a) through (e); and (2) requests for proposals from eities interested in participating in those programs. (c) CONSIDERATIONS.—In establishing the programs (e) CONSIDERATIONS.—In establishing the programs under subsections (a) through (e), the Secretary of Energy shall seek to address the needs of small- and medium-sized cities. (f) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to carry out this section \$20,000,000 for each of fiscal years 2020 through 2024. TITLE III—IMPROVING PER- FORMANCE AND INTEROPERB- ABILITY SEC. 301. STANDARDS AND INTEROPERABILITY FRAME- work. (a) PARTICIPATION.—To strengthen the public-pri- vate partnership approach to smart city-related or commu- nity-related standards development and interoperability, 	2	city objectives of the city.
 5 spect to— (1) the scope of the programs established under subsections (a) through (c); and (2) requests for proposals from cities interested in participating in those programs. (e) CONSIDERATIONS.—In establishing the programs under subsections (a) through (c), the Secretary of Energy shall seek to address the needs of small- and medium-sized cities. (f) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to earry out this section \$20,000,000 for each of fiscal years 2020 through 2024. TITLE III—IMPROVING PER- FORMANCE AND INTEROPER- ABILITY SEC. 301. STANDARDS AND INTEROPERABILITY FRAME- work. (a) PARTICIPATION.—To strengthen the public-pri- vate partnership approach to smart city-related or commu- nity-related standards development and interoperability, 	3	(d) GUIDANCE.—The Secretary of Energy, in con-
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 8 (2) requests for proposals from cities interested 9 in participating in those programs. 10 (e) CONSIDERATIONS.—In establishing the programs 11 under subsections (a) through (c), the Secretary of Energy 12 shall seek to address the needs of small- and medium-sized 13 cities. 14 (f) AUTHORIZATION OF APPROPRIATIONS.—There is 15 authorized to be appropriated to carry out this section 16 \$20,000,000 for each of fiscal years 2020 through 2024. 17 TITLE III—IMPROVING PER- FORMANCE AND INTEROPER- ABILITY 20 SEC. 301. STANDARDS AND INTEROPERABILITY FRAME- 21 wORK. 22 (a) PARTICIPATION.—To strengthen the public-pri- 23 vate partnership approach to smart city-related or commu- 24 nity-related standards development and interoperability, 	6	(1) the scope of the programs established under
 9 in participating in those programs. 10 (e) CONSIDERATIONS.—In establishing the programs 11 under subsections (a) through (c), the Secretary of Energy 12 shall seek to address the needs of small- and medium-sized 13 cities. 14 (f) AUTHORIZATION OF APPROPRIATIONS.—There is 15 authorized to be appropriated to carry out this section 16 \$20,000,000 for each of fiscal years 2020 through 2024. 17 TITLE III—IMPROVING PER- 18 FORMANCE AND INTEROPER- 19 ABILITY 20 SEC. 301. STANDARDS AND INTEROPERABILITY FRAME- 21 WORK. 22 (a) PARTICIPATION.—To strengthen the public-pri- 23 vate partnership approach to smart city-related or commu- 24 nity-related standards development and interoperability, 	7	subsections (a) through (c); and
 (e) CONSIDERATIONS.—In establishing the programs under subsections (a) through (c), the Secretary of Energy shall seek to address the needs of small- and medium-sized cities. (f) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to carry out this section \$20,000,000 for each of fiscal years 2020 through 2024. TITLE III—IMPROVING PER- FORMANCE AND INTEROPER- ABILITY SEC. 301. STANDARDS AND INTEROPERABILITY FRAME- (a) PARTICIPATION.—To strengthen the public-pri- vate partnership approach to smart city-related or commu- nity-related standards development and interoperability, 	8	(2) requests for proposals from cities interested
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 12 shall seek to address the needs of small- and medium-sized 13 cities. 14 (f) AUTHORIZATION OF APPROPRIATIONS.—There is 15 authorized to be appropriated to carry out this section 16 \$20,000,000 for each of fiscal years 2020 through 2024. 17 TITLE III—IMPROVING PER- FORMANCE AND INTEROPER- ABILITY 20 SEC. 301. STANDARDS AND INTEROPERABILITY FRAME- 21 WORK. 22 (a) PARTICIPATION.—To strengthen the public-pri- 23 vate partnership approach to smart city-related or commu- 24 nity-related standards development and interoperability, 	10	(e) CONSIDERATIONS.—In establishing the programs
 13 cities. 14 (f) AUTHORIZATION OF APPROPRIATIONS.—There is 15 authorized to be appropriated to carry out this section 16 \$20,000,000 for each of fiscal years 2020 through 2024. 17 TITLE III—IMPROVING PER- 18 FORMANCE AND INTEROPER- 19 ABILITY 20 SEC. 301. STANDARDS AND INTEROPERABILITY FRAME- 21 WORK. 22 (a) PARTICIPATION.—To strengthen the public-pri- 23 vate partnership approach to smart city-related or commu- 24 nity-related standards development and interoperability, 	11	under subsections (a) through (c), the Secretary of Energy
 (f) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to carry out this section \$20,000,000 for each of fiscal years 2020 through 2024. TITLE III—IMPROVING PER- FORMANCE AND INTEROPER- ABILITY SEC. 301. STANDARDS AND INTEROPERABILITY FRAME- work. (a) PARTICIPATION.—To strengthen the public-pri- vate partnership approach to smart city-related or commu- inty-related standards development and interoperability, 	12	shall seek to address the needs of small- and medium-sized
 15 authorized to be appropriated to carry out this section 16 \$20,000,000 for each of fiscal years 2020 through 2024. 17 TITLE III—IMPROVING PER- 18 FORMANCE AND INTEROPER- 19 ABILITY 20 SEC. 301. STANDARDS AND INTEROPERABILITY FRAME 21 WORK. 22 (a) PARTICIPATION.—To strengthen the public-pri- 23 vate partnership approach to smart city-related or commu- 24 nity-related standards development and interoperability, 	13	cities.
 16 \$20,000,000 for each of fiscal years 2020 through 2024. 17 TITLE III—IMPROVING PER- FORMANCE AND INTEROPER- B FORMANCE AND INTEROPER- ABILITY 20 SEC. 301. STANDARDS AND INTEROPERABILITY FRAME- 21 work. 22 (a) PARTICIPATION.—To strengthen the public-pri- 23 vate partnership approach to smart city-related or commu- 24 nity-related standards development and interoperability, 	14	(f) AUTHORIZATION OF APPROPRIATIONS.—There is
 17 TITLE III—IMPROVING PER- FORMANCE AND INTEROPER- BERNANCE AND INTEROPERABILITY FRAME- ABILITY 20 SEC. 301. STANDARDS AND INTEROPERABILITY FRAME- 21 WORK. 22 (a) PARTICIPATION.—To strengthen the public-pri- 23 vate partnership approach to smart city-related or commu- 24 nity-related standards development and interoperability, 	15	authorized to be appropriated to carry out this section
 18 FORMANCE AND INTEROPER- 19 ABILITY 20 SEC. 301. STANDARDS AND INTEROPERABILITY FRAME- 21 WORK. 22 (a) PARTICIPATION.—To strengthen the public-pri- 23 vate partnership approach to smart city-related or commu- 24 nity-related standards development and interoperability, 	16	\$20,000,000 for each of fiscal years 2020 through 2024.
 ABILITY SEC. 301. STANDARDS AND INTEROPERABILITY FRAME- wORK. (a) PARTICIPATION.—To strengthen the public-pri- vate partnership approach to smart city-related or commu- nity-related standards development and interoperability, 	17	TITLE III—IMPROVING PER-
 20 SEC. 301. STANDARDS AND INTEROPERABILITY FRAME- 21 WORK. 22 (a) PARTICIPATION.—To strengthen the public-pri- 23 vate partnership approach to smart city-related or commu- 24 nity-related standards development and interoperability, 	18	FORMANCE AND INTEROPER-
 21 work. 22 (a) PARTICIPATION.—To strengthen the public-pri- 23 vate partnership approach to smart city-related or commu- 24 nity-related standards development and interoperability, 	19	ABILITY
 (a) PARTICIPATION.—To strengthen the public-pri- vate partnership approach to smart city-related or commu- nity-related standards development and interoperability, 	20	SEC. 301. STANDARDS AND INTEROPERABILITY FRAME-
23 vate partnership approach to smart city-related or commu-24 nity-related standards development and interoperability,	21	WORK.
24 nity-related standards development and interoperability,	22	(a) PARTICIPATION.—To strengthen the public-pri-
	23	vate partnership approach to smart city-related or commu-
25 the Secretary, acting through the Director of the National	24	nity-related standards development and interoperability,
	25	the Secretary, acting through the Director of the National

Institute of Standards and Technology, shall strongly en courage and support participation by Federal Government
 experts in private sector-led, standards-related activities
 that convene smart city or community stakeholders, in cluding representatives of applicable Federal agencies.

6 (b) ACTIVITIES.—To promote innovation and eco-7 nomic competitiveness and to achieve interoperability of 8 smart city or community devices and systems, while 9 strengthening the United States approach to private sector-led standardization activities and the participation of 10 Federal representatives under subsection (a), the Sec-11 retary, in consultation with private and public sector 12 13 stakeholders, shall—

(1) survey and review domestic and international smart city or community performance
standards, existing architectures, applications, and
deployments, and interoperability standards;

18 (2) make consensus-based recommendations—

(A) to identify gaps in the smart city or
community performance standards and interoperability standards under paragraph (1);

(B) to harmonize existing standards and
deployment efforts and enable greater interoperability across smart city or community
technologies;

1	(C) to coordinate domestic and inter-
2	national performance standards and interoper-
3	ability standards to promote uniform perform-
4	ance standards and interoperability standards
5	worldwide, including with respect to the need
6	for testing and demonstration; and
7	(D) for guidelines to enable interoperability
8	in the collection, storage, ownership, and shar-
9	ing of data;
10	(3) based on the recommendations under para-
11	graph (2), develop a consensus-based framework
12	that includes protocols and model standards for the
13	management and exchange of information, including
14	existing guidelines, best practices, and industry con-
15	sensus standards;
16	(4) ensure that cybersecurity and privacy are
17	core elements of the recommended performance
18	standards and interoperability standards; and
19	(5) lead international coordination efforts to de-
20	velop industry-led, technology-neutral, voluntary,
21	consensus-based global smart city or community per-
22	formance standards and interoperability standards.

TITLE IV—INTERNATIONAL CO OPERATION AND BEST PRAC TICES

4 SEC. 401. DEVELOPMENT OF GLOBAL SMART CITY OR COM5 MUNITY BEST PRACTICES.

6 (a) IN GENERAL.—The Secretaries may carry out ac7 tivities—

8 (1) to enable cities and communities in the 9 United States and other countries to work together 10 toward shared smart city- or community-related 11 goals;

12 (2) to promote smart city or community solu13 tions that provide measurable benefits to local gov14 ernments and residents;

(3) to enable an open, global marketplace for
smart city or community technologies based on voluntary, consensus-based, and technology-neutral
standards; and

(4) to connect innovators from industry and
academia to local governments to catalyze the emergence of open and advanced technologies that—

22 (A) meet community needs; and
23 (B) advance innovation and open competi-

24 tion.

1	(b) ELIGIBLE ACTIVITIES.—The activities referred to
2	in subsection (a) may include grants, contracts, chal-
3	lenges, prize competitions, public-private partnerships,
4	and other innovative mechanisms.
5	(c) AUTHORIZATION OF APPROPRIATIONS.—
6	(1) IN GENERAL.—There is authorized to be
7	appropriated to the Secretaries to carry out this sec-
8	tion \$20,000,000 for each of fiscal years 2020
9	through 2024.
10	(2) LIMITATION ON USE OF FUNDS.—Funds
11	made available under paragraph (1) may not be used
12	to provide assistance to—
13	(A) a foreign country; or
14	(B) a foreign company (excluding any
15	United States subsidiary of a foreign holding
16	company).
17	SEC. 402. TRADE PROGRAM.
18	The Secretary, in consultation with the Secretary of

The Secretary, in consultation with the Secretary of State, such other members of the Council as the Secretary determines to be appropriate, and private stakeholders, shall establish a strategic international smart cities and communities trade program, which shall include trade missions—

24 (1) to promote the export of United States25 smart cities or communities technologies;

(2) to stimulate job growth in the United

2	States;
3	(3) to identify potential partners and strategies
4	for United States companies in target foreign mar-
5	ket sectors;
6	(4) to organize events with local governments,
7	businesses, associations, academia, and other stake-
8	holders to promote smart city or community partner-
9	ships;
10	(5) to assist in the development of competitive
11	strategies and foreign market access for United
12	States smart city or community technology business
13	interests;
14	(6) to assist in developing appropriate United
15	States policy regarding United States business and
16	international smart cities or communities business
17	interests;
18	(7) to assist in achieving United Nations
19	Framework Convention on Climate Change commit-
20	ments;
21	(8) to assist in lowering the cost to consumers
22	of smart cities or communities technologies;
23	(9) to leverage expertise in infrastructure to de-
24	liver solutions that can help make communities more
25	efficient, livable, and sustainable; and

(10) to work with the United States Agency for
 International Development, the Overseas Private In vestment Corporation, and the Export-Import Bank
 of the United States to identify opportunities to fi nance international investment in United States
 smart cities or communities technology companies.