S. 1276

To require the Administrator of the Federal Emergency Management Agency to carry out a pilot program to enhance the mapping of urban flooding and associated property damage and the availability of that mapped data to homeowners, businesses, and localities to help understand and mitigate the risk of such flooding, and for other purposes.

IN THE SENATE OF THE UNITED STATES

May 1, 2019

Mr. Durbin (for himself, Mr. Rubio, and Ms. Duckworth) introduced the following bill; which was read twice and referred to the Committee on Banking, Housing, and Urban Affairs

A BILL

To require the Administrator of the Federal Emergency Management Agency to carry out a pilot program to enhance the mapping of urban flooding and associated property damage and the availability of that mapped data to homeowners, businesses, and localities to help understand and mitigate the risk of such flooding, 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,

2 1 SECTION 1. SHORT TITLE. 2 This Act may be cited as the "Flood Mapping Mod-3 ernization and Homeowner Empowerment Pilot Program 4 Act of 2019". 5 SEC. 2. FLOOD MAPPING MODERNIZATION AND HOME-6 OWNER EMPOWERMENT PILOT PROGRAM. 7 (a) DEFINITIONS.—In this section: ADMINISTRATOR.—The term "Adminis-8 9 trator" means the Administrator of the Federal 10 Emergency Management Agency. (2) Coastal.—The term "coastal" means, with 11 12 respect to a unit of general local government, that 13 the unit borders a body of water that— 14 (A) is more than 2,000 square miles in 15 size; and 16 (B) is not a river. 17 (3) Pelagic.—The term "pelagic" means, with 18 respect to a unit of general local government, that— 19 (A) the unit is a coastal unit; and 20 21

(B) the body of water that the unit borders is—

(i) an ocean; or
(ii) a large, open body of water, including a bay or a gulf, that empties into an ocean.

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1	(4) Pilot program.—The term "pilot pro-
2	gram" means the pilot program carried out by the
3	Administrator under this section.
4	(5) Urban Flooding.—The term "urban
5	flooding"—
6	(A) means the inundation, by water, of
7	property in a built environment, particularly in
8	a densely populated area, that—
9	(i) is caused by falling rain—
10	(I) collecting on an impervious
11	surface; or
12	(II) increasing the level of a body
13	of water that is located near that built
14	environment; and
15	(ii) overwhelms the capacity of drain-
16	age systems in the built environment, such
17	as storm sewers;
18	(B) includes—
19	(i) a situation in which stormwater
20	enters a building through a window, door,
21	or other opening;
22	(ii) the backup of water through a
23	sewer pipe, shower, toilet, sink, or floor
24	drain;

1	(iii) the seepage of water through a
2	wall or a floor;
3	(iv) the accumulation of water on
4	property or a public right-of-way; and
5	(v) the overflow from a body of water,
6	such as a river, lake, or ocean; and
7	(C) does not include flooding in an unde-
8	veloped or agricultural area.
9	(6) Urbanized Area.—The term "urbanized
10	area" means an area that has been defined and des-
11	ignated as an urbanized area by the Bureau of the
12	Census during the most recently completed decennial
13	census.
14	(b) Establishment.—The Administrator shall
15	carry out a pilot program to make grants to units of local
16	government to—
17	(1) enhance the production of maps relating to
18	urban flooding and associated property damage; and
19	(2) increase the availability of the maps de-
20	scribed in paragraph (1) to homeowners, businesses,
21	and units of local government to enable those enti-
22	ties to minimize the risk of urban flooding.
23	(c) Objectives.—Amounts from grants made under
24	the pilot program may be used only to carry out activities
25	that meet the following objectives:

1	(1) Developing a methodology for assessing the
2	risk of urban flooding through the deployment of
3	technology-based mapping tools that—
4	(A) are easily understandable by the pub-
5	lie; and
6	(B) effectively convey information regard-
7	ing the level of flood risk.
8	(2) Providing structure-specific projections of
9	annual chance flood frequency.
10	(3) Providing structure-based flood risk assess-
11	ments.
12	(4) Providing program design for the mitigation
13	of the risk of urban flooding.
14	(5) Incorporating information regarding climate
15	trends into urban flooding risk assessments.
16	(6) Making the information described in this
17	subsection publicly available on the internet through
18	a web-based portal so as to increase transparency re-
19	garding homeowner flood risks.
20	(d) ELIGIBLE RECIPIENTS.—
21	(1) IN GENERAL.—A grant under the pilot pro-
22	gram may be made only to—
23	(A) a unit of general local government that
24	is located in an urbanized area with a popu-
25	lation of more than 50,000 individuals; or

1	(B) a stormwater management authority of
2	a unit of general local government described in
3	subparagraph (A).
4	(2) One-time grants.—A grant under the
5	pilot program may not be made to—
6	(A) any unit of general local government,
7	or the stormwater management authority of a
8	unit of general local government, that pre-
9	viously received a grant under the pilot pro-
10	gram;
11	(B) any unit of general local government if
12	the stormwater management agency for that
13	unit previously received a grant under the pilot
14	program; or
15	(C) any stormwater management agency of
16	a unit of general local government if that unit
17	previously received a grant under the pilot pro-
18	gram.
19	(3) Treatment of Certain Stormwater
20	MANAGEMENT AUTHORITIES.—
21	(A) In General.—In the case of a
22	stormwater management authority that oper-
23	ates with respect to more than 1 unit of general
24	local government, the application of that au-
25	thority shall be considered for purposes of para-

- graph (2) of this subsection and subsections (f),

 (g), and (h)(1) to be made for the largest unit

 of general local government with respect to

 which that authority operates.
 - (B) Rule of construction.—Nothing in subparagraph (A) may be construed to limit the ability of a stormwater management authority described in that subparagraph to carry out activities under a demonstration project in any other jurisdiction in, or with respect to any other unit of local government with, which that authority operates.
- 13 (e) APPLICATIONS.—To be eligible for a grant under 14 the pilot program, a unit of general local government or 15 a stormwater management agency shall submit to the Ad-16 ministrator an application in such form and containing 17 such information as the Administrator shall require.

18 (f) Selection of Recipients.—

(1) Annual selection.—Subject to paragraph (2), and to the submission of approvable applications, in each fiscal year for which amounts are made available for grants under the pilot program, the Administrator shall select, from among applications submitted under subsection (e) for that fiscal year, 3 units of general government or stormwater

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1	management authorities to receive grants under the
2	pilot program.
3	(2) Aggregate limit.—Subject only to the
4	submission of approvable applications, the Adminis-
5	trator shall select, in the aggregate over the entire
6	duration of the pilot program, 12 units of general
7	government or stormwater management authorities
8	to receive grants under the pilot program, as follows:
9	(A) Tier 1.—Three of the applicants se-
10	lected shall be units of general local govern-
11	ment, or stormwater management authorities
12	for those units, each of which has a population
13	of more than 800,000 individuals, as follows:
14	(i) Pelagic coastal city.—One
15	shall be—
16	(I) a unit of general local govern-
17	ment that is a pelagic unit; or
18	(II) a stormwater authority for a
19	unit described in subclause (I).
20	(ii) Non-pelagic coastal city.—
21	One shall be—
22	(I) a unit of general local govern-
23	ment that—
24	(aa) is a coastal unit; and
25	(bb) is not a pelagic unit; or

1	(II) a stormwater authority for a
2	unit described in subclause (I).
3	(iii) Non-coastal city.—One shall
4	be—
5	(I) a unit of general local govern-
6	ment that is not a coastal unit; or
7	(II) a stormwater authority for a
8	unit described in subclause (I).
9	(B) Tier 2.—Six of the applicants selected
10	shall be units of general local government, or
11	stormwater management authorities for those
12	units, each of which has a population of more
13	than 200,000 individuals and not more than
14	800,000 individuals, as follows:
15	(i) Coastal cities.—Three shall
16	be—
17	(I) units of general local govern-
18	ment that are coastal units; or
19	(II) stormwater management au-
20	thorities for units described in sub-
21	clause (I).
22	(ii) Non-coastal cities.—Three
23	shall be—
24	(I) units of general local govern-
25	ment that are not coastal units; or

1	(II) stormwater management au-
2	thorities for units described in sub-
3	clause (I).
4	(C) TIER 3.—Three of the applicants se-
5	lected shall be—
6	(i) units of general local government,
7	each of which has a population of more
8	than 50,000 individuals and not more than
9	200,000 individuals; or
10	(ii) stormwater management authori-
11	ties for units described in clause (i).
12	(g) Priority.—
13	(1) In general.—The Administrator shall se-
14	lect applicants for grants under the pilot program
15	based on the extent to which the applications of
16	those applicants shall achieve the objectives de-
17	scribed in subsection (c).
18	(2) Tiers 2 and 3.—In selecting applicants to
19	receive grants under the pilot program under sub-
20	paragraphs (B) and (C) of subsection (f)(2), the Ad-
21	ministrator shall give priority to applicants—
22	(A) that are highly vulnerable to sea level
23	rise;

1	(B) within which are located a military in-
2	stallation or another facility relating to national
3	security concerns; or
4	(C) that have—
5	(i) populations that are highly vulner-
6	able to urban flooding; and
7	(ii) an uneven capacity for flood miti-
8	gation and response efforts resulting from
9	socioeconomic factors.
10	(h) Amount.—
11	(1) Considerations.—In determining the
12	amount of a grant under the pilot program, the Ad-
13	ministrator shall consider the population of the
14	grant recipient, which may be considered in terms of
15	the tier under subsection (f)(2) with respect to the
16	recipient.
17	(2) Federal share.—The amount of a grant
18	under the pilot program may not exceed 75 percent
19	of the total cost incurred in carrying out the activi-
20	ties described in subsection (c).
21	(i) Duration.—The Administrator shall require
22	each recipient of a grant under the pilot program to com-
23	plete the activities described in subsection (c), which shall
24	be, subject to subsection (h)(2), carried out using the
25	grant amounts, not later than 18 months after the date

- 1 on which the recipient initially receives the grant amounts
- 2 under the pilot program.
- 3 (j) Use of Census Data.—The Administrator shall
- 4 make all determinations regarding population under the
- 5 pilot program by using data from the most recently com-
- 6 pleted decennial census by the Bureau of the Census.
- 7 (k) Grantee Reports to FEMA.—Each recipient
- 8 of a grant under the pilot program shall, not later than
- 9 30 months after the date on which the recipient initially
- 10 receives the grant amounts, submit to the Administrator
- 11 a report that describes—
- 12 (1) the activities carried out with the grant
- amounts;
- 14 (2) how the activities carried out with the grant
- amounts have met the objectives described in sub-
- section (c);
- 17 (3) any lessons learned in carrying out the ac-
- tivities described in paragraph (2); and
- 19 (4) any recommendations for future mapping
- 20 modernization efforts by the Federal Emergency
- 21 Management Agency.
- 22 (l) Biennial Reports by FEMA.—Not later than
- 23 2 years after the date of enactment of this Act, and not
- 24 less frequently than once every 2 years thereafter until
- 25 the date on which all activities carried out with amounts

1	from grants under the pilot program are completed, the
2	Administrator shall submit to Congress and make avail-
3	able to the public on an internet website a report that—
4	(1) describes—
5	(A) the progress of the activities carried
6	out with amounts from those grants; and
7	(B) the effectiveness of technology-based
8	mapping tools used in carrying out the activi-
9	ties described in subparagraph (A); and
10	(2) with respect to the final report that the Ad-
11	ministrator is required to submit under this sub-
12	section, includes recommendations to Congress and
13	the executive branch of the Federal Government for
14	implementing strategies, practices, and technologies
15	to mitigate the effects of urban flooding.
16	(m) Sense of Congress.—It is the sense of Con-
17	gress that, because the pilot program is limited with re-
18	spect to scope and resources, communities that participate
19	in the pilot program should acknowledge that the most
20	successful efforts to mitigate the effects of urban flood-
21	ing—
22	(1) take a structural-based mitigation approach
23	with respect to construction, which includes—
24	(A) recognizing any post-storm damage
25	that may occur; and

1	(B) pursuing designs that proactively mini-
2	mize future flood damage;
3	(2) make individuals in the community aware,
4	through any cost-effective and available means of
5	education, of the best approaches regarding the con-
6	struction of properties that are able to survive
7	floods, which reduces the cost of future repairs; and
8	(3) encourage home and property owners to
9	consider the measures described in paragraphs (1)
10	and (2), which are the most cost-effective and pru-
11	dent ways to reduce the impact of flooding, when
12	constructing or renovating building components.
13	(n) Funding.—There are authorized to be appro-
14	priated for grants under the pilot program—
15	(1) \$1,200,000 for fiscal year 2020; and
16	(2) \$4,300,000 for fiscal year 2021, to remain
17	available through 2023.

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