

(i) the causes, mechanisms, triggers, hydrology, and geology of landslides;

(ii) ways to reduce landslide hazards and risks to minimize loss of life and property, including landslide hazard and risk communication, perception, decisionmaking, tools, and technologies; and

(iii) other goals and priorities of the national strategy established under subsection (b)(2)(A).

**(B) Eligible entities**

The Director shall determine whether an entity is eligible to receive a grant under this paragraph.

**(C) Requirements**

In providing grants under this paragraph, the Director shall—

(i) ensure that the grants are provided on a competitive basis;

(ii) consider grant applications submitted by eligible entities that have developed the application in partnership with 1 or more State geological surveys; and

(iii) publish on a publicly available website a description of—

(I) the grants; and

(II) the findings made from those grants.

**(f) Biennial report**

Through calendar year 2030, the Secretary shall submit to Congress a biennial report, including a description of, with respect to the 2-calendar-year period preceding the date of the report—

(1) the goals and accomplishments of the Committee in carrying out the national strategy developed under subsection (b)(2);

(2) the results of the activities of the Committee under this section; and

(3) the extent to which any recommendations of the Advisory Committee under subsection (d)(3)(A) have been implemented.

**(g) Significant events**

Not later than 1 year after a significant landslide event in the United States (including territories) occurs, the Secretary shall publish on a publicly available website—

(1) a description of the landslide event and the implications of the event on communities, including life and property;

(2) recommendations on how the identification of the landslide risk could have been improved prior to the event;

(3) a description of the effectiveness of any warning and risk communication, including the dissemination of warnings by State, territorial, local, and Tribal partners in the affected area;

(4) recommendations to improve risk identification, reduction, and communication to landowners and units of local government;

(5) recommendations to improve landslide hazard preparedness and emergency response activities under this section; and

(6) such other findings as the Secretary determines appropriate.

**(h) Funding**

For each of fiscal years 2021 through 2024—

(1) there is authorized to be appropriated to the United States Geological Survey, \$25,000,000 to carry out this section;

(2) there is authorized to be appropriated to the National Science Foundation, \$11,000,000 to carry out this section; and

(3) there is authorized to be appropriated to the National Oceanic and Atmospheric Administration, \$1,000,000 to carry out this section.

**(i) Derivation of funds**

Funds to carry out the activities under this section shall be derived from amounts authorized to be appropriated that are enacted after the date of the enactment of this section.

(Pub. L. 116-323, §3, Jan. 5, 2021, 134 Stat. 5076.)

**§ 3103. Ground subsidence**

As the Secretary determines to be appropriate and subject to appropriations, the Secretary, through existing programs, shall advance the identification, mapping, research, and monitoring of subsidence and groundwater resource accounting, particularly in areas affected by drought.

(Pub. L. 116-323, §4, Jan. 5, 2021, 134 Stat. 5081.)

**§ 3104. 3D elevation program**

**(a) Establishment of 3D Elevation Program**

**(1) In general**

The Secretary shall establish a program, to be known as the “3D Elevation Program”—

(A) to provide 3D elevation data coverage for the United States;

(B) to coordinate and facilitate the collection, dissemination, and use of 3D elevation data among Federal departments and agencies and non-Federal entities;

(C) to produce standard, publicly accessible 3D elevation data products for the United States; and

(D) to promote the collection, dissemination, and use of 3D elevation data among Federal, State, local, and Tribal governments, communities, institutions of higher education, and the private sector through—

(i) cooperative agreements;

(ii) the development and maintenance of spatial data infrastructure to provide quality control and deliver to the public 3D elevation data products;

(iii) in coordination with the 3D Elevation Federal Interagency Coordinating Committee established under subsection (b), States, and industry and standards bodies, the development of standards and guidelines for 3D elevation data acquisition to increase accessibility to 3D elevation data in a standard, easy-to-use format; and

(iv) the identification, assessment, and adoption of emerging technologies to improve the accuracy and efficiency of the 3D Elevation Program.

**(2) Management**

**(A) In general**

The Secretary shall manage the 3D Elevation Program—