

103D CONGRESS
1ST SESSION

S. 626

To establish a system of State-based electronic libraries, and for other purposes.

IN THE SENATE OF THE UNITED STATES

MARCH 22 (legislative day, MARCH 3), 1993

Mr. KERREY (for himself, Mr. EXON, Mr. MOYNIHAN, Mr. BRADLEY, Mr. HATFIELD, Mr. DASCHLE, Mr. BINGAMAN, and Mr. LIEBERMAN) introduced the following bill; which was read twice and referred to the Committee on Commerce, Science, and Transportation

A BILL

To establish a system of State-based electronic libraries, 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. FINDINGS.**

4 The Congress finds that:

5 (1) A confluence of technologies has made or
6 soon will make possible the delivery of or access to
7 a wide range of information and informational serv-
8 ices, including educational and research data, to our
9 homes, schools and communities.

1 (2) Interactive, multimedia programs offer spe-
2 cial opportunities for both formal and informal edu-
3 cation and learning, particularly in science, mathe-
4 matics, geography, languages, and multidisciplinary
5 areas.

6 (3) Such information and services can improve
7 productivity, provide individuals new choices for
8 their lives and improve the quality of their lives.

9 (4) Such information and services should be
10 available to all Americans.

11 **SEC. 2. PURPOSE.**

12 It is the purpose of this Act to provide for the cre-
13 ation of a system of State-based electronic libraries
14 which—

15 (1) provide delivery of or access to a vast array
16 of interactive, multimedia educational programs, re-
17 search and informational data and services, and
18 networking opportunities;

19 (2) seek to make these materials available to all
20 Americans through public libraries, electronic
21 databases and telecommunications systems such as
22 the Internet or other publicly available networks,
23 which reach into the home, school, and community;
24 and

1 (3) provide robust and reliable computer pro-
2 gram support services for search and retrieval, in-
3 cluding, but not limited to, tools for intelligent
4 querying, aids in formulating search strategies, in-
5 dexes and inventories of available resources and
6 mechanisms to guide the user, and which make pro-
7 vision for education and training programs in the
8 use of the electronic library resources.

9 **SEC. 3. AUTHORIZATION.**

10 The National Science Foundation, in consultation
11 with the Department of Education, the Department of
12 Commerce, the Defense Advanced Research Projects
13 Agency, and the Library of Congress, is authorized to
14 make multiyear grants to States to develop electronic li-
15 braries. These libraries shall provide delivery of and access
16 to a variety of databases, computer programs and inter-
17 active multimedia presentations, including educational
18 materials, research information, statistics and reports de-
19 veloped by Federal, State and local governments and other
20 information and informational services which can be car-
21 ried over the Internet and similar networks, including the
22 advanced capabilities of the National Research and Edu-
23 cation Network when they become available.

24 **SEC. 4. CRITERIA.**

25 In order to qualify for a grant, a State shall:

1 (1) Establish a statewide committee consisting
2 of representatives of the educational, library, infor-
3 mation, telecommunications, governmental and busi-
4 ness communities, and the public at large to develop
5 and implement the plan described in paragraph (2).
6 Members of such committee shall be appointed by
7 the Governor, or the Governor's designee.

8 (2) Develop a statewide plan for a network ac-
9 cessible electronic library capable of producing, ob-
10 taining, storing, retrieving and disseminating data
11 and interactive multimedia programs, information
12 and informational services; provide for widespread
13 access to such library, including access from the
14 school and home; publicize the existence of such a li-
15 brary; and develop user friendly instructional pro-
16 grams on how to access and use the library. The
17 plan shall provide for—

18 (A) hardware and software for demonstra-
19 tion and use purposes. Such hardware and soft-
20 ware shall include but not be limited to com-
21 puter-based servers and work stations, CD-
22 ROMS, network access, including terrestrial
23 and satellite access, computer programs for
24 search and retrieval and other computer hard-
25 ware, software and networking technologies, as

1 appropriate. Such technologies shall, to the ex-
2 tent possible, adhere to standards which pro-
3 mote open architecture and interoperability;

4 (B) software and programs, which identify
5 and provide access to a broad range of mate-
6 rials, including but not limited to—

7 (i) multimedia educational programs
8 which are commercially available;

9 (ii) information developed by Federal
10 departments and agencies, especially infor-
11 mation developed for digitalized libraries
12 and available electronically;

13 (iii) information developed by State
14 and local governments, which is or can eas-
15 ily be made available electronically; and

16 (iv) information developed by colleges,
17 universities, libraries and other research
18 and educational institutions which is avail-
19 able electronically;

20 (C) networking, including but not limited
21 to—

22 (i) connectivity to the Internet and
23 other information services, including the
24 National Research and Education Network
25 when it becomes available;

1 (ii) dial-in access; and

2 (iii) access to other advanced means
3 of accessing materials in the library from
4 the home, school and community, at least
5 on a pilot basis;

6 (D) programs to facilitate the production
7 of computer graphics, software programs, and
8 customized materials for use in the classroom,
9 to be made available to representatives of li-
10 braries and educational institutions;

11 (E) access to bibliographic information and
12 other information available electronically such
13 as that contained in the Library of Congress,
14 and colleges and universities throughout the
15 country;

16 (F) databases of information on services
17 available at the State or local level of govern-
18 ment, including relevant material on how and
19 where to apply for such services;

20 (G) coordination with and, where feasible,
21 linkage to other similar systems within the
22 State and, when available, those developed
23 under the high performance computing and
24 communications initiative;

1 (H) an education and training program de-
2 signed to assist people in comprehending and
3 utilizing the technology effectively and locating
4 electronic information resources; and

5 (I) innovative or experimental efforts de-
6 signed to advance networking of electronic in-
7 formation resources and public access to them.

8 (3) Commit to participate with National
9 Science Foundation designated coordination mecha-
10 nisms as necessary to ensure efficient interoper-
11 ability with other State systems. The National
12 Science Foundation, in designating such mecha-
13 nisms, shall consult with the Department of Com-
14 merce, the Defense Advanced Research Projects
15 Agency and the Department of Education.

16 (4) Provide matching funds, in cash or in kind,
17 from State or private sources equal to at least 30
18 percent of the total grant cost.

19 **SEC. 5. ELIGIBILITY.**

20 States which meet the criteria in section 4 shall be
21 eligible to apply for grants under this Act.

22 **SEC. 6. TRANSFER OF FUNDS.**

23 The National Science Foundation under section 1501
24 of title 31, United States Code, is authorized to transfer
25 funds on a reimbursable basis to other agencies of the

1 Federal Government which can effectively participate in
2 this effort.

3 **SEC. 7. AUTHORIZATION OF APPROPRIATIONS.**

4 To carry out this Act, there are authorized for fiscal
5 year 1994, \$10,000,000; for fiscal year 1995,
6 \$25,000,000; for fiscal year 1996, and each fiscal year
7 thereafter, such sums as may be necessary.

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