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ABSTRACT

This report presents data compiled as part of a comprehensive program to measure and analyze the nation's resources expended for research and development. R&D spending in the United States is expected to reach \$38.1 billion in 1976, 8 percent above the 1975 level. For the first time in three years, R&D funds are expected to increase in terms of constant dollars - 2 percent assuming a 5 percent rate of inflation for 1976. Other figures shown in this report show that the Federal Government is expected to spend \$20.1 hillion on R&D programs in 1976 with most of the increase planned for areas of defense, space, and energy. Non-Federal R&D support is also expected to increase by 8 percent over the 1975 level, to \$18.0 billion in 1976. Industry will provide 92 percent of the funds. Graphed data are presented to show R&D funding trends for the period 1967 through 1976. Tabulated data presents funds, by, performer (Federal Government, Industry, Universities and Colleges, Associated FFRDC's and other nonprofit institutions) for years 1972 through 1976. The data given exclude universities and colleges department research. (Author/EB)

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R&D Spending to Top \$38 Billion in 1976

These data were compiled from information on R&D activities collected through individual sector surveys conducted as part of a comprehensive program to measure and analyze the Nation's resources expended for research and development it imited exclusions are discussed below.) More details on R&D expenditures and manpower will be published in a report entitled National Patterns of R&D Resources. Funds & Manpower in the United States, 1953-1976 to be available in the summer of 1976 from the Superintendent of Documents. E. S. Government Printing Office, Washington, D.C. 2010.

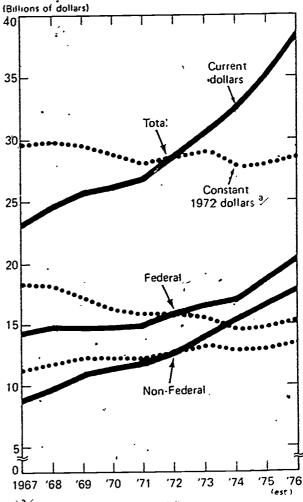
- R&D.spending in the United States is expected to reach \$38.1 billion in 1976, 8 percent above the 1975 level of \$35.2 billion. For the first time in three years, R&D funds are also expected to increase in terms of constant dollars—2 percent—assuming a 6-percent rate of inflation for 1976.
- R&D expenditures are expected to constitute 2.2 percent of the U.S. gross national product (GNP) in 1976, down from 2.3 percent in 1975. This proportion has declined steadily from its peak of 3.0 percent of GNP in 1964, primarily as a result of the slowdown in growth of Federal R&D spending.
- Basic research spending is expected to reach \$4.8 billion in 1976, an increase of 7 percent over 1975. In terms of constant dollars, funds for basic research are expected to grow 1 percent.

R&D Support

The Federal Government is expected to spend \$20.1 billion on R&D programs in 1976, 8 percent more than in the previous year. Measured in constant dollars, Federal support of R&D will show a 2-percent constant-dollar increase in 1976, in contrast to an average annual rate of decline of 2.2 percent since 1967. Most of the increase is planned for the areas of defense, space, and energy. The Federal Government is expected to fund 53 percent of the total U.S. R&D effort in 1976, the same percentage as in 1975.

Non-Federal R&D support is also expected to increase by 8 percent over the 1975 level, to \$18.0 billion in 1976. Industry will provide 92 percent; or \$16.6 billion of the non-Federal R&D funds.

R&D funding trends: 1967-76



Based on GNP implicit price deflator SOURCE National Science Foundation

(Prepared in the Industry Studies Group, Division of Science Resources Studies.)

R&D Performance

Industry will remain the dominant performer of research and development in 1976, spending an estimated \$26.5 billion on R&D projects, or nearly 70 percent of the total. Industry leads in the performance of applied research and development, spending 54 percent and 86 percent, respectively, of the total funds for these activities.

Universities and colleges, which perform about 10 percent of the Nation's research and development—and more importantly, about 55 percent of the Nation's basic research—are expected to spend \$3.7 billion for R&D in 1976. 8 percent more than reported in 1975. Three-fourths of this increase is projected for the performance of basic research.

Federal performance of research and development is also expected to increase in 1976, while nonprofit institutions will show a slight decline.

Limitations

. The data exclude universities and colleges departmental research, which is considered an

Funds for research and development, by performer: 1972-76

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Expenditures to Federally Funded Research and Development Centers and noticed to total nations and by conditating returns are included in the total of the concerning sections.

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SOURCE National Springer Foundation

integral part of instructional programs, and for which separate data are frequently not maintained. Also, intramural R&D expenditures of State and local governments have not been included.

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