NETWORKING AND INFORMATION TECHNOLOGY RESEARCH AND DEVELOPMENT

The President's 2003 Budget provides $1.9 billion for the Networking and Information Technology R&D (NITRD) Initiative, a 3 percent increase over last year's budget. A coordinated information technology research program remains a priority for the Administration.

In 2003, research will emphasize network security, reliability, and privacy; high assurance software and systems; micro and embedded sensor technologies; and revolutionary architectures to reduce the cost, size, and power requirements of high-end computing platforms and the social and economic impacts of information technology.

The largest increases above 2002 funding for NITRD are proposed for the National Aeronautics and Space Administration, increasing by $32 million or 18 percent, and the Department of Health and Human Services, increasing by $26 million or 8 percent.

The National Science Foundation (NSF) includes the largest share of the IT research funding, which reflects its leadership role in coordinating NITRD. Within NSF's NITRD contribution, research investments in their Information Technology Research priority area (excluding planned reductions in the Terascale Computing System) increase by $22 million, 9 percent, to $266 million.

	2002 ($M)	2003 ($M)	Percent Increase
National Science Foundation	676	678	0%
Health and Human Services	310	336	8%
Energy	312	313	0%
Defense	320	306	-4%
NASA	181	213	18%
Commerce	43	42	-2%
Environmental Protection Agency	2	2	0%
TOTAL	1,844	1,890	3%

Accomplishments include the following**:** development of end-to-end optical fiber networking; providing vast improvements in bandwidth and network security for research and commercial applications; new technologies enabling cluster or "grid" computing; providing for the first time access to high performance computation for scientific research nationwide; technology for network security protection, such as intrusion detection, risk, and vulnerability analyses; and managing and using large-scale information repositories.