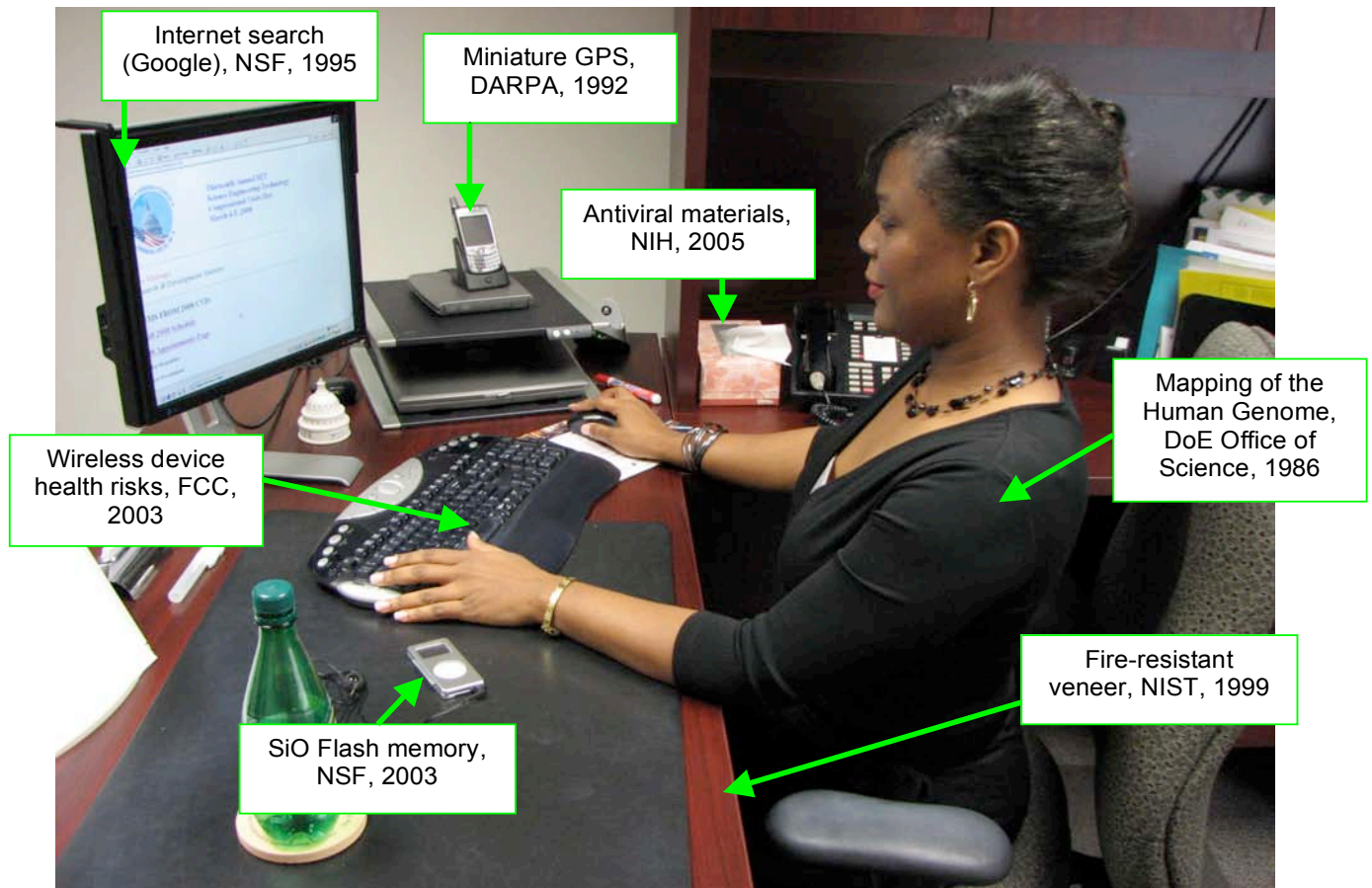




# Federally-funded research... in Your Daily Life



**Did you use your tax dollars today? Of course you did!**

Federally funded research has brought innovations as diverse as sunblock and mp3s into the lives of every American, yet funding for R&D increased by approximately 1 percent in FY2008. Privately funded research is unable to make up the difference needed for advancement, and U.S. competitiveness in science and technology is in jeopardy.

**Please support strong R&D funding for FY2009.**

*...American economic leadership is fueled by national investments in an educated and skilled workforce, groundbreaking federal research, and a steadfast commitment to being the most competitive and innovative nation in the world.*

**– Speaker Nancy Pelosi, December 19, 2007**

*To keep America competitive into the future, we must trust in the skill of our scientists and engineers and empower them to pursue the breakthroughs of tomorrow.*

**– President Bush, State of the Union address, January 28, 2008**

# Research and Development Matters...

**in Economic Development** – according to a joint analysis by the Commerce Department's Bureau of Economic Analysis (BEA) and NSF, If R&D spending were treated as investment in the U.S. national income and product accounts, U.S. GDP would have been nearly 3 percent higher each year between 1959 and 2004. In 2004 alone, the U.S. GDP would have been \$284 billion more with the R&D satellite account.

**in Global Competitiveness** – A 2006 Organisation for Economic Co-Operation and Development test on science, math and reading, U.S. students achieved a mean score of 489, which ranked 21st of the 30 OECD countries. In math, the U.S. achieved a mean score of 474 points for a ranking of 25th among 30 OECD.

**in Health and Medicine** – The life expectancy of Americans rose from 47 to 77 between 1900 and 2000, largely due to advances gained from federal biomedical research conducted with NIH, NSF, and CDC funding.

**in Exploration and Discovery** – NASA's New Horizons mission will offer us the first up-close views of Pluto within the next decade, providing valuable information on the formation of the planets, including the history of Earth.

**in Defense and Security** – The Department of Homeland Security's Cyber Security Research and Development Center partners with the private sector and academic institutions to investigate security flaws in computer operating systems and security breaches of those systems.

**in Design and Construction** – Most energy usage in the U.S. is in buildings. Federal research at agencies like the Department of Energy focused on emerging technologies for components, such as heating, cooling, ventilation, and refrigeration could lead to energy savings of 3.3 quadrillion btu, or the equivalent to up to 200 million tons of coal.

**in Education** – NSF Education and Human Resources programs support K-12 education initiatives in science with a large community of scientists capable of conducting rigorous research and integrates research and education.

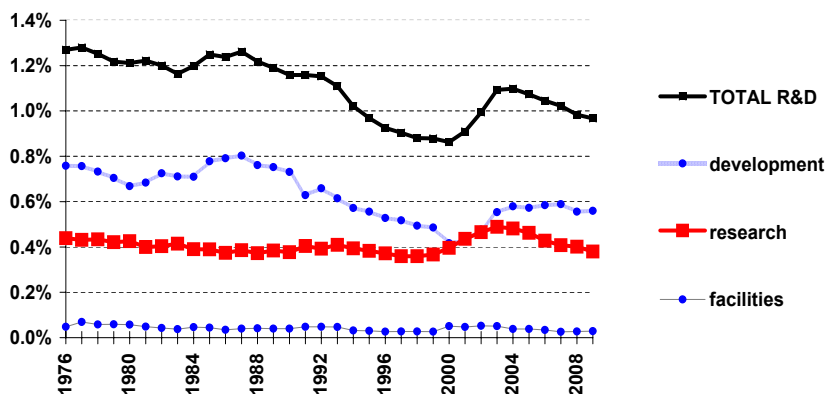
**in the Ecosystem and Environment** – Stream gages deployed by the U.S. Geological Survey in Louisiana and Mississippi tracked water flow following Hurricane Katrina in 2005 to assist in future flood planning.

## For More Information:

See how **your own State** ranks in terms of Federal R&D investments, innovation metrics, and job creation.

Please visit our Web Site at [www.setcvd.org](http://www.setcvd.org)

Trends in Federal R&D as % of GDP, FY 1976-2009 \*



Source: AAAS analyses of R&D in annual AAAS R&D reports. \* FY 2009 figures are latest AAAS estimates of FY 2009 request. R&D includes conduct of R&D and R&D facilities. Data to 1984 are obligations from the NSF Federal Funds survey. GDP figures are from OMB, Budget of the U.S. Government FY 2009. FEBRUARY '08 PRELIMINARY © 2008 AAAS

