

# Investment in research saves lives and money



facts about:

## Research: An Economic Driver » 2010 update

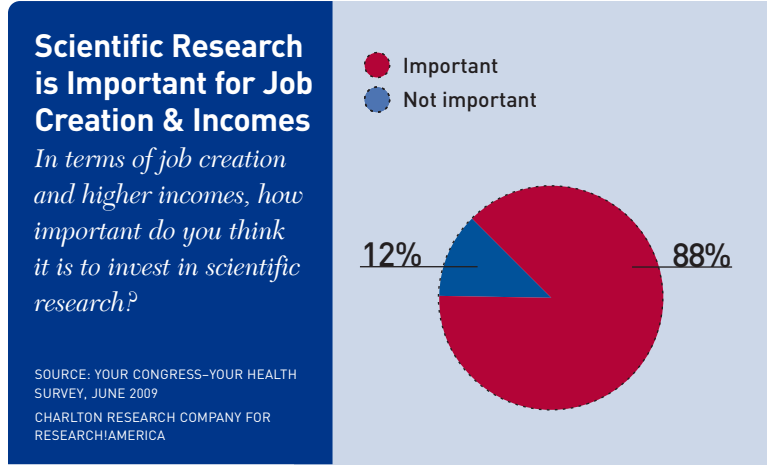
*"If you think research is expensive, try disease."*

— Mary Lasker 1901–1994

### Today:

- Seventeen of the 30 fastest-growing occupations in the U.S. are related to medical research or health care.\*
- NIH directly supports research jobs in all 50 states that are essential to innovations in health.\*\*
- About two-thirds of new jobs in the U.S. are created by new and young firms (1 to 5 years old).\*\*\* Research is the foundation of innovation and entrepreneurship.
- In Greater Philadelphia, one in six jobs and 15 percent of economic activity can be traced back to the life sciences.\*\*\*\*

SOURCES: \*BUREAU OF LABOR STATISTICS, EMPLOYMENT PROJECTIONS 2008-2018.  
 \*\*NATIONAL INSTITUTES OF HEALTH (WWW.NIH.GOV)  
 \*\*\*KAUFFMAN FOUNDATION. WHERE WILL THE JOBS COME FROM? NOVEMBER 2009.  
 \*\*\*\*MILKEN INSTITUTE. THE GREATER PHILADELPHIA LIFE SCIENCES CLUSTER 2009.



## SAVING LIVES SAVING MONEY

### HOW RESEARCH SAVES LIVES:

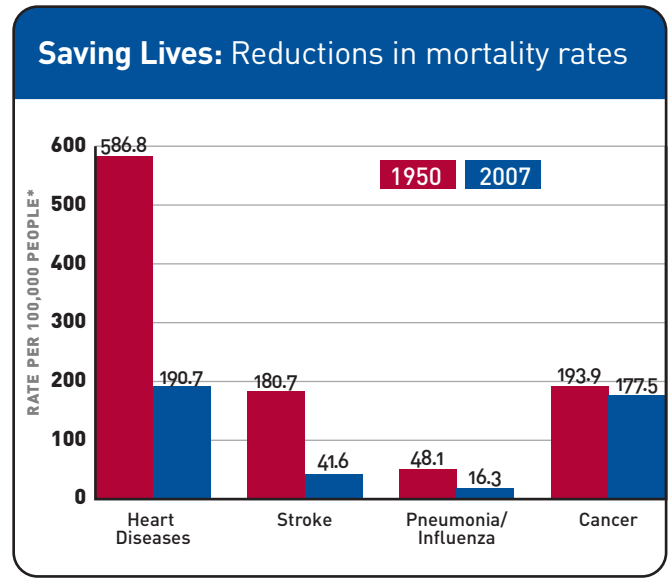
- Death rates from the nation's number-one killer, heart disease, have been cut by more than 65% in the past 60 years.\*
- An NIH-funded study has shown that modest weight loss and increased physical activity can prevent or delay the onset of Type 2 diabetes in people who are at high risk. The effects of these lifestyle changes can be sustained for at least 10 years.\*\*

SOURCES: \*CENTERS FOR DISEASE CONTROL AND PREVENTION (WWW.CDC.GOV)  
 \*\*KNOWLER, W.C. ET AL. LANCET. 2009; 374(9702): 1655-56.

### HOW RESEARCH SAVES MONEY:

- Use of the polio vaccine has saved the U.S. an estimated \$180 billion in treatment costs for the disease.\*
- A breast cancer diagnostic test (Oncotype DX) saves about \$2,000 per patient. Building on data from the publicly funded Human Genome Project, a private company developed this test to predict each patient's risk for recurrence of breast cancer. This could save the U.S. up to \$200 million a year because research has shown that chemotherapy is unnecessary for women at low risk.\*\*

SOURCES: \*THOMPSON, K.M. AND DUINTJER TEBBENS, R.J. RISK ANALYSIS. 2006; 26(6): 1423-1440.  
 \*\*LYMAN, G.H. ET AL. CANCER. 2007; 109:1011-1118.



ADAPTED FROM "CANCER FACTS AND FIGURES," AMERICAN CANCER SOCIETY  
 SOURCES: 1950 MORTALITY DATA—CDC/NCHS, NVSS, MORTALITY REVISED.  
 2007 MORTALITY DATA—NATIONAL VITAL STATISTICS REPORTS, VOL. 58, NO. 1.  
 \*AGE-ADJUSTED TO 2000 U.S. STANDARD POPULATION.

*The U.S. investment in research through the NIH has provided an estimated 50-fold return to the economy by improving Americans' health.*

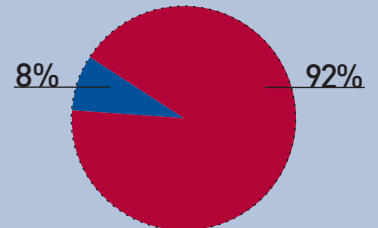
# facts about: } Research: An Economic Driver



## Americans Think Research is Important to the U.S. Economy

*How important do you think research is to the U.S. economy?*

● Important  
● Not important



SOURCE: YOUR CONGRESS-YOUR HEALTH SURVEY, JUNE 2009  
CHARLTON RESEARCH COMPANY FOR RESEARCH!AMERICA

## Why invest?

- Our nation's most valuable asset is human capital. Healthier Americans are vital to robust economic growth, greater productivity and global competitiveness.
- Research provides high-skill, high-wage jobs for Americans. The U.S. must invest now to foster the next generation of scientists.
- Innovation is the key to global competitiveness, new and better jobs, a resilient economy and the attainment of essential national goals.\*
- Chronic diseases such as heart disease, cancer, diabetes and asthma cost the U.S. \$1.7 trillion each year.\*\*
- Personalized medicine offers the prospect of reducing costs and improving patient outcomes by using diagnostic tests to match patients to treatments and preventive measures.\*\*\*

SOURCES: \*EXECUTIVE OFFICE OF THE PRESIDENT. A STRATEGY FOR AMERICAN INNOVATION: DRIVING TOWARDS SUSTAINABLE GROWTH AND QUALITY JOBS.

\*\*PARTNERSHIP TO FIGHT CHRONIC DISEASE. 2009 ALMANAC OF CHRONIC DISEASE.

\*\*\*PRESIDENT'S COUNCIL OF ADVISORS ON SCIENCE AND TECHNOLOGY. PRIORITIES FOR PERSONALIZED MEDICINE. 2008.

*“Innovation is the source of U.S. economic leadership and the foundation for our competitiveness in the global economy.”*

**BILL GATES**, chair, Microsoft Corporation

## Hope for the Future:

*Our ability to lead in 2025 will be a function of current decisions. Increasing our investment in science and discovery is a sound and responsible national security policy. No other federal expenditure will do more to create jobs, grow wealth, strengthen our world leadership, protect our environment, promote better education or ensure better health for the country. We must make the commitment to increase our investment now.*

FORMER SPEAKER NEWT GINGRICH, FOUNDER OF THE CENTER FOR HEALTH TRANSFORMATION AND AUTHOR OF “SAVING LIVES & SAVING MONEY”

*“Science is more essential for our prosperity, our security, our health, our environment, and our quality of life than it has ever been before.”*

**PRESIDENT BARACK OBAMA**

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