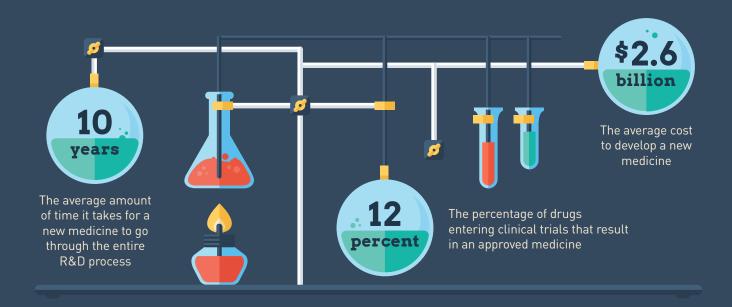
THE CHALLENGE OF DEVELOPING NEW TREATMENTS & CURES

Innovative medicines offer great hope to patients and the health care system, but developing these new treatments and cures is a complex and risky undertaking.



BETWEEN 1998 AND 2014:

The number of unsuccessful vs. successful attempts to develop medicines to treat certain diseases

Unsuccessful Approved Medicines

ALZHEIMER'S DISEASE
123

MELANOMA
96

LUNG CANCER
167

LUNG CANCER
167

7,000

The number of medicines currently in development around the world

70
PERCENT



The percentage of new medicines in development that are potential first-in-class therapies, meaning they use a completely new approach to fighting a disease

42
PERCENT

The percentage of new medicines in the pipeline that have the potential to be personalized medicines



CURBING Health Care Costs

A Look at How Medicines Can Help Patients Avoid Expensive Hospitalizations and Long-Term Care



\$13.5 trillion

What the U.S. will spend on hospital care in next decade



For every



spent on medicines



\$3 to \$10

in savings on hospitalizations for adherent patients with congestive heart failure, high blood pressure, diabetes, and high cholesterol



HIV/AIDS

23%

The decline in hospitalization rates between 2002 and 2007 for HIV/AIDS patients because of new medicines



HEPATITIS C

90%

The cure rate for the newest generation of hepatitis C medicines. As more patients receive these treatments, we can expect to see a decline in the staggering costs of treating patients



\$500k Average cost for a patient who may need a liver transplant ALZHEIMER'S DISEASE

\$367 billion

The amount America would save in health services by 2050 if we develop a new medicine that delays the onset of Alzheimer's disease by just five years



Medicines save lives and are part of the solution to reducing medical spending, but only if we have a health care system that supports innovation and encourages the development of new treatments.



HOW PRESCRIPTION DRUG PRICES FALL SIGNIFICANTLY OVER TIME

Biopharmaceutical companies invest in pioneering research to bring new treatments to patients, and over time those medicines become available as lower-cost generic copies. The cost of a generic medicine is typically up to 80 percent less than that of the brand medicine. Our nation's competitive market is why we have seen such tremendous – and sustainable – progress against the most costly and challenging diseases.

MEDICINE		BRAND NAME THEN	vs. GENERIC NOW		% CHANGE	
DIOVAN HCT® Hypertension	2010	\$87	\$	13	-85%	
LIPITOR® Cholesterol	2010	\$85		\$4	-95%	
PLAVIX® Blood Thinner	2011	\$166		\$5	-97%	
SEROQUEL® Schizophrenia	2010	\$87		\$3	-97%	
ZYPREXA® Schizophrenia & Bipolar Disorder	2010	\$393		\$8	-98%	

Figures represent the average annual price for 30 pills of the most commonly dispensed form and strength. "Then" price represents the average price in the year prior to generic entry. "Now" price represents the

average price in CY 2014.

Source: IMS analysis for PhRMA, May 2015



Biopharmaceutical Sector Impact on the U.S. Economy

Supports
High Quality Jobs in the U.S.



813,523 Direct Jobs

3,363,347 Total Jobs

The Biopharmaceutical sector directly supported more than 810,000 U.S. jobs in 2011. These jobs are often high-skill, high-wage professions.

The industry also supported another 2.5 million jobs outside the biopharmaceutical sector, for a total of about 3.4 million jobs. These additional jobs are with vendors and suppliers such as construction companies and I.T. companies, and jobs generated by the sector's employees such as day care centers and restaurants.

Types of Direct Jobs

17%	14%	13%	11%	9%	8%	8%	7%	5%	8%
Life, Physical & Social Science	Office & Administrative Support	Production	Management	Business & Financial Operations	Architecture & Engineering	Mathematical		Transportation & Material s Moving	Other**

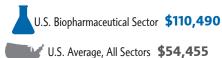


Total Personal Taxes Supported

Workers whose jobs were supported by the biopharmaceutical sector paid a total of \$42 billion in personal taxes in 2011—\$36 billion in federal taxes and \$6 billion in state taxes. \$17 billion of the \$42 billion was paid by workers in the direct biopharmaceutical sector.



Compensation per Direct U.S. Employee



Average wages and benefits for direct biopharmaceutical sector workers were more than twice the overall U.S. average, an indication of the high-quality jobs the biopharmaceutical industry provides to U.S. workers.



Total Direct Compensation \$90B

Wages and benefits (total compensation) totaled \$90 billion in 2011 for direct biopharmaceutical sector workers, and \$225 billion for all workers whose jobs were supported by the sector.

Economic Output Supported

Economic output represents the value of the goods and services produced by a sector. In 2011 the biopharmaceutical sector supported \$789 billion in U.S. economic output—including \$375 billion generated directly by the sector, and another \$414 billion through its vendors and suppliers and through the economic activity of its workforce.

\$375B DIRECT

\$414B INDIRECT \$789B in Total Economic Output in U.S.



Direct Output per Direct Employee



U.S. Biopharmaceutical Sector \$461,293



U.S. Average, All Sectors \$149,228

The biopharmaceutical sector's high output per employee, a measure of productivity, indicates the sector's important contribution to U.S. economic competitiveness and its potential to drive economic growth.

^{*}Types of direct biopharmaceutical jobs in U.S. are for 2012. All other estimates are for 2011.

^{**}Other occupations include areas such as Installation, Maintenance, & Repair (2%), Healthcare Practitioners (2%), Arts, Design, & Media (1%), and Building & Grounds Maintenance (1%), among others.