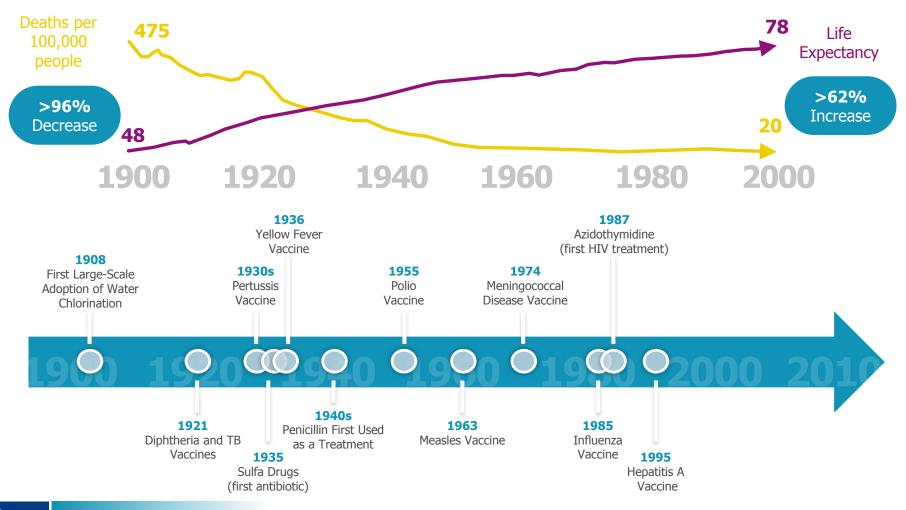
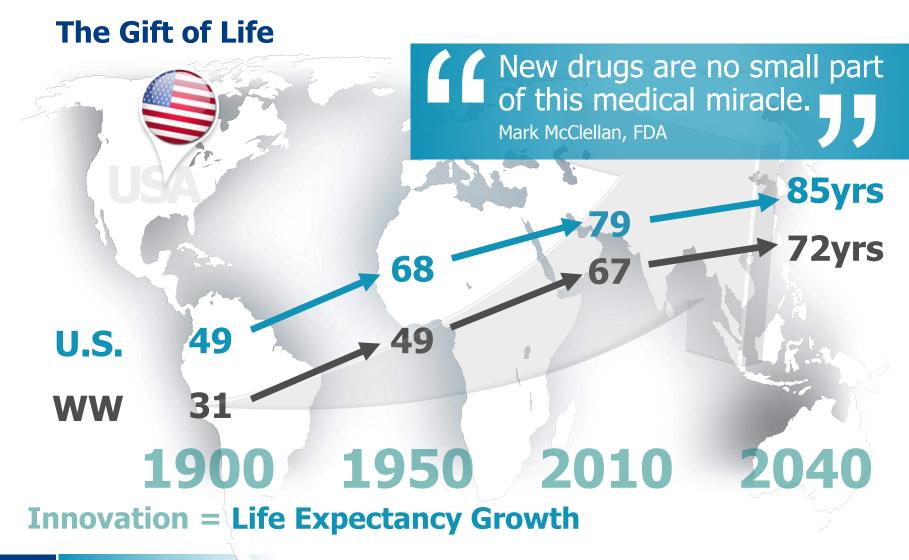
The Value of Medical Innovation: A New Paradigm of Pharma R&D for Efficiency and Success

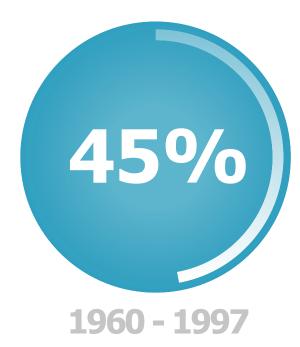
Robert J. Hariri, MD, PhD Founder & Chairman Celgene Cellular Therapeutics

Longer Life Through Better Medicines 1900-2010

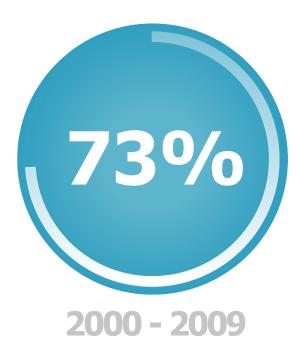




New Therapies are the Greatest Contributor to Increased Life Expectancy

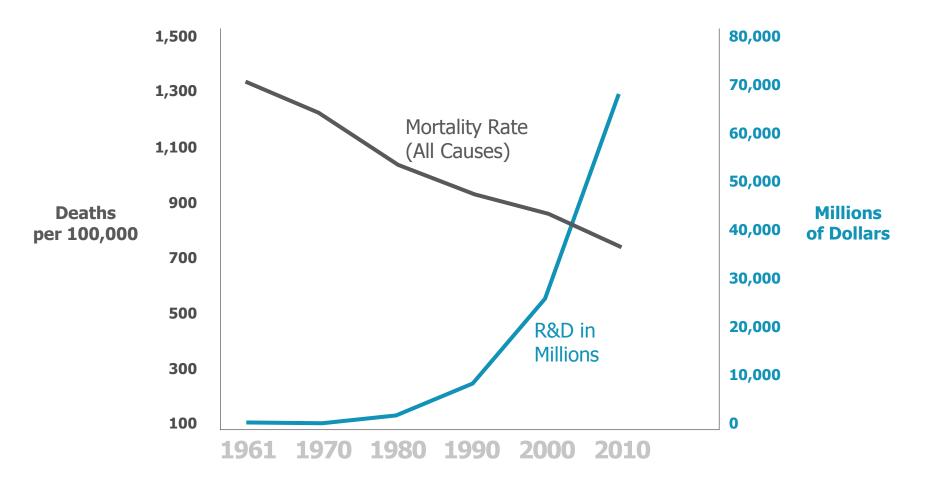


New therapies account for 45% of the increase in life expectancy

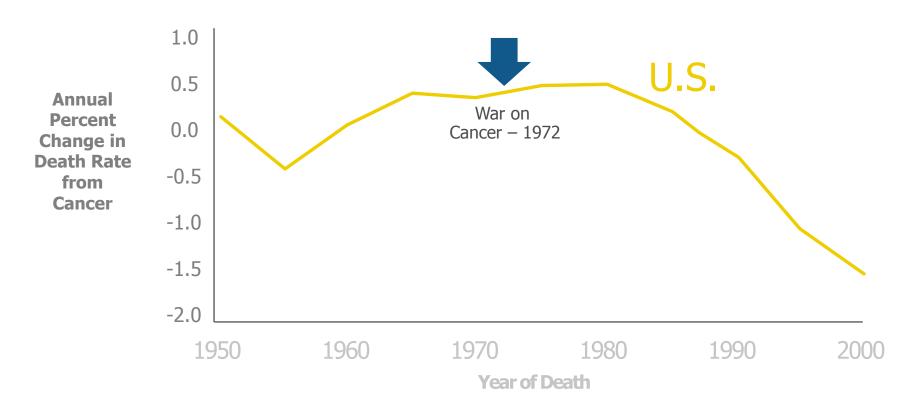


New therapies account for 73% of the increase in life expectancy

Impact of New Therapies on Death Rates

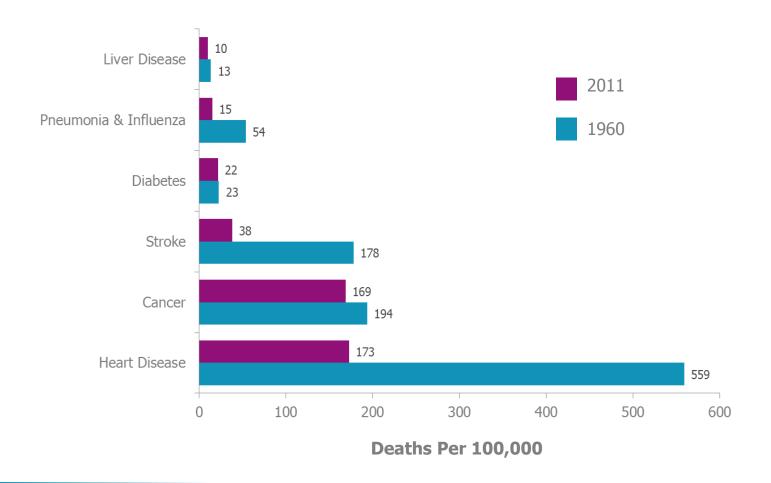


Cancer Innovation Tells the Story

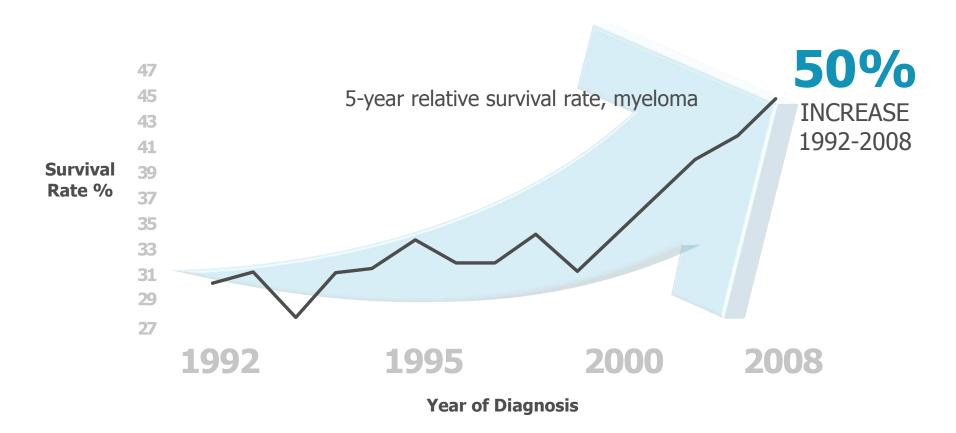


Death Rate from Cancer Has Been on the Decline for Over 30 Years

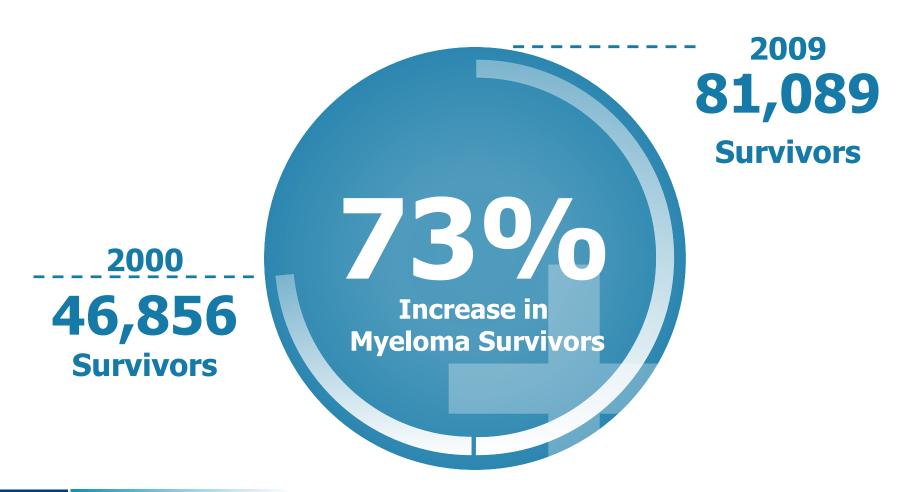
Decline in Death Rates from Leading Causes 1960- 2011



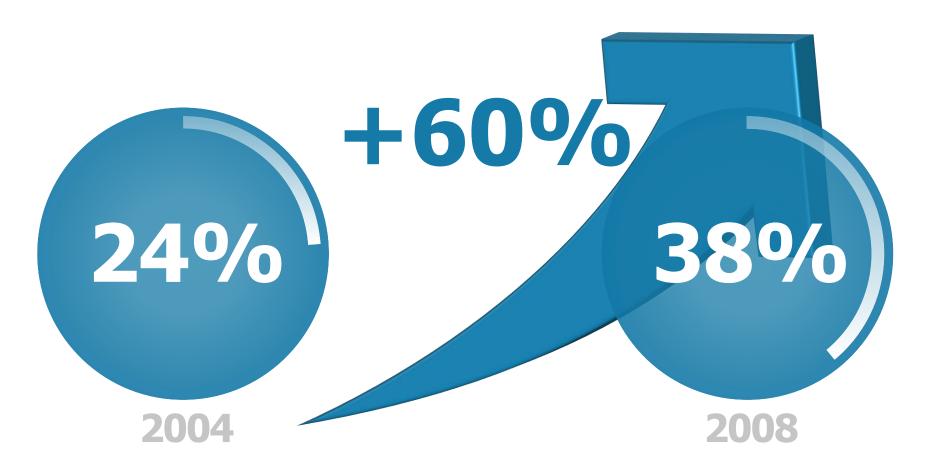
Survival Rate For Myeloma Patients Soars With New Innovative Therapies



Myeloma Survivorship Rapidly Increasing



Five-Year Survival from Myelodysplastic Syndromes (MDS) Increasing





Innovation is a Virtuous Cycle. Requiring Commitment. Investment. Vision.

Innovation

Celgene has a proven track record of delivering better outcomes with better healthcare through innovation.

Investment

Innovation results from continuous investment of time and resources by biopharmaceutical companies such as Celgene.

Virtuous Cycle of Innovation

Access

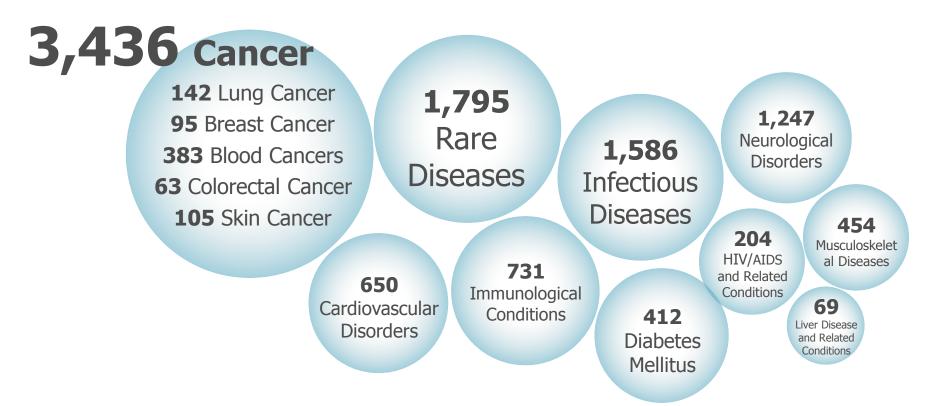
Access and reimbursement for current innovative therapies funds investment in future innovation.

Commitment

The unprecedented survival results reported with Celgene's innovative therapies are direct results of the company's commitment to improving the lives of patients worldwide.

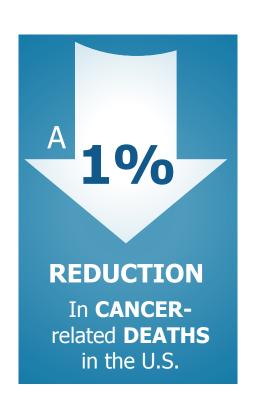
Improvements in healthcare are an important source of gains in health, longevity and productivity globally.

Maximizing the Promise of Science: 5,000+ Medicines in Development in 2011



Reflects number of compounds in Phase I, II, III, or having been filed with the FDA, or approved by the FDA, but not yet on the market in the U.S (as of January 2013). Medicines with multiple indications may appear in more than one category but are counted only once for total (3,091).

Living Longer, Better and Healthier Benefits Society



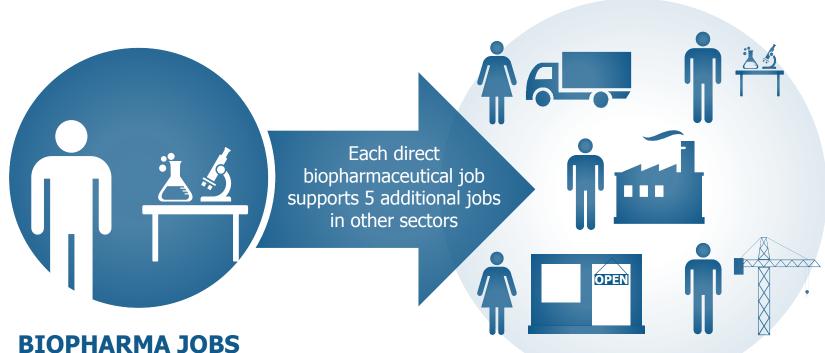
Stimulates economy

Improved quality of life \$500 Billion
In Societal Value

Maximized life expectancy

^{*}Extended survival contributes to economic stimulus by affording people more time to purchase and enjoy leisure activities

Greatest Source of Jobs in 21st Century

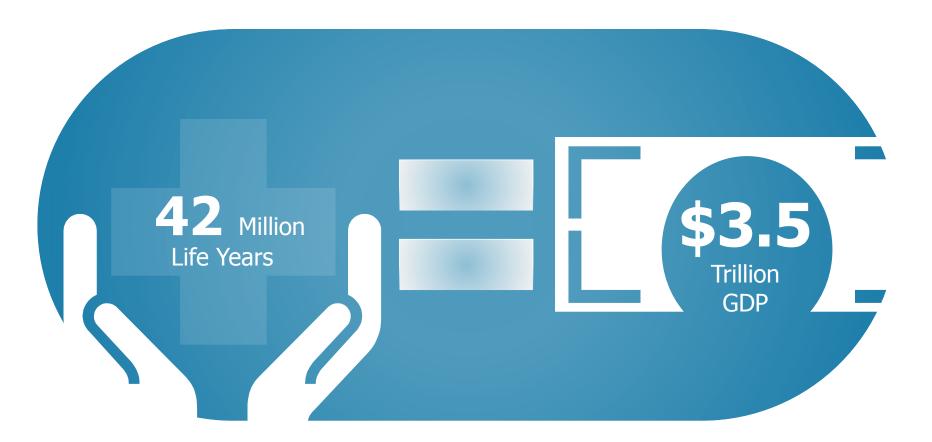


More than 650,000 jobs in the U.S. biopharmaceutical sector

TOTAL JOBS SUPPORTED

4 million total U.S. jobs supported by the biopharmaceutical sector

Estimated Value of Additional Life Years Gained From Innovative Cancer Treatments 1988-2010



The Promise of Medical Innovation = Fewer Lives Lost



Life Years
Lost to Cancer
2010 160 Million

40% REDUCTION

Projected in 2040

96 Million

Investment in Medical Innovation is the Most Powerful Force for Human Progress

Save Billion

If cancer were prevented in 2020, we could save:

\$158 Billion a year in medical costs

1.9 Million lives

\$2.2 Trillion in value





Tremendous Contributions to Economic Growth

Over the past 50 years, medical innovation has been the source of more than

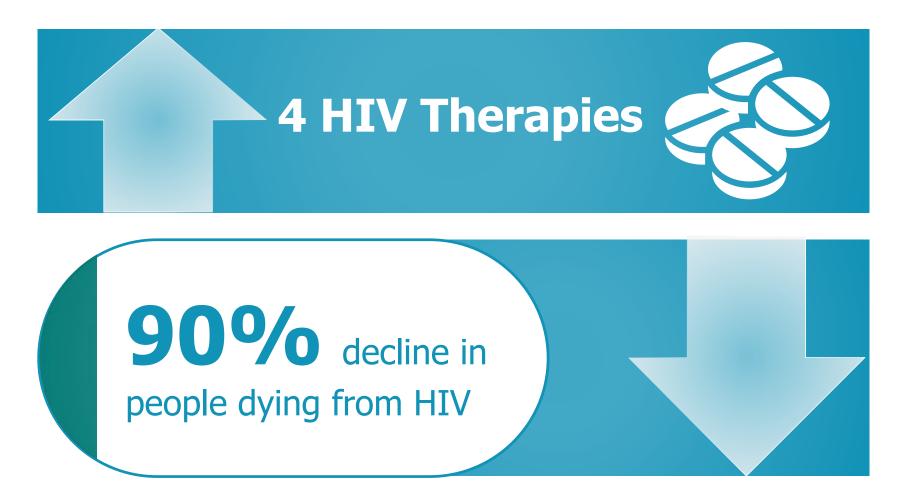
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of all economic growth

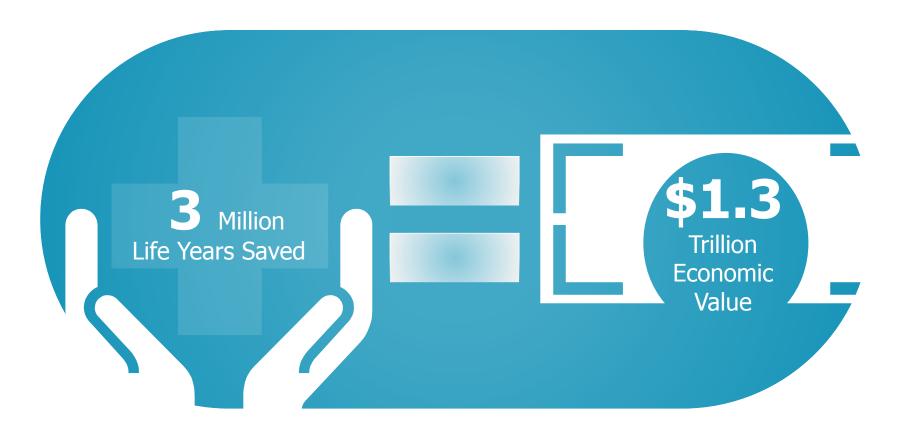
Source 2: Murphy KM and Topel RH. The Value of Health and Longevity. J Polit Econ. 2006: 114(4); 871-904.



The Value of Medical Innovation: HIV



Medical Innovation Delivered on Its Promise for Patients with HIV



Potential Cost of Increased Reimbursement Regulation on Innovation

Between 2010-2040:



Decline in R&D for cancer and rare diseases



Fewer life years



Lost economic growth potential

We Are at a Critical Crossroads for Medical Innovation



R&D Investment



Longer, Better, Healthier Lives

What's at Stake ...

Today's investments in healthcare and R&D can **create a world free from cancer** for our children and our children's children.

