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Research Partnerships to Drive Health and Growth in Europe

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Prague, April 29 2015

Introducing EFPIA

The European Federation of Pharmaceutical Industries and Associations (EFPIA) represents the pharmaceutical industry operating in Europe. Through its direct membership of 33 national associations and 40 leading pharmaceutical companies, EFPIA is the voice on the EU scene of 1,900 companies. EFPIA counts two specialised companies: Vaccines Europe (VE) and European Biopharmaceutical Enterprises (EBE).





























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⇔Chiesi















Boehringer Ingelheim



Bristol-Myers Squibb











Over the last 60 years Europe has made great strides in improving health outcomes resulting in a 14-17 % increase in life expectancy

Life expectancy at birth for EU27 countries (1950-2010) Life Expectancy (years) 82 During the last 60 79.3 80 years, both male 78 and female life expectancies have 76 +17% improved 74 substantially across 71,4 72 Europe. 70 68.068 +14% 66 62.9 64 62 **Time Period** 1955-1960-1965-1970-1975-1980-1985-1990-1995-2000-2005-2010 1955 1960 1965 1970 1975 1980 1985 1990 1995 2000 2005 Women Men



Medicines Are Transforming the Treatment of Many Difficult Diseases

HIV/AIDS

In the last two decades, advances in treatment have contributed to a more than 80% decline in death rates and transformed the disease from an acute, fatal illness to a chronic condition.

Multiple Sclerosis

Oral and biologic treatments approved over the past 15 years have dramatically improved outcomes for MS patients, slowing disability progression and offering fewer relapses.

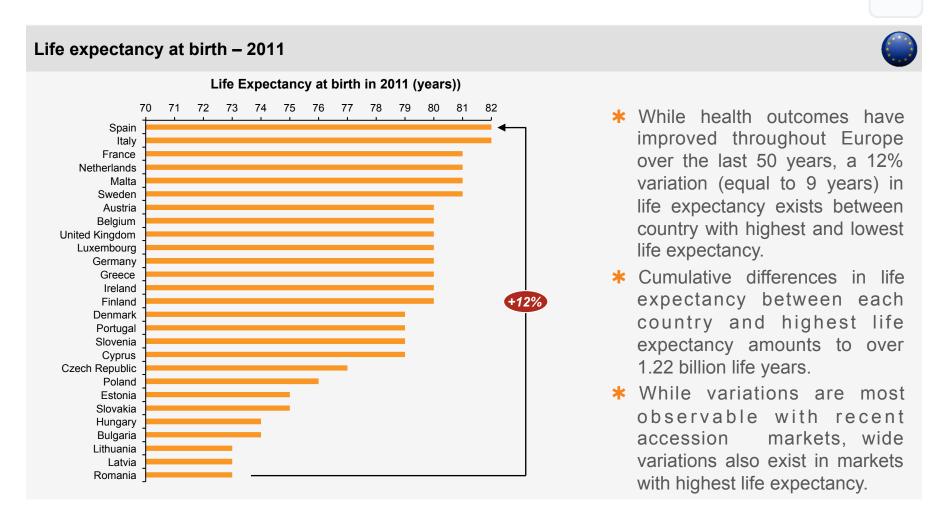
Cancer

New therapies have contributed to a 20% decline in cancer deaths since the 1990s. Today, 2 out of 3 people diagnosed with cancer survive at least 5 years.

Rheumatoid Arthritis

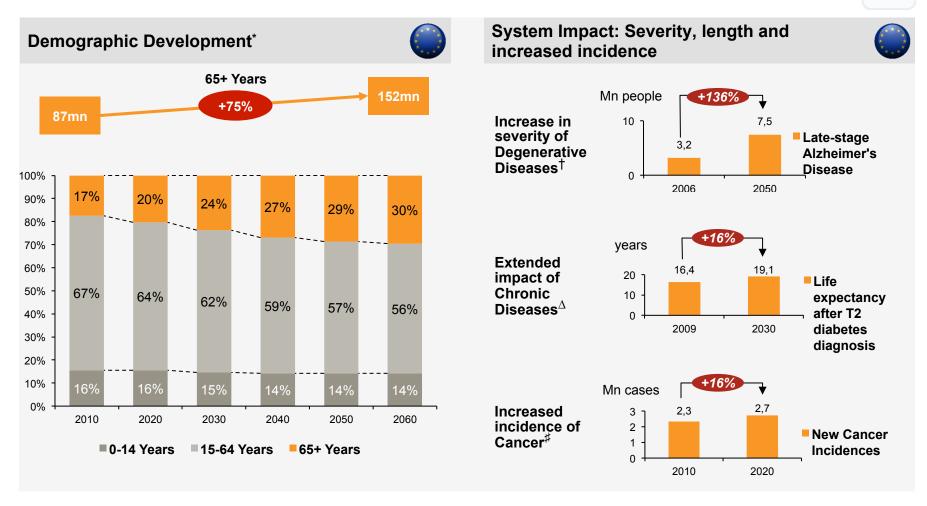
Therapeutic advances have transformed the RA treatment paradigm over the last 20 years, from focusing on symptom management to now aiming for slowed disease progression and even disease remission.

However wide variations in health attainments remain across Europe, amounting to almost a decade of life expectancy





Looking to the future, Europe needs to find solutions to pressing demographic challenges that will impact health and social spending

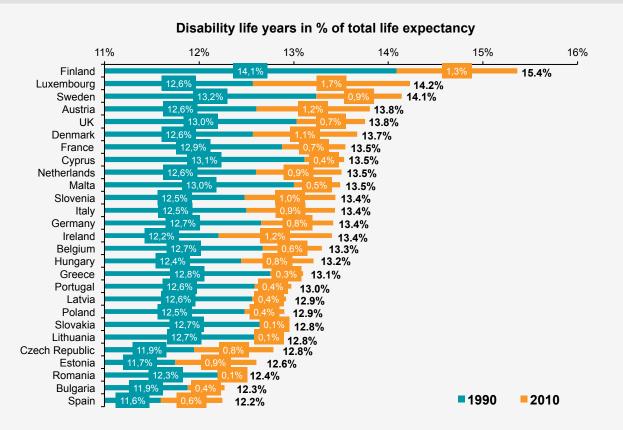




With an ageing population living with disabilities focus needs to shift from preventing mortality to improving quality of life and function

Male Disability Life Years as a % of total life expectancy in 1990 and 2010





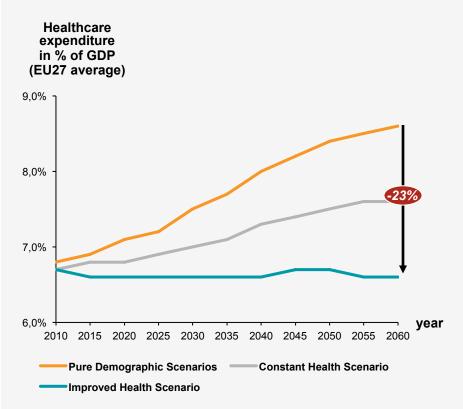
- In all 27 EU countries, disability life years as % of life expectancy has increased in the period 1990 – 2010.
- * Going forward the oldage dependency ratio and the impact of chronic diseases on disability could result in additional increases going forward with productivity losses and increases in incapacity benefits as outcomes.



Despite the bleak demographic picture, it remains possible to move healthcare spending to a more sustainable trajectory

Healthcare Expenditure (% of GDP, EU27 average) under different scenarios





***** Pure Demographic scenario:

Gains in life expectancy are assumed to be spent in disabled health while the number of years spent in good health remains constant. In this, the assumption is that health care cost per capita for each year of age remains constant in GDP per capita-adjusted terms over the whole projection period.

* Constant Health scenario:

For each year and for each age/gender, the age-related expenditure profile is shifted outwards — i.e. providing modified values of cost per capita, which are then applied in the same manner as the pure demographic scenario. For the constant health scenario, the scale of the outward shift in the age-related expenditure profile is directly proportional to the increase in life expectancy for each cohort.

***** Improved Health scenario:

Similar to the constant health scenario, only the same outward shift is assumed to be multiplied by a factor of 2.



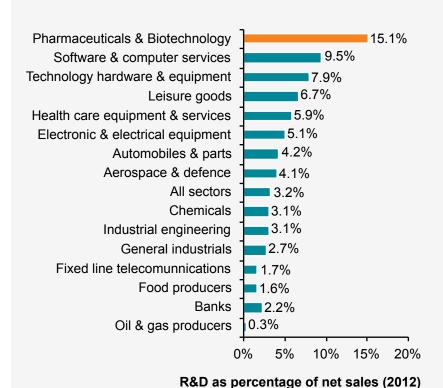
Industry continues to invest significantly in R&D, driving one of the highest value added relative to other industries

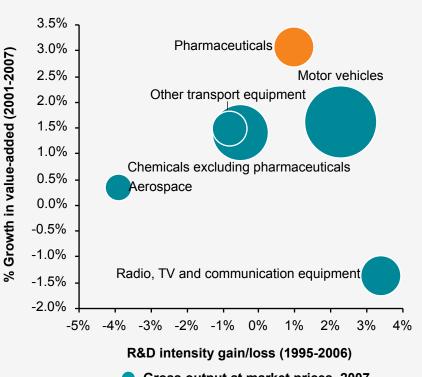
Ranking of industrial sectors by overall R&D intensity*



Value added vs. changes in R&D intensity[†]







Gross output at market prices, 2007

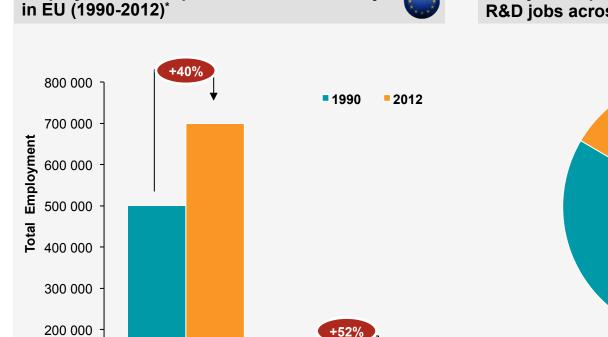
Note: R&D intensity gain/loss calculated as difference between average R&D intensity in 1995-2000 and 2001-2006





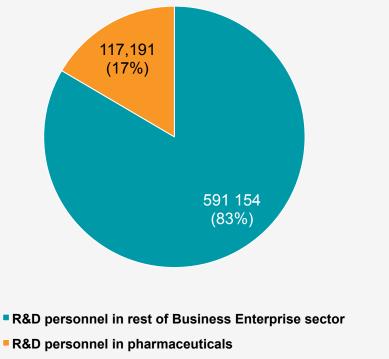
Employment in the pharmaceutical industry

The industry employs over 700 000 people in Europe, accounting for 17% of total business enterprise R&D employment



R&D jobs in pharmaceutical as a % of total R&D jobs across all business enterprises[†]







100 000

0

Total employment

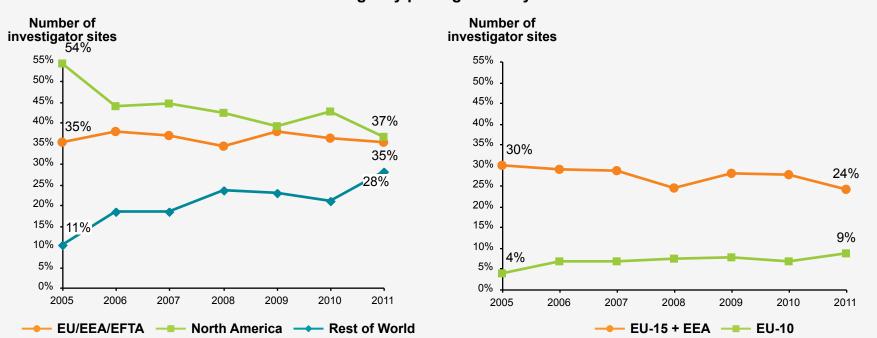
Employment in R&D

While Europe has indeed maintained its share of clinical trials, this is largely down to positive developments in Eastern Europe

Investigator sites for clinical trials (2005-2011)



Number of investigator sites involved in pivotal clinical trials submitted in MAAs to the Agency per region and year



Note: EU-15 includes the member states of the European Union prior to the accession of the ten new countries on 1 May 2004, plus EEA countries. EU-10 includes the 2004 accession countries



Integrating policy thinking on these three elements could result in winwins





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