

Health and Technology

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Why is health important?

1

- If lifespan keeps rising at the same rate, most children born today could live to go in some countries¹

2

- Healthcare costs grow faster than GDP in many countries (2% per year over the last 40 years in OECD)²

3

- Changing demographics and epidemiology will put further pressure on health systems and households³

4

- Improving population health status and equitable financial protection yields substantial economic benefits⁴

5

- Healthcare projected to be a large source of job creation in many countries in the next decade⁵

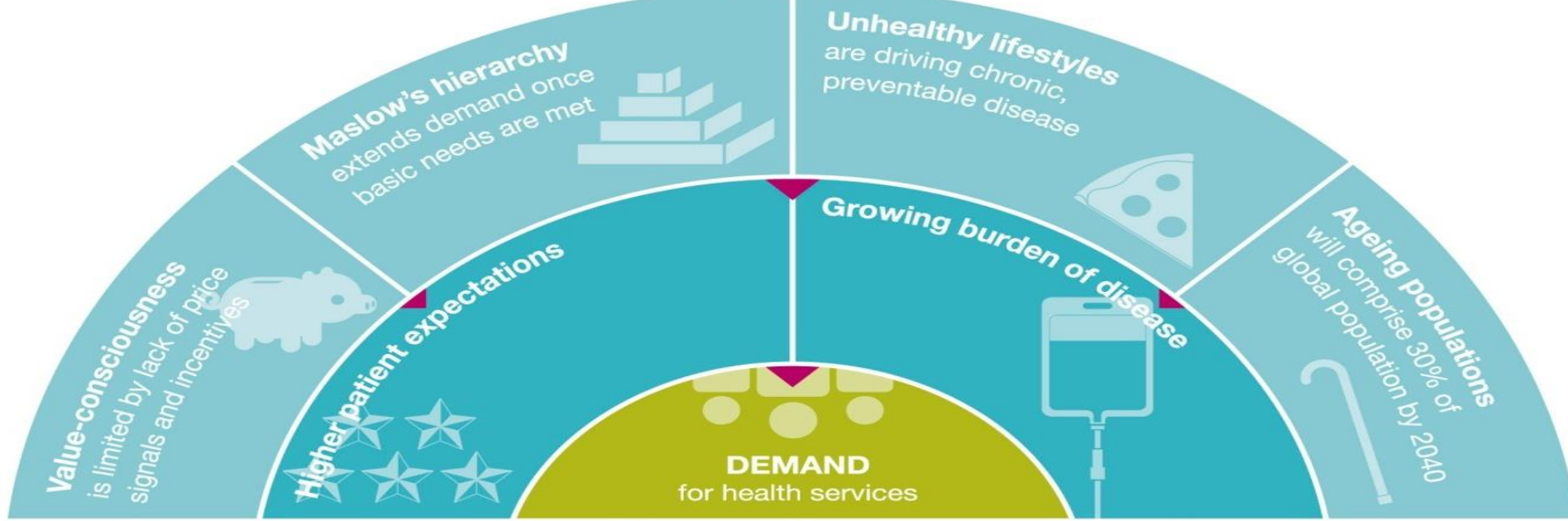
1) Kontis, V., Bennett, J. E., Mathers, C. D., Li, G., Foreman, K., & Ezzati, M. (2017). Future life expectancy in 35 industrialised countries: Projections with a Bayesian model ensemble. *The Lancet*, 389(10076), 1323–1335. [https://doi.org/10.1016/S0140-6736\(16\)32381-9](https://doi.org/10.1016/S0140-6736(16)32381-9)

2) OECD. (2011). Health: spending continues to outpace economic growth in most OECD countries. Retrieved from <http://www.oecd.org/health/healthspendingcontinuestooutpaceeconomicgrowthinmostoecdcountries.htm>

3) HelpAge International. (2016). Ageing and noncommunicable diseases: Opportunities for the EU to respond. Retrieved from <https://www.ageinternational.org.uk/Documents/Ageing%20and%20NCDs%20of%20final%20AI.pdf>

4) Farquhar, I., Summers, K., & Sorkin, A. L. (Eds.). (2001). *Investing in health: The social and economic benefits of health care innovation. Research in human capital and development: v. 14*. Bingley, U.K: Emerald. Retrieved from <http://www.emeraldinsight.com/0194-3960/14>

5) Buckley, P. (2017). Driving healthy employment growth: A look at occupations in health care: Behind the Numbers. Retrieved from <https://www2.deloitte.com/insights/us/en/economy/behind-the-numbers/occupations-in-health-care.html>



Payment systems offer little financial incentive for patient to minimise cost

Increasing capacity induces demand

Lack of performance transparency prevents matching demand to the most productive supply

Improved survival rates imply more years of treatment



- Low and declining fertility
 - Below replacement rate at 1.46 children in 2015
- High net migration
 - Share of econ. active adult populatin (15+) working or looking for work abroad rose from 8.4% in 2000 to 27.7% in 2014
 - Population shrank by 21% between 1990 and 2015
- Low life expectancy
 - 71.3 years

- Divide: life expectancy and healthy life expectancy ¹
 - Switch from infectious diseases to NCDs
- Economic structures: working & retirement ages ^{2, 3, 4}
 - Old-age dependency ratio
- Social structures: care for local elderly (emigration) ⁵
 - Lack of human resources

1) He, W., Goodkind, D., & Kowal, P. (2016). *An Aging World: 2015* (International Population Reports). Washington, D.C.

2) Boerma, T., Mathers, C., AbouZahr, C., Chatterji, S., Hogan, D., & Stevens, G. (2015). *Health in 2015: From MDGs to SDGs*. Retrieved from WHO website: <http://www.who.int/gho/publications/mdgs-sdgs/en/>

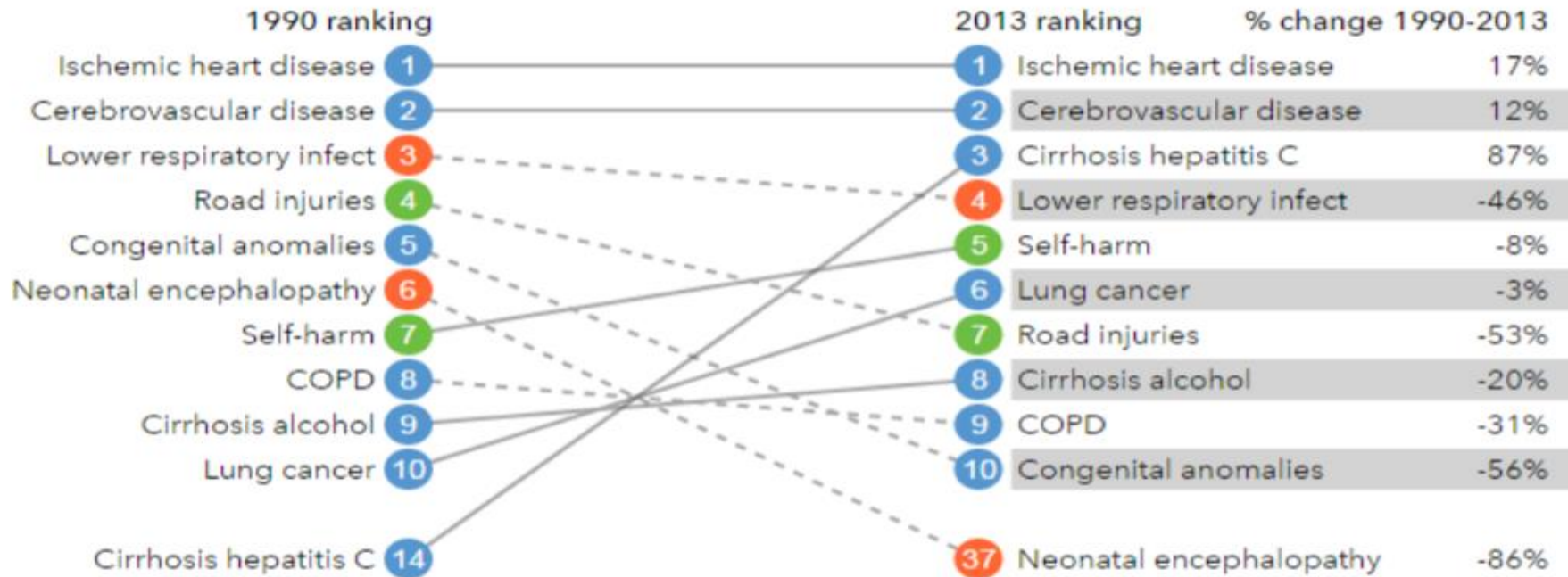
3) European Commission. (2014). *Population ageing in Europe: Facts, implications and policies : outcomes of EU-funded research. EUR: Vol. 26426*. Luxembourg: Publications Office of the European Union.

4) European Commission. (2014). *The 2015 Ageing Report: Underlying Assumptions and Projection Methodologies. European Economy: Vol. 8*.

5) Rechel, B., Grundy, E. Robine, J.-M., Cylus, J., Mackenbach, J. P., Knai, C., & McKee, M. (2013). Ageing in the European Union. *The Lancet*, 381(9874), 1312–1322. [https://doi.org/10.1016/S0140-6736\(12\)62087-X](https://doi.org/10.1016/S0140-6736(12)62087-X)

leading causes of years of life lost to premature death

- Communicable, maternal, neonatal, and nutritional diseases
- Non-communicable diseases
- Injuries



Source: IHME and HDN 2013.

Chronic Disease Management



 **Diabetes Tagebuch by mySugr**
mySugr GmbH
USK ab 0 Jahren

INSTALLIEREN

In-App-Käufe

Prevention



Education



Surgery



Elderly Care





Social Entrepreneurship

Entrepreneurs & Start-ups to develop, fund, and implement solutions for

This infographic defines Social Entrepreneurship. It features a black header with the title in white. Below is a green section with a globe icon and the text 'Entrepreneurs & Start-ups to'. The bottom section is orange with the text 'develop, fund, and implement solutions for' and an icon of a person at a laptop.



social

cultural or

environmental challenges

This infographic shows three stacked horizontal bars. The top bar is pink with a head icon containing a cross and the word 'social'. The middle bar is purple with a church icon and the text 'cultural or'. The bottom bar is teal with a tree icon and the text 'environmental challenges'.



Innovative

Interdisciplinary

This infographic shows two stacked horizontal bars. The top bar is blue with a lightbulb icon containing a leaf and the word 'Innovative'. The bottom bar is red with an icon of two people and the word 'Interdisciplinary'.



EAST EUROPE FOUNDATION
ENGAGING CITIZENS, EMPOWERING COMMUNITIES



- A non-profit program by the Eurasia Foundation (Washington, D.C.; USA) in Transnistria
- Collaboration with Swedish Government
- One program - social entrepreneurship
 - Provide funding and technical assistance / know-how to entrepreneurs

Thank you for your
attention!