

# **Building Stronger Economies Through Better Health**

*ANDI Health Forum - Cartagena*

**Prof. Dr. Dennis Oswald**

**18 June 2026**

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1

**Shifting the Narrative: Health as a  
Prosperity Driver**

# Shifting Perspectives: Healthcare as a Leading Economic Sector

## PAST



### Healthcare as a cost factor

Separate silos and fragmentation |  
Healthcare only | Input orientation |  
Increasing health expenditures

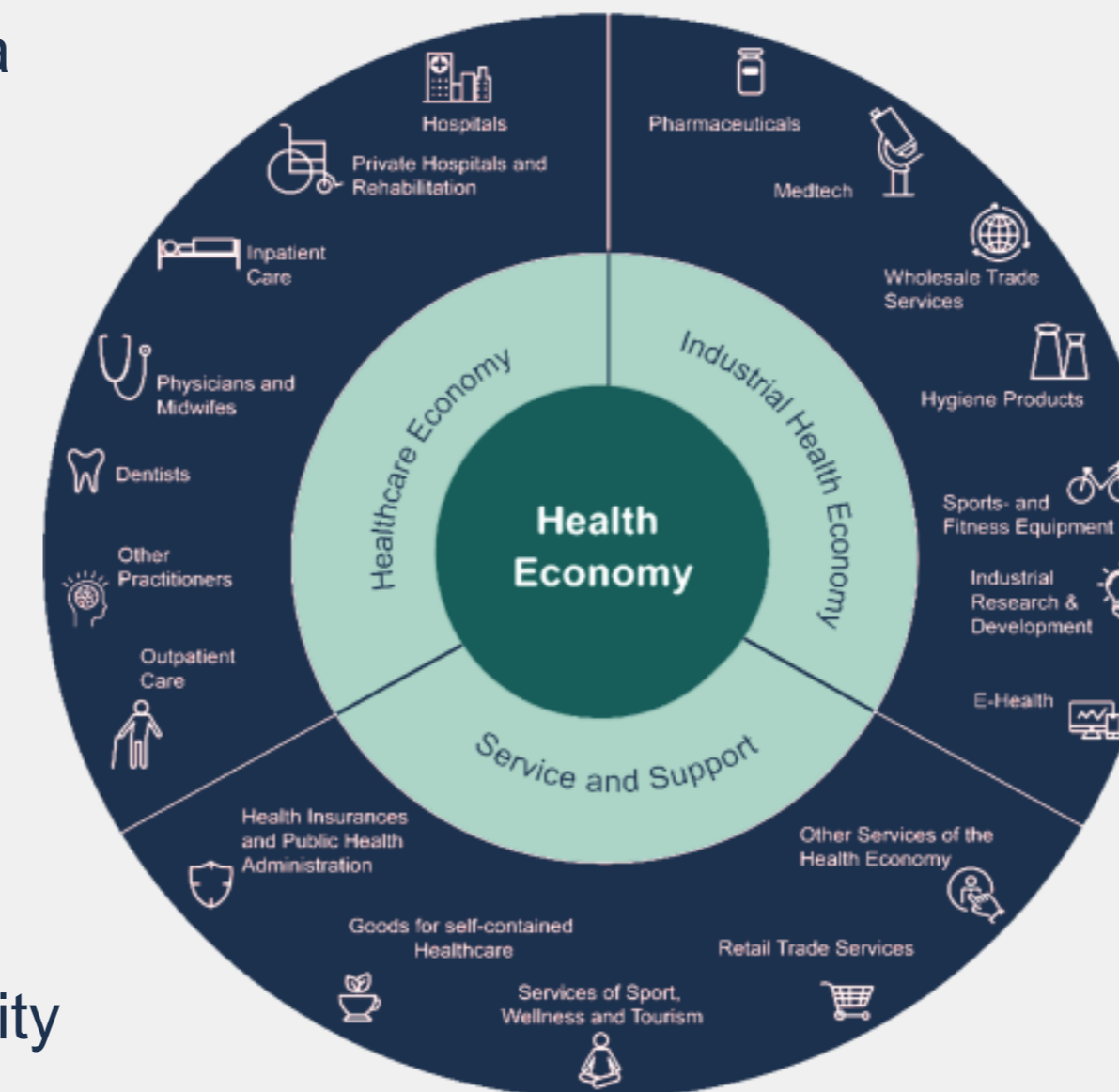
## STATUS QUO



### The Health Economy as a driver for growth and employment

Health Economy as a diverse sector |  
contribution to GDP and employment

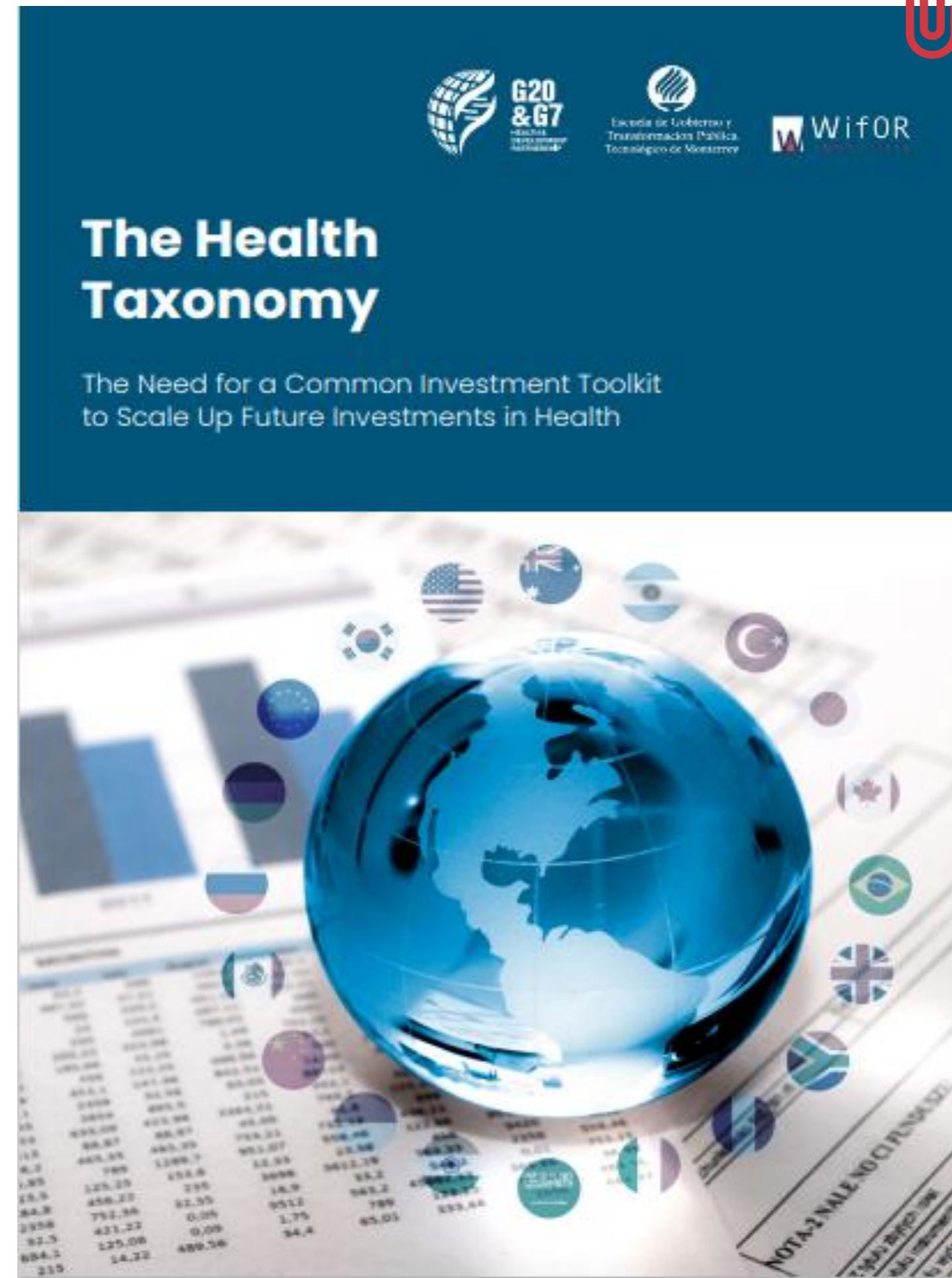
Investment in health to promote growth and productivity



Growth sector |  
increasing work force | new career opportunities

Better quality | more outcome oriented

# WifOR co-launched G20 & G7 toolkit for strategic health investments at the Health20 Summit in Geneva



Source: WifOR 2025. Own illustration.



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# WifOR's latest paper shows how investing in health today will build tomorrow's growth and resilience



## The ROI of health is quantifiable

The health sector contributed 7.6% to the global GDP output in 2019<sup>1</sup> – and every dollar invested for new treatments, early interventions, and disease reductions has a measurable socioeconomic return.

## Multiple areas benefit from health investments

Improved well-being boosts productivity, lowers costs, and creates fiscal space – in Germany, every \$1 invested in cervical cancer prevention (Pap testing) generates almost \$2 in returns within three years<sup>2</sup>.

## Global leaders can act now

Our recommendations include promoting prevention to reduce disease expenses, implementing investment frameworks, and committing to minimum fiscal and policy actions with mechanisms for bilateral consultation.



Source: WifOR 2025. Own illustration.

<sup>1</sup> WifOR calculations.

<sup>2</sup> Hernandez-Villafuerte, D. K., Schmitt, M., Fries, J. L. & Müller, M. Novel approaches assessing the value of cancer prevention in Germany.

**“Health is not an expense – it is an investment in prosperity.”**

*Friedrich Merz, Bundeskanzler*



**Key facts about the healthcare industry (2024):**

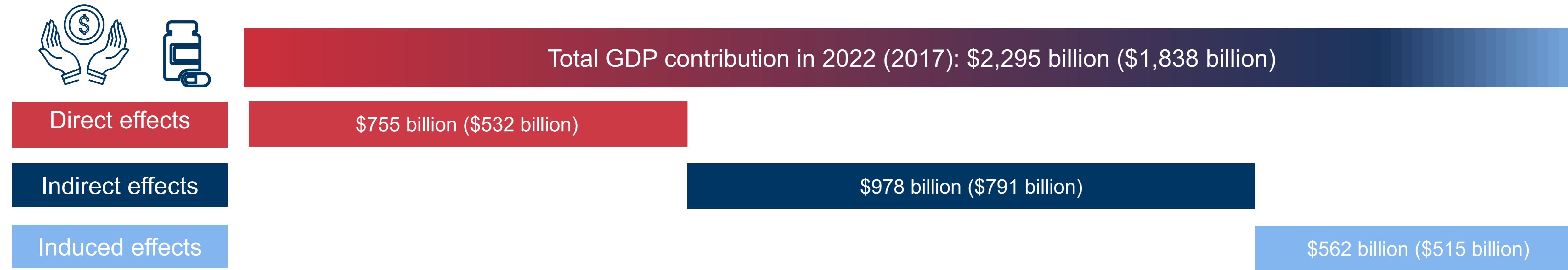
- €490 billion contribution to GDP (12.5% of the total economy)  
→ Every eighth euro comes from this sector
- 7.7 million jobs  
→ Every sixth job in Germany
- Growth since 2015: +4.9% p.a.  
→ stronger than the overall economy (+4.0% p.a.)

*“Healthcare is the fastest growing sector of our economy. We always view healthcare policy as a cost burden, rarely or never as an opportunity to create value in our own country.”*

2

**A Return-on-Investment Perspective on  
Health**

# According to the WifOR study (commissioned by IFPMA), the pharmaceutical industry contributed a total GDP of \$2,295 billion globally in 2022



**2.04**  
 \$1 of the GDP contributed directly by the pharmaceutical industry in 2022 generated **\$1.29 of indirect** and **\$0.74 of induced GDP** in the global economy.

### Spillover Multipliers for other industries\*

- 4.90 Automotive industry
- 1.22 Financial services industry
- 0.62 Utilities industry

Source: Data from National accounts, OECD, Eurostat, ADB and AfDB; data from WIOD; WifOR calculation. Deviations may occur due to rounding. \*Industry multipliers calculated with global industry spend, pharmaceutical industry multipliers with pharmaceutical industry's global spend, only for scale – not for comparison. Industry multipliers are a global average. The Life Sciences industry which is made up of pharmaceutical manufacturing and Medtech industry together had a total GDP contribution of \$3,219 billion in 2022.



# The pharmaceutical industry supported a total employment of 75 million globally in 2022



Total employment contribution in 2022 (2017): 74.9 million jobs (74.3 million)

Direct effects

7.8 million (5.5 million)

Indirect effects

44.7 million (45.1 million)

Induced effects

22.4 million (23.7 million)






## 8.54

For every worker directly employed by the pharmaceutical industry, a further **5.69 indirect** and **2.85 induced jobs** were supported due to spillover effects globally in 2022.

*In other words: One direct employee* of the pharmaceutical industry globally supported in **total 8.54 jobs** in the world economy in 2022.

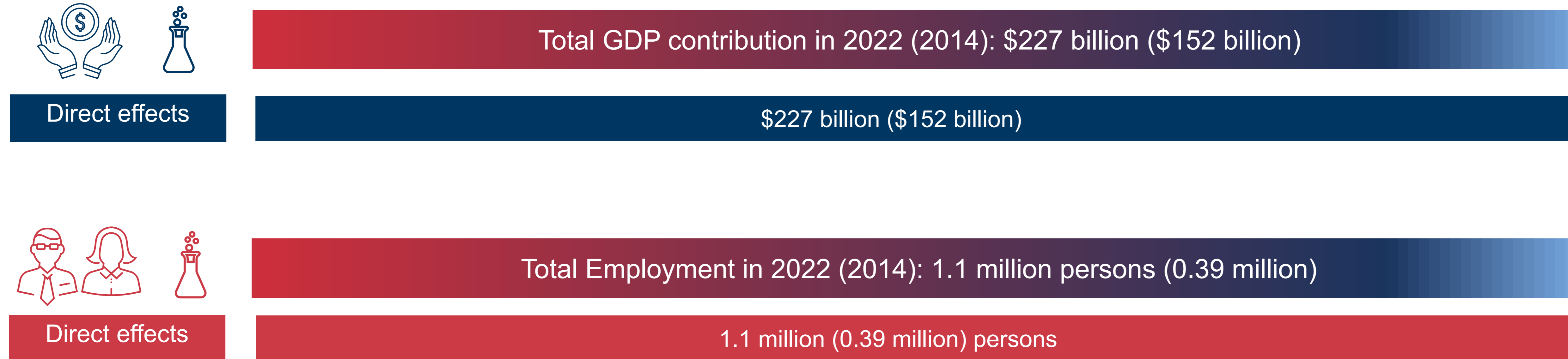
### Spillover Multipliers for other industries\*

-  15.9 Utilities industry
-  6.9 Automobile industry
-  5.7 Financial services industry

Source: Data from Labor Force Surveys, ILO, OECD, Eurostat, and AfDB; data from WIOD; WifOR calculation. Deviations may occur due to rounding. \*Industry multipliers calculated with global industry spend, pharmaceutical industry multipliers with pharmaceutical industry's global spend, only for scale – not for comparison. Industry multipliers are a global average. The Life Sciences industry which is made up of pharmaceutical manufacturing and Medtech industry together supported a total employment of 112.5 million in 2022.

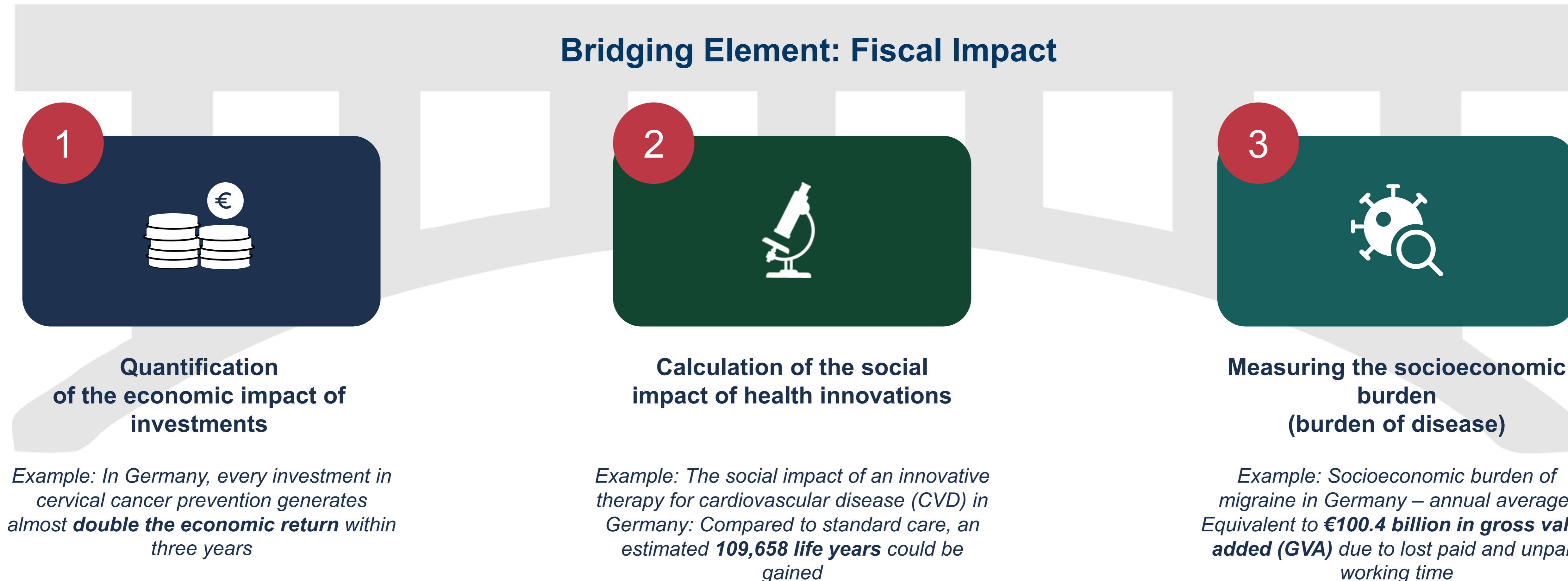


# Global Pharmaceutical industry's R&D activities contributed a GDP of \$227 billion and employed more than 1 million people in 2022

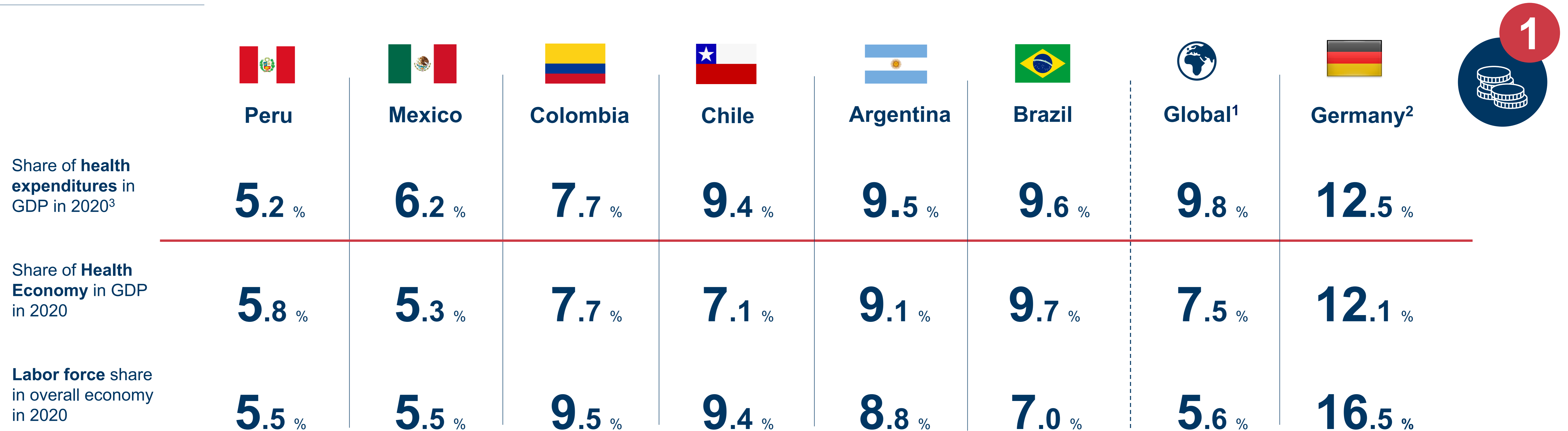


The global pharmaceutical industry paid a **compensation of \$64 billion directly** in R&D activities in 2022. **28%** of the global pharmaceutical industry's direct GDP contribution of R&D activities consists of compensation paid directly to the employees in the R&D activities.

# Return on investment (ROI): 3-phase approach to quantifying investments, innovations, and disease burden







# Studies have shown the economic impact of the Health Economy in Latin America




# The broader economic benefits of investing in prevention is measurable: The case of HPV vaccination in Commonwealth



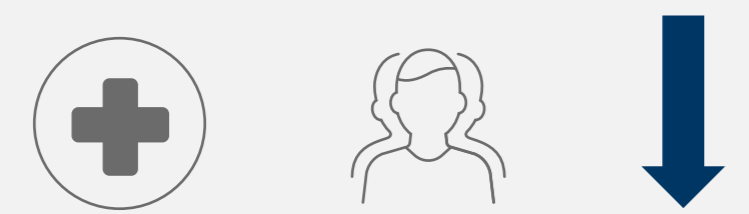
	 <b>UK</b>	 <b>India</b>	 <b>Malaysia</b>	 <b>Nigeria</b>	
<b>Investment</b> Million US\$	<b>134</b>	<b>756</b>	<b>16</b>	<b>100</b>	
<b>Million US\$ - 2022 Prices (Thousand employees)</b>					
<b>GVA contribution</b> (Labor force contribution)	<b>Effect inside the HE</b>	<b>107</b> (2)	<b>605</b> (71)	<b>13</b> (0)	<b>80</b> (6)
	<b>Effect adjacent sectors</b>	<b>62</b> (0)	<b>314</b> (40)	<b>5</b> (0)	<b>10</b> (0)
	<b>Effect induced income</b>	<b>78</b> (0)	<b>230</b> (44)	<b>5</b> (0)	<b>6</b> (0)
<b>Country-specific ROI</b>	<b>1.84</b>	<b>1.52</b>	<b>1.44</b>	<b>0.96</b>	

# Calculate the social impact (SI) of medical innovations – SI makes the health and socioeconomic benefit of a medical innovation tangible




## Health benefits

- A dynamic population model depicts prevalence and incidence developments for a specific disease
- Calculation of differences in health states between use of a medical innovation and standard of care (SoC)




**Comparing health outcomes in both scenarios**




## Socioeconomic benefits

- Establishing a link between health outcomes and productivity
- Consideration of both paid and unpaid work activities
- Monetarisation of avoided productivity loss




**Assessment of avoided productivity loss**

**Socioeconomic footprint**



## Comparison of benefits and costs

- Comparing the calculated benefits in monetary terms (value), against the long-term costs for the social health insurance (investment)
- Inclusion of direct medical and direct non-medical costs possible

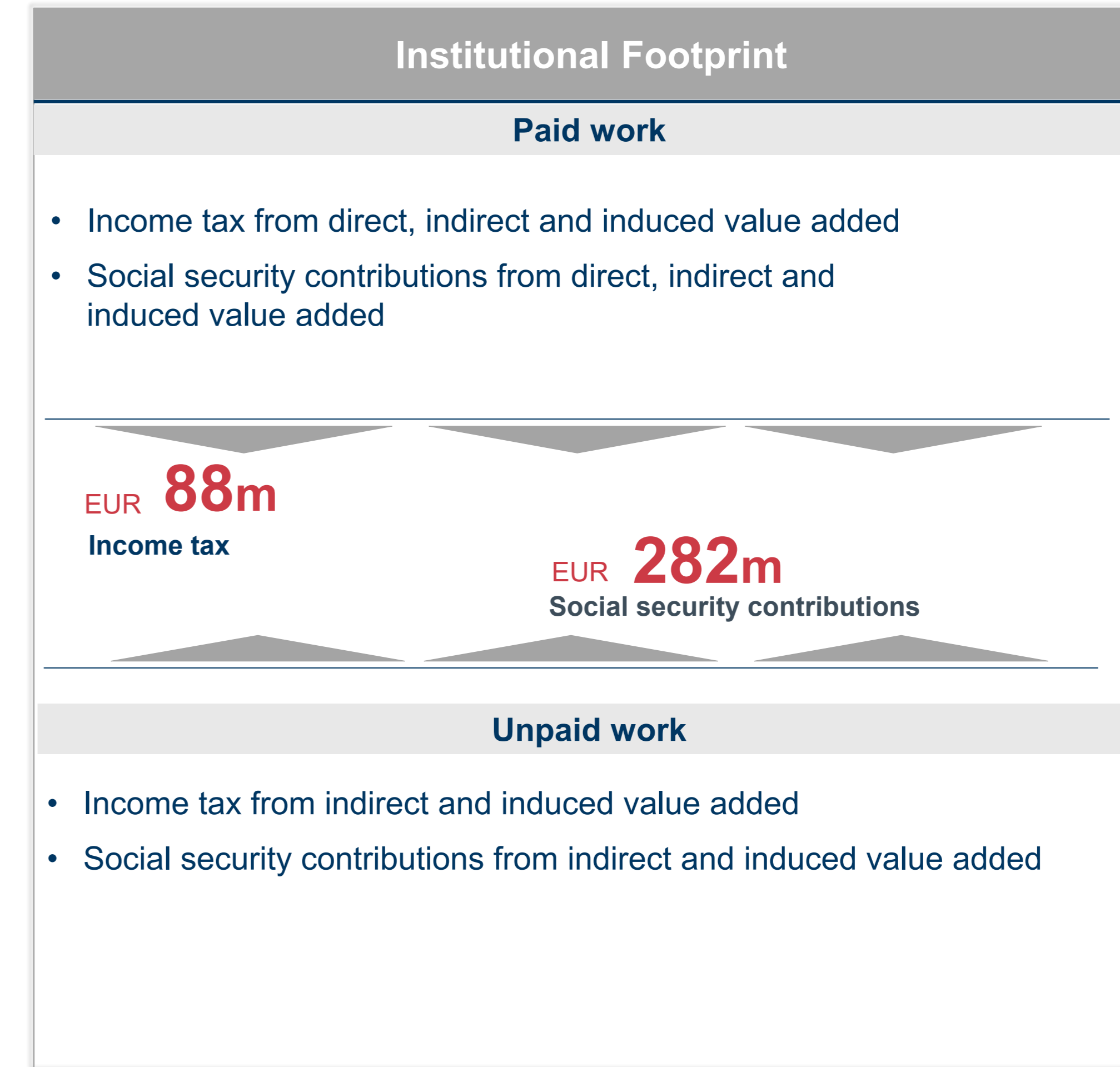
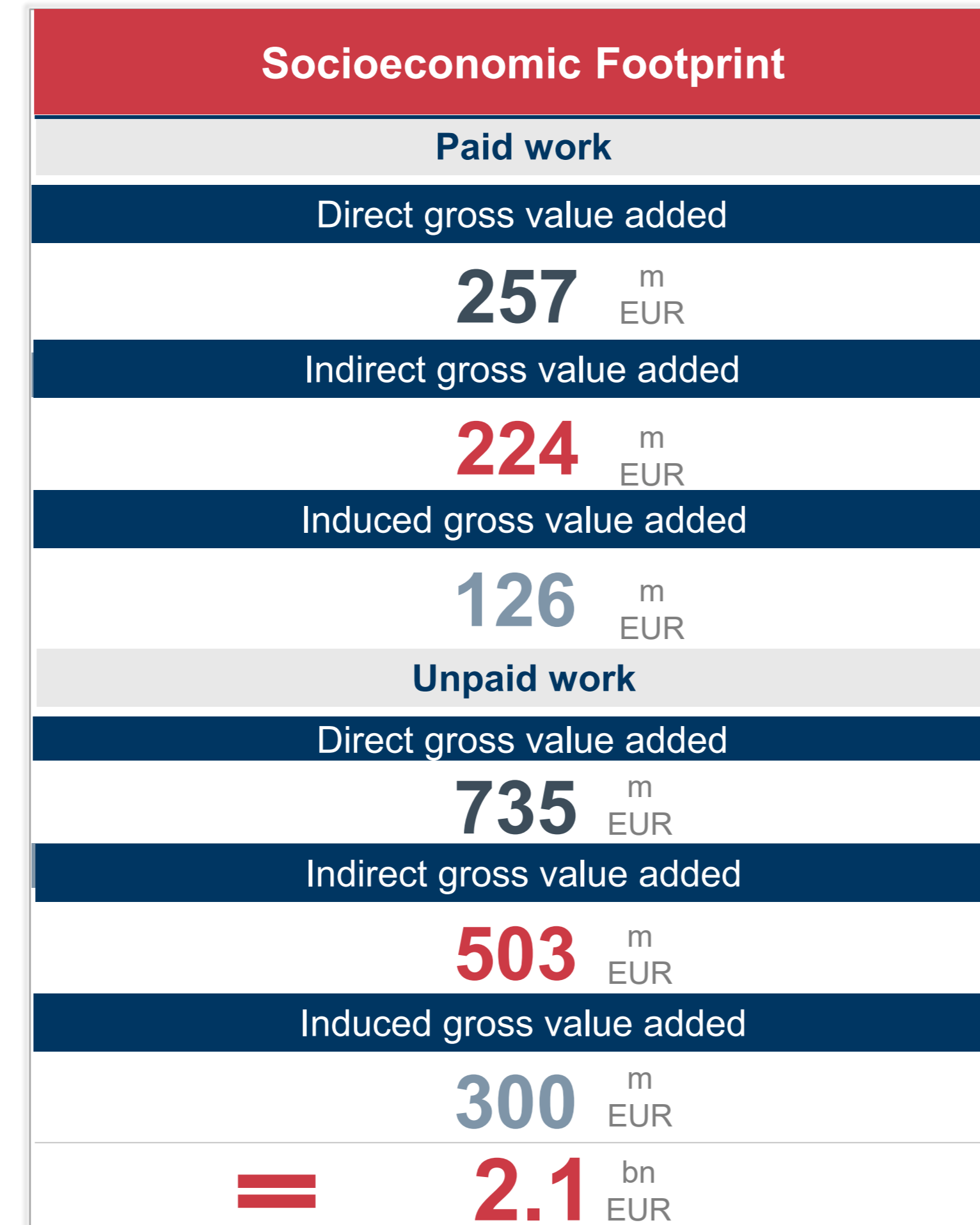
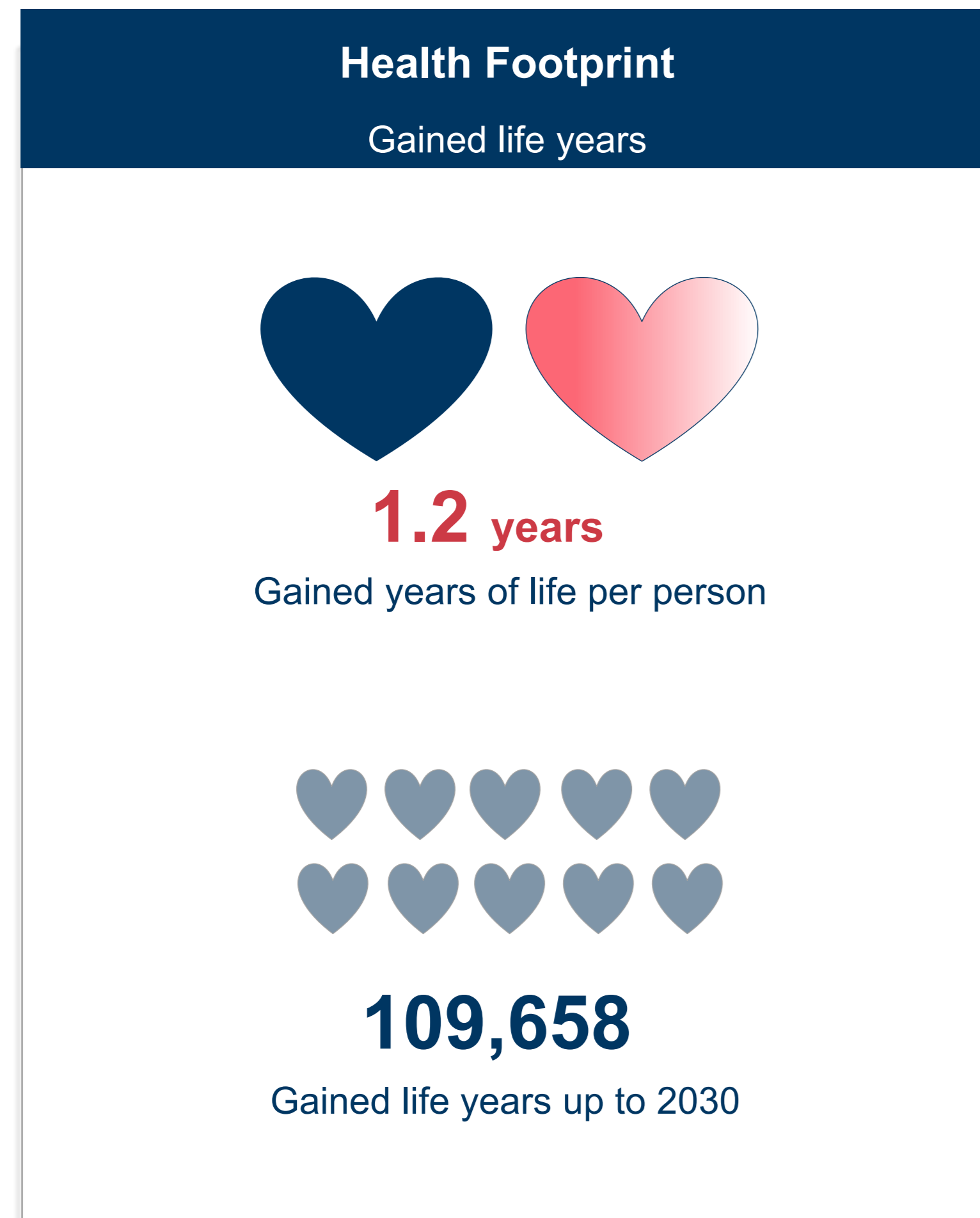


**Constituting a value-invest ratio**

**Value-Invest analysis**



# Social Impact of heart failure therapy in Germany: 109,658 life years can be gained compared to treatment with SoC\*



\*in patients with reduced ejection fraction of NYHA stages II-IV, maximum of 500,000 patients eligible for heart failure therapy, study assumes that the market penetration of heart failure therapy will gradually increase after approval and reach its maximum of 25 percent after 5 years, so that after 5 years an estimated quarter of all eligible patients will be treated with heart failure therapy as SoC (Standard of Care).

Source: [A Novel Treatment for Heart Failure and its Estimated Cost Effectiveness, Budget Impact, and Disease Burden Reduction in Germany](#)



# Example | Key findings of the Social Impact of Omalizumab in Japan



**4 mio hours**  
per year

Avoided loss in paid work:  
Avoided loss in unpaid work:

**2.5 mio hours**  
**1.5 mio hours**



**\$ 120 mio GVA**  
per year

Avoided productivity loss:  
Avoided activity loss:

**\$ 101 mio GVA**  
**\$ 19 mio GVA**



# Calculation of the socio-economic burden (SoB) of disease



## Disease prevalence and health outcomes

- Describe the age- and gender-specific prevalence and incidence of a disease in Germany
- Identify relevant health outcomes and their occurrence or distribution

**Quantify the health burden of a disease**



## Assessment of the loss of productivity due to illness

- Establishing a link between health outcomes and productivity
- Consideration of the activity characteristics of the patient population

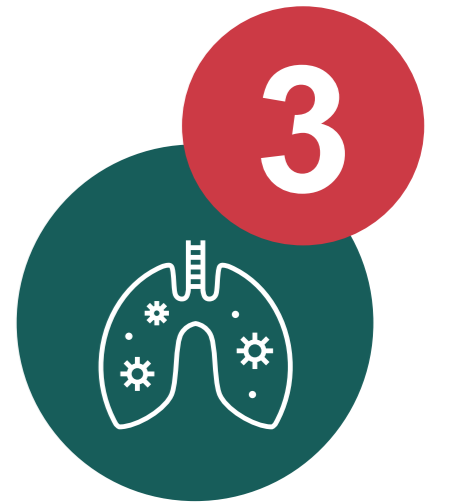
**Quantification of the socio-economic burden**



## Valuation of lost productive time

- How can this loss of potential for productive activities be translated into monetary value?
- Consideration of both paid and unpaid work activities

**Monetization of the loss of productivity**



# Socioeconomic (SoC) burden for Colombia in 2022

Compared with the following indicators (% of the GDP):

- Total health expenditures: **7.6%**
- Government expenditure on education: **5.3%**
- Tax revenue: **15.3%**

Note: Information from the World Bank data last year available

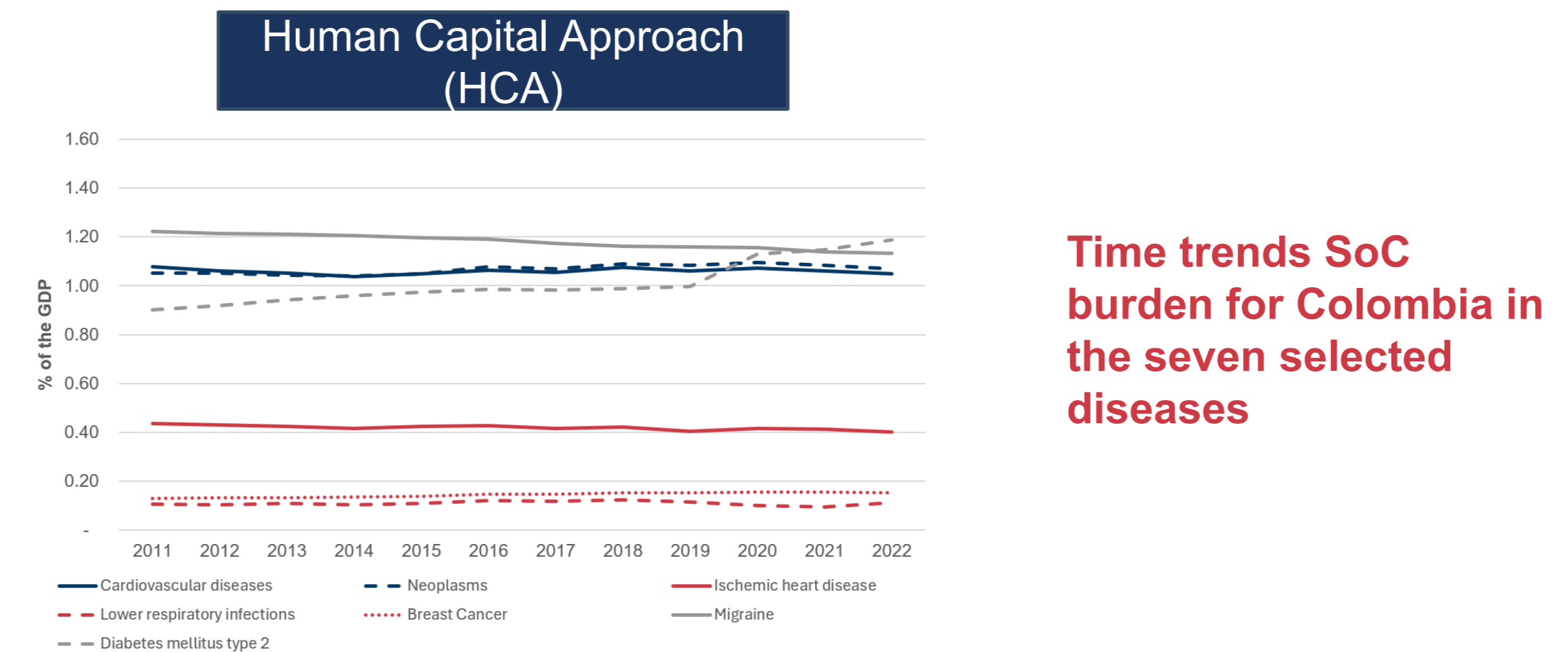
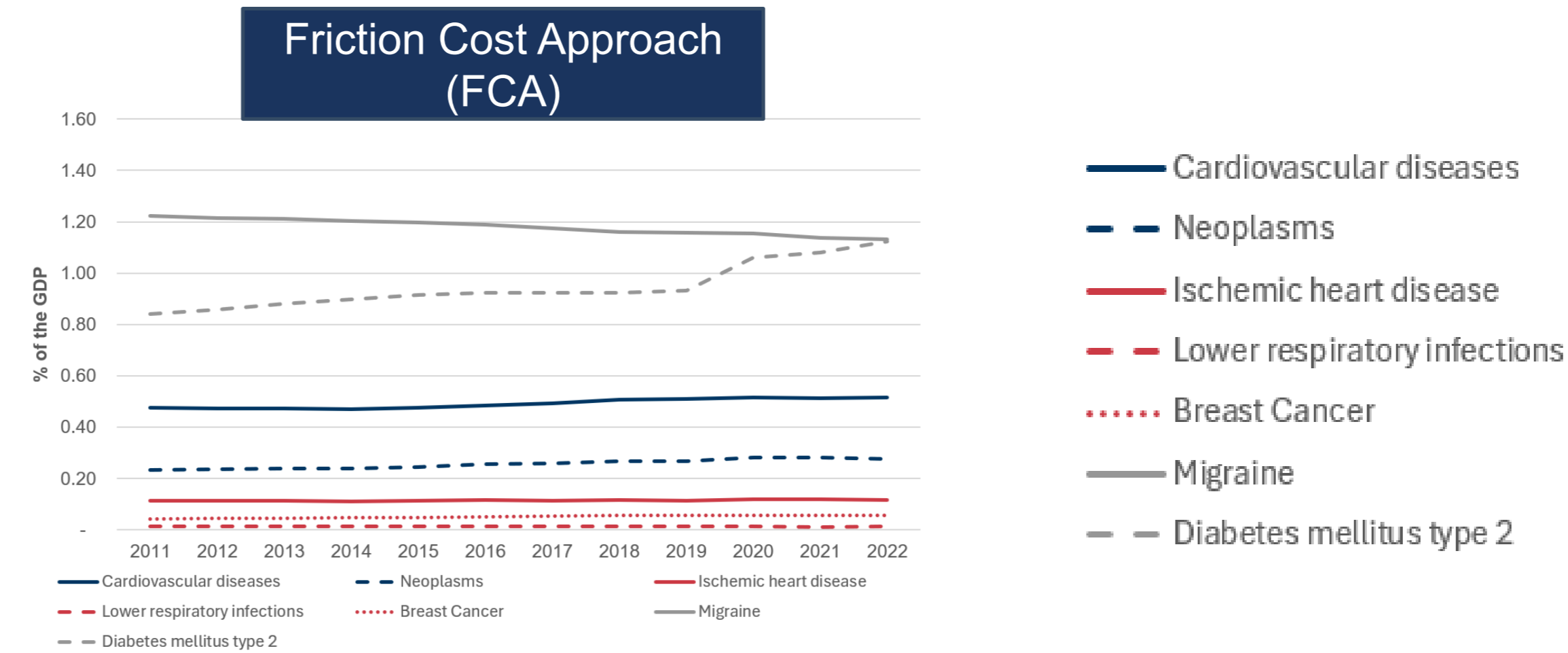
## Socioeconomic burden related to the seven selected diseases

Cause	Human Capital Approach (HCA)		Friction Cost Approach (FCA)	
	*	% of the GDP	Billion US dollars*	% of the GDP
Level 2				
Cardiovascular diseases	3.7	1.0	1.8	0.5
Neoplasms	3.8	1.1	1.0	0.3
Level 3				
Ischemic heart disease	1.4	0.4	0.4	0.1
Lower respiratory infections	0.4	0.1	0.0	0.01
Breast cancer	0.5	0.2	0.2	0.06
Level 4				
Diabetes mellitus type 2	4.2	1.2	4.0	1.1
Migraine	4.0	1.1	4.0	1.1
<b>Monetary value of the productivity lost because of the <u>SEVEN DISEASES</u></b>	<b>16.1</b>	<b>4.5%</b>	<b>10.9</b>	<b>3.1%</b>
	<b>Billion US dollars</b>		<b>Billion US dollars</b>	

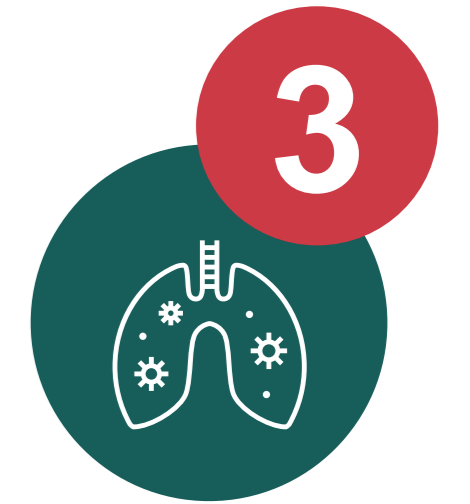


# Socioeconomic (SoC) burden for Colombia between 2011 and 2022 (including paid and unpaid work)

- Migraine** emerges as the leading cause of economic losses across types.
  - Only migraine shows a decrease in SoC burden over time.
- The burden of **type 2 diabetes** consistently rises over time
  - Faster growth at the beginning of the COVID pandemic: The increase in the SoC burden for disability (YLD) was higher than the increase in SoC burden for mortality (YLL).
- Cardiovascular and neoplasms** SoC burden is higher under the non-substitution assumption (HCA)
  - Premature deaths due to these diseases adversely affect the future labor supply of the country.
- Breast cancer and lower respiratory infections** have a comparatively lower impact on the economy than other diseases in the sample.

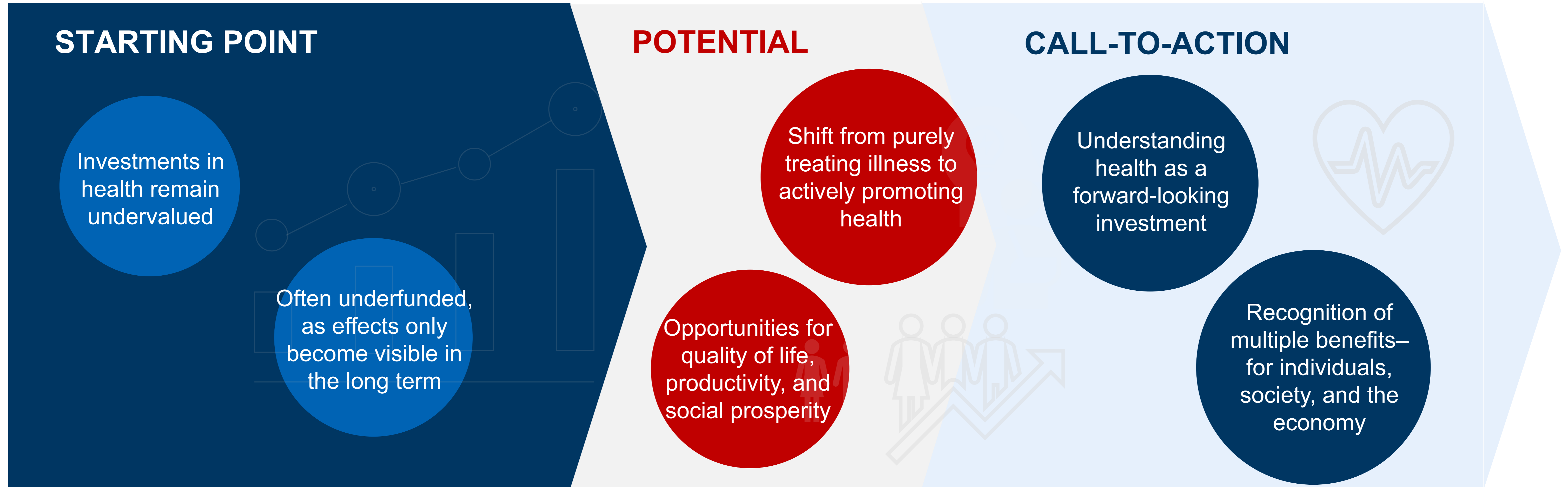


**Time trends SoC burden for Colombia in the seven selected diseases**

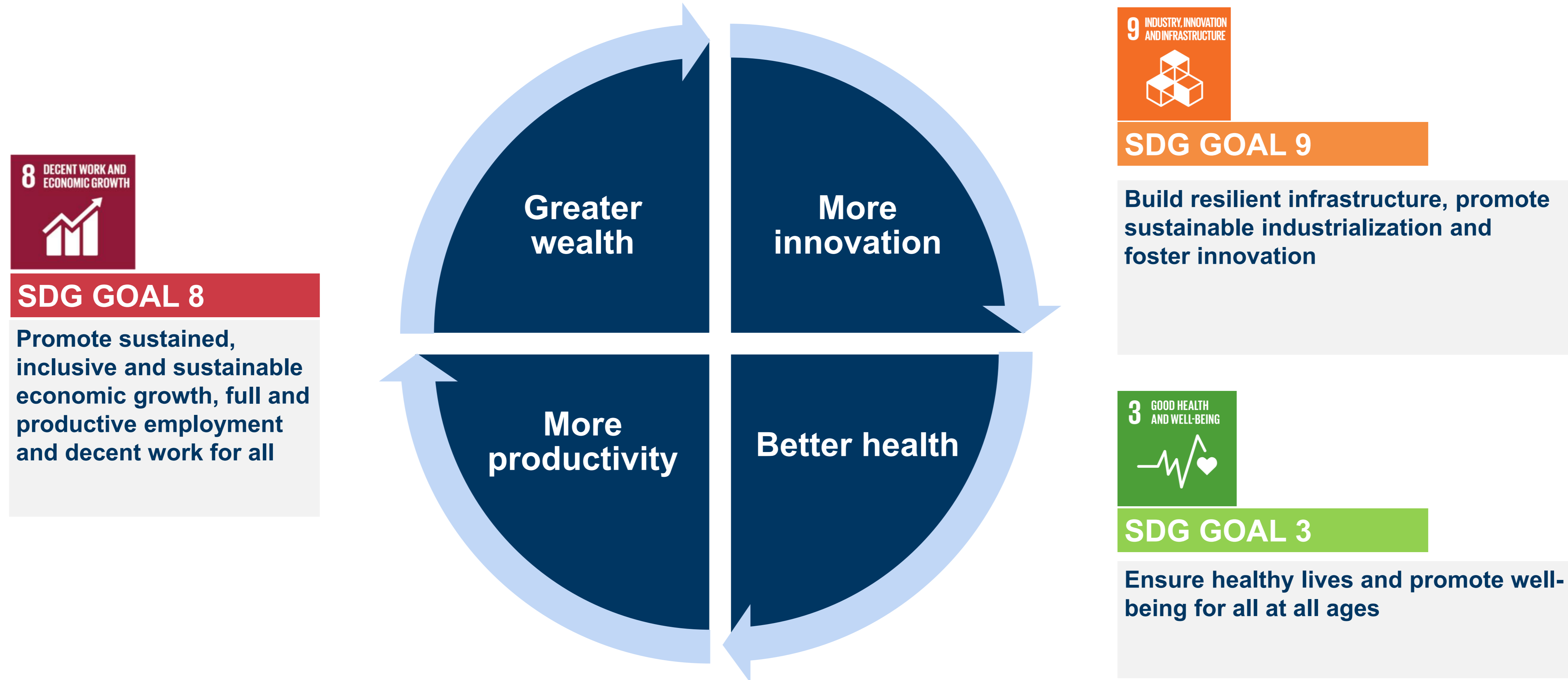


## Conclusion and Outlook

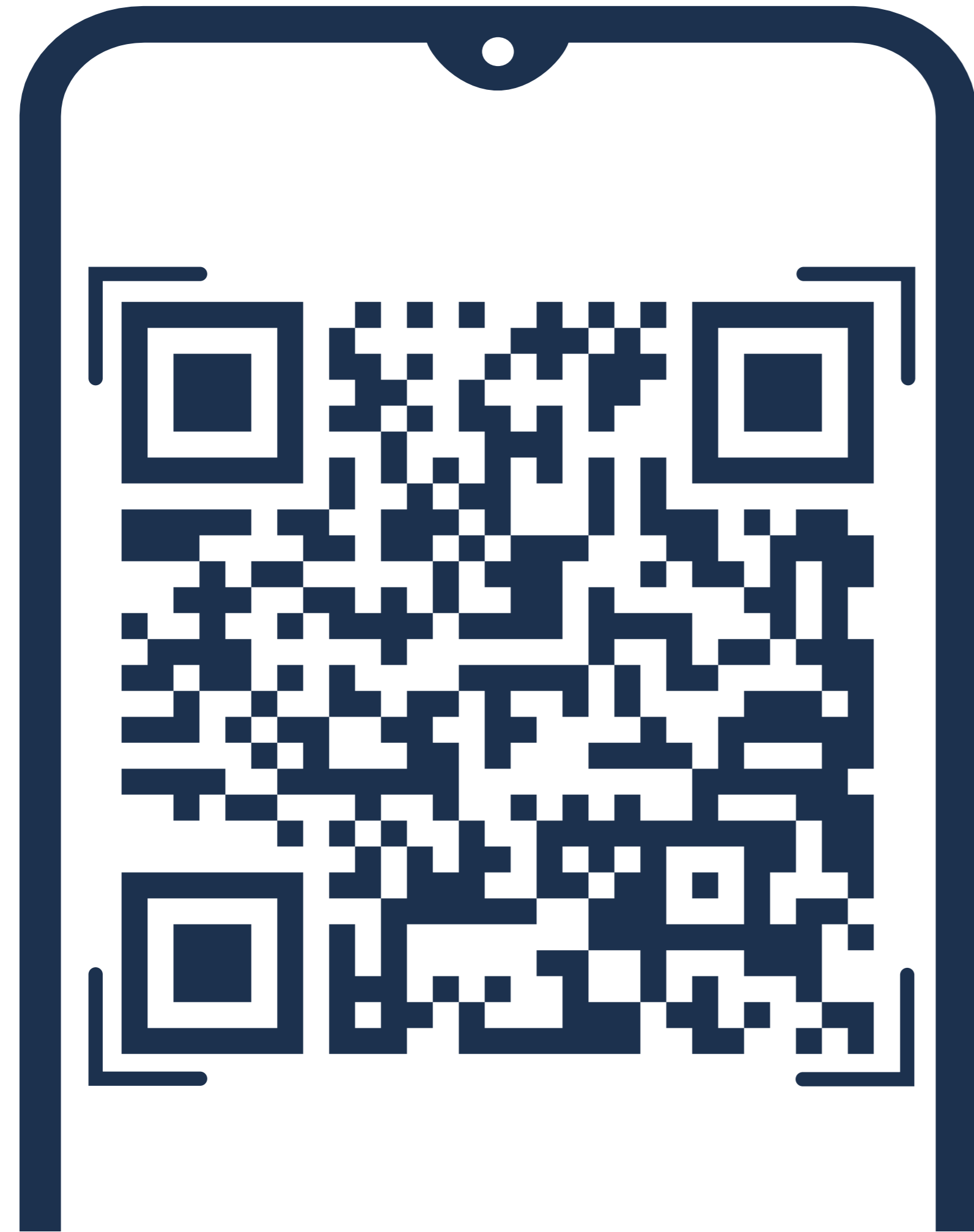
# Investing in health improves well-being, resilience, and prosperity



# Health investments create a positive feedback loop



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