



NOVEMBER 2022

# Prevention & HealthTech Study

Analysis of Belgium, Sweden and Germany

EXECUTIVE SUMMARY

# Introduction

The goal of the study is to better understand the market conditions and opportunities that offer the greatest potential for preventive health care solutions to succeed in the long term



## Context and objectives

- Deloitte has **supported lifetech.brussels** in conducting a market study on preventive health care
- The goal of the study is to better understand the **market conditions and opportunities that offer the greatest potential for preventive health care solutions** to succeed in the long term, by:
  - Improving the **understanding of market opportunities and trends** in preventive health care in Belgium and abroad
  - Identifying and **analyzing successful business models** in the preventive health care sector in Belgium and abroad
- This will **provide Brussels-based companies with advice** on strategy and business models, considering the market conditions in Belgium and abroad



## Setting the scene

- While there is broad **consensus that preventive health care is the right way forward from a patient value and cost perspective**, benchmarks show that public expenditure on **preventive health care is limited**
- Even in **more established markets, public spending in preventive health care covers only a fraction of total spending**
- The challenge for governments is **to invest in preventive health care** (which is an investment in the future health of your population), while balancing the actual needs of curing people on a day-to-day basis
- Preventive health care requires **significant spending upfront before you reap some of its benefits** (mostly a healthier population) and the outcomes of preventive care always **come with a delay and are at times difficult to measure and prove**
- Governments and especially research institutions, but also private sector players can help to accelerate this trend thanks to targeted research
- Preventive health care is a **very broad domain with different types of prevention each impacting the patient differently, and showing high potential in many different therapeutic areas** (Oncology, Cardiology, Neurology, Rehabilitation,...)
- For governments to be impactful, **clearly defining the type of prevention and/or the therapeutic areas to focus on and raising awareness** can help to generate more impact in the short term



This study consists of **two sub-studies** (market benchmark and company analysis) which are **available online/on demand at lifetech.brussels**

# What is prevention

Preventive health care is a very broad domain with different types of prevention each impacting the patient differently

Healthy

Sick



## Primary Prevention

Intervening **before health effects occur**, through measures such as vaccinations, altering risky behaviors (poor eating habits, sedentary, substance use), and banning substances known to be associated with a disease or health condition



## Secondary Prevention

Screening to **identify diseases and disabilities in the earliest stages**, before the onset of signs and symptoms, through measures such as mammography, regular blood pressure testing



## Tertiary Prevention

Managing diseases and disabilities **post diagnosis to slow or stop contamination or disease/disability progression** through measures such as chemotherapy, rehabilitation, screening for complications, chronic disease management

# Value of prevention

Prevention will be key for countries to achieve long-term population health, as the focus shifts from reactive care to preventive care and wellbeing



## Patients

- › **Access to more innovative solutions** to enable earlier intervention and diagnosis
- › **Better patient outcomes** as prevention is a key step towards long-term sustainable population health
- › Digital health enables therapies and clinical trials that are more representative and tailored to the needs of the population and **more patient-centric**



## Government / payers

- › **Keep health care costs under control** through better access, evidence, guidelines and population health thanks to earlier intervention
- › **Ensure position of Belgium** as innovative health care and medical device hotspot when other EU countries are also investing in prevention and digital health



## Industry

- › Digital health solutions facilitate **access to patient and clinical data** to unlock unmet medical needs and innovative therapies
- › Increased and more accurate monitoring of patients will generate data to **improve and innovate therapies and preventive solutions**



## Hospitals & researchers

- › **Digital health solutions to access to patient and clinical data** to unlock new research topics and unmet medical needs
- › **Unburden hospitals** by **preventing hospitalizations** and monitoring & treating patients from home through innovative digital health solutions

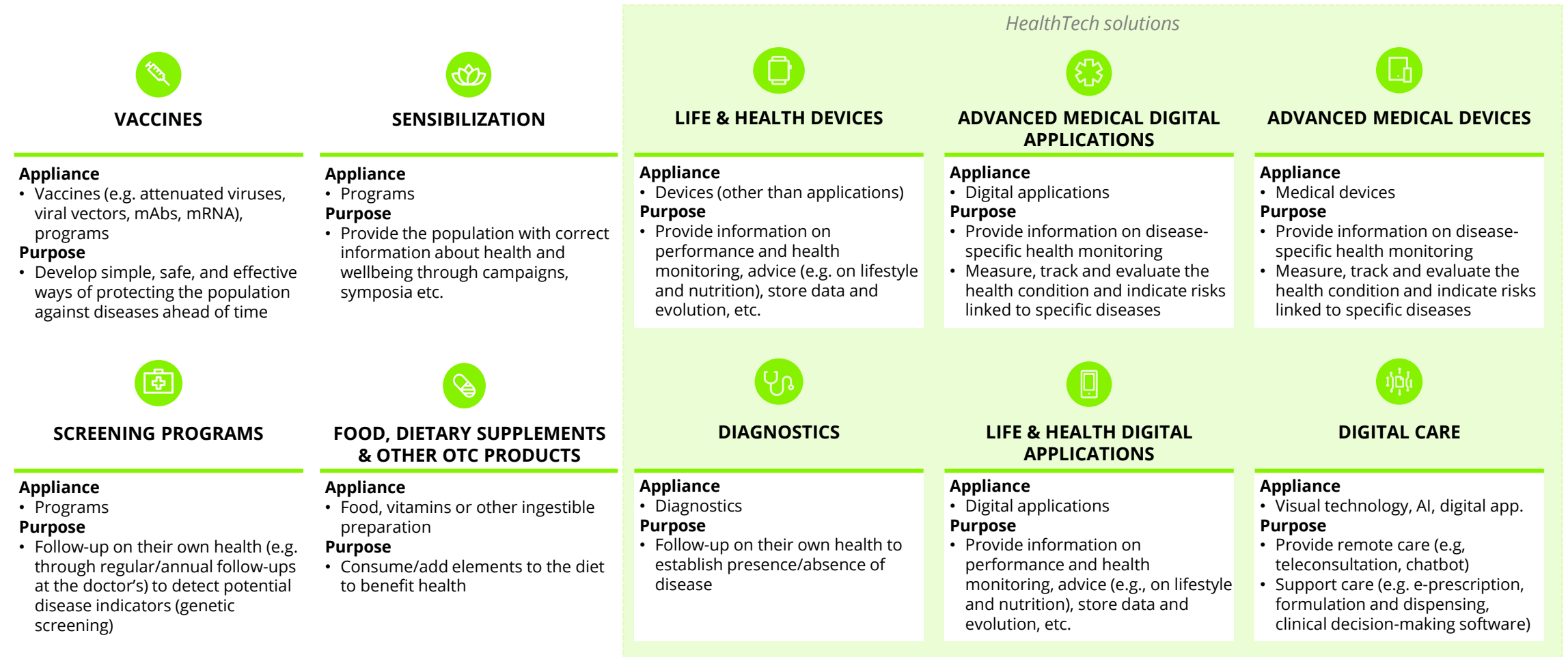


## Employers

- › Enable companies/ employers to offer (innovative) preventive solutions to **support and strengthen their employees' physical and mental health** (B2B2C market)

# Prevention Toolbox

There are numerous types of solutions in the preventive market which can be divided in 10 categories; this study focused on preventive HealthTech solutions as they pose the greatest opportunity for the Brussels region with the highest growth potential





# Prevention market

In general, health care systems remain conservative when it comes to spending on prevention, with Belgium slightly lagging, whilst consumers are showing great willingness to adopt digital health solutions

## 1 Health care systems are conservative, with underspending on prevention

- Across health care systems, **public health authorities** play an **imperative role in the funding of prevention**
- **Public expenditure on preventive health care is limited**, especially compared to the total public spending on health care

## 2 Prevention remains a trade-off with a long-term impact

- Challenge for governments to invest in preventive health care (which is an **investment in the future health of your population**), while balancing the actual needs of curing people on a day-to-day basis
- The **outcomes** of preventive care always **come with a delay** and are at times **difficult to measure and prove**

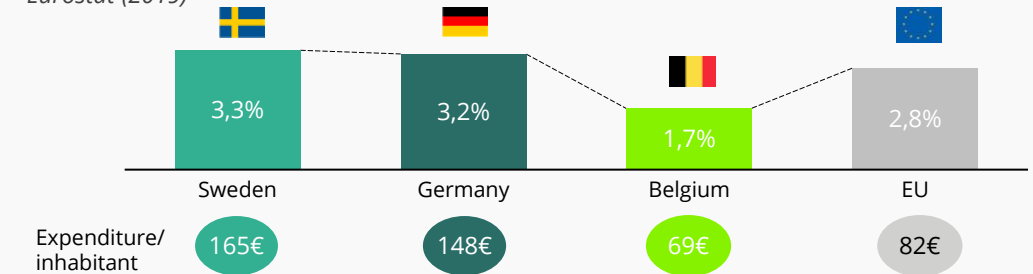
## 3 Digital health technologies are growing, with rising consumer spending

- **Digital health revenues have grown steadily** in recent years and are expected to continue to do so in the future, driven by the **consumers' growing empowerment** regarding health
- There is a **strong adoption** in digital health and mostly in **digital health devices**

## Market analysis

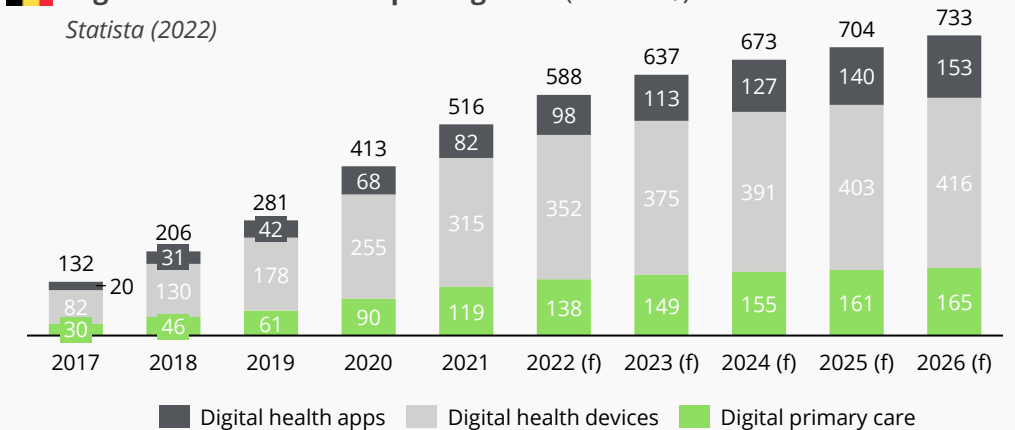
### Public spending on preventive health (% of total health spending)

Eurostat (2019)



### Digital health - Revenue per segment (in M US\$)

Statista (2022)



Compound annual growth rate (CAGR) 2017-2026










Belgium  
**21%**

Germany  
17%

Sweden  
17%

# Prevention market

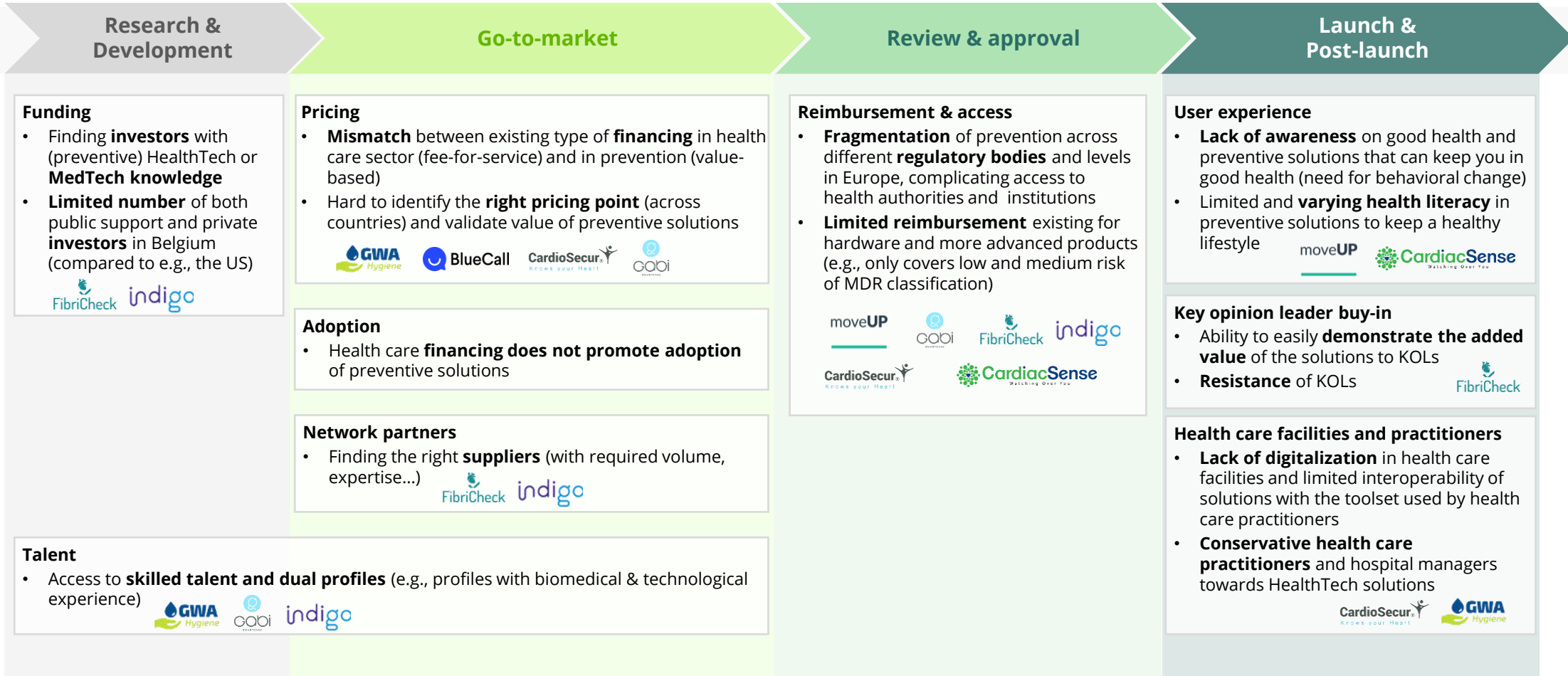
Sweden shows high maturity in terms of preventive care driven by a high level of digitalization and digital adoption in health care, while Belgium and Germany have room for improvement, especially on data usage and access to data

	 <b>GERMANY</b>	 <b>BELGIUM</b>	 <b>SWEDEN</b>
 <b>PREVENTION STRATEGY</b>	<ul style="list-style-type: none"> <li>Strengthening Health Promotion and Prevention Act at national level since 2015 to promote prevention</li> <li>Higher preventive care expenditure than EU average but remains limited (3,2% vs 2,8%)</li> </ul>	<ul style="list-style-type: none"> <li>Need for further strengthening of prevention policies and initiatives (today mainly vaccination and some cancer screening)</li> <li>Lower proportion of preventive care expenditure than EU average (1,7% vs 2,8%)</li> </ul>	<ul style="list-style-type: none"> <li>Greater focus on health and prevention as a priority in the national life sciences strategy, still being developed (e.g. limited sensibilization)</li> <li>Higher preventive care expenditure than EU average but remains limited (3,3% vs 2,8%)</li> </ul>
 <b>REGULATORY FRAMEWORK</b>	<ul style="list-style-type: none"> <li>Decentralized and self-governing conservative system, which makes it complex for new solutions to get reimbursed, e.g. digital health applications must comply with strict criteria</li> </ul>	<ul style="list-style-type: none"> <li>Conservative and complex health care system, with competences shared between federal state and federated entities</li> </ul>	<ul style="list-style-type: none"> <li>Decentralized system, making it complex to develop new product/service due to the approval required from 1) the national reimbursement scheme and 2) the different regional committees</li> </ul>
 <b>REIMBURSEMENT SCHEME</b>	<ul style="list-style-type: none"> <li>Standardized process for digital health apps reimbursement through the Digital Healthcare Act (DiGA)</li> <li>Service-based system</li> </ul>	<ul style="list-style-type: none"> <li>mHealth Validation Pyramid to assess the quality and effectiveness of digital health applications for reimbursement, but limited for other digital health solutions (e.g. teleconsultation)</li> <li>Service-based system</li> </ul>	<ul style="list-style-type: none"> <li>No standardized process existing for reimbursement of digital health apps but in development, and no other public incentives</li> <li>Value-based pricing &amp; reimbursement system</li> </ul>
 <b>DIGITAL ADOPTION &amp; INCLUSION</b>	<ul style="list-style-type: none"> <li>Less tech savvy population and slower in digital adoption compared to its EU peers</li> <li>Digital health revenue/capita (2026): \$52</li> </ul>	<ul style="list-style-type: none"> <li>Tech savvy population open to new technologies &amp; digital solutions</li> <li>Digital health revenue/capita (2026): \$63</li> </ul>	<ul style="list-style-type: none"> <li>Tech savvy population with early adopters of new technologies &amp; digital solutions</li> <li>Digital health revenue/capita (2026): \$53</li> </ul>
 <b>ACCESS TO DATA AND INTEROPERABILITY</b>	<ul style="list-style-type: none"> <li>No national database</li> <li>Electronic patient record initiative under development</li> <li>Reluctancy to share personal data as barrier to the development of digital health solutions</li> </ul>	<ul style="list-style-type: none"> <li>Fragmentation of data sources/ lack of national databases</li> <li>Access to electronic health records but still in a limited/non-exhaustive way</li> <li>Relative openness to share personal data</li> </ul>	<ul style="list-style-type: none"> <li>National Health Information Exchange (HIE) platform to enable interoperability between regional systems and centralized access to electronic health records</li> <li>Openness to share personal data, allowing personalization of services</li> </ul>
 <b>CONSUMER MARKET FOR PREVENTIVE HEALTH CARE</b>	<ul style="list-style-type: none"> <li>Strong growth potential in digital health with a CAGR of 17% expected over the period 2017-2026 (market of 3,3bn US\$ in 2022)</li> </ul>	<ul style="list-style-type: none"> <li>Strong growth potential in digital health with a CAGR of 21% expected over the period 2017-2026 (market of 588m US\$ in 2022)</li> </ul>	<ul style="list-style-type: none"> <li>Strong growth potential in digital health with a CAGR of 17% expected over the period 2017-2026 (market of 417m US\$ in 2022)</li> </ul>
	<b>LAGGER</b>	<b>EMERGING</b>	<b>MATURE</b>

7 Note: CAGR = Compound annual growth rate

# Challenges along the company journey

The most pressing challenges preventive HealthTech companies face are related to reimbursement, pricing and talent





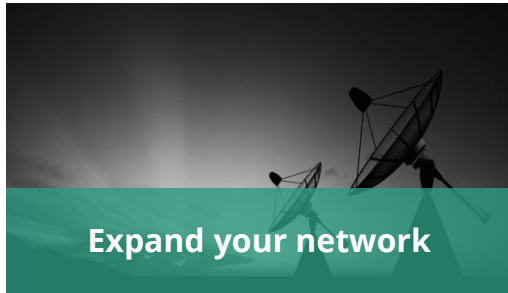
# Success factors along the company journey

Success is achieved when companies are part of a performant network with complementary skills and expertise, prioritizing the customer experience and value



# Recommendations for companies

HealthTech companies active in the preventive care market can respond to the growing market by leveraging the right partners and investors



## Expand your network

- **Connect to commercial partners** with a distributor network and strong expertise in the field to act as an accelerator for go-to-market
- Beyond providers and payers, partner with **private insurers and companies (B2B)** to gain access to a larger pool of users
- Look for **investors and partners** who know both **technology and health care**
- **Collaborate with health care practitioners** through 'champions' to demonstrate the impact and benefits of solutions



## Raise awareness

- **Raise awareness** on preventive solutions through:
  - **Local public partners** who promote prevention and its long-term benefits
  - **Transparency** about the company's use of (personal) **data** in your consent management
- Create **reward mechanisms** to foster adoption by motivating users with **short feedback, insights and gamification**



## Prioritize the user experience and value

- Develop an **agile solution** with a radical focus on **user-friendliness** to improve digital inclusion
- Focus on **interoperability** for your solution to work with or be integrated as-a-service into other HealthTech platforms and solutions
- **Avoid lowering your price-point to 'buy the market'** as it will reflect on consumer perception of quality and value
- **Value your solutions based on alternatives** it replaces, within an acceptable range



## Seek regulatory accelerators

- Find specific high-quality **accelerator programs** (e.g., with proven track record) and **dedicated to your field**
- Public or private partners can bring **complementary expertise** and guidance to successfully go through the regulatory process

# Recommendations for public authorities

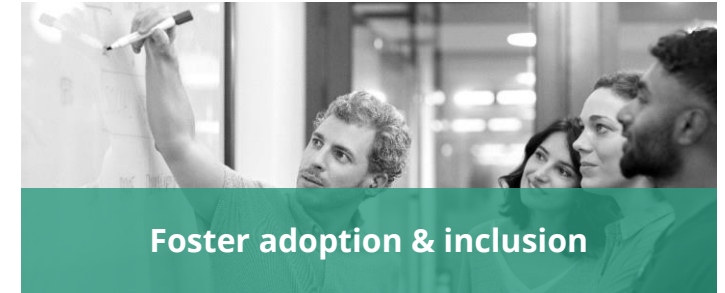
Public authorities, including lifetech.brussels, can play an important role in the development of the preventive care market and success of HealthTech companies



- Create a platform that **connects start-ups and ecosystem stakeholders** (health care industry, payers, authorities) to foster public-private collaboration (e.g., social impact bonds initiatives)
- Develop a (MedTech) network for **early-stage start-ups** and scale-ups for knowledge sharing
- Connect with **investors** that have (preventive) HealthTech **experience**
- Setup **incubation programs** that provide access to other international programs
- Access **corporate partners** for development projects or commercialization
- Develop **talent agency** connecting students and young professionals to start-ups



- Provide guidance in funding and **grant application processes** (including reporting, follow-up)
- Provide a **platform/initiative** to effectively and efficiently **run trials** in Brussels
- Provide guidance on specificities in entering **different European countries**
- Provide guidance on **reimbursement frameworks** for preventive HealthTech (also on access management)
- Provide guidance on **regulatory and legal** aspects (market analysis, market access, roadmap)
- Develop or give access to **centers of excellence** (e.g., MDR)



- Raise **awareness across the population** and encourage adoption of new preventive solutions amongst **health care practitioners**
- Improve **digital inclusion and health literacy** for health care (i.e., elderly)
- Leverage the **diversity** of Brussels (e.g., access to minority groups)

# Opportunities for Brussels

Preventive HealthTech solutions pose the greatest opportunity for the Brussels region with the highest growth potential

**Brussels** has the potential to become a **technology hub** and serve as a **sand box** for preventive **HealthTech solutions**

- Preventive solutions have been assessed on their **market accessibility** and **growth potential**
- There is a **complexity** to consider in terms of **implementation**, as Brussels does not have authority over federal and regional prevention matters (e.g., vaccination)
- Brussels and its **digital ecosystem** show great potential to grow **HealthTech solutions and revenues**
- Brussels can act as a sandbox for HealthTech innovation (i.e., as an environment to test solutions and make them grow in Brussels) if it **collaborates with private and public stakeholders**



# Methodology

Desk research, qualitative/quantitative analysis and interviews with companies and patients have been combined to build a clear understanding of the success factors and challenges in the market, across three main steps

1

## SUB-STUDY 1: INSPIRE

- › Give overview of **market trends and opportunities** of the preventive health care market in Belgium, Sweden & Germany
  - › **Sweden** is a similar market to Belgium and interesting to derive insights for policy makers
  - › **Germany**, thanks to its size and proximity, provides an interesting export opportunity for Belgian companies active in preventive health care
- › Identify **levers for a mature preventive care market**
- › Provide a **comparison between the selected countries** to assess the maturity of their preventive care market

*Note: desk research and interviews with Belgian, Swedish and German companies/ entrepreneurs, Belgian political stakeholders, Deloitte experts*

2

## SUB-STUDY 2: IMAGINE

- › Identify and detail **8 best-in-class companies** active in preventive health care of the respective chosen markets
  - › Companies were selected based on the **funding raised, estimated revenue and number of employees**
  - › Ensured a **geographic spread** across the selected countries from phase 1, as well as **different therapeutic areas**
- › Assess their **business model proposition**
- › Describe the **key success factors of their business models**
- › Identify the **funding architecture and investment role of public agencies**

*Note: desk research, interviews with selected companies - detailed company descriptions can be found in appendix*

3

## FINAL REPORT

- › Consolidate the insights into a **final report and executive presentation** including:
  - › **Market trends and opportunities** on the preventive care market – in general and in selected countries
  - › Overview of **prioritized actionable business models**
  - › Summary of **funding options**



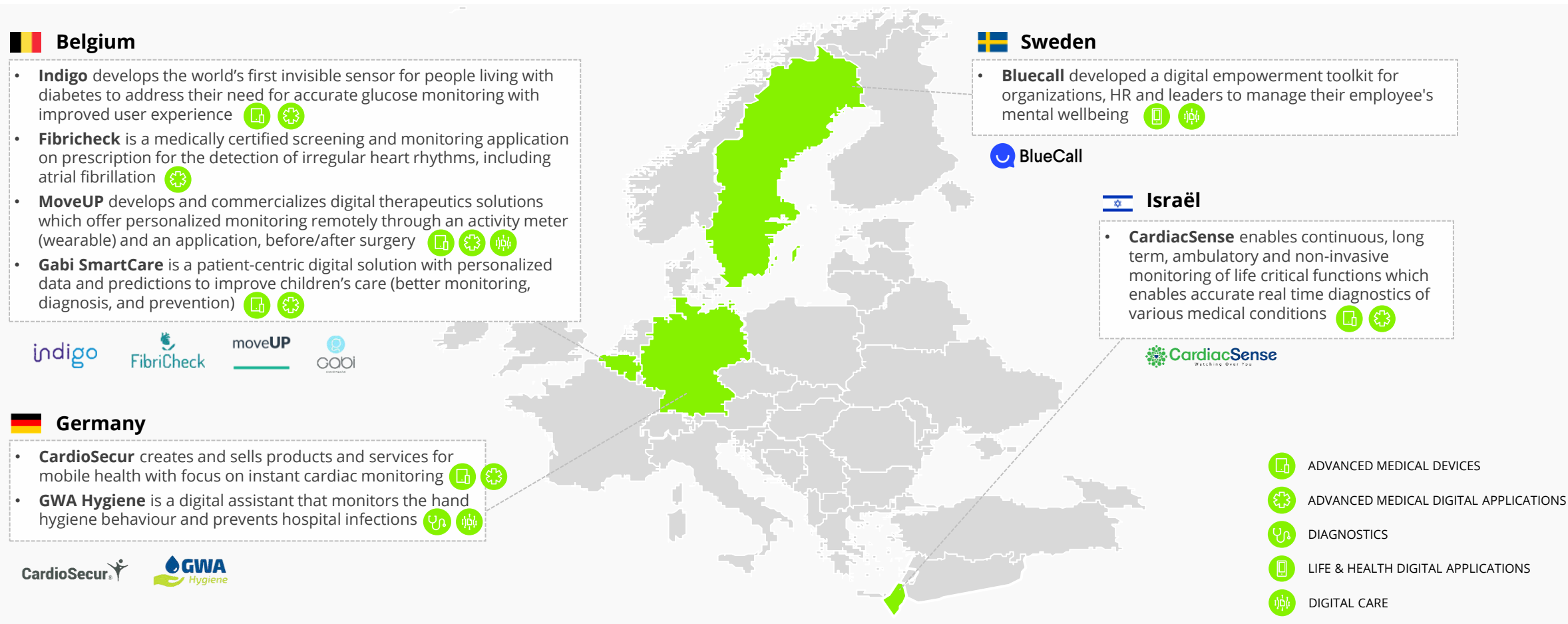






# Overview of companies investigated in the study

Different companies active in prevention have been studied across the selected markets





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