

#### Global Digital Health Innovation 2023 Executive Briefing

# Clinical Strength in Digital Health

Proof Points • Venture Analytics • Drivers of Change

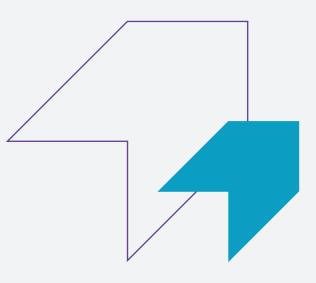
Ecosystem Insights • Partnerships • Global Investment Trends











#### Foreword by Evaluate

As part of Evaluate's partnership with Galen Growth, we are delighted to bring you this report on the importance of clinical evidence within the digital healthcare space.

While digital healthcare may be a younger part of the market compared to biopharma and more traditional forms of medtech, digital is quickly following a similar path. In recent years, biopharma has seen its share of bubbles across a range of mechanisms of action and therapy areas. While the next big thing might generate much excitement – and initial investment – there comes a time when reality bites, and investors start demanding hard proof of efficacy.

The team at Galen Growth has investigated this trend, one that is being accelerated by the changing regulatory landscape for digital health tools, and published this report with their findings. The bottom line is that investment requires clinical evidence. The funding boom is over, and those companies that try to scale based on a great idea, a vision and a charismatic pitch are going to get left behind.

Enough from us. Read on to learn what the team at Galen Growth has uncovered.

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## GALEN GROWTH

Galen Growth is pleased to share with you our latest insights on the **Clinical Strength** of Digital Health ventures. We define the boundaries of this important topic and connect the importance of proof points for funding, product development, and partnerships. Our analysis focuses on private ventures and includes **ecosystem growth**, **most active partners**, **regulatory approvals** and **venture funding**.

With unmatched, no-bias, no-hype and data driven coverage of the global Digital Health ecosystems, this report is powered by HealthTech Alpha, a Galen Growth proprietary solution, and the global leading Digital Health private market data, intel and insights platform.





## TL;DR

## **18%** Proven Clinical Strength

There is a shift in focus underway in Digital Health to proof points, with Clinical Strength being a priority data point. Across the globe, **18% of all** private Digital Health ventures have proven Clinical Strength through Clinical Trials, Regulatory Filings, or Peer-Reviewed Publications. Approx. half of those ventures with proven Clinical Strength achieved this milestone within the first 5 years after incorporation.

### 22% Europe

The regulatory landscape for Digital Health is becoming more favorable across the globe, with the FDA releasing the Digital Health Policy Navigator in January 2022 and the German DiGA program growing to over 50 successful applications. With 22% share of ventures boasting proven Clinical Strength, Europe takes the top **spot**, while the Middle East is the global region in second place for Clinical Strength at 20% share.

### **1.3x** Partnerships

Digital Health ventures can benefit from partnerships that provide them with access to patients, funding, and medical knowledge. In the top 5 Digital Health Clusters (by % of ventures with Clinical Strength), **ventures with proven Clinical Strength have at least a 1.3x higher share of partnerships** than ventures without proven Clinical Strength.

### **22%** Digital Health Apps

Navigating health-related apps, software and devices remains a challenge, with healthcare providers and payers requiring proof points of the product's benefit to the intended user. HealthTech Alpha has catalogued over 16,000 products (mobile apps, software, and devices) that have been developed by private ventures focused primarily on Digital Health. 22% of the Digital Health apps were developed by ventures that have proven **Clinical Strength.** 

# **81%** Funding Value

Investors are focusing their funds more on ventures that can provide evidence of their solution's effectiveness. Within the Remote Devices Cluster, 64% of Growth- and Late-Stage ventures have proven Clinical Strength. 81% of the cumulative funding value from 2022 - H1 2023 deployed to ventures in this cluster went to ventures with proven Clinical Strength.

HEALTHTECH

## Data & Methodology

#### Source of Data

Unless otherwise stated, all data are exclusively sourced from Galen Growth's proprietary database **HealthTech Alpha**<sup>™</sup> – the global leading Digital Health intelligence and analytics on-demand platform. Presently, HealthTech Alpha tracks more than 680M datapoints and has a coverage exceeding 14,000 Digital Health ventures across the globe. For more information visit <u>https://www.healthtechalpha.com/</u>

#### Data Scope

The 2023 Clinical Strength in Digital Health analysis within this report considers ventures and Digital Health products (e.g. apps) across the globe, with selected analysis focusing on six key regions for Digital Health: North America, Asia Pacific, the Middle East, Europe, South America (key markets), and Africa.

- The following scope of analysis criteria must be met in order to be included in this report:
  - The venture was incorporated after 2002
  - The venture has been qualified as being Digital Health i.a.w. Galen Growth's rigorous taxonomy see slide 32
  - The venture's geographic location is determined by its initial country of incorporation
  - Venture funding includes all stages up to but excluding the exit event
  - Subsidiaries of large corporations (e.g. Microsoft) are excluded
  - The product is developed by a Digital Health venture and is a Digital Health product. Other non-digital products or devices are excluded.

#### Methodology

Analytics presented in this report are Galen Growth's proprietary algorithms and are explained on slide 33



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# ABOUT GALEN GROWTH

## Unleash Digital Health Innovation

Our unique combination of data, analytics, specialist team and Digital Health network, enables our clients to outperform their competition





## Talk to us



#### **Global Digital Health Ecosystem Coverage**

Our unmatched coverage of the world's most innovative Digital Health ventures means more innovation choice and better decisions.

### Specialist Team with Decades of Experience

With decades of experience, our team of analysts, decision makers & industry experts extend your team with specialist insights and know how.

Our US, Asia and Europe offices serve our clients worldwide.

### **Tailored Innovation Solutions**

Whatever stage you are at in your innovation journey, we have a world class solution to enable you to succeed. Every solution leverages our unrivalled Digital Health data.





### **Create an account**

# HealthTech Alpha

# The world's most trusted Digital Health private market data, intelligence and insights platform

The foundation of our work is our unmatched Digital Health dataset and search, powered by HealthTech Alpha. HealthTech Alpha monitors, aggregates and audits hundreds of millions of data points to efficiently give you the most profound understanding of Digital Health.

Whether you are determining a market entry strategy, fine-tuning Digital Health product development, looking to benchmark and differentiate against your competition or researching future Digital Health innovation, HealthTech Alpha has you covered. Get started with HealthTech Alpha and make better data-driven innovation decisions.

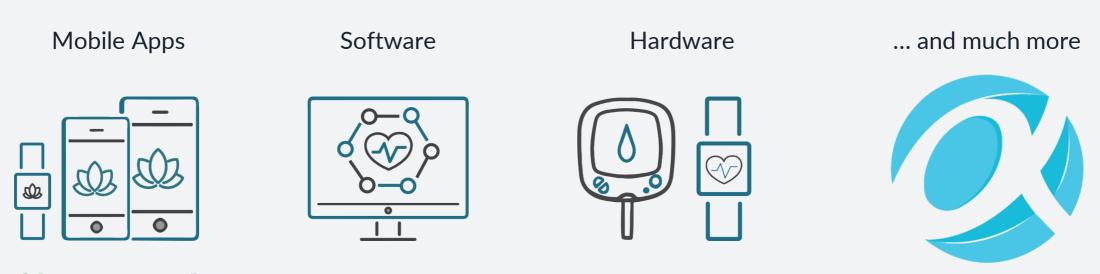
#### Learn more:



Evaluate

## HealthTech Alpha Introduces the Digital Health Product Hub –more than just apps

Consolidated and structured to lead you to the right product - without needing to be a Digital Health industry expert. Why spend days evaluating dozens of ventures, when you can find the solution directly from the HealthTech Alpha Product Hub? The only global, curated hub for Digital Health products.



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# The industry go-to-reference for Digital Health research

We leverage our unmatched data and analyst team to research and publish unique go-to-reference thematic reports on the Digital Health ecosystem.

#### Digital Health in U.S. Health Systems

**Digital Health Innovation Ecosystem for Cardiovascular** 

Global Digital Health Innovation Ecosystem Report on H1 2023 Key Trends

**Digital Health Innovation Ecosystem for Oncology** 

Pharmaceutical Digital Health Innovation Index

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# INTRODUCTION



### Prove your solution or get left behind

While a great idea and good business acumen have scaled strong Digital Health companies over the past decade, there is finally a shift in focus towards proof points, with Clinical Strength being a priority data point.

There are many reasons for this shift. First, the regulatory landscape for Digital Health is becoming more favorable, with the FDA releasing the Digital Health Policy Navigator in January 2022 and the German DiGA program growing to over 50 successful applications. Second, there is a growing body of evidence that shows that Digital Health interventions can be effective in improving health outcomes. Third, there is a growing demand from healthcare providers and payers for evidence-based Digital Health solutions. Fourth, investors are favoring ventures with evidence.

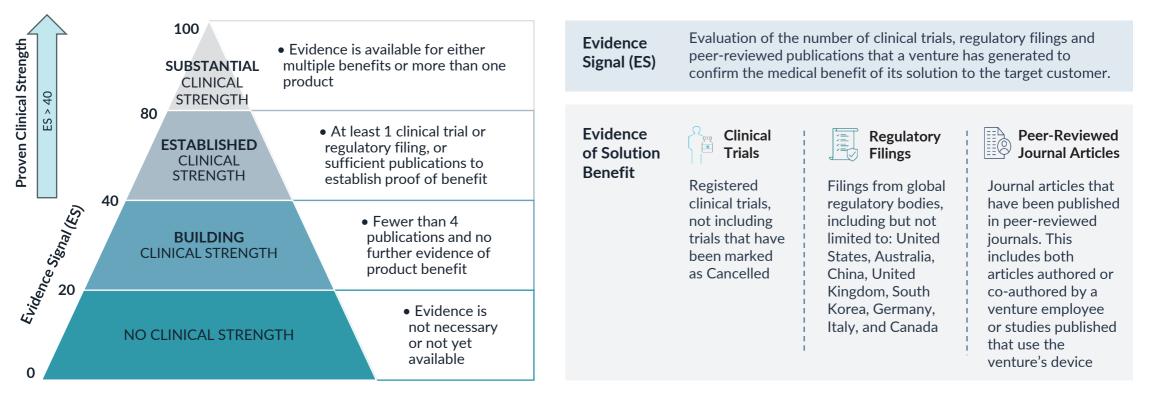
Galen Growth first published its industry-leading research report in 2022 looking at the Clinical Strength of a Digital Health venture by evaluating a venture's clinical trials, regulatory filings, and peer-reviewed publications.

This year's report dives deep into the Global Digital Health ecosystem to continue to demonstrate the importance of proof points for ventures to scale, types of products that have proven Clinical Strength, as well as the growth of proof points and its impact on venture success. Swissme Внан HealthCanada



## **Scope of Clinical Strength for Digital Health Ventures**

Galen Growth's **Evidence Signal** in HealthTech Alpha enables the evaluation of a venture's Clinical Strength, or its ability to prove that its products are safe and effective. In particular, the Evidence Signal (ES) considers the number of clinical trials, regulatory filings and peer-reviewed publications that a venture has for its Digital Health products. A high Evidence Signal correlates with high Clinical Strength.



NOTE: Not all ventures require clinical evidence, and therefore it is not expected for all ventures to reach an Evidence Signal > 40. See slide 33 for top clusters by Evidence Signal.

## **Digital Health Ventures Are Generating Evidence**

It is important for Digital Health companies to invest in clinical research and to publish their results in peerreviewed journals. This will help to ensure that Digital Health products are safe and effective, and that they are used to improve the quality of care for patients.

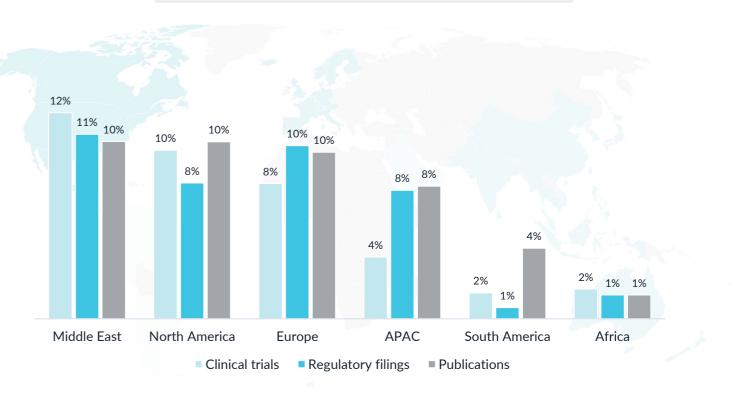
The Middle East leads the global regions for the largest share of ventures with Clinical Trials and Regulatory Filings, while North America and Europe follow closely behind. Europe boasts the overall highest share of ventures with proven Clinical Strength (see full report).

In South America and Africa, there is a notable lack of Clinical Evidence, which can be directly related to the lack of funding that makes it difficult for Digital Health ventures in the regions to conduct Clinical Trials, as well as the lack of regulatory support and framework for approvals and structured clinical trial procedures.

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Share of Digital Health Ventures with Evidence of Clinical Strength, by Region and Type



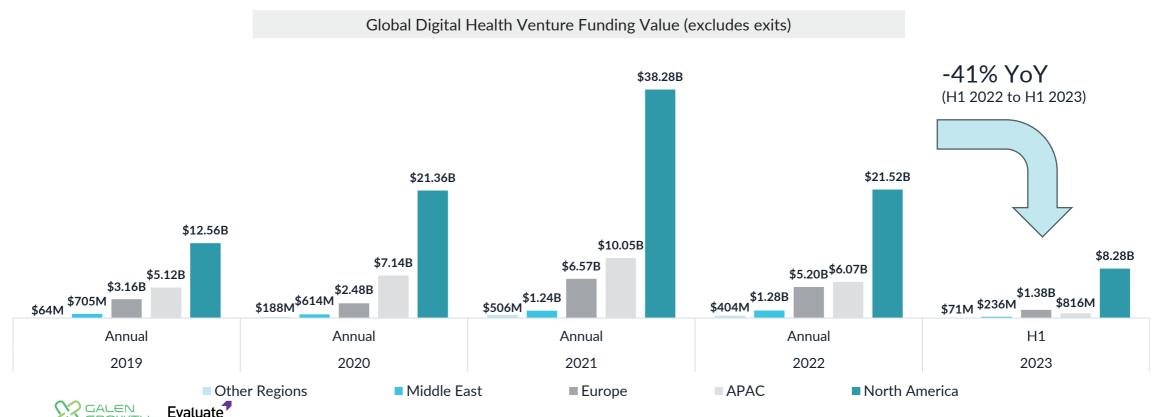
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INTRODUCTION: CLINICAL STRENGTH

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## The Digital Health Venture Funding Boom Has Ended

With the return to normal for venture funding in 2022, Digital Health investors are anchoring back to reality. Funding remains strong for new ventures, while investment in Growth- and Late-Stage funding deals has become more focused and is demanding more verification that ventures are offering solutions that will bring value to the Digital Health ecosystem. To meet these demands, ventures should be prepared to show Clinical Evidence to support the effectiveness of their solutions.



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## Clinical Evidence Increases Ticket Size

In the current funding drought in Digital Health, investors are focusing their funds more on ventures that can provide evidence of their solution's effectiveness. Galen Growth considers peer-reviewed publications, clinical trials, and regulatory approvals in the **Evidence Signal (ES).** Considering funding deployed in 2022 and H1 2023, the top 5 clusters with the highest share of Growth- and Late-Stage ventures with ES > 40 capture a significantly higher share of funding value compared to their corresponding deal share.

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Clinical

Trials

#### Share of global Share of funding Share of Ventures with growth- & late-stage **Digital Health Cluster** Funding value recent funding deals ventures with ES>40 (2022 - H1 2023) (2022 - H1 2023) and ES > 40 by Primary Cluster points **BIOS** Remote 65% Devices 63% 81% SENSYDIA with proof 7. Medical 47% 63% Diagnostics larger for ventures 78% braintale Candesant Patient 45% 50% 59% Solutions Nia <u>.</u> size 22% SCORP10N Ticket Research 33% 26% Solutions Engine

21%

53%

#### Growth- & Late-Stage Ventures with Evidence Signal > 40

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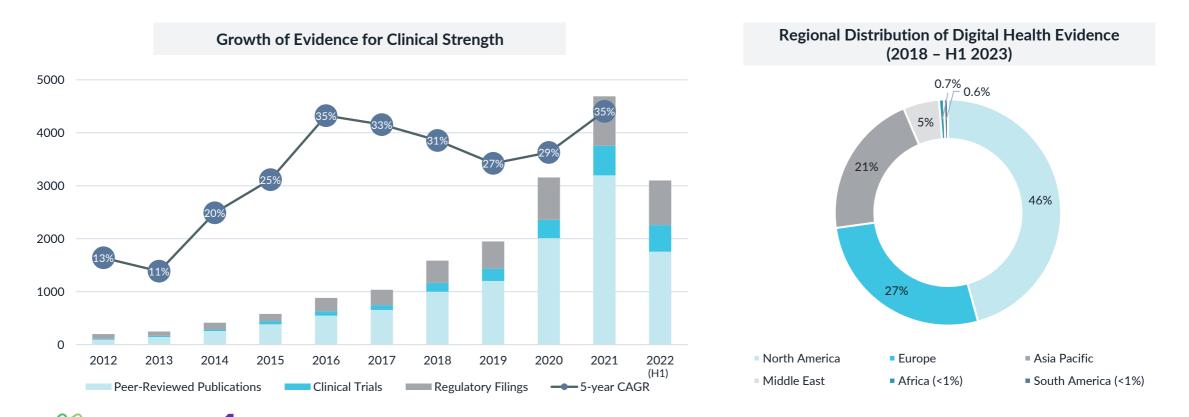
20%

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### The Pandemic Delayed Clinical Trials and Research; Publications in 2022 Suffered

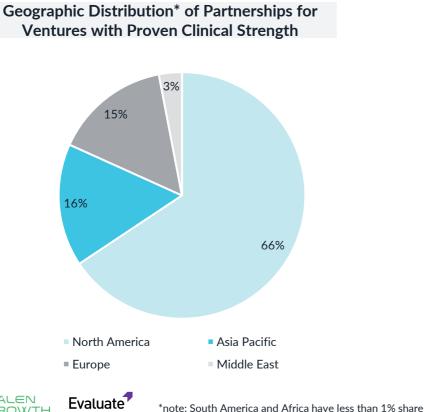
The growth of evidence for Digital Health ventures was growing at 5-year CAGR of 35%, until it dropped sharply in 2022. This drop in peer-reviewed publications is likely due to a number of factors, including the COVID-19 pandemic, which disrupted clinical trials and thus the publishing of results, as well as the economic downturn, which is making it more difficult for Digital Health startups to secure funding.

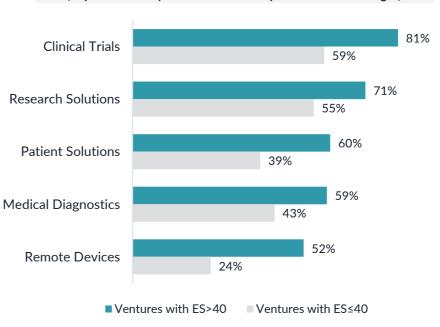


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### **Partnerships Can Accelerate Generation of Proof Points**

Digital Health ventures can benefit from partnerships that provide them with access to patients, funding, and medical knowledge. In the top 5 Digital Health Clusters (by % of ventures with ES>40), ventures with proven Clinical Strength have at least a 1.3x higher share of partnerships. Clinical Trials tops the list, with 81% of ventures having proven Clinical Strength active in partnering. Ventures founded in N. America are most active in partnering, capturing 66% of global partnerships for ventures with proven Clinical Strength.



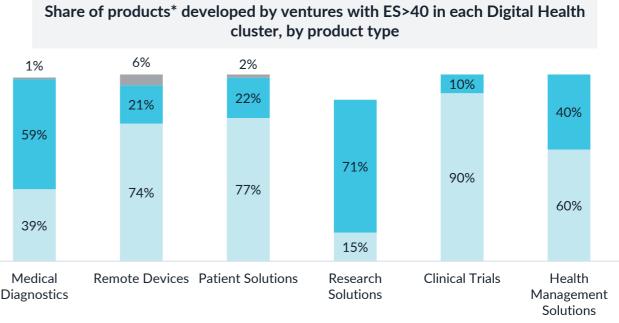


Share of Ventures Active in Partnering, by Cluster (Top 5 Clusters by % of ventures with proven Clinical Strength)

### Patients, Providers and Payors Rely on Products with Proof Points

Navigating the numerous "health-related" apps, software and devices remains a challenge, and in addition, stakeholders such as healthcare providers and payers are requiring proof points of the product's benefit to the intended user. HealthTech Alpha has catalogued over 16,000 products (mobile apps, software, devices, and more) that have been developed by private ventures focused primarily on Digital Health. 25% of these products were developed by ventures that have proven Clinical Strength.





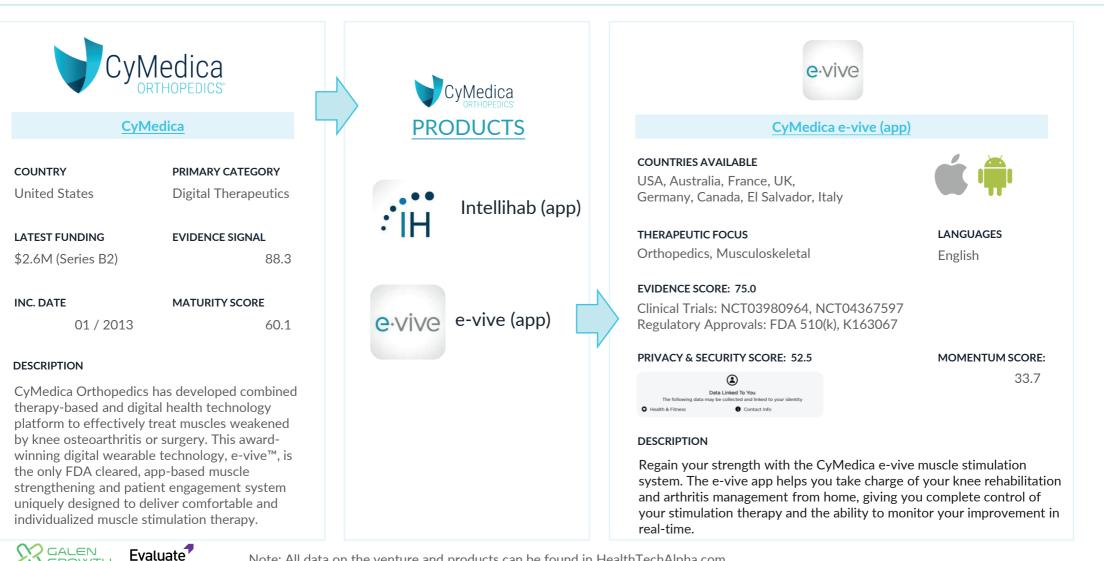
■ App ■ Software ■ Hardware

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\* Only the 3 most frequent product types for Digital Health are shown here. Other types are available on HealthTech Alpha

INTRODUCTION: CLINICAL STRENGTH

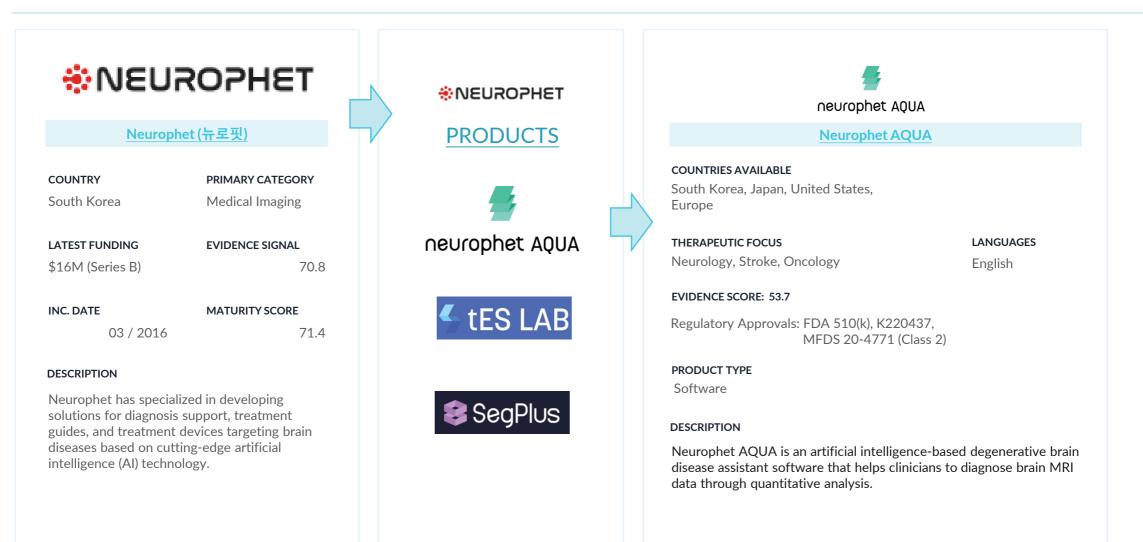
## **Products with recent regulatory filings**

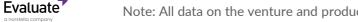


INTRODUCTION: CLINICAL STRENGTH

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## **Products with recent regulatory filings**





## **Caution: Not All Proof Points Are Created Equal**

While the evidence base for Digital Health solutions is expanding, several notable Digital Health companies that appeared to have adequate proof points have collapsed in 2023. When assessing a venture's Clinical Strength, the following cautionary words should be remembered:

- Leveraging non-peer reviewed publications may be unsuitable. These publications are not subject to the same level of scrutiny as peer-reviewed publications, so they may contain errors or omissions.
- Peer reviewed by association is a strategy that some companies use to boost their credibility. This involves hiring a scientific advisory board or other experts who have published peer-reviewed research. The idea is that by association, the company's own research will be seen as more credible.
- Patients are increasingly using newer technology in their everyday lives. If a clinical study uses outdated technology, it may not be relevant to the experiences of many patients.
- The standards for conducting clinical trials in Digital Health are becoming increasingly rigorous and new regulatory are being developed to address the unique challenges of Digital Health research. Using outdated protocols and data may make it difficult to meet these standards.

Relevant publications: "Rigorous and rapid evidence assessment in digital health with the evidence DEFINED framework", npj Digital Medicine (2023) 6:101 ; https://doi.org/10.1038/s41746-023-00836-5 "Confidence in Research: researchers in the sportlight", Economist Impact (2023); https://impact.economist.com/projects/confidence-in-research/



#### **Pear Therapeutics**

Founded in 2013 Went public in Nov 2021 via \$1.6B SPAC deal Filed for bankruptcy in April 2023 Was sold into 4 main parts at auction in May 2023



#### **Babylon Health**

Founded in 2013 Went pub<lic in October 2021 via \$3.5B SPAC deal Acquired Higi in Jan 2022, Sold Higi in May 2023 Plans to be merged with MindMaze collapsed in H2 2023



#### Mindstrong Health

Founded in 2016 Hired all-star executive team in 2019 Ended patient care in Jan 2023 Acquired by SonderMind in Mar 2023





Access all the data behind this report and conduct your own analysis

**Get started** 

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		medable 🕅 Medable	Decentralised Clinical Trials	United States	(1,1,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2		Series D	\$ 304.00 M	•
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## **Clinical Strength**

# ECOSYSTEM INSIGHTS



# CLUSTER FOCUS



# THERAPEUTIC FOCUS



# INVESTMENT INSIGHTS





# **DEEP DIVES**



### Get in contact for the full report

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# NOTEWORTHY



# KEY INFORMATION

### **Key Information**

#### **SCOPE OF REPORT**

This report covers Digital Health ventures with incorporation date after 2002. The data is valid as of 01 July 2023.

Digital Health is defined as the intersection between healthcare and technology, and is also referred to as HealthTech. Digital Health does not include Biotech (protein research or pharmaceuticals), MedDev (devices that are mechanical and electronic in nature), neuro-stimulates, opioids and minimal-invasive instruments. We recommend reviewing our taxonomy on the next page for further details.

#### DATA SOURCING AND TRACKING

Galen Growth tracks a comprehensive inventory of key data points ranging from company demographics, funding and valuation to in-market capabilities on a continuously growing and curated list of HealthTech ventures drawn from global markets. Data is collated from primary research, public domain sources (press releases, news, public fillings), proprietary analytics and from its unique network.

The information is:

- Disclosed and undisclosed by nature
- Continuously updated with the latest data
- · Curated from both direct and indirect verified sources
- Augmented with our proprietary algorithms

Each HealthTech Alpha Index and Score is calculated using proprietary algorithms and data points drawn from our carefully curated HealthTech Alpha database. We recommend reviewing the Data & Methodology section for further insights.

#### **KEY TERMS AND DEFINITIONS**

BASE CURRENCY	USD
EARLY STAGE	All deals up to Series A stage
GROWTH STAGE	All deals at Series B & C stage
LATE STAGE	All deals at Series D & Beyond stage
EXIT	IPO, SPAC and M&A deals
HTA	HealthTech Alpha

#### **IMPORTANT INFORMATION**

This report is provided solely for informational purposes and was prepared in good faith on the basis of public information available at the time of publication without independent verification. Numbers will be updated from to time to reflect information identified after the event.

Galen Growth does not guarantee or warrant the reliability or completeness of the data nor its usefulness in achieving any particular purposes.

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#### **RESEARCH INQUIRIES**

For more information about data, research and Galen Growth's proprietary algorithm contact: <u>research@galengrowth.com</u> for more information.





#### al Im th Fo Trial Matchij ed Clinical Trials Omics Related Research Drug Discovery HCP Job Board Bioinformatic Remote Monitoring Devices Healthcare Marketing Remote Diagnostic Devices The Galen Growth Social Enterprise Assistive Care Software Provider **Digital Health** Integrated Solutions EHR / PHR Taxonomy™ Home Healthcare Hospital Corporate Health Pharmac Care Coordination Physician / Clinic Prescriptive Analytics Medication Manage Health | Svn Cal Fourism ealth Claim and Lab Tests Health Insurance Physician Networks idical payment ketbla Medical Imagin Omics Related Diat Patient Health Forums Other HCP Networks agnosis Tools Consumer Educ ormation Platform HCP Educatior alth I \_EN Evaluate

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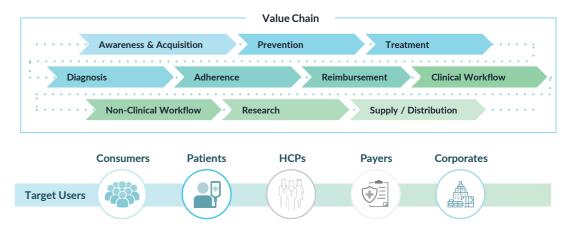
#### **Digital Health Clusters and Categories**

With 68 Digital Health categories across 18 clusters, Galen Growth's comprehensive taxonomy streamlines venture discovery and analysis.

Health Management Solutions	Health Services Search	Health InsurTech
Medical Diagnostics	Medical Education	Online Health Communities
Online Marketplace	Patient Solutions	Population Health Management
Remote Devices	Research Solutions	Clinical Trials
Remote Devices Telemedicine	Research Solutions Veterinarian	Clinical Trials Wellness

#### Mapping across the value chain

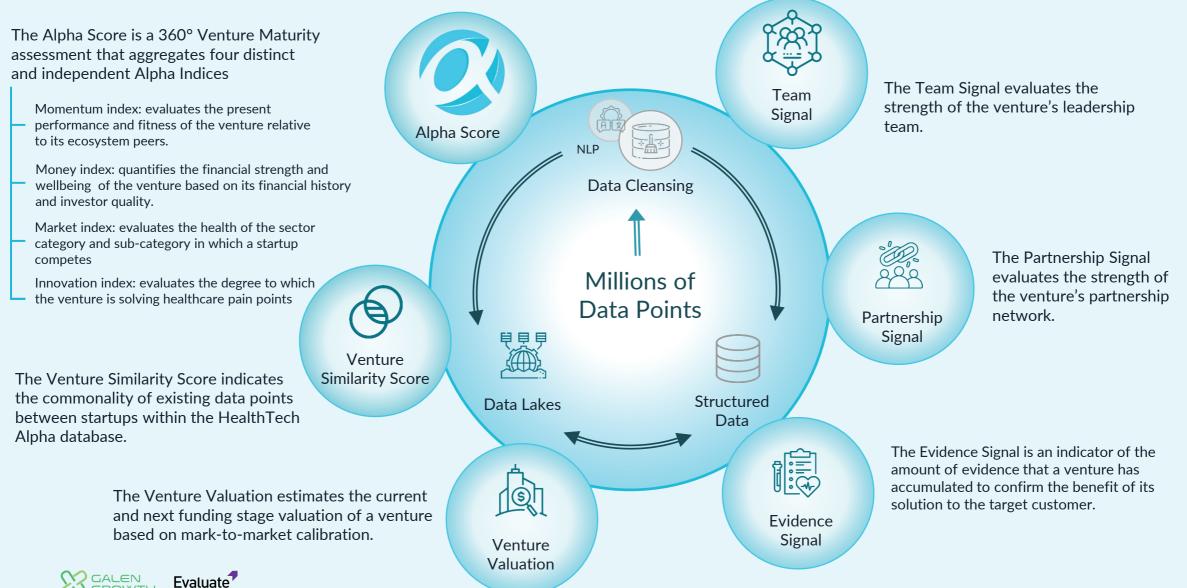
Further classification of target users and value propositions



## Data & Methodology

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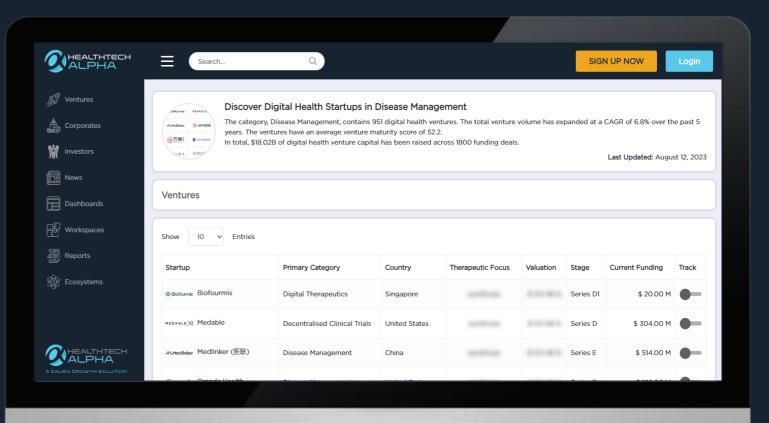


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## Explore the key themes driving the Digital Health ecosystem

Research
Telemedicine
Oncology
Neurology





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Better informed Digital Health innovation choices are just a click away with our best-in-class, private market data, intel and insights platform. Our comprehensive specialist data gives you all the information you need to make winning decisions.

Get started



Let's Discuss How We Can Deliver Your Strategic Healthcare Goals

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Singapore

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Julien is the CEO and leads Galen Growth's in Europe, leveraging over 30 years of experience in healthcare.

#### Ana Kollcaku

Ana leads our relationships with our Asia located clients and brings a wealth of management consulting experience in healthcare.