

HealthTech REPORT | VENTURE TRENDS

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HealthTech Venture Report



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INDUSTRY OVERVIEW

Market Size & CAGR Status Quo of HealthTech HealthTech Clusters Key Trends & Drivers Corporate Leaders

INDUSTRY OVERVIEW

The global digital health market is experiencing a significant growth of 18% between 2017 - 2027

Digital Health generated \$110.70B in 2022 worldwide The global Digital Health market is expected to grow at a CAGR of 18% (2022-2027).

Global Digital Health Revenue in \$ billion



The global digital health market is experiencing a significant growth due to the growing demand for innovative health solutions.

The global digital health market consists of three main segments; digital treatment and care, online doctor consultation and digital fitness and well-being

Health expenditure as a percentage of gross domestic product (GDP) in selected countries in 2022

7 3



High health expenditure as a percentage of GDP, as in the USA, Germany, and France can mainly be explained due to well-established healthcare systems, higher living standards, expensive pharmaceuticals, an aging population, and a cultural emphasis on healthcare, while Turkey, Mexico and India have lower health expenditure as a percentage of GDP due to differences in healthcare infrastructure, economic development and healthcare system efficiency.



- The global healthcare technology market is on an upward trajectory, with projected growth from \$371.4 billion in 2022 to \$439.5 billion in 2023, reflecting a remarkable compound annual growth rate (CAGR) of over 18%.
- Despite economic disruptions related to the Russia-Ukraine conflict and the lingering impact of the COVID-19 pandemic, the health tech market is **expected to reach \$852.2 billion by 2027, maintaining an** 18% CAGR.
- In 2022, North America established itself as the dominant region in the healthcare technology market, closely followed by the Asia-Pacific region, which is set to experience significant growth.

Distribution of projected healthcare EBITDA*

Diagnostic \$10B to \$20B



*as in the USA 2025, source: McKinsey

Eight Cluster define the HealthTech innovation landscape

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<u>ý</u> ľ	1	 Apps & Services Fitness & Well-Being Apps Patient Education Platforms Practice Management Software Medical Software Platforms Clinical Data Analysis 	Diagnostics and Screening • Laboratory Diagnostics • Imaging Diagnostics • Point-of-Care Testing • Molecular Diagnostics	5	Ŷ
	2	 Al in Healthcare Al-enabled Medical Devices Medical Software Platforms Clinical Data Analysis Al Technology Application 	 Robotics and Automation Surgical Robots Rehabilitation Robots Assistive Robots for the Elderly & Disabled Prosthetics & Orthotics Robots 	6	
	3	 VR & AR in Healthcare VR-based Therapy Augmented Reality Staff Training VR-based Kinesiology Surgical Procedures 	 Internet of Medical Things Medical-Grade Wearables Remote Patient Monitoring Personal Emergency Response Systems (PERS) Data Management Platforms 	7	$\bigotimes_{\mathscr{Y}}$
	4	 Telemedicine & Remote Patient Monitoring Video Consultations & Connected Apps Teletherapy and -rehabilitation Wearable Devices & Home Monitoring Kits Telepharmacy 	 Organ Care Tech & Bioprinting Stem Cell Bioprinting Scaffolding-Based Bioprinting Organ-on-a-Chip Precision & Personalization 	8	

INTRO The current State of Innovation: HealthTech in the Gartner Hype Cycle 2023 **Reaching the Plateau:**

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Time

xpectations

Five Key Trends driving the HealthTech Industry in 2023

Remote Patient Monitoring

Remote Patient Monitoring has emerged as a **rapidly growing trend** in healthcare. These systems facilitate the **collection** and **analysis of patient data without** the need for **physical hospital visits.**





Key Trends

Virtual & Augmented Reality

VR in healthcare is growing, serving four main purposes. It's used for **staff training, aiding surgeons** in simulations to reduce surgery risks, helping individuals with **developmental disorders** and **phobias adapt to reality**, and **enhancing therapy**, with programs like Psious assisting individuals in conquering fears.





Telemedicine

Telemedicine is on the rise, with applications in **acute care** and **chronic disease management**. It offers cost-effective diagnosis and treatment, particularly in areas like cardiology.

12 💧



FinTech Integration

Integrating FinTech in healthcare streamlines services, reduces costs, and improves data sharing, benefiting healthcare teams and patients.

Artificial Intelligence

The field of Artificial Intelligence (AI) in healthcare entails the utilization of machines to mimic human cognition, with the primary objective of **analyzing medical data** to **predict** specific **outcomes**.

INDUSTRY OVERVIEW

Leading companies in the health industry are significantly increasing their investments in health innovations

U NOVARTIS

 Novartis is a multinational pharmaceutical and life sciences company, has pursued a growth strategy through a series of acquisitions across various sectors. These acquisitions have been part of the company's broader strategy to expand its presence in multiple areas of the healthcare and technology industries.

Startup Acquisition: DtX Pharma (2023), Chinook Therapeutics (2023)

stryker

 Stryker is a Fortune 500 company that focuses on providing innovative medical technologies to improve and enhance healthcare outcomes for patients and medical professionals. The company operates in several key segments, including Orthopaedics and MedSurg.
 Startup Acquisitions: HyperBranch MedTech (2018), Cerus Endovascular

(2023)

Johnson & Johnson

Johnson & Johnson conducts pharmaceutical research and development. manufactures medical devices, produces consumer healthcare products, and prioritizes sustainability and social responsibility. **Startup Acquisition:** Abiomed (2022), Momenta (2020), Taris Biomedical (2019)

VENTURE ANALYSIS

Venture Activity Funding Distribution M&A Deals Unicorn Landscape

Despite the sharp drop in H2/22, HealthTech has attracted significant investments outpacing most other sectors

Quarterly funding in HealthTech

Total funding and number of rounds, Q1/19 - Q4/23



Key take-aways

• The HealthTech sector experienced a substantial rise in funding throughout the pandemic

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- Quarterly funding volume peaked in Q2/21 at \$16.43B invested, over 1.700 rounds
- Volume dropped by almost 50% in Q3/22 staying around \$7.5B in quarterly funding
- In 2023 the funding volume reached a total of \$27.69B over 3.750 rounds
- Over the **last 5 years \$188.87B** were invested into the sector

Notable Startups & Investors

- Notable Startups: CMR Surgical, Carbon Health, Ro, Neuralink, Everly Health, Kry
- Notable Corporate VCs: GV, Merck, Novartis, Samsung, Blue Venture Fund, Optum Ventures, Tencent, Intel Capital, General Electric, Leaps by Bayer, Bristol-Myers Squibb, Johnson & Johnson

A return to healthy valuations in funding is in sight for HealthTech startups

Annual funding in HealthTech

Total funding and number of rounds, 2014 - 2023



Key take-aways

• **\$2.35B** were invested in the **last 10 years** in HealthTech startups

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- Investment Volume peaked in 2021 at \$61.73B invested over 6.904 rounds
- There are **17.900 VC-backed startups in the sector**, of which over 20% have raised Later Stage VC funding
- 60% of investments took place in Later
 Stage Rounds with investments, totaling
 \$143.55 billion throughout the years.

Investors

- **Corporates**: Google, Merck, Johnson & Johnson, Amazon, Novartis, Optum
- Venture Capitalists: HTGF, Alumni Ventures, Khosla Ventures, Founders Fund, Andreessen Horowitz, Entrepreneur First
- **Government**: Innovate UK, National Science Foundation, EIT Health, National Institutes of Health

Funding in the HealthTech segment is evenly distributed with no significant increases in funding over the years

Cumulative funding

Percentage of total funding

Venture funding growth in HealthTech

17 🚺

Indexed growth, funding in 2017 indexed to 1x



Take-away

Funding among HealthTech startups is extremely evenly distributed compared to many other sectors.

Take-away

Funding growth for HealthTech startups is has outpaced the overall VC market in 2019, 2020 and 2023 so far.

The US Leads the Way in Health Tech Advancements



Deal Count by Global Region

by region in %



Take-away

- The United States is in the forefront with investments of \$111.9B, demonstrating its prominent position in the health tech industry.
- Europe (\$25.3B) and Asia (\$20.6B) follow in health tech investments which might be due to their large and growing healthcare markets and increasing demand for innovative solutions.

Take-away

- The **United States has the highest deal count (11.057)** this might be due to its well-established health tech ecosystem.
- Europe and Asia closely follow with 5.821 and 3.206 deals, respectively, indicating significant activity and growth in the health tech sector in these regions as well.

Largest VC-backed Acquisitions in the last three years

19 🔥

Company	Acquisition Value	Date	Acquirer	Segment
E Cerner	\$28.23B	June, 2022	ORACLE	Healthcare System Software
Livongo	\$13.94B	October, 2020	Teladoc. HEALTH	Diabetes Management App
••• one medical	\$3.50B	February, 2023	amazon	Primary Care Platform
ginger	\$3.00B	October, 2021	headspace	Telemental health counseling
naviHealth 🔨	\$2.95B	May, 2020	Optum	Healthcare Platform
🕂 fitbit	\$2.10B	January, 2021	Alphabet	Fitness Tracking
MDLIVE	\$2.03B	April, 2021	Cigna	Telehealth Care
IMMUCOR	\$2.00B	March, 2023	werfen	Transplantation Technology
MYR MYR Pharmaceuticals	\$1.93B	March, 2021	GILEAD	Innovative Hepatitis B and D Therapeutics
Versanis	\$1.93B	July, 2023	Lilly	Healthcare Prevention

Top Corporate VC investments in HealthTech



HealthTech Unicorns in the last 5 years (Page 1)

AI in Healthcare and Well-being Apps were prominent trends



HealthTech Unicorns in the last 5 years (Page 2) Diagnostics & Screening has seen high valuations lately



23 🔥

PROMISING STARTUPS

Eight Clusters define the HealthTech innovation landscape



Apps & Services

How do we use apps to enhance well-being and our health?

HEALTH TECH - APPS & SERVICES

Startups building Apps and Services for Patients & Practices



Funding has been relatively stable with emerging startups focusing on digitization, mental well-being, and FemTech



ventures

\$2.10B

Alphabet

Undisclosed

Headspace



of Exits

IPOs / M&As / Buyouts

17 / 173 / 40

Investment Volume 2023

\$1.35B

Major Investments in the Apps & Services segment

	Business Model	Investors	Total Funding
	The company's application allows users to consult with a qualified health professional in minutes via their smartphone or tablet at any time or location, enabling patients to have seamless access to healthcare .	Accel, Creandum, EQT Ventures, Index Ventures, Project A Ventures, Fidelity and others	\$540.26M Series D
🔆 cult.fit	The company's platform addresses the concept of preventive healthcare through a combination of engagement, coaching, and delivery by offering services for mental wellness, healthy food , and fitness through its mobile application .	Tata Group, Zomato, Unilever Ventures, Temasek, Accel and others	\$497.49M Series F
EGYM	The company's platform provides a B2B corporate fitness subscription solution to employers and highly personalized and data-driven fitness experiences to employees and gym users alike.	High-Tech Gründerfonds, Bayern Kapital, Cumulus Ventures, Mayfair Equity Partners and others	\$427.54M Series F
ShiftMed	The company allows posting staffing needs by location, time, and type of care through a convenient portal , where shifts will be instantly available for the network of healthcare professionals to claim.	SVB Capital, Audacious Capital, Healthworx, Blue Heron Capital, Motley Fool Ventures and others	\$350.73M Later Stage VC
headspace	The company offers an application that provides mindfulness and breathing techniques training through guided meditation and chats to help users take care of their mental health and improve their quality of sleep .	Khosla Ventures, Blackstone, Revelation Partners, Advance Venture Partners, and others	\$320.65M Debt

Hibi

Hibi

Apps &

Services

Search Field	Parents Support, Medical Appointments, Digital Health
Location	London, UK
Year Founded	2022
Total Funding	\$0.10M (Accelerator)
Last Round	\$0.10M (01/2023)
Investor	Entrepreneur First
Website	hibi.health

Business Overview

- Hibi is an **app for families caring for children with additional needs** and long term conditions
- The app support parents to **manage**, **coordinate**, **and navigate** the **child's care** with digital tools and **access to care support**

Use case & customers

• The app allows parents to **connect with** healthcare professionals, and store, track and share symptoms, behaviours, and appointments of their children all in a data secure manner

Similar Companies

- Sameview (2016, Seed (\$0.03M), StartUp Health, Remarkable Accelerator and others)
- Undivided (2019, Seed (\$5.94M), StartUp Health, Barrel Ventures, Red Sea Ventures)

Business Overview _____

- Amayu is becoming the leading provider of integrative **psychedelics-based care**
- Patients receive psychedelics in one of their clinics, while getting support from their network of experienced psychotherapists online and self-help via their patient care app

- Use case & customers

- Currently they have 300 people on their waitlist, partnered with 20 clinicians and are being advised by leading university experts from Charité, Cologne and Yale
- They are now **ready to pilot their prototype** with first customers

Similar Companies

- Mindbloom (2018, Series B (\$44.90M), 8VC, Kleiner Perkins and others)
- Nue Life (2020, Buyout (Undisclosed), Beckley Waves)

Amayu Health

Search Field	Psychedelics Therapy, Mental Health, Psychedelic Drugs
Location	Berlin, Germany
Year Founded	2023
Total Funding	Undisclosed (Accelerator)
Last Round	Undisclosed (2023)
Investor	Entrepreneur First
Website	<u>amayu.de</u>

Apps & Services



AI in Healthcare

How will Artificial Intelligence impact the future of healthcare?

Startups offering AI-enhanced Healthcare solutions



Funding volume nearly doubled every year until 2021 Al applications in Healthcare remain a hot trend











Major Investments in the AI in Healthcare segment

	Business Model	Investors	Total Funding
TEMPUS	Tempus leverages Generative AI to gain insights from its large libraries of multimodal data , thereby providing AI-enabled precision medicine solutions to physicians to deliver personalized patient care and facilitating discovery, development and delivery of optimal therapeutics.	Alphabet, Novo Holdings, T. Rowe Price, Franklin Templeton, Revolution Group and others	\$1.41B Series G
Xtal?i	XtalPi is a quantum physics and AI-powered pharmaceutical technology platform that provides integrated drug discovery solutions for global pharmaceutical companies. XtalPi has pioneered a new model for drug R&D that leverages AI, autonomous labs, and expert domain knowledge.	Alphabet, Softbank, Tencent, Susquehanna Asia Investments, HongShan (Sequoia China), and others	\$784.75B Series D
NEURALINK	Neuralink develops implantable brain-machine interfaces (BMIs). These interfaces aim to help humans merge with artificial intelligence , treat neurological disorders , and enable direct communication between computers and the brain.	Alphabet, Founders Fund, Sam Altman, Founders Fund, GigaFund, Craft Ventures and others	\$644.17M Series D
Valo	The company's platform integrates machine learning, cloud computing, and data to analyze human data to uncover previously unsuspected associations between genetic markers and disease with a human-centric framing.	Mercury Fund, Koch Disruptive Technologies, HBM Partners, Lanza techVentures, and others	\$595.00M Series C
FORWARD	Their platform offers secure messaging to facilitate efficient communication about patient care among clinicians. The aim is to enhance patient outcomes by streamlining communication and reducing administrative tasks in the healthcare setting.	Samsung NEXT Ventures, Softbank, Marc Benioff, Khosla Ventures, Founders Fund, and others	\$557.50M Series E

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Asepha

Search Field	Medical Database, Context Based Analysis, Health Data
Location	Toronto, Canada
Year Founded	2023
Total Funding	\$0.12M (Accelerator)
Last Round	\$0.12M (07/2023)
Investor	Techstars, Ripple Ventures
Website	<u>asepha.ai</u>

Business Overview

 Asepha is building an AI-enabled clinical decision support (CDS) tool, leveraging disparate datasets of research, trials, and healthcare data mapped through their own LLM to help healthcare professionals provide better care.

Use case & customers

 Asepha's Al-driven platform utilizes a proprietary algorithm, employing multi-dimensional, context-based analysis to process extensive patient-specific data sourced from trusted medical databases.

Similar Companies

- Inference Analytics (2016, Seed (\$2.62M), Bold Brain Ventures and Angel Investors)
- HiLabs (2014, Series A (\$1.91M), Season Two Ventures and Angel Investors)

Business Overview Diffuse Bio, uses AI to innovate in protein design, drawing inspiration from

- design, drawing inspiration from image-generating AI tools like DALL-E.
- Their advancements allow for the rapid creation of novel proteins, potentially leading to solutions for major health challenges like cancer and viral diseases.

- Use case & customers

• Diffuse Bio offers an Al-software platform for drug design and experimental validation of Al-generated proteins and diffusion models for protein structure and sequences.

Similar Companies

- **Biomatter** (2018, Seed (\$0.61M), Sofigama, Practica Capital, 70Ventures and others)
- Evozyne (2019, Series B (\$135.18M), NVIDIA, nVentures, Fidelity and others)

Diffuse Bio

Search Field	Drug Design, Drug Research, Generative Al
Location	Mountain View, USA
Year Founded	2022
Total Funding	\$Undisclosed (Early Stage VC)
Last Round	\$0.50M (10/2023)
Investor	Y Combinator, Fellows.Fund
Website	<u>diffuse.bio</u>





Al in Healthcare

VR & AR in Healthcare

How will VR and AR revolutionize staff training, diagnosis and treatment in healthcare?

HEALTH TECH - VR & AR IN HEALTHCARE

Startups building VR & AR solutions in the healthcare segment



The VR in healthcare market is set to grow by 34% annually driven by high demand to apply VR in surgical procedures



37 🚺

of Exits

IPOs / M&As / Buyouts

2/18/0

Investment Volume 2023

\$278.15M

PARTNERS

UK

Innovate

Major Investments in the VR & AR in Healthcare segment

	Business Model	Investors	Total Funding
mindmaze	Mindmaze develops digital neurotherapeutic devices using VR, motion capture, and neurophysiological tech to aid brain recovery and motor function restoration post-stroke or brain trauma.	AlbaCore Capital Group, Concord Health Partners, EPFL Innovation Park and others	\$340.54M PE Growth
A PPRENTICE	The company develops an intelligent manufacturing execution system that uses AR, voice recognition, and AI in wearable and desktop devices to streamline drug production for pharmaceutical and life science companies, minimizing errors and inefficiencies.	Insight Partners, ICONIQ Growth, Touchdown Ventures, Hemi Ventures, GFR Fund and others	\$207.00M Series C
Augmedics	Augmedics develops an augmented reality surgical system with a head-mounted display that allows surgeons to view a patient's anatomy through skin and tissue in real-time , aiding in complex surgeries.	Israel Innovation Authority, Almeda Ventures, XR Invest, MedTech Innovator, CPMG and others	\$148.60M Series D
	Proximie provides a telehealth platform for live surgery support , utilizing advanced technology to help surgeons practice and collaborate in and outside the operating room, even with low bandwidth.	Draper Associates, Softbank, Emerson Collective, Maverick Ventures and others	\$140.12M Series C
OSSO ^{vr}	The company operates a virtual reality training platform for surgical and medical device training , offering immersive experiences for both trainees and experienced surgeons to practice with the latest surgical tools and robotics.	Tiger Global Management, National Science Foundation, Plug and Play, Duro Ventures and others	\$108.97M Series C

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HEKA VR

Search Field	VR Therapy, Schizophrenia Therapy, Voice Modulation
Location	Copenhagen, Denmark
Year Founded	2022
Total Funding	\$0.50M (Accelerator)
Last Round	\$0.50M (09/2022)
Investor	BioInnovation Institute
Website	<u>hekavr.com</u>

HEKA VR __ Business Overview

VR & AR in Healthcare

- HekaVR employs advanced virtual reality and voice modulation technologies to offer immersive therapies for patients with auditory hallucinations, especially those with treatment-resistant schizophrenia
- The company is a **spin-off** of **Khora Virtual Reality**

Use case & customers

• Within a controlled and therapeutic environment, patients learn coping mechanisms, gain better understanding, and potentially reduce the severity and frequency of their auditory hallucinations

Similar Companies

- **Oxford VR** (2016, Acquired (Undisclosed), BehaVR)
- vTime (2015, Series A (\$21.05M), Deepbridge Capital, Kin Group, MSIF)

Business Overview

• Navari offers a software solution that overlays augmented reality imagery onto the standard laparoscopic camera feed for liver surgeries. This enhancement helps surgeons navigate more accurately, ensuring safer and more precise removal of liver tumors.

- Use case & customers

• Before surgery, a **3D liver scan** is taken. Navari's **AR software** processes this scan to highlight a **tumor's location**. During the **keyhole surgery**, this enhanced image **overlays** the surgeon's **real-time camera view**, guiding the operation.

Similar Companies

- EchoPixel (2012, Series A (\$14.90M), Intel Capital, Lam Capital, and others)
- Intuitive Surgical (1995, Public (\$91.18B), Ticker Symbol: ISRG)

Navari

Search Field	Tumor Detection, Cancer Treatment, Augmented Reality
Location	Gothenburg, Sweden
Year Founded	2021
Total Funding	\$0.73M (Pre-Seed)
Last Round	\$0.68M (11/2022)
Investor	Almi Invest, Chalmers Ventures and others
Website	<u>navarisurgical.com</u>





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Telemedicine & Remote Patient Monitoring

How can we streamline medical consultations in a remote setting?

Startups offering Remote Consultations and Patient Monitoring



41 🔥

Walgreens

42 🔥 Fueled by the need for virtual health consultations funding took off during the pandemic



NTURES

\$389.00M

Best Buy

Undisclosed

Walmart





HEALTH TECH - TELEMEDICINE & REMOTE PATIENT MONITORING

Major Investments in the Telemedicine & Remote Patient Monitoring segment

	Business Model	Investors	Total Funding
ro	Ro operates a telehealth platform for direct-to-consumer services, offering end-to-end solutions for conditions like erectile dysfunction and smoking cessation , allowing users to access free medication delivery and personalized treatment options.	Blackrock, Coatue Management, Insight Partners, General Catalyst, T. Rowe Price and others	\$1.03B Series D
Medlinker	Medlinker provides a social networking platform that connects doctors , streamlines referrals, and facilitates medical record sharing, benefiting patients by enabling appointment booking and medical community interaction.	Lightspeed China Partners, Tencent, Yunfeng Capital, Orion Venture Partners and others	\$768.34M Series E
MayaCare	The company develops a cloud-based software platform that enhances home care agencies' innovation and efficiency by offering integrated tools for planning, documentation, remote monitoring , and more, streamlining their operations.	Canada's Digital Technology Supercluster, Chrysalis Ventures and others	\$294.14M Series D
v halodoc	The digital healthcare platform connects patients with doctors for online consultations via video, voice, and chat, and also offers home-based lab tests, providing real-time access to health advice and clinicians.	crew Capital, Allianz X, Alto Partners, Astra Digital International and others	\$285.00M Series D
Ð H∪MA	Huma provides digital platforms for remote patient monitoring and virtual clinical trials, using connected devices and AI to improve healthcare outcomes. It supports 'hospital at home' care, integrating with healthcare systems prioritizing data security .	AstraZeneca, Hitachi Ventures, Bayer, Samsung NEXT, Sony, Unilever, Leaps by Bayer and others	\$241.66M Series D

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Motto

MOTTO

RPM

Telemedicine &

Search Field	Virtual Care Platform, Chronic Disease Treatment
Location	New York, US
Year Founded	2022
Total Funding	\$4.00M (Seed)
Last Round	\$4.00M (04/2022)
Investor	Redesign Health
Website	mottohealth.co

Business Overview

- Motto Health is a virtual specialty care provider for autoimmune and chronic inflammatory conditions
- It combines AI-based tools and a dedicated care team to offer personalized treatment plans and lifestyle recommendations

Use case & customers

- The platform streamlines symptom tracking, medication management, and appointment scheduling through its app and offers simplified 1:1 coachings
- Serving patients in California & Texas

Similar Companies

- One Medical (2007, Acquired (\$3.5B), Amazon)
- Virta Health (2014, Series E (\$364.59M), Sequoia Capital, Tiger Global Management and others)

Business Overview

- Fleming connects patients with medical professionals, eliminating the need for long waits and travel to hospitals.
- The platform is **enhanced by AI**, leveraging a secure, regularly **updated medical database** to **analyze symptoms** and provide guidance.

- Use case & customers

 Fleming's AI Therapist "chatbot" offers personalized mental health care by leveraging data from thousands of therapy sessions and symptom checks, using an encrypted dialogue system for custom, secure interactions

Similar Companies

- Babylon Health (2013, Bankruptcy (Raised \$1.15B), Munich Re, DeepMind, and others)
- Ada Health (2008, Series B (\$167.41M), Leaps by Bayer, Samsung and others)

Fleming

Search Field	Online Medical Consultation, Healthcare App
Location	Vilnius, Lithuania
Year Founded	2020
Total Funding	\$1.41M (Seed)
Last Round	\$1.41M (08/2021)
Investor	Kilo Health, European Commission
Website	<u>fleming.app</u>

& Telemedicine RPM

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Diagnostics & Screening

How can we better identify patients' diseases and conditions?

HEALTH TECH - DIAGNOSTICS & SCREENING

How Startups are diagnosing and screening for diseases and conditions



A flood of investors has entered the segment to finance novel diagnostics and screening technologies









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Major Investments in the Diagnostics & Screening segment

	Business Model	Investors	Total Funding
Heart Flow [®]	HeartFlow offers a non-invasive personalized cardiac test , which allows physicians to identify and better treat patients with suspected coronary artery disease . It provides coronary artery anatomy analysis, physiology, and plaque information based on CCTA .	Baillie Gifford, Bain Capital, Blue Venture Fund, Brookside Equity Partners and others	\$828.78M Series F
everly health	Everly Health provides an at-home kidney health test kit , aiming to reduce costs linked to Chronic Kidney Disease by enabling early detection with convenient, remote diagnostics that are as accurate as traditional lab tests.	BlackRock, Sequoia Capital, Touchdown Ventures, Hurt Family Investments and others	\$638.10M Series F
DNAnexus [®]	Provides a cloud-based platform for genomic and other biomedical data . It offers tools for large-scale DNA and RNA sequencing data analysis, management, and collaboration, serving researchers , clinical labs, pharmaceutical companies, and healthcare providers	Blackstone, Microsoft, GV, Wireframe Ventures, First Round Capital, Northpond Ventures and others	\$478.73M Series I
visby medical™	Their technology is designed to enable healthcare providers to perform on-the-spot testing for various infectious diseases , including sexually transmitted diseases and COVID-19 , without the need for sending samples to a lab.	John Doerr, Lightrock, ND Capital, 1809 Capital, Dynamic Loop Capital, and others	\$431.62M Series E
Element Biosciences	The company creates advanced genetic analysis tools , specifically a modular DNA sequencing platform for research and diagnostics , providing medical researchers with high-quality data and flexible workflows.	Morgan Stanley, Logos Capital, Fusion Fund and others	\$406.30M Series C

Currently fundraising. For more information contact investments@peakzone.io



Diagnostics & Screening

Digital Dental & Healthcare Technology

Search Field	Dental implantology
Location	Grünwald, Germany
Year Founded	2020
Total Funding	Undisclosed
Last Round	Undisclosed
Investor	Bavarian Innovation Fund
Website	<u>www.ddht.de</u>

Business Overview

 Providing essential software and hardware tools for daily dental practice, DDHT specializes in an ultrasonic device for precise jawbone quality examinations, ensuring successful implantology outcomes and aiding in the detection of FDOJ ´s.

Use case & customers

• Tailored for holistic dentists and implantologists, DDHT offers cutting-edge technology, like our ultrasonic device, for detecting silent inflammations and assessing jawbone quality, ensuring comprehensive patient care.

Similar Companies

- **Qikserve** (2011, Later Stage (\$12.33M), Par Equity and others)
- Aliments (2018, Undisclosed)

 Business Overview A pioneer in non-invasive colorectal cancer detection, this company offers a groundbreaking virtual endoscopy system, revolutionizing early diagnosis and treatment, without the need for laxatives. 		49 ()
 Use case & c Their innovative healthcare pr address color 	ustomers /e technology empowers oviders to identify and ectal cancer in its early	
stages, enhan survival rates.	cing patient outcomes and	
 Similar Comp Oncobit (2018 Avanteca Part Soar BioDyna (\$1.00M), Origi 	panies , Early Stage VC (\$3.85M), ners and others) mics (2005, Corporate nate)	Diagnostics & Screening Boston
Boston Medic	al Sciences	Scientific
Search Field	Medical Image Analysis	-
Location	Tokyo, Japan	
Year Founded	2023	
Total Funding	\$2.70M (Seed Round)	
Last Round	\$2.70M (10/2023)	
Investors	Beyond Next Ventures, NEDO Entrepreneurs Program	
Website		

Robotics & Automation in Healthcare

How will Robots help address the growing healthcare worker shortage?

HEALTH TECH - ROBOTICS & AUTOMATION

Startups building Robots and Automation Tools in HealthTech



HEALTH TECH - ROBOTICS & AUTOMATION

The majority of funding went to surgical robots aiming to assist surgeons for high precision procedures









Major Investments in the Robotics & Automation segment

	Business Model	Investors	Total Funding
	The company develops surgical robots to make minimally invasive surgery accessible and affordable by expanding the range of procedures robots can perform and providing 3D HD imagery and feedback to surgeons.	Softbank, Tencent, GE Healthcare, ABB, Cambridge Innovation Capital, and others	\$1.18B Series E
Noah Medical	Noah Medical develops medical robotic devices for early diagnosis and treatment in advanced clinical settings, helping hospitals save lives with minimal scarring.	HongShan, Tiger Global Management, Softbank, Prosperity7 Ventures, Digital Capital, and others	\$286.80M Series B
SURGICAL	The company develops a robotic surgical system that improves orthopedic surgery outcomes, offering 3D preoperative planning and computer-assisted tools for hip and knee procedures , enhancing patient care with precision technology.	Black Lake Expeditions, KDB Investment	\$252.82M Corporate
eep genomics	The company runs an AI-powered genetic medicine discovery tool using advanced robotics to generate extensive data for multiple machine learning systems. This helps researchers interpret and prioritize genetic variations for drug development.	Softbank, Khosla Ventures, Johnson & Johnson, True Ventures, Bloomberg Beta, and others	\$241.00M Series C
Medrobotics Expanding the reach of bargery •	Developer of a robot-assisted platform designed to provide surgeons with single-site access and visualization of hard-to-reach anatomical locations. The company's platform is based on a core flexible, steerable scope technology that surgeons can use to navigate around anatomy.	Hercules Capital, Eagle Ventures, Rosetta Capital, Slater Technology Fund, and others	\$214.33M Series H

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Bearcover

Search Field	Robot Technology
Location	Berlin, Germany
Year Founded	2021
Total Funding	Undisclosed (Early Stage)
Last Round	Undisclosed
Investor	Mosel Ventures
Website	www.bearcover.de



Robotics & Automation

Business Overview

 Specialization in night-time robotic assistance for nursing homes, offering routine checks and supervision of residents, optimizing staff time and enhancing resident care.

Use case & customers

• The robots patrol corridors and conduct vital health assessments, alerting caregivers to residents needing immediate attention, streamlining care and increasing resident interaction.

Similar Companies

- Scopio Labs (2014, Series C (\$102.53M), Aescuvest, Ilex Medical and others)
- Markbotics (2022, Seed (\$1.00M), Undisclosed)

Business Overview

 Innovative developer of versatile surgical robots optimized for endoscopic surgery, enhancing surgical precision and dexterity across various human organ systems.

- Use case & customers

• Their surgical robots **empower surgeons to perform precise examinations and procedures in the digestive tract,** lower abdomen, large bowel, and bladder system, seamlessly **integrating with existing clinical workflows.**

Similar Companies

- Vivo Surgical (2018, Seed (\$1.25M), Undisclosed)
- Auxin Surgery (2014, Grant (\$3.18M), WBC Ventures, GoBeyond and others)

Agilis Robotics

Search Field	Surgical Robot
Location	Hong Kong, China
Year Founded	2021
Total Funding	\$7.54M (Series A)
Last Round	\$6.00M (08/2022))
Investor	K2VC, Korea Investment Partners
Website	www.agilisrobotics.com





Internet of Medical Things

How will we seamlessly analyze and monitor health data?

Startups building IoT solutions to leverage health data



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IoMT will enhance remote patient monitoring but cybersecurity concerns dampen the market outlook









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Major Investments in the Internet of Medical Things segment

	Business Model	Investors	Total Funding
	The company has developed a precision health platform that employs AI, IoT, and digital twin tech to assess and correct metabolic issues in diabetes patients, offering tailored treatment options.	Corner Ventures, DAG Ventures, G9 Ventures and others	\$214.39M Later Stage VC
КҮЕЕ	The company develops an application platform for healthcare institutions, offering mobile healthcare services, medical IoT, nursing education, and more, improving communication systems for better healthcare delivery.	Highlight Capital, Longmen Capital, Meihe Zhongbang, SB China Venture Capital and others	\$135.99M Series D
LACHESIS 联新	This company offers comprehensive medical solutions using ICT and internet technology , focusing on mobile medical hardware, software, and clinical solutions for hospitals and doctors , enhancing efficiency and accuracy in healthcare management.	Addor Capital, BOC Guangdong Finance, V Star Capital and others	\$95.07M PE Growth
birdie	birdie develops adult care technologies that transform home care for the elderly, offering tools for care professionals to assess, plan, and enhance care, along with IoT devices like infrared sensors for health monitoring, promoting a happier life at home for older adults.	AXA Venture Partners, Index Ventures, Kamet Ventures, OMERS Ventures and others	\$58.51M Series B
CT4	The company offers a data-management platform that translates data into actionable insights and helps clients collect and manage IoT data securely , saving time and costs with tailored solutions.	Perennial Partners, Shaw and Partners	\$33.50M Later Stage VC

Spike

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Internet of

Medical Things

Search Field	Wearable Sensors
Location	New York, USA
Year Founded	2022
Total Funding	\$0.70M (Seed Round)
Last Round	\$0.70M (12/2022)
Investor	Axel Springer Porsche, CEAS Investments, Geek Ventures
Website	<u>spikeapi.com</u>

Business Overview

- This company develops API and ETL algorithms for real-time data connectivity, facilitating seamless integration between applications and users' data.
- Collecting Health Data

Use case & customers

 Their technology empowers developers to access wearable data in various formats, ensuring easy integration with IoT and sensors, eliminating the need for costly backend development and adaptation.

Similar Companies

- Crio (2015, Series B (\$16.77M), ABBHI Ventures, NXT Ventures and others)
- Validic (2010, Series B (\$30.29M), Arkin Holdings, Gershon Capital and others)

Business Overview

• Specialization in research and development engineering, focusing on IoT ecosystems and product lines powered by voice assistants, AI, and cloud services, offering end-to-end embedded systems development for user-friendly devices.

- Use case & customers

• They designed a **smart home device** that **integrates voice recognition, AI, and cloud services for effortless home automation**, enhancing user convenience and efficiency.

Similar Companies

- **Ospitek** (2018, Seed Round (\$5.42M), Undisclosed)
- SelfCareOne (2017, Angel (\$1.95M), Johnson & Johnson Innovation)

Bytek Smart Solutions

Search Field	Voice assistant device
Location	Bilbao, Spain
Year Founded	2019
Total Funding	Undisclosed (Accelerator)
Last Round	Undisclosed (01/2020)
Investor	Robert Condon, Startup Health
Website	<u>bytek.info</u>

Internet of Medical Things

BYTEK

Organ Care Tech & Bioprinting

Will we be able to print living tissue and new organs?

How Startups are (re)generating organs and human tissue



Startups are securing funding to print tissue and organs, which is still in its very early developmental stages











Major Investments in the Organ Care Tech & Bioprinting segment

	Business Model	Investors	Total Funding
Light FORCE	This company develops personalized 3D-printed orthodontic brackets for precise digital dental treatments, improving control and efficiency for orthodontists in challenging cases.	Ally Bridge Group, American Association of Orthodontists, CareCapital and others	\$150.13M Series D
RoosterBio®	The cell manufacturing company aims to boost regenerative medicine by providing human stem cells from bone marrow and adipose tissue , capable of immune system modulation and tissue regeneration for treating immune-related diseases.	Dynamk Capital, Vanedge Capital, TEDCO and others	\$29.61M Debt - PPP
	The company develops a full-stack tissue therapeutic platform with proprietary 3D bioprinting tech to advance biology, disease research, and regenerative medicine by creating living human tissues for research and therapeutic purposes.	Novo Nordisk, Government of Canada, Cascadia Venture Forum and others	\$20.78M Later Stage VC
Dimension Inx	The biomaterials platform developer offers a versatile and cost-effective bio-fabrication process for regenerative medical products, eliminating the need for organ transplantation.	Alumni Ventures, Calm Ventures, Hawktail, Better Ventures and others	\$20.52M Series A
	This company offers bio-printing services using precise non-contact inkjet printing technology, serving the pharmaceutical, diagnostic, and life science sectors for creating tools in genomics, proteomics, patient stratification, and clinical diagnosis.	Department for International Trade, Archangel Investors	\$9.00M Later Stage VC

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Brinter

Search Field	3D bioprinting
Location	Winston-Salem, USA
Year Founded	2020
Total Funding	\$2.23M (Early Stage VC)
Last Round	\$0.75M (06/2023)
Investors	Athensmed, Innovestors Ventures
Website	brinter.com

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3D bioprinting

Business Overview

 Specialization in 3D bio manufactured implants for personalized orthopedic solutions, fusing regenerative materials and 3D printing to transform individualized healthcare.

Use case & customers

• Their bio-mods offer groundbreaking cartilage reconstruction, enhancing treatment for specific human injuries and conditions, benefiting clinics and hospitals with centralized biomanufacturing.

Similar Companies

- FluidForm (2018, Later Stage VC (\$5.00M), Hackensack Meridian Health and others)
- **3DBio Therapeutics** (2014, Series A (\$31.44M), Network VC, Expa and others)

Business Overview

 This company specializes in a point-of-care medical device production system, enabling medical professionals to create custom sterilized implants using their proprietary 3D-printing technology and materials, resulting in cost and time savings for the healthcare industry.

- Use case & customers

 Medical professionals can efficiently produce personalized bioresorbable implants in-house, reducing costs and time associated with bone implant procedures.

Similar Companies

- Lithoz (2011, Angel (\$0.04M), AM Ventures, Hans Langer and others)
- Formlabs (2011, Secondary Transaction(\$253.13M), Ion Pacific and others)

A.D.A.M

Search Field	Sterilized personalized implants
Location	Stamford, USA
Year Founded	2019
Total Funding	\$0.69M (Later Stage VC)
Last Round	\$0.20M (10/2023)
Investor	MicroVentures, WeFundVentures, Mount Sinai Innovation Partners
Website	www.adambioprinting.com

3D bioprinting

A.D.A.M.

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SUMMARY

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SUMMARY

66 **(** Ranking the HealthTech segments in relation to each other



The global pandemic has increased investments over recent years in the areas of Apps & Services and VR & AR In Healthcare while these sectors have seen relatively low M&A activity. Telemedicine & Remote Patient Monitoring saw the highest M&A Activity but a relatively decrease in Venture Funding. AI in Healthcare had the highest funding in 2021, which is also decreasing. Robotics & Automation is a sector in within the investor activity is declining, but the M&A Interest is relatively high. Diagnostics and Screening has not a very strong decrease in Venture Funding, like Internet of Medical Things, which is even **growing**. Both do not have a strong M&A Interest. Organ Care Tech & Bioprinting had the most arowing venture activity. but vet 0% M&A Activity.

PEAKZONE Research: Venture activity aggregates as a measure of funding growth, total investment in the sector and the percentage of funded to total startups; Level of consolidation measures the percentage of acquired startups to VC funded startups in the sector



Apps & Services: The significant upward trend in the Apps & Services sector, particularly the standout year of 2021 with \$2.69B in funding, aligns with the emergence of diverse applications, notably in mental health, diet apps, and AI-powered patient interactions apps, reflecting the industry's dynamic response to evolving societal needs and technological advancements.



Al in Healthcare: The unprecedented \$11.69B in funding for Al in healthcare in 2021 signifies a profound acceleration of technological innovation, reflecting heightened investor confidence, diverse applications spanning diagnostics to personalized medicine, and a transformative impact on patient outcomes.

SUMMARY

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VR & AR in Healthcare: VR & AR in healthcare is driven by its multifaceted applications, including staff training, surgical simulations for risk reduction, support for individuals with developmental disorders and phobias, and therapeutic advancements, exemplified by programs like Psious aiding in overcoming fears.



Telemedicine & Remote Patient Monitoring: Telemedicine offers with its applications a good remote acute care and chronic disease management, coupled with cost-effective diagnosis and treatment, particularly in specialized fields like cardiology, contributed to its rising prominence.



Diagnostics & Screening: Diagnostics & Screening technologies experienced notable growth, as their advancements in precise and efficient medical diagnostics, coupled with innovative screening approaches, contributed to their increasing significance in healthcare.



Robotics & Automation: Robotics & Automation in healthcare has witnessed substantial growth, playing a pivotal role in revolutionizing medical procedures, surgeries, and logistical processes to enhance efficiency and precision within the industry.

SUMMARY



Internet of Medical Things: The Internet of Medical Things (IoMT) has become integral in transforming healthcare delivery by connecting devices, enabling data-driven insights, and enhancing patient care.



Organ Care Tech & Bioprinting: Engineering human tissue and organ systems from a 3D printer requires novel technologies and high upfront research effort. Startups are still scarce in the field and strategic investments are rare. Still, we could see a rise in new startups entering the space as the technology matures.

Appendix

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Appendix Additional HealthTech articles

16 tech startups making psychedelic therapy more effective and affordable	<u>Link</u>
These 12 Startups Are Ensuring Every Child Has Access to Quality Care	<u>Link</u>
Musk's Neuralink to start human trial of brain implant	<u>Link</u>
Generative AI startups to watch in Healthcare and Life Sciences	<u>Link</u>
20 Gen Al Healthcare Startups Shaping the Future	<u>Link</u>
Health AI startup Olive to shut down	<u>Link</u>

CONTACT DETAILS





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