May 2026. Technology snapshot

Digital health in Catalonia

ACCIÓ Catalonia Trade & Investment

Generalitat de Catalunya
Government of Catalonia

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Digital Health in Catalonia. Technology snapshot

ACCIÓ
Generalitat de Catalunya (Government of Catalonia)

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Collaboration
Barcelona Health Hub
Fundació TIC Salut i Social

Barcelona, May 2026

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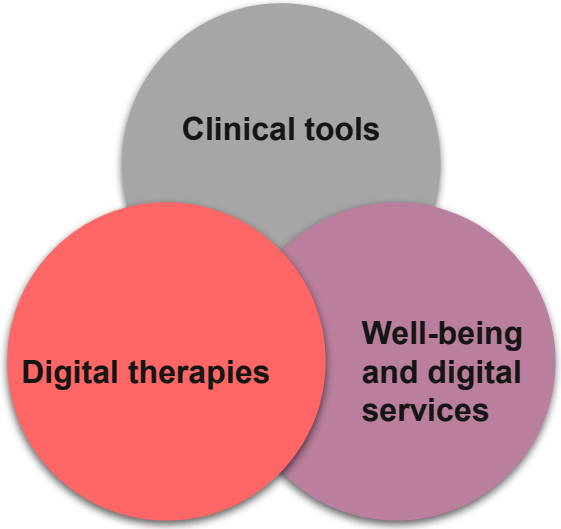
Executive summary of digital health in the world

Digital health is the set of tools and services that use ICT to support and improve all stages of healthcare delivery, from prevention and diagnosis to treatment, monitoring and the management of health conditions.

Fields of digital health



Technological solutions

- Telemedicine
- Patient monitoring
- Data and electronic health records
- Diagnostics
- Medic decision support

- Treatment
- Simulation and training
- Medical robotics
- Monitoring and sensors

- Prevention
- Home care
- Search and information services
- *Marketplaces*
- Other health services

Digital health trends

- Artificial intelligence
- Well-being
- Predictive, preventive and personalised medicine
- Robotics
- Video consultations
- Health data spaces
- Clinical data security

Global market

The global digital health market will exceed $177B in 2026 and is expected to reach $219.6B in 2030, with an annual growth rate of 5.4%.

The USA leads global revenue in digital health, with a 31% market share. Asia will experience significant growth, with India (10.4%), Japan (6%) and China (5.7%) at the forefront.

Between 2021 and 2025, technology FDI in the health sector has exceeded €25.9B, with 680 projects worldwide generating 89,400 jobs.

Between 2021 and 2025, venture capital in digital health startups worldwide has exceeded $147B. The USA accounts for more than 50% of total investment rounds.

Executive summary of digital health in Catalonia: business data

419 companies in the digital health ecosystem

8.5% more companies compared to 2025.

Revenue of €652M (+2.9%) and 5,326 jobs (+0.5%).

92.1% are SMEs and 54.7% are startups.

Companies developing clinical tools (38.2%) and digital therapies (26.3%) stand out. Companies offering well-being solutions and digital health services represent 14.8%.

Key agents and initiatives

28 research and technology centres, and hospital research institutes

14 universities and training centres

10 acceleration programmes and incubators

23 associations, networks and clusters

17 institutions and public administration bodies

12 flagship public initiatives

271 companies (65%) develop AI tools, 23.5 percentage points more compared to 2025.

Companies focused on different *–tech* that are trending also stand out:

- 48 companies specialised in *femtech*
- 53 companies specialised in *agetech*
- 52 companies specialised in *pediatech*

Attractive for international companies

Catalonia, a leading region in foreign investment in the health sector during 2021–2025:

- 5th in the world in invested capital
- 4th in the worldin project attraction
- 1st in Europe in invested capital and number of projects

21 health technology *hubs* from companies such as AstraZeneca, Bayer, Novartis, Roche and Sanofi.

Entrepreneurial ecosystem

The health technology sector is a clear leader in Catalonia: it is first in number of startups (415, 17.3% of the total), in revenue (€403M) and in venture capital funding (€351M).

Barcelona is the 3rd EU city in attracting public and private funding for digital health startups in the last five years (2021–2025).

Executive summary of digital health in Catalonia: digitalisation in healthcare centres

Survey* on the implementation of digital tools in healthcare centres

- 100% of entities expect to increase the level of implementation of digital health solutions in their centres over the next three years.
- The most widely implemented technologies: video consultations, clinical data integration, robotic surgery. Agentic AI, augmented reality and teleassistance: in pilot phase with upcoming implementation.
- Primary care, diagnostic imaging and chronic disease management are the areas where digital health is expected to have the greatest impact.
- The main impact will be on innovation, followed by efficiency, care quality and decision-making.
- 80 % of entities assess their digital maturity as moderate.

Artificial intelligence in the healthcare sector

Transformation of the Catalan healthcare system through the incorporation of AI:

- 184 tools, implemented by 86 entities: 26 SISCAT entities, 20 research entities and 40 private entities.
- Cross-cutting application, especially in areas such as radiology and oncology, with participation from both public and private entities.
- Growing implementation of agentic AI and AI for diagnosis and screening.
- By care area, the following stand out:

153 hospital care

83 primary care

25 mental health

Non-face-to-face care in the Catalan healthcare system

In-person care is still predominant, but non-face-to-face care is gaining importance:

- Primary care: 39% of visits are non-face-to-face. Significant use of telephone consultations and administrative interactions without patients.
- Hospital care: non-face-to-face care accounts for 22.3%. Telemedicine mainly focused on telephone consultations.
- Mental health: non-face-to-face care (30.8%) focused on telephone consultations and video consultations.
- 061: telephone consultations, mainly clinical (78.5%). Half do not require mobilisation of resources. Consolidated non-face-to-face care model.

*Survey of around ten Catalan hospital and healthcare centres.

1 Definition, importance and applications of digital health

Definition of digital health

Digital health is the **set of tools and services that use ICT to support and improve all stages of healthcare delivery**, from prevention and diagnosis to treatment, monitoring and the management of health conditions.

Source: European Commission

Digital health encompasses **three main fields**:

Clinical tools

Solutions that support clinical practice and facilitate patient management, decision-making and the optimisation of healthcare processes. These include:

- Telemedicine
- Patient monitoring
- Data and electronic health records
- Diagnostics
- Medic decision support

Digital therapies

Solutions that support treatment and health improvement through tools designed for patients. These include:

- Treatment
- Simulation and training
- Medical robotics
- Monitoring and sensors

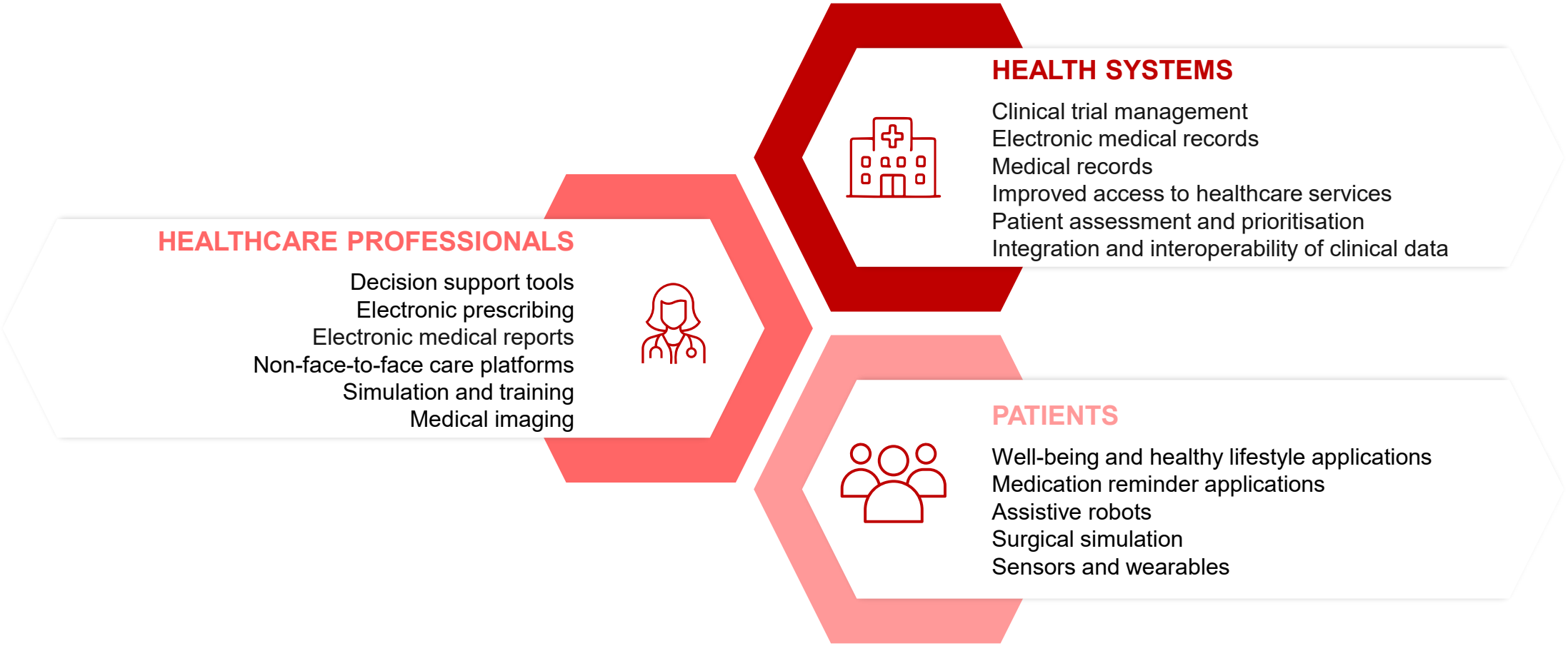
Well-being and health services

Solutions for everyday health and well-being that facilitate patient access to services, information and assistance outside the traditional clinical setting. These include:

- Prevention
- Home care
- Search and information services
- *Marketplaces*
- Other health services

Applications of digital health

Digital health can provide many benefits to different actors in the ecosystem:



Sources: Johner Institute, Eupati, World Health Organization, OECD, European Commission

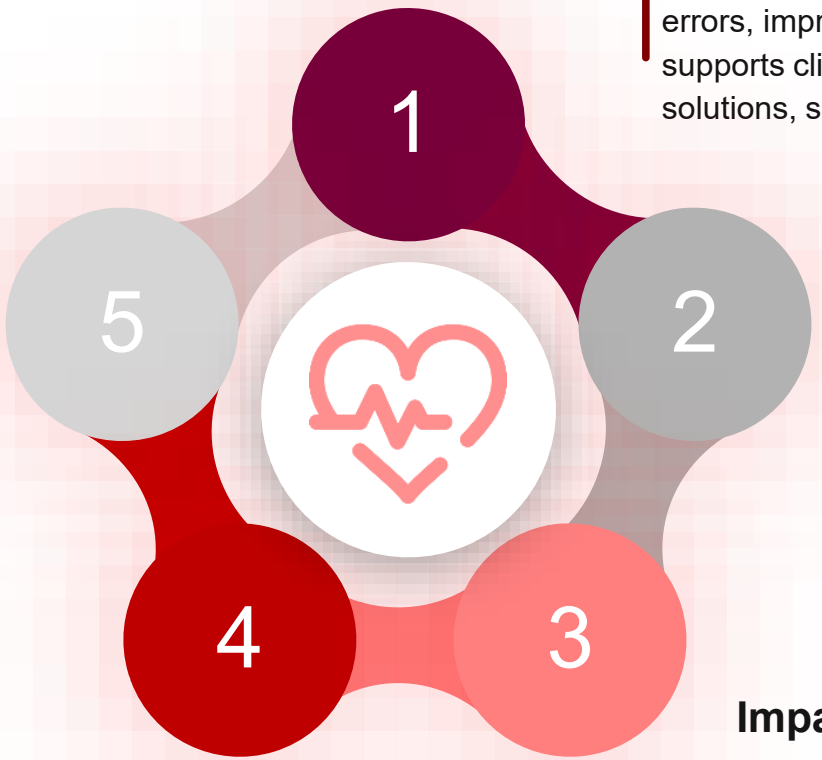
Importance of digital health

Innovation

The digitalisation of healthcare helps reduce costs and errors, improving management, while the use of data supports clinical research and the validation of new solutions, shortening innovation cycles.

Convergence of technologies

Digital health integrates diverse technologies such as artificial intelligence, robotics, genomics and wearables. The combination of these enables greater added value and improves prediction, planning and the quality of healthcare delivery.



New business models

Digital health transforms data and technology into concrete opportunities to reinvent services and create personalised solutions, thereby redefining the healthcare sector.

Impact on patients

Digital tools enable patient empowerment and continuous personalised monitoring, improving the quality of care and patient satisfaction.

Impact on the healthcare system

Digital health streamlines and optimises the responsiveness of healthcare systems, balancing speed and efficiency in healthcare delivery.

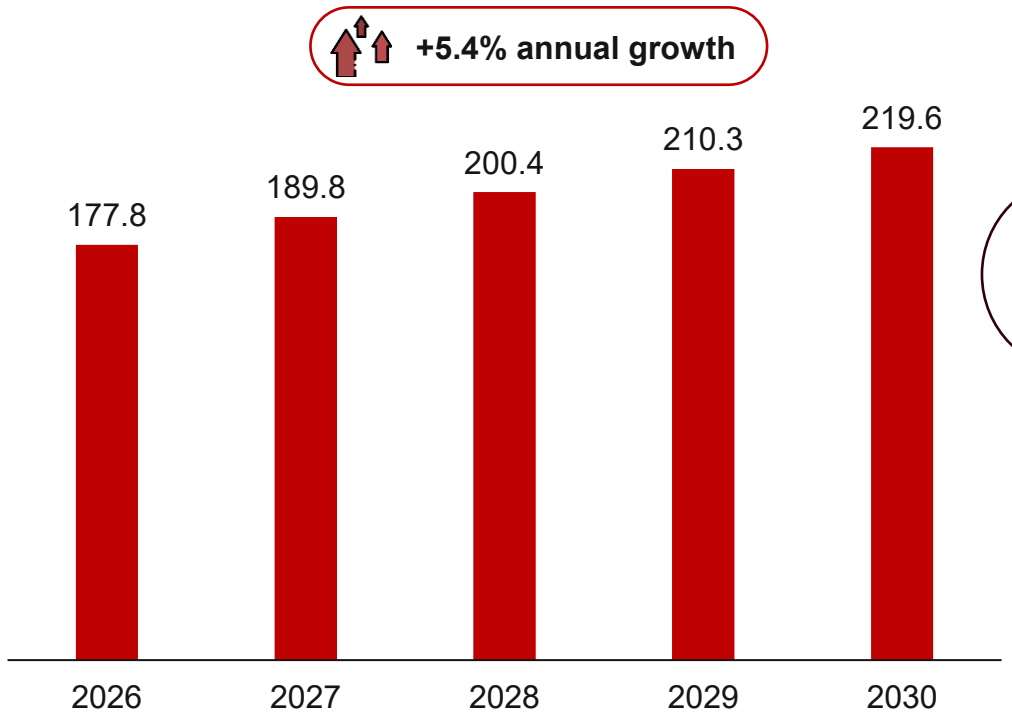
2 Global digital health market

Size of the global digital health market

The global digital health market will exceed **$177B in 2026** and is expected to reach around **$219B by 2030**, with **annual growth of 5.4% between 2026 and 2030**.

Global digital health revenue

(2026–2030, billions of dollars)



Key growth factors in the digital health market

- Increase in public healthcare expenditure and general population ageing
- Greater demand for digital solutions, wearables and telemedicine
- Collection of digitised patient data More precise and personalised treatments
- Healthcare models focused on prevention and prediction, as well as patient empowerment

Source: Statista

Global digital health market, by country

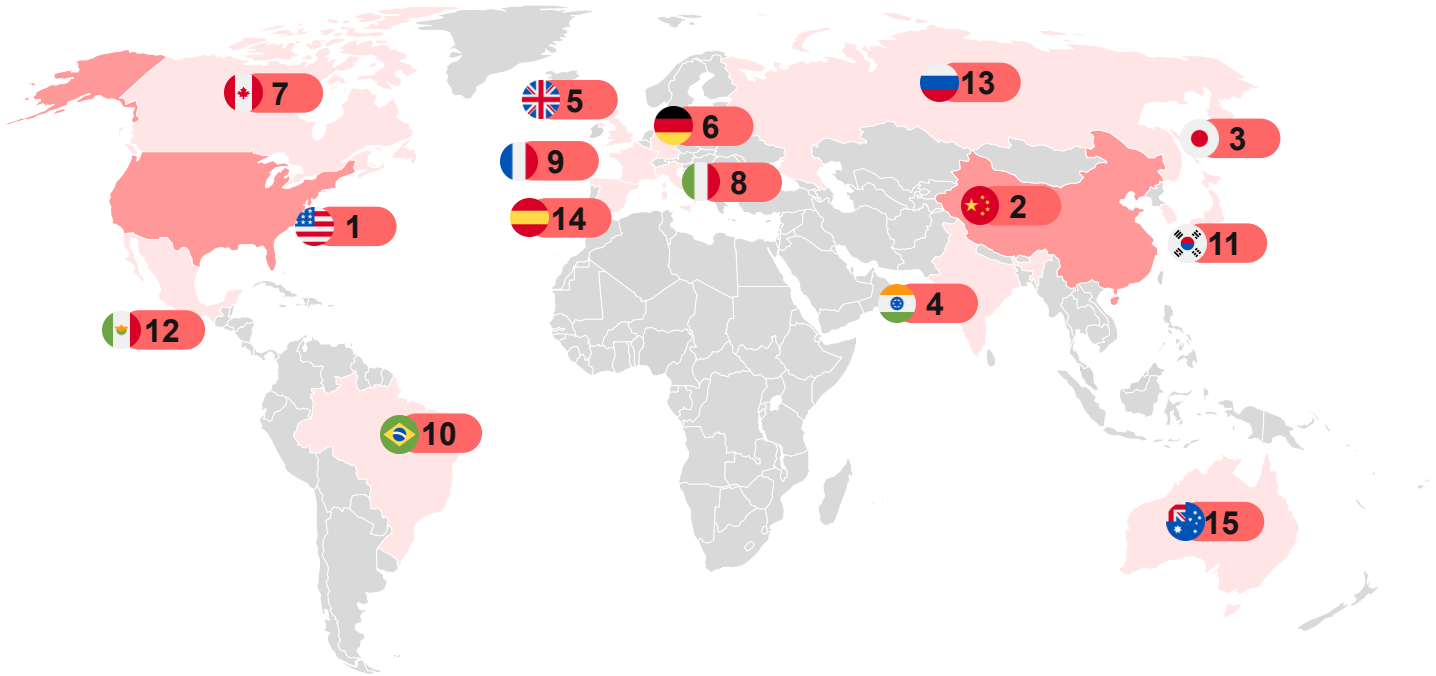
The USA leads global revenue in digital health, with a 31% market share

Asia will experience significant growth, with India (10.4%), Japan (6%) and China (5.7%) at the forefront

Five European countries stand out in the top 15: the United Kingdom, Germany, France, Italy and Spain

Global digital health revenue, by country

(the number indicates the country's position in the revenue ranking)



	Countries	Revenue ($M, 2026)	% annual growth (2026–2030)
1	United States	54,956	5.0%
2	China	32,903	5.7%
3	Japan	7,434	6.0%
4	India	6,450	10.4%
5	United Kingdom	5,902	6.0%
6	Germany	5,688	5.5%
7	Canada	4,015	5.9%
8	Italy	3,871	3.7%
9	France	3,619	3.7%
10	Brazil	3,098	4.0%
11	South Korea	2,966	5.5%
12	Mexico	2,490	4.4%
13	Russia	2,453	4.4%
14	Spain	2,397	4.6%
15	Australia	2,298	1.8%

Source: Statista

Leading global companies investing in medical technologies

AstraZeneca
AdvancedMD
athenahealth
AT&T
BAYER
CISCO
DXC IMPOSSIBLE. DELIVERED.
INTUITIVE
FUJITSU
GE HealthCare
Honeywell
iHealth
Johnson&Johnson
Medtronic
McKESSON
ORACLE
PHILIPS
SIEMENS Healthineers
Teladoc HEALTH
veradigm

With a presence in Catalonia

Sources: Precedence Research, Technology Magazine and Statista

3 Public initiatives in digital health

United Nations initiatives in digital health

The UNDP Digital Health for Development Hub is a United Nations initiative that provides technical and strategic support to countries to integrate and scale digital health solutions. It helps strengthen governance, data management and institutional capacities through people-centred digital and AI technologies, with a focus on equity, human rights and international cooperation.

The World Health Organization (WHO) Global Strategy on Digital Health 2020–2027 is the global framework guiding countries in the implementation of digital health technologies with the aim of strengthening healthcare systems and improving health outcomes in an equitable and sustainable manner. It promotes the digital transformation of healthcare services to improve efficiency and accessibility, reduce inequalities and advance towards universal healthcare coverage.

Global Digital Health Partnership (GDHP) and Certification Network

The GDHP (a global collaboration of governments and organisations) and the Global Digital Health Certification Network are WHO-led initiatives that promote the exchange of knowledge, standards, interoperability and best practices in digital health at international level. They allow the standardisation and certification of global digital health technologies, measures and processes.

The Global Digital Health Monitor (GDHM) is an interactive tool recognised by the World Health Organization (WHO) that enables the monitoring and assessment of the level of development of digital health systems at national, regional and global level. It helps countries measure digital health "maturity", prioritise interventions, identify funding or technical assistance needs, and promote alignment among policymakers, donors and sector stakeholders.

Digital Implementation Investment Guide (DIIG)

Published by the WHO and other agencies (such as UNFPA and UNICEF), this practical guide helps integrate digital technologies into national health programmes, from planning and costing to implementation and interoperability within existing systems. It is a tool designed to ensure that digital health projects achieve real and sustainable impact.

Sources: UNDP, WHO

European Union initiatives in digital health

Digital Decade 2025: eHealth Indicator Study

The “Digital Decade 2025: eHealth Indicator Study” analyses the progress made by EU-27 countries, Iceland and Norway towards the objective of ensuring that 100% of citizens have online access to their electronic medical records by 2030.

EU4Health

The EU4Health programme (2021–2027) represents an investment of €4.4 billion aimed at adding value to health policies. Its overall objective is to strengthen the health of the European population and make healthcare systems more robust and resilient.

European Health Data Space (EHDS) and its Regulation

Ongoing project based on the governance of digital health data under criteria of quality, infrastructure requirements and interoperability. Measurement and implementation of the General Data Protection Regulation.

eHealth Digital Service Infrastructure (eHDSI)

Mechanism that guarantees continuity of care for European citizens while travelling abroad within the EU. Enables the secure, efficient and interoperable exchange of health data.

EIT Health

European health innovation community established within the European Institute of Innovation and Technology (EIT). Its objective is to strengthen Europe’s capacity for innovation in healthcare.

Source: European Commission

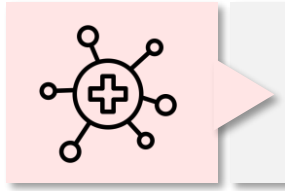
Initiatives in digital health in Spain

- **Spanish Digital Health Strategy 2021–2026**. It forms part of the Spanish Government's "Digital Spain 2026" roadmap and sets out the digital transformation of Spanish National Health System (SNS) services across three main areas of action: the development of digital and intelligent services, the interoperability of health information and the promotion of data analytics.

- **Strategic Programme for Vanguard Health 2025–2027**. This is a continuation and evolution of the PERTE for Vanguard Health launched in 2021. The programme's overall objective is to improve population health and strengthen Spain's industrial and scientific ecosystem as an international benchmark in advanced healthcare. The programme seeks economic growth through science, innovation, technological development and the use of digital technologies.

- **National Health System Cybersecurity Strategy 2025–2028**. This is a comprehensive national framework to protect SNS healthcare systems, data and digital services against the constant rise in cyber threats and risks associated with the sector's digitalisation. The strategy primarily aims to protect the integrity, confidentiality and availability of health information; guarantee continuity of care in the event of security incidents; and strengthen public trust in the use of digital health services.

- **EDAISS and the Data Spaces Reference Centre**. EDAISS (Integrated Social and Healthcare Data Space) is a sectoral data space designed to facilitate the secure and governed sharing of information between the healthcare and social care sectors. The Data Spaces Reference Centre is the organisation that promotes, coordinates and supports the development of these data spaces in Spain. It acts as a technical and strategic reference point to support their creation and consolidation.



- The **National Health Data Space (ENDS)** is a public infrastructure that connects healthcare systems to share data securely and interoperably, with the aim of promoting biomedical research, innovation and improvements in healthcare delivery. It enables the use of large volumes of data with privacy safeguards for purposes of public interest, such as healthcare planning, decision-making and the development of new treatments.

Sources: Ministry of Science, Innovation and Universities, CRED, EDAISS, SNS Annual Report (2025) and Ministry of Health

4 Digital health in Catalonia

4.1 Business ecosystem data

Digital health business mapping in Catalonia (I)

419 companies

+8.5%[1]

652 million euros

+2.9%[1]

5,326 jobs

+0.5%[1]

By business segment:

Clinical tools	**38.2%**	
Digital therapies	**26.3%**	
Well-being and health services	**14.8%**	

271 companies (65% of the total) develop **artificial intelligence** solutions applied to healthcare

- **92.1%** are SMEs.
- **28.9%** generate more than €1 million in revenue and **2.9%**, more than €10 million.
- **63.0%** are less than 10 years old.
- **54.7%** are startups.
- **14.3%** are exporters.
- **11.5%** are subsidiaries of foreign companies.

[1]Growth compared to the 2025 mapping exercise.

Note: the data on companies refers to 2026; revenue and employment data refer to 2024 (or latest available).

Source: ACCIÓ

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Digital health business mapping in Catalonia (II)

Clinical tools

Digital therapies

Well-being and health services

Technology consultants

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Source: ACCIÓ

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Foreign technology investment in the healthcare sector in Catalonia

Catalonia is the **4th region worldwide in foreign technology investment in the healthcare sector** by number of projects, and 5th by invested capital (2021–2025).

By number of projects

1. Massachusetts
2. Telangana
3. Karnataka
4. **Catalonia**
5. California

By invested capital

1. Beijing
2. Massachussetts
3. California
4. Telangana
5. **Catalonia**

Catalonia is the **leading region in Europe for foreign technology investment in the healthcare sector** by number of projects (8.7% of the total) and invested capital (12.3%).

Catalonia is the **leading region in Spain for foreign technology investment in the healthcare sector**, accounting for 57.5% of projects and 62% of invested capital.

Technological FDI in the healthcare sector in Catalonia (2021-2025)

23 projects

€997.4 M

1,965 new jobs

AstraZeneca

The *Financial Times* has recognised AstraZeneca's global *hub* in Barcelona, specialising in biomedical innovation, as one of the five best FDI projects in Europe. The project plans to invest **€1.3B** by 2027 and hire**1,600 employees**. **ACCIÓ** has played a key role in attracting this investment to Catalonia.

Main investing companies in Catalonia (2021-2025)

AstraZeneca, Roche, sanofi, Boehringer Ingelheim, Bayer

Source: ACCIÓ, based on fDi Markets

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4.2 Entrepreneurial ecosystem and talent

Leadership of health technologies in Catalonia's startup ecosystem

Health technologies lead Catalonia's startup ecosystem: it is **the leading sector in number of companies, revenue and venture capital funding attracted**.

No. 1 sector by number of startups

415

Startups

17.3% of the total

No. 1 sector by revenue volume

€403M

Revenue

13.7% of the total

No. 1 sector by venture capital funding attracted

€351M

Venture capital funding volume

31% of the total

Click here to view the interactive map of startups in Catalonia 2025

Note: The chart has been prepared based on Dealroom's sector classification

Source: *Barcelona & Catalonia Startup Hub*

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Barcelona, 3rd EU city in funding raised by digital health startups

- Barcelona is the **3rd EU city** in attracting public and private funding for digital health startups in the last five years (2021–2025).
- Specifically, **28 startups** have raised **$90 million across 59 funding rounds**.
- Barcelona is the **1st city in the EU** in grant funding raised.

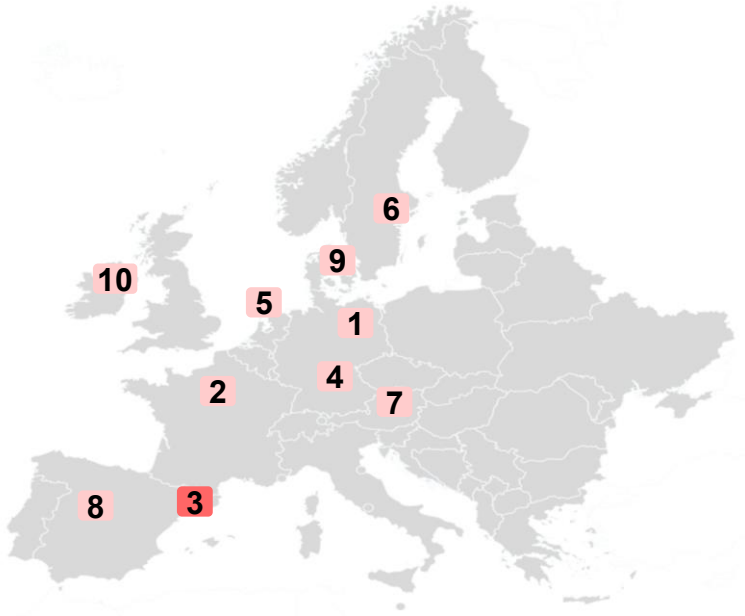
AI applications

17 startups	41 rounds	€82.7M
60%	**69%**	**92%**

Main startups in Barcelona

TOPDOCTORS · mediktor · IOMED · oliva · The Blue Box · SYCAI MEDICAL · mediQuo · DIEL DIGITAL GLASSES · ELEM

Top 10 EU cities by public and private funding raised in digital health startups (2021–2025)



1	Berlin
2	Paris
3	**Barcelona**
4	Munich
5	Amsterdam
6	Stockholm
7	Vienna
8	Madrid
9	Copenhagen
10	Dublin

Source: ACCIÓ, based on Crunchbase

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Digital health *spin-offs* in Catalonia

Catalonia has **44 *spin-offs*** in the field of digital health, all of which are startups originating from research centres, hospitals, universities and technology centres. *Spin-offs* account for **19.2% of total startups** in digital health.

Distribution of *spin-off* origin centres (%)

Main origin centres of digital health *spin-offs* in Catalonia

Universities

UNIVERSITAT DE VIC UNIVERSITAT CENTRAL DE CATALUNYA · Universitat de Girona · Universitat Rovira i Virgili · Universitat Politècnica de Catalunya BARCELONATECH · Universitat de Barcelona · Bosch i Gimpera · Universitat Oberta de Catalunya · Universitat Pompeu Fabra Barcelona · PhySense Sensing in Physiology and Biomedicine Research Group

Hospital, biomedical and healthcare research centres

Clínic Barcelona · IDIBAPS · Vall d'Hebron Barcelona Hospital Campus · Parc Taulí Institut d'Investigació i Innovació I3PT · Consorci Sanitari del Maresme · CRG Centre for Genomic Regulation · SJD Sant Joan de Déu Barcelona · Hospital · Fundación Lucha contra las Infecciones · IDIBGI · IGTP · IISPV · BCN-AIM

Research and technology centres

ICN2 Institut Català de Nanociència i Nanotecnologia · eurecat 10 años · BSC Barcelona Supercomputing Center Centro Nacional de Supercomputación · CNM Centro Nacional de Microelectrónica IMB · iRi Institut de Robòtica i Informàtica Industrial

Digital health *spin-offs* in Catalonia, by origin (2025)

Universities

VIRTEST · IEL · ColorSensing tracking true colors · IMMERSIUM studio · DEKINES · eyem · fedder · WIVI VISION · EOX SENSE · renalyse · UP2SMART · abcd · amalfi analytics · virmedex · tensormedical · NEUREKALAB · able human motion · BrainFocus · LogMeal

Hospital, biomedical and healthcare research centres

Health Circuit · ATHENA · Predictheon · AIS · timeisbrain · abcd · doole health · omniscope · Nora Health · HealthTech Innovations · aimsmedical · renalyse · MANINA MEDTECH Boosting IVF Success · Anais Medical · epHion health · seqeralabs · tensormedical · myosafe · trackyourmed · Tailor Surgery · RRR

Research and technology centres

sweanty · one care ai · datision · epHion health · INBRAIN NEUROELECTRONICS

Note: the chart is based on the total number of identified origin centres. A single *spin-off* may be associated with more than one origin centre.

Source: ACCIÓ, based on Barcelona & Catalonia Startup Hub

Talent in Catalonia

Catalonia has universities that offer bachelor's degrees, master's degrees and postgraduate programmes providing knowledge applicable to digital health.

Degrees

- Bioengineering
- Bioinformatics
- Biotechnology
- Human Biology
- Applied Data Science
- Data Science and Engineering
- Biomedical Engineering
- Computer Engineering
- Health Engineering
- Artificial Intelligence
- Software Applications Techniques

Master's degrees

- Omics Data Analysis
- Automation and Robotics
- Bioengineering
- Bioinformatics
- Bioinformatics and Biostatistics
- Bioinformatics for Health Sciences
- Advanced Biotechnology
- Biomedical Data Science
- Medical Image Computing
- Cybersecurity in Healthcare Environments
- Biomedical Engineering
- Computational Biomedical Engineering
- Big Data Engineering
- Computer Engineering
- Foundations of Data Science

Catalan universities with digital health training

UAB Universitat Autònoma de Barcelona
Universitat de Barcelona
Universitat de Girona
ulc barcelona
Universitat de Lleida
UOC Universitat Oberta de Catalunya
UPC
upf. Universitat Pompeu Fabra Barcelona
Universitat Ramon Llull
laSalle Universidad Ramon Llull
Universitat Rovira i Virgili
UVIC Universitat de Vic Universitat Central de Catalunya

Studies specialising in digital health

UAB Universitat Autònoma de Barcelona
Universitat Rovira i Virgili *
UPC
laSalle Universitat Ramon Llull

- **Master's in Artificial Intelligence and Big Data in Health**
- **Master's in Health Data Science**
- **Postgraduate in Digital Health Leadership**
- **eHealth Master's programmes**

* inter-university master's degree led by URV

Source: ACCIÓ

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4.3 Support agents and initiatives

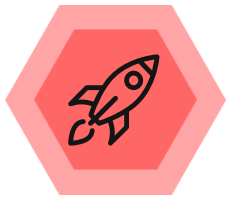
Digital health ecosystem agents in Catalonia

barcelonaβeta BRAIN RESEARCH CENTER · Barcelona Supercomputing Center · CIDAI Centre of Innovation for Data tech and Artificial Intelligence · CREB UPC Universitat Politècnica de Catalunya BarcelonaTech · CRG Centre de Regulació Genòmica · CVC Computer Vision Center · eurecat 10 anys · Hospital del Mar Research Institute Barcelona · i2cat · IBEC Institute for Bioengineering of Catalonia · IDIBAPS · IDIBELL · IDIBGI Institut d'Investigació Biomèdica de Girona Dr. Josep Trueta · IGTP Institut de Recerca Germans Trias i Pujol · IIIA-CSIC · CSIC · IISPV Institut d'Investigació Sanitària Pere Virgili · Institut Guttmann · IRB Barcelona · IRB Lleida Institut de Recerca Biomèdica · ISGlobal Instituto de Salud Global Barcelona · Institut de Robòtica i Informàtica Industrial · LabORA · LEITAT managing technologies · Parc Taulí Institut d'Investigació i Innovació I3PT · SJD Sant Joan de Déu Institut de Recerca · Sant Pau Campus Salut Barcelona · Institut de Recerca Sant Pau · eHealth Center · UOC Universitat Oberta de Catalunya · Vall d'Hebron Institut de Recerca

Research and technology centres, and hospital research institutes

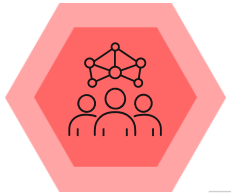
UAB Universitat Autònoma de Barcelona · Universitat de Barcelona · Universitat de Girona · UIC barcelona · Universitat de Lleida · UOC Universitat Oberta de Catalunya · Barcelona Digital Talent · UPC · upf. Universitat Pompeu Fabra Barcelona · Universitat Ramon Llull · laSalle Universidad Ramon Llull · Universitat Rovira i Virgili · UVIC Universitat de Vic Universitat Central de Catalunya · BTS Barcelona Technology School

Universities and training centres



cimti · d-HEALTH BARCELONA Training the next generation of healthcare innovators · Ship2B Foundation · wayra Telefónica · Healthcare Living Lab Catalonia · CRAASH BARCELONA Transforming technologies into health solutions · The Collider · TecnoCampus StartHealth Aceleradora de start-ups de salud · IAM3DHUB · think in3D Mataró

Acceleration programmes and incubators



Beauty Cluster · Barcelona Madrid Health Hub · BIOINFORMATICS BARCELONA · bist · Catalonia.health Science, innovation, business · Clúster Digital · Digital Health Connector · <norrsken> · Fenin · HiSS · LAUNIÓ · i4KIDS · INDESCAT catalan sports cluster · Fundación iSYS · Tech Barcelona · Societat Catalana de Salut Digital · WE MIND Cluster · XTS Xartec Salut · Xarxa TECSAM · 4DHealth Innovation Simulation Center · aVi · aces Associació Catalana d'Entitats de Salut · iBé Hub d'innovació pel benestar de les persones

Associations, networks and clusters

ACCIÓ Catalonia Trade & Investment · Generalitat de Catalunya · Agència de Qualitat i Avaluació Sanitàries de Catalunya · Generalitat de Catalunya Comitè d'Avaluació, Innovació i Reforma Operativa del Sistema de Salut · biocat · eit Health · tecnio Associació · CST Consorci Sanitari de Terrassa · Agència de Ciberseguretat de Catalunya · Generalitat de Catalunya Departament de Salut · Salut Servei Català de la Salut · Generalitat de Catalunya Fundació TIC Salut i Social · Barcelona Activa · Fundació Puigvert · DSC Consorci de Salut i Social de Catalunya · CERCA Centres de Recerca de Catalunya · Parc Sanitari Pere Virgili · Col·legis de Metges de Catalunya · Consell de Col·legis de Metges de Catalunya

Institutions and Public Administration

Source: ACCIÓ

ACCIÓ Catalonia Trade & Investment

Generalitat de Catalunya Government of Catalonia

CataloniaConnects

Associations, networks and clusters in digital health in Catalonia (I)

Generalitat de Catalunya
Fundació TIC Salut i Social

The Fundació TIC Salut i Social is an organisation that works to promote the development and use of ICT and networked working in the field of health and social well-being. It acts as an observatory of new trends, innovation and emerging initiatives, while also providing standardisation and product certification services to ensure integration within the healthcare system.

Agència de Qualitat
i Avaluació Sanitàries de Catalunya

AQuAS (Catalonia Health Quality and Assessment Agency) aims to provide knowledge to support evidence-based decision-making within the Catalan health system. It has a data and AI area that promotes governance and the optimisation of secondary data use for the system. In this context, it is driving the creation of the Office for Access to Secondary Use Data in Health in Catalonia (ODAS2).

biocat

Biocat is the leading organisation driving the health innovation ecosystem in Catalonia, working to scale and consolidate the sector and generate economic and social impact, as well as positioning the Catalan BioRegion as an international benchmark. It was created in 2006 as a public–private foundation, with governing bodies including representatives from all sector stakeholders, both public and private.

BARCELONA|MADRID
HEALTH HUB

The Barcelona & Madrid Health Hub is a non-profit association founded in 2018 in Barcelona that promotes innovation and digital transformation in health. Also present in Madrid since 2025, it works to connect startups, companies, health institutions, universities and investors to accelerate the digitization of the sector. It currently has more than 650 members and has expanded its facilities.

Catalonia.health
Science, innovation, business

Catalonia.Health is a cluster that boosts the competitiveness of the biomedicine and health sector. It promotes research, development and innovation to generate biopharmaceutical products and services, medical technologies and digital health solutions. It brings together more than 200 leading companies and organisations, and fosters collaboration between startups, companies, investors, research centres and hospitals.

WE MIND
Cluster

The WeMind Cluster promotes collaborative initiatives to advance autonomy in mental health, neuroscience and ageing. It brings together nearly 100 members, including hospitals, research centres, companies, universities and organisations. It promotes projects such as MindSyst, based on secure data exchange, AI and sector collaboration within digitalisation programmes.

Note: illustrative selection

Associations, networks and clusters in digital health in Catalonia (II)

Tech Barcelona

Tech Barcelona is a private non-profit association that structures and promotes Barcelona's digital and technology ecosystem. Its mission is to connect startups and entrepreneurs with corporations, investors and other key stakeholders to foster sector growth. In 2023, it launched Pier 07, a business innovation hub in the field of health and life sciences.

The Catalan Digital Health Society (SCSD) aims to inform, debate, facilitate and accelerate the implementation of digital transformation models in health and social services in Catalonia. SCSD serves as a meeting point for professionals, institutions and companies to promote the adoption of emerging technologies, share knowledge and advance best practices in the digitalisation of the health sector.

4DHealth INNOVATION SIMULATION CENTER

The 4D Health Innovation Simulation Center is a hospital simulation centre dedicated to training and upskilling healthcare professionals in a realistic environment. It offers a wide range of tailored services adapted to each client's needs, aimed at improving clinical preparedness and patient safety. It also develops innovation projects focused on the creation and validation of new medical technologies, care protocols and healthcare intervention methodologies.

XARXA TECSAM

TECSAM is a network that brings together research teams, healthcare institutions and companies to promote innovation in mental health. It transforms scientific advances into solutions for better detection, treatment and management of mental disorders. It acts as a meeting point between researchers and companies, facilitates knowledge transfer and synergies, and provides support in funding, entrepreneurship and the implementation of new technologies.

XTS XARTEC SALUT

XARTEC SALUT is an innovation network in health technologies in Catalonia that brings together research centres, hospitals and companies to foster knowledge transfer and technological solutions. It promotes innovative projects to improve healthcare and well-being, and provides support in entrepreneurship, funding and commercialisation strategies to facilitate the implementation of new medical technologies.

Note: illustrative selection

Digital health initiatives in Catalonia

Digital Health Strategy 2025-2031

It sets out the **roadmap** for the **digital transformation** of the **healthcare system** over the coming years.

Shared health record

Brings together documents containing data and information about a person's health status throughout the **care process.**

Video consultation

A non-face-to-face **care channel** that allows healthcare professionals **to remotely attend** to patients via **video call.**

La Meva Salut

A **personal digital health space** that allows users to **access their medical records.**

Health/AI Programme

A programme to **promote** and **develop AI** in the healthcare system, centred on the individual.

Innovative Public Procurement (IPP)

A **public procurement** instrument that fosters **innovation** as a key lever.

Health Services Integrator iS3

A technological interoperability platform for managing care processes.

Clinical validation centre for digital solutions

Provides support **for co-design, testing and validation** of innovative healthcare technologies in **hospital settings.**

Clinical image capture and integration

A service for healthcare professionals so that **clinical photographs can be added** to patients' **medical records**.

Programme for Access to Innovation in the Catalan Health System (PASS)

An initiative to transform how **innovations** and **technologies** reach the Catalan healthcare system.

Comprehensive cybersecurity model for the healthcare sector

A tool to promote **cybersecurity** and reduce exposure to current **cyber threats** in the healthcare environment.

Catalan Health Data Space

A technological platform to**integrate**, **store** and **exploit** health data securely, traceably and interoperably.

Note: non-exhaustive list; the most representative initiatives have been considered.

For more information:

ACCIÓ Catalonia Trade & Investment

Generalitat de Catalunya
Government of Catalonia

Source: ACCIÓ

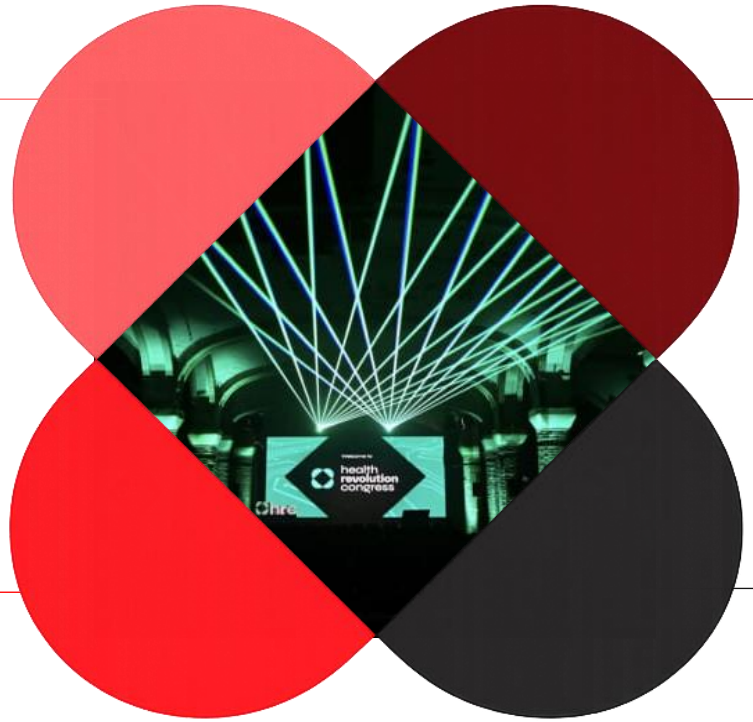
CataloniaConnects

Health Revolution Congress

The **Health Revolution Congress** is the **leading European congress** in digital health, organised by the **Barcelona Health Hub**, which connects key stakeholders across the healthcare sector.

Participants and **ecosystem**:

- Startups, companies and professionals
- **Internacional** healthtech ecosystem
  - Creates a space for **connection and collaboration**



Over 3,000 attendees

Over 250 speakers

Over 15 stages

Over 50 countries

2 days of events

The event is **aimed** at:

- **Promoting digital technologies** applied to health
- Fostering **strategic collaborations**
- **Driving impact** and **transformation** in healthcare system

Partners:

Fundació Privada Hospital de la Santa Creu i Sant Pau

ACCIÓ Catalonia Trade & Investment

Generalitat de Catalunya

Barcelona

SANT PAU Campus Salut Barcelona

DFACTORY BARCELONA

ACCIÓ Catalonia Trade & Investment

Generalitat de Catalunya
Government of Catalonia

Source: Health Revolution Congress

CataloniaConnects

ACCIÓ promotes the connection of the Catalan digital health and innovation ecosystem at the HRC Open Innovation Challenge

The **Open Innovation Challenge** is a **B2B matchmaking** event within the **Health Revolution Congress** that connects **companies and public entities** with **startups** and **technology providers**. It includes personalised **1:1 meetings**, direct access to decision-makers, real **collaboration** opportunities, and a hybrid format combining in-person and virtual meetings.

The 2026 Challenge Owners

suara COOPERATIVA
DKV
althaia Xarxa Assistencial Universitària Manresa
Gebro Pharma El laboratorio de los Alpes
REIG JOFRE TRADITION OF INNOVATION
Salut/
Germans Trias i Pujol Hospital
CSC Consorci de Salut i Social de Catalunya
HOSPITAL-ASIL DE POBRES I MALALTS Fundació privada
doole health
werfen
ROCA GROUP
Bayésconsultori Centre mèdic Vic
HARTMANN
Guttmann

Main challenges identified by participating companies

- 7 **Artificial intelligence** applied to healthcare and life sciences
- 3 **Person-centred** care, patient **experience care delivery**
- 4 **Telemedicine**, **remote** monitoring and **home** care
- 2 **Bioinformatics**, **omics** and scientific **modelling**
- 4 **IoT**, **sensors** and **smart** environments for healthcare
- 1 **Sustainability**, **efficiency** and **environmental** management in healthcare

More information:

Source: HRC Open Innovation Challenge 2026

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4.4 Deployment of digital health

Survey on the implementation of digital health solutions in the Catalan healthcare sector (I)

The survey conducted among around ten Catalan hospitals and healthcare centres shows how the **incorporation of digital tools is a strategic lever for transforming the healthcare system**, with real impact and a clear commitment to continuing progress in implementation.

The most widely implemented technologies are **video consultations**, **clinical data integration**, **and robotic surgery**.

Primary care, **diagnostic imaging** and **chronic disease management** are leading the expected impact of digital health.

The main impact will be on **innovation**, followed by **efficiency**, care **quality** and **decision-making**.

High or very high **acceptance** of implemented technologies (**professionals and the public**)

Agentic AI, **augmented reality** and **teleassistance:** currently in the pilot phase, with implementation expected soon.

100% expect an increase in the **level of implementation** of digital health solutions

! **80%** Of the entities assess their digital maturity as **moderate**

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Hospital de la Santa Creu i Sant Pau
Clínic Barcelona
Hospital General de Granollers
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Parc Sanitari Pere Virgili
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Serveis de Salut Integrats Baix Empordà
SJD Sant Joan de Déu Barcelona · Hospital
FUNDACIÓ HOSPITAL DE PUIGCERDÀ

Note: data obtained from a survey completed by 10 hospital and healthcare centres.

Source: ACCIÓ, based on the survey of hospital and healthcare centres

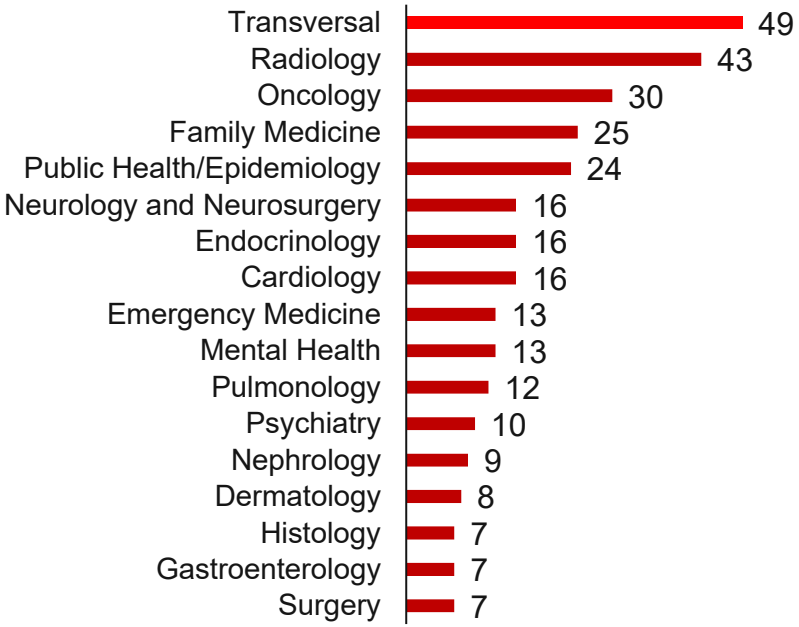
AI tools in healthcare in Catalonia

Healthcare is currently undergoing a **transformation** driven by the **incorporation of AI**, with **184 identified tools**, most of them at an **intermediate** level of **technological maturity**, and with a clear predominance in the **hospital setting**. **Application** is **cross-cutting**, especially in areas such as **oncology** and **radiology**, with participation from both **public** and **private** entities.

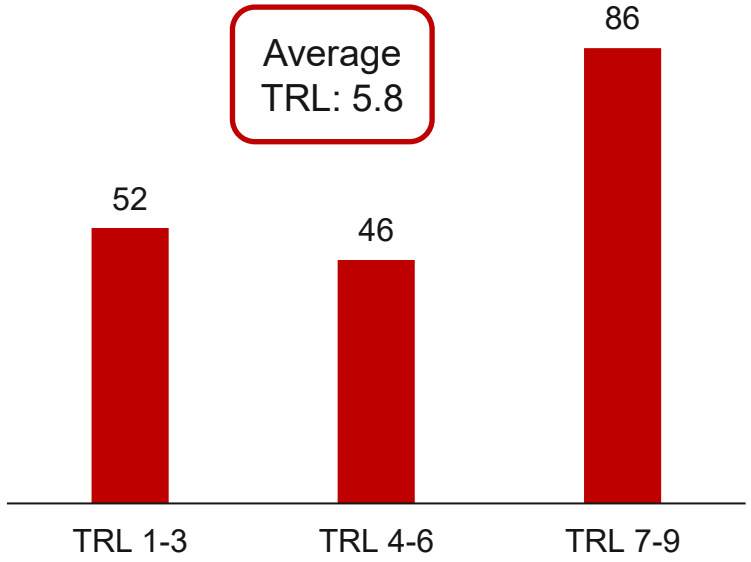
184 tools

86 entities

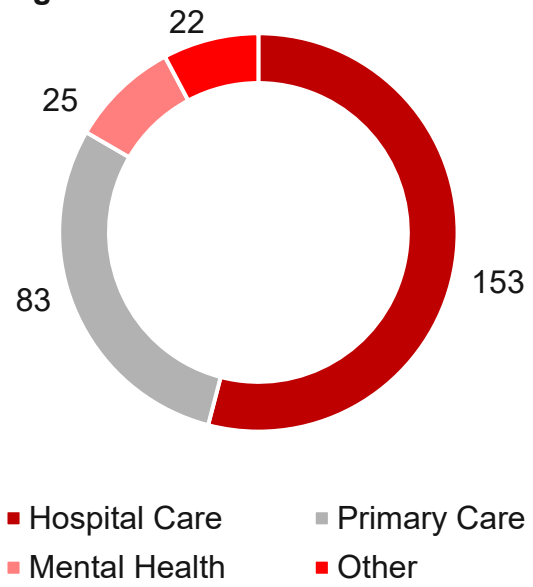
Medical specialties



Technological maturity of the tools



Care setting



Source: AI in Health Observatory. Programme for the Promotion and Development of Artificial Intelligence in the Health System. Fundació TIC Salut i Social, Government of Catalonia, December 2025

Key data on non-face-to-face care in the Catalan healthcare system

Primary care

In **primary care, in-person visits** predominate (61%), with significant use of **telephone consultations** and **administrative interactions without patients** within non-face-to-face care.

Hospital care

In **hospital care**, **in-person care** is even more predominant (77.7%), with telemedicine mainly focused on **telephone consultations**.

Mental Health

In **Mental Health**, although there is still a clear predominance of **in-person care** (69.2%), non-face-to-face care also plays a major role, led by **telephone** and **virtual/ICT consultations**.

061 Salut Respon

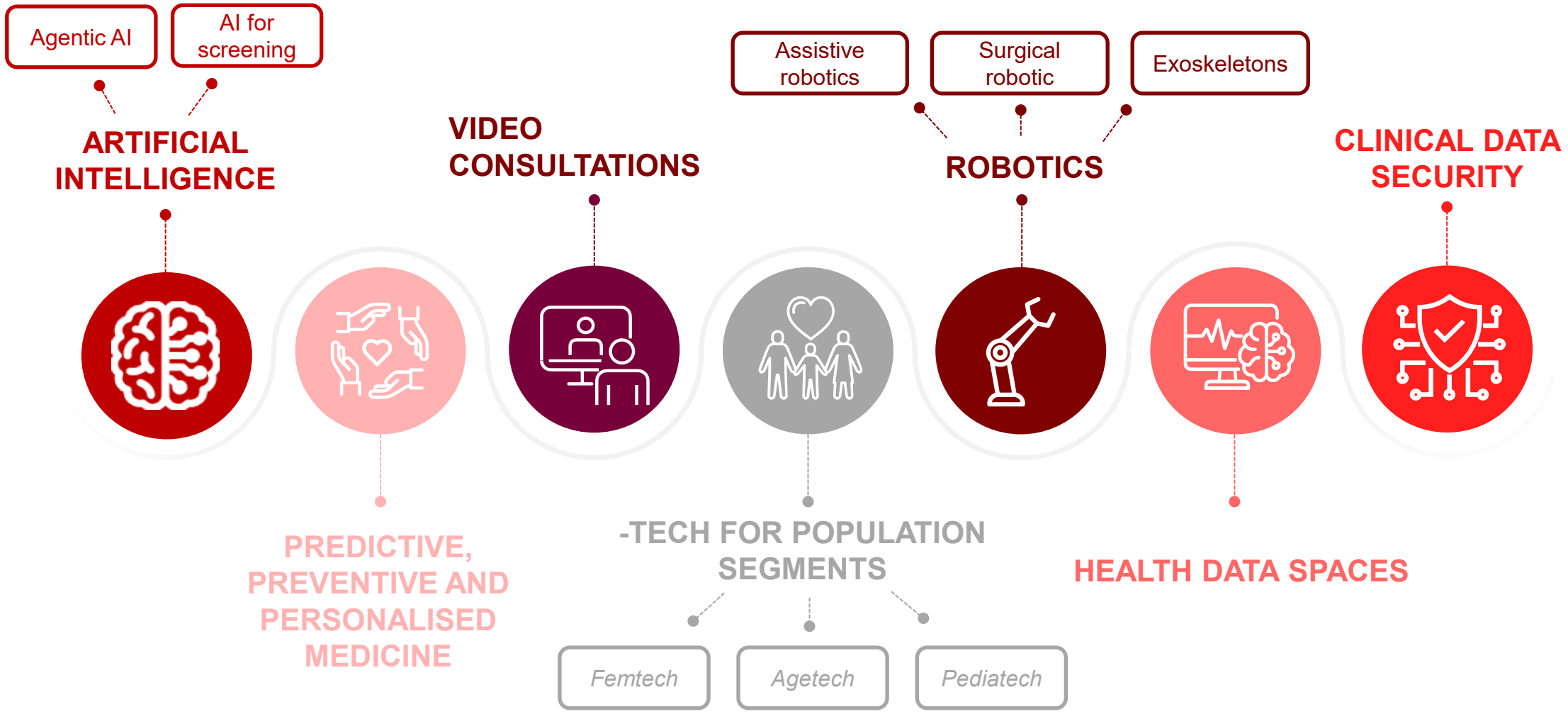
Within the **061** Catalan public health helpline service, the vast majority of consultations are **healthcare-related** (78.5%), and half **do not require mobilisation of resources**, reinforcing the consolidation of non-face-to-face care.

Note: NFC Non-face-to-face care, PC: Primary care, HC: Hospital care, MH; Mental Health

Source: Fundació TIC Salut i Social

4.5 Trends and success stories

Digital health trends



Digital health trends: success stories in Catalonia

Hospital del Mar has created Spain's first public AI software for detecting potential breast cancer cases from mammograms.

Predictheon has created an AI-based system that provides predictive information to anaesthetists to anticipate patient complications and reduce them by up to 80%.

Mediquo is a company specialising in telemedicine that connects patients and healthcare professionals through chats, video calls and video consultations.

Coti is an application designed to facilitate communication and digital inclusion for both older people and those with cognitive or technological difficulties.

LabORA is an open laboratory dedicated to research and development in assistive robotics to improve care in homes, residential facilities and hospitals.

L'**Catalan Health Data Space** is an infrastructure promoted by the Government to integrate and manage healthcare data securely.

The **Puigvert Foundation** is the first public healthcare centre in Catalonia certified in healthcare cybersecurity by the Catalan Cybersecurity Agency.

AXIA is an AI assistant developed by the Department of Health that helps healthcare professionals analyse clinical information, generate summaries and support decision-making.

ARTEMIs is a European project involving the **Hospital Vall d'Hebron** that uses digital twins to study fatty liver disease in a personalised way.

MeetingDoctors provides telemedicine and digital health services and operates internationally. Its B2B/SaaS platform enables access to online medical consultations.

AYRA is a project led by Catalonia.health and the KID'S Cluster, which studies the impact of indoor air quality on children's respiratory health.

Hospital Germans Trias i Pujol has created Europe's first programme integrating immersive technologies and robotic surgery in 24-hour emergency care.

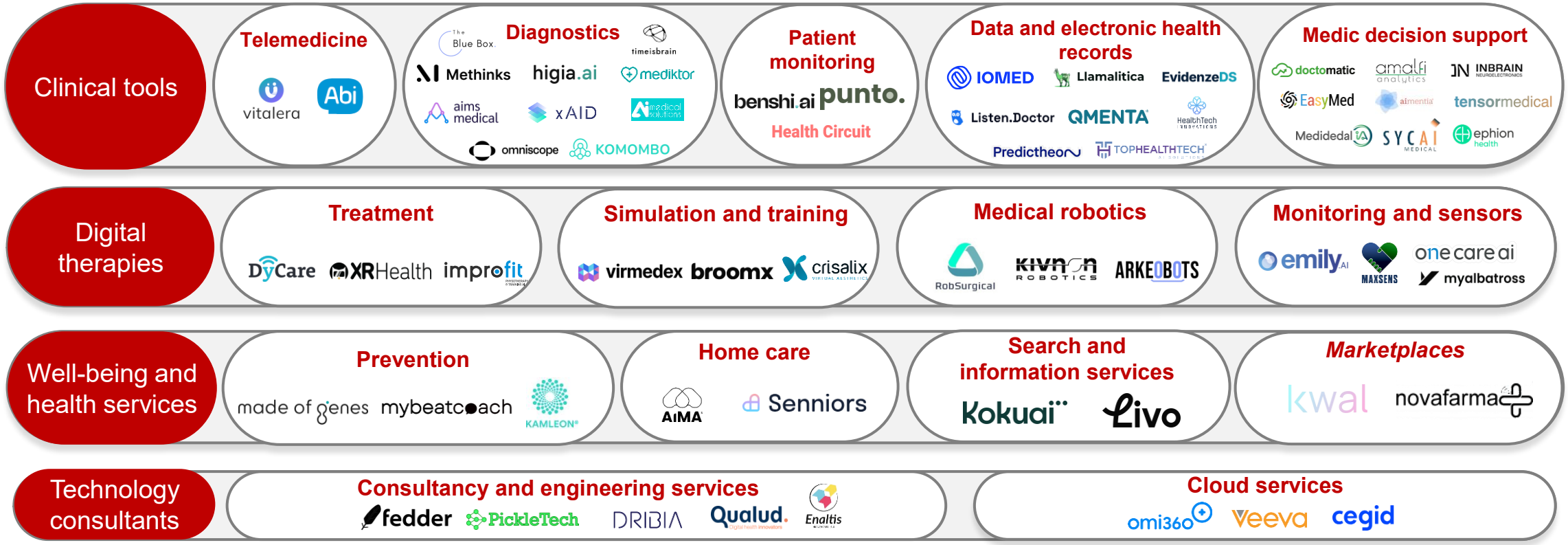
Evidenze is a technology platform that creates a secure and interoperable health data space to promote clinical research and innovation in digital health.

Allpriv is a cybersecurity company that has created Cyber-Brick, a module designed to protect medical devices, one of the main entry points for cyberattacks.

Digital health trends: incorporation of artificial intelligence in Catalonia

271 Catalan digital health companies, representing **65%** of the total, incorporate artificial intelligence into their products or services, an increase of 23.5 percentage points compared to the previous year.

Main applications:



Note: partial illustrative image

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Source: ACCIÓ CataloniaConnects

Digital health trends: digital tools by population segment in Catalonia

Femtech

48 companies
(↑ 118.2% compared to 2025)

Dana · Embioth · DOMMA · Happy Sneeze · The Blue Box. · Manina Medtech · Qualud. · LactApp · pregg.app

Agetech

53 companies
(↑ 96.3% compared to 2025)

AIMA · Durcal · cuideo · Reality telling · Cuore Care · ephion health · Seniors · Familyar · ima · Qida · OXEEN · Tunstall · SMART SILVER TECH · vitalera · SENIORDOMO · ARKEOBOTS · punto.

Pediatech

52 companies
(↑ 73.3% compared to 2025)

CHANGE DYSLEXIA · Braingaze · AVARU. · nen · Nixi for children · The Smart Lollipop · WIVI VISION · VRPharma Virtual Reality for Patient Care · zoundream

Note: partial illustrative image

Source: ACCIÓ

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4.6 Opportunities and challenges

Opportunities and challenges of digital health in Catalonia

Opportunities

Strengthen the maturity of a pioneering healthcare ecosystem

Consolidate the leadership and reputation of the Catalan healthcare system as a benchmark in innovation and research

Promote an innovative and dynamic business ecosystem

Foster a growing business ecosystem, with an expanding startup network, and boost the attraction of technology investment

Achieve mass adoption of AI

The Catalan healthcare system is incorporating AI, and its full implementation has the potential to transform the system

Transform healthcare through sensors and robotics

Sensors and assistive robotics, both in healthcare centres and in homes, enable continuous remote patient monitoring

Accelerate significant improvements for patients through personalised medicine

Improve the quality of care through healthcare tailored to each patient thanks to digital tools

Challenges

Scale up technology providers

Consolidate and scale up local technology companies that support the healthcare system in the face of major global technology players

Enable secondary use of healthcare data

Access anonymised health data to support research and innovation, particularly AI-driven innovation

Ensure accessibility for all patients

Avoid inequalities and ensure that all citizens can benefit from digitalisation

Talent management and adaptation to change

Need to improve and update healthcare professionals' skills and foster a working culture open to innovation

Expand the availability of notified bodies

The existence of a single notified body in Spain makes it difficult for digital health solutions to reach the market

Source: ACCIÓ

Acknowledgements to institutions

We would like to thank the institutions listed below for their availability and for providing data and information for the preparation of this digital health technology report in Catalonia:

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Clínic Barcelona
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Corporació de Salut del Maresme i la Selva
Fundació Hospital de Puigcerdà
Hospital de la Santa Creu i Sant Pau
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Thank you!

More information about the sector and related news:
https://catalonia.com/key-industries-technologies/technologies/digital-health-in-catalonia

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