ECHAlliance The Global Health Connector Spanish Presidency Connector

Showcasing our Spanish ECHAlliance community







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INTRODUCTION



by ECHAlliance Chair Brian O' Connor

After the Swedish Presidency, it is now Spain's turn to complete 2023.

These 6 months offer us a unique opportunity to showcase our members and ecosystems in Spain, where we have a large network and where we usually hold some of our flagship events throughout the year.

The Spanish Presidency of the Council of the European Union gives us the opportunity to connect even more with our members and ecosystems as our network in Spain has grown substantially in the last two years.

The objectives of the Spanish Presidency are to re-industrialise the EU and guarantee its open strategic autonomy, to advance in ecological transition and environmental adaptation, to promote greater social and economic justice and to strengthen European unity. These points are more necessary than ever with the war in Ukraine that we are still living through and the need to strengthen the European spirit and move forward together towards a promising future.

The COVID-19 pandemic pointed the way for the European Union to develop joint plans and to act in a more coordinated manner in the face of cross-border health threats. At ECHAlliance we work to break down silos and connect all our members in our global network to exchange ideas and grow.

We are very happy to be able to highlight our wide network in Spain and connect even more our members and ecosystems with our face-to-face ECHAlliance Spanish Ecosystem Gathering, which will take place in Barcelona on 22-23 November 2023.

We look forward to seeing you all there!

PRIORITIES OF THE SPANISH EU PRESIDENCY

The Spanish Presidency of the Council of the European Union has set forth a comprehensive agenda aimed at addressing critical issues and advancing the well-being of European citizens. These objectives reflect the ongoing commitment of Spain to strengthening the European Union's capacity to respond effectively to health challenges. Here are the key objectives of the Spanish Presidency on health:



Pandemic Response and Preparedness

The Spanish Presidency recognizes the importance of a coordinated EU response to pandemics. It seeks to enhance the EU's capacity to respond swiftly to health crises, including by strengthening the <u>European Health Union</u>. This involves improving preparedness, facilitating the sharing of best practices and ensuring the availability of essential medical supplies. Building more resilient health systems is a priority. The Spanish Presidency seeks to reinforce healthcare infrastructure and promote cross-border collaboration to ensure that Member States are better equipped to handle future health emergencies.



Vaccination Strategy

Spain aims to continue the EU's efforts to ensure equitable access to COVID-19 vaccines for all Member States. This includes supporting vaccine production, distribution and vaccine diplomacy to help overcome the pandemic globally.



Mental Health

Recognizing the increasing importance of <u>mental health</u>, the Spanish Presidency plans to prioritise mental well-being and reduce stigma. This includes promoting mental health awareness, providing support for those in need, and fostering research in this field.



Digital Health

The use of digital technologies in healthcare, such as telemedicine and health data sharing, is vital. Spain aims to promote the development and adoption of digital health solutions across the EU, ensuring that these technologies improve patient care and healthcare efficiency. Recognising the interconnectedness of human, animal, and environmental health, Spain aims to promote a One Health approach that integrates the health of animals, people and the planet. Also, Spain will push for progress to be made in terms of the future of the European Health Data Space.



Health Inequalities

Addressing health inequalities within and among Member States is a fundamental objective. Spain intends to work on strategies to reduce disparities in healthcare access and outcomes, with a focus on vulnerable populations.



Pharmaceutical Policy

The Spanish Presidency seeks to advance a common EU pharmaceutical policy that ensures affordable and equitable access to essential medicines while promoting innovation and research in the pharmaceutical sector.



Research and Innovation

To drive progress in healthcare, the Spanish Presidency will support initiatives that promote research and innovation in health, including funding mechanisms and collaboration with the private sector.

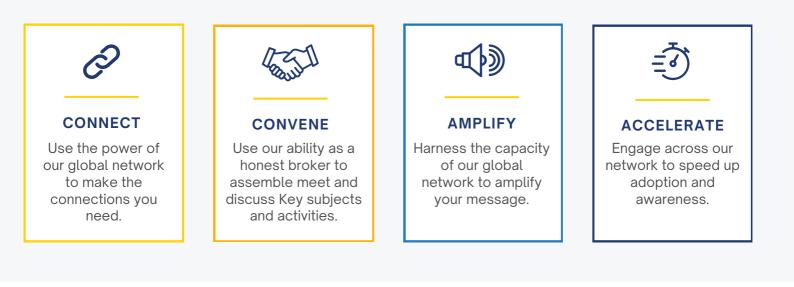
These objectives reflect Spain's dedication to advancing health as a top priority during its Presidency of the Council of the European Union. By working closely with other Member States and stakeholders, Spain aims to ensure that the EU remains a global leader in public health, pandemic response and healthcare innovation, ultimately enhancing the well-being of all European citizens.

DISCOVER ECHALLIANCE

ECHAlliance- The Global Health Connector

ECHAlliance is a not-for-profit organisation operating as both a Community Interest Company (CIC) registered in the UK (Belfast, Ireland) and a Company Limited by Guarantee in Dublin, Ireland.

Our global network of digital health alliances connects 78 countries and 8 billion people from Europe, the US, Canada, China, India, Africa, Asia, the Caribbean, Latin America and the Pacific.



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How does ECHAlliance work?



We will use our network of over 1,100 members, 80 ecosystems and global partners to directly connect your organisation to potential customers, providers, collaborators, policy makers, patient organisations and research organisations. You can utilise our networks as an intelligence and implementation infrastructure for your organisation. In particular our international ecosystems are amazing landing zones for your organisation to make direct connections in new countries and regions.



CONVENE

As an honest broker we have the ability to work across different silos and harness expertise, opinion and need from across our network. We can help you engage multi stakeholder involvement in large impactful settings with a truly global audience. With either multi stakeholder conference activities or with invitation only Round Table gatherings. We can offer you in person experiences or online gatherings.



AMPLIFY

We have the ability to amplify your innovation, need or solution with collaboration opportunities using a variety of channels. Our member to member newsletters reaches over 1,000 organisations globally, our monthly newsletter lands with 22,000+ experts, the ECHAlliance Social Media channels and the social media channels of key influencers within our group are all trusted neutral platforms which generate engagement and activity across a global network. These communication services have the ability to scale your activities.



ACCELERATE

We can use our community to accelerate health innovation from region to region and continent to continent. Utilising the connections within our ecosystems network, our members and global partners to help scale up your solutions.

ECHALLIANCE ECOSYSTEMS IN SPAIN

Our work in Spain has been over may years and we have not only a large member community but a strong and growing ecosystem network that has changed and adapted as organisations grow and develop.

In addition, we have worked with a variety of different player who each lead our Ecosystems in Spain whether it be regional governments, health clusters or other organisations.

This adds to the richness within the diversity of our ecosystem network and we see the vast differences in Ecosystems in the Basque Country to that in say Galicia or Extremadura. Some have a large focus on specific health care areas, such as life sciences or some on projects. All are funded differently but all share the same desire to connect with the rest of our network and collaborate across our whole network.

This manifests itself either in trade missions and learning expeditions in Galicia or European Funded projects such as in Extremadura or in setting up Thematic Innovation Ecosystems on the topic of Value-Based Healthcare Procurement such as in Catalonia.

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Galician Health Ecosystem

CLUSTER SAÚDE DE GALICIA

Visit website

Over twelve years promoting a greater positioning of the Galician health ecosystem; over a decade creating synergies between Galician companies, analysing their technological innovation processes and coordinating the economic and social development of an industry – health – that has only gained increasing importance in a post-covid-19 world. That could be a synthesis of the <u>Galician Health Cluster (Cluster</u> <u>Saúde de Galicia, CSG)</u>, an organisation that projects Galicia in Spain and in the world.

In spite of all the time that has passed, the CSG maintains its essence intact: making the Galician territory the best region for healthy aging. A large part of its actions and initiatives work towards that goal: supporting innovative solutions that improve people's wellbeing and respond to the needs of the sector.

"In addition to acting as a communication channel between users, providers and regulators, the Galician Health Cluster, CSG, is also an essential agent to promote the financing of innovative health projects," explains its Manager, <u>Gisela García-Álvarez</u>. For García-Álvarez, the CSG has provided a "relevant contribution to GDP and employment in Galicia".

Specifically, the CSG has more than 100 members who contribute over 7% of the Galician GDP and who are active in over 100 countries. Only the companies (not public entities) that are integrated into this platform already represent 75.6% of turnover, 35.1% of employment and 2.15% of companies in Galicia in the scope of activity included. All of this ultimately translates into 168,810 jobs and a turnover of more than 4,000 million euros, further boosting the health and care sector.

CSG's Services

In the Galician Health Cluster, CSG, high value-added services and projects have always been developed with the aim of increasing the scope in supporting the competitiveness of the Galician health ecosystem in general and of the <u>#CSG_Community</u> in particular, both within and outside their borders.

After their experience of over ten years working to promote the innovative ecosystem, they have identified the needs in the sector that required the following services to offer a solution:

- Testing and piloting, which is carried out through <u>ITGALL</u>, the network of private socio-sanitary Living Labs, and its collaborating partners.
- Internationalisation, which includes the <u>LEX (Learning Expedition) or study missions</u>, the <u>Forum RIES</u> (to be discussed later) and two European projects: <u>Senior Eco-Nect</u> and <u>EDIH DATAlife</u>.
- Strategic support and visibility, which encompasses the strategic activities of <u>CSG</u> <u>Connect</u>, <u>KIT Saúde</u> and the <u>Oficina Técnica Next Generatiom Galicia Health</u> and the start-up of collaboration with the Consellería de Sanidade; Consellería de Economía, Industria e Innovación and Consellería de Política Social y Juventud.

If you are interested, we provide you with the <u>corporate material</u> so that you can find out everything that the CSG is and is currently doing and meet all the #CSG_Community members.

About the VIII Forum RIES 2023 (#RIES23)

Currently, the CSG is focused on <u>#RIES23</u>, the international reference forum at a national and international level to address the challenges and opportunities of the health ecosystem. Led by the Galician Health Cluster, it has been created as a meeting forum between the main agents of the public and private health and care sectors at a European level in collaboration with our strategic partners of the #CSG_Community.

In this eighth edition, that will be held in the city of Vigo, the theme of the VIII Forum RIES 2023 (#RIES23) "Innovative care ecosystems" encompasses one of our main purposes: to be a professional platform for public-private collaboration between the different agents of the sector that promote innovative collaborative projects within our ecosystem of innovation in health and care.

#RIES23 focuses on highlighting the essential role played by health and care innovation ecosystems and their protagonists, a core value of our #CSG_Community. For this reason, this edition aspires to give voice, listen and get to know all the members of innovative ecosystems while delving into four topics of interest: Longevity, Biotech, OneHealth and Artificial Intelligence.

An opportunity that allows you to delve into the health ecosystem, but also into all its particularities. We invite you to participate in #RIES23, a different way of getting to know the Galician Health Cluster, CSG, and its way of promoting the Galician health sector.







Visit website

The Extremadura Health Ecosystem was created to promote research and innovation in the public health & care system in the region of Extremadura in Spain. The key objectives are enhancing the public-private collaboration as well as increasing the internationalisation of the health and care system.

The stakeholder ecosystem is as follows: FundeSalud is the research foundation part of the Regional Ministry of Extremadura's Health and Social Services that manages both research and training programs at the Regional Healthcare System (SES) and the Social Care System (SEPAD).

Other members in the Extremadura Health Ecosystem are Jesus Usón Minimally Invasive Surgery Centre (JUMISC), Extremadura Supercomputing, Technological Innovation and Research Centre (CENITS) and the Health Cluster of Extremadura.

Ecosystem partners are involved in several collaborations/projects funded by different EU programs from H2020, EU4Health, Horizon Europe and Interreg, including:

- JACARDI(EU4H Join Action)
- JAMRAI (EU4H Join Action)
- Care4Diabetes (EU4H Join Action)
- <u>ESSENCE</u> (H2020)
- <u>dRural</u> (H2020)
- <u>CRANE</u> (H2020)
- InnHospital (Interreg)
- <u>BioimpACE</u> (Interreg)
- Hospital Sudoe 4.0 (Interreg)
- EuroAGE (Interreg)

You can take a look at more projects FundeSalud is involved with here.

Due to the characteristics of the population in Extremadura, where individuals living with a disability or chronic disease are less likely to have access to highquality health services and programs compared to those in urban area, the Extremadura Health Ecosystem has key priorities mainly focused in Active and Healthy Aging in rural areas as well as chronic diseases. Nevertheless, innovation in hospitals and 3D bioprinting are areas of interest for the Extremadura Health Ecosystem.

Given the previous experience of the ecosystem in Active and Healthy Ageing, the Extremadura Health Ecosystem has been implementing small pilot experiences. For instance, <u>MoveCare project</u> implementations included only 4 experimental care providers to be available in different sites of the region. This work was continued in the project H2020 ESSENCE where the number of pilot sites were increased due to the reduction of the cost of each home integrated in this innovative service. They are now developing this advanced pilot care system for 60 locations and in the future they will scale up to more locations according to the demand.

The clinical supports in Extremadura are:

- The Perpetuo Socorro Hospital, Badajoz, the pilot site for the Hospital SUDOE 4.0 project, where many improvements in energy efficiency were implemented.
- Research and Innovation Commission at SES, that has been recently launched for coordinating research programs and innovative initiatives at the public Healthcare system in Extremadura.
- The Clinical Research Centre of Badajoz healthcare area (CICAB-INUBE) which develops the MEDEA project that involves the implementation of personalised medicine at the public regional healthcare system.













Castilla y León Health and Social Care Ecosystem



Visit website

The Castilla y León Health and Social Care Ecosystem, coordinated by the Cluster Innovative Solutions for Independent Living (SIVI, for its acronym in Spanish), is based in the region of Castilla y León, Spain. Castilla y León is a community with sociodemographic characteristics that position it as a genuine "social laboratory" and a profitable territory for the development of a reference model to promote the autonomy and social integration of dependent people.

For this reason, the ecosystem brings together a significant number of public and private organisations of the quadruple helix (providers of social-assistance services, technology companies, university research groups, technology centres and the third sector) with experience in the design, development and application of innovative technological solutions in the fields of active and healthy ageing, mental health, disability and independent living. It has a strong representation in the area of social services, the field of dependence and care as spaces to deploy the great potential of person-centred technology thereby contributing to the social and economic development of the territory. The ecosystem aims to make new and better services available to the entire care sector that are supported by a digital transformation process that complements and facilitates professional care. Its main objective is to improve the quality of life of people in situations of dependency through the application of innovative solutions with a high technological component and to boost and promote the competitiveness of the sector.

They are promoting the development of new technologies to support people through advanced remote assistance and co-creation processes for the development of prototypes of various technical assistance which have been executed through innovative public procurement processes. The multisectoral nature of the ecosystem allows it to cover all stages of an innovation project: conception, design, development, testing in application groups, exploitation of results and marketing. The year 2022 was a year of take-off for the ecosystem. A period marked by the Next Generation funds, the growth of its own staff and the number of associates as well as collaborative work. Thanks to this, the ecosystem held the Great Summit FITECU - The First International Fair of Innovation and Technology at the Service of Care from February 23-25, 2022, in Villardeciervos, Zamora, Spain. A successful event with 1,800 attendees (in person and online), with 24 hours of content, 20 exhibiting companies of first level and 35 speakers of recognized prestige participating in the 7 tables of discussion, with 4 international speakers from 4 continents.



Among all the actions, it is worth mentioning the support of the Regional Ministry of Family and Equal Opportunities for the implementation 2022-2023 of the "Push Hub SIVI Program" to foster the development of open innovation in the care services sector. This promotes collaboration between third sector entities and the technological business network of the region with the dual purpose of developing innovative solutions that facilitate the independent living of people, while fostering the competitiveness of organisations that provide services and develop technology in Castilla y León, thereby contributing to the social and economic development of the region.

Additionally, the ecosystem has driven the Talent Sen project (Senior Talent of Castilla y León) to improve society by promoting economic and social innovation, through the enhancement of knowledge and talent of senior people aged 55 and over, experts in social, health and business advice as well as to boost competitiveness, specialisation and differentiation of companies and public and private social organisations in the Health and Social Care Ecosystem of Castilla y León. For its development they have created an accredited network of senior professionals with extensive experience and the ability to add value and respond to the needs of companies, social organisations and services. Senior professionals have a culture of effort, discipline and the ability to face challenges and can offer advice, knowledge and support, both for existing companies and start-ups. The project focuses on a) people and customer-centric approach; b) contributing to society by providing solutions that improve people's lives; c) co-creation, as a form of collaborative innovation; and d) building solutions with people who have a life project that values the past and are involved with a better future.

The SIVI Cluster has been recognized as a European Reference Site with the highest award of 4 stars in the last call of the European Innovation Platform for Active and Healthy Aging (EIP on AHA). It has also sponsored the recognition of the Ministry of Family and Equality of the Junta de Castilla y León, Spain, as the first Public Administration to be awarded the prize for the most effective Policy Action for business collaboration for the PushHUB SIVI Innovation Promotion Program within the National Clusters Congress 2022 held within the framework of the V National Congress of Industry 4.0.





Esta iniciativa se enmarca dentro del Programa Push Hub SIVI mediante el cual la Gerencia de Servicios Sociales apoya divensas actuaciones desarrolladas por el Clúster en el ámbito de difusión, la formación, mentoring, prospección, colaboraciones, etc. para promoción de la innovación tecnológica en el sector de los aervicios acolales.

<u>Madrid Digital Health-</u> Biosciences Ecosystem



Visit website

Who we are

Madrid Digital Health-Biosciences Ecosystem, also known as DIH·bio ecosystem, is led by the Universidad Autónoma de Madrid and committed to fostering the effective engagement of quadruple helix stakeholders (public authorities, industry, academia and citizens) to accelerate the digital transformation in the field of biosciences and health in the region of Madrid.

DIH·bio is a European Digital Innovation Hub (EDIH) at the head of Madrid Digital Health-Biosciences Ecosystem whose mission is to help solve health-related challenges by combining different areas of knowledge such as science and technology.

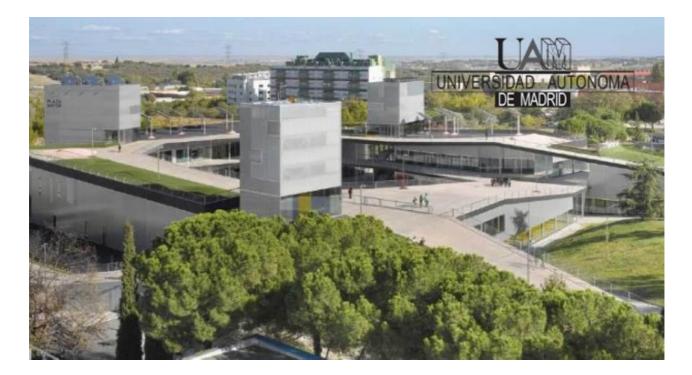


The cardinal points that define DIH·bio ecosystem are:

- **Digital Innovation:** Promote and facilitate the digital transformation of SMEs, startups and other private and public entities of the health sector in their R&D&I processes and services.
- **Digital bio-health:** Accelerate innovation, entrepreneurship and digital transformation in the fields of biomedicine, biotechnology and health to build new healthcare models based on digital health.
- **Ecosystem:** Build a sustainable innovation ecosystem with an effective participation and networking among the main actors of the digital healthcare and biotech sectors that favours public-private collaboration.
- **Territory:** Contribute to the economic, technological and industrial development of the Community Madrid as a reference bioregion in Europe for digital innovation and entrepreneurship in healthcare and biotechnology.

What we offer

The ecosystem architecture is designed in line with the European Commission's Digital Europe Programme which aims to drive the digital transformation of industry and the public sector in Europe. In this context, we connect needs with solutions to support the development of strategic value chains, the expansion of SMEs and startups in the health innovation ecosystem of Madrid.



To this end, DIH·bio ecosystem acts as a first regional contact point or a one-stop-shop of services to support private and public entities of the healthcare and biotech sector in responding to digital challenges and becoming more competitive by using advanced digital technologies. We offer over 92 services divided into 4 main activities:



TEST BEFORE INVEST

Leading edge digital technology and infrastructure at the disposal of the ecosystem's SMEs and public entities stakeholders for testing before investing.



SKILLS & TRAINING

Training programmes to increase the digital skills and competitiveness of of the bio and health sector.



INNOVATION & NETWORKING

Creation of synergies between key actors of the innovation ecosystem to foster collaboration through knowledge and technology transfer.



SUPPORT TO FIND INVESTMENT

Support to find specialized private and public funding and tenders, investors and consultants for talent development and entrepreneurship.

Projects and initiatives

Horizon EIE-2021-CONNECT- DIHsP4_Medicine

DIHsP4_Medicine is a European project that seeks to create more connected, collaborative and efficient DIHs-led innovation ecosystems with the goal to identify key priority areas for application of advanced technologies in order to enhance the competitiveness of European health systems and promote the shift from a reactive healthcare approach to one based on the P4 medicine paradigm: predictive, preventive, personalised and participatory.

• Cluster of Biomedicine and Biotechnology (CITT-Bio) of the Comunidad de Madrid

DIH·bio is a member and co-founder of CITT-Bio, a cluster led by the Regional Government of Madrid that aims to boost the biomedical, biotech and technology expertise within the region to promote scientific progress, industry development and wealth.

• Research and Innovation Smart Specialisation Strategy – "Entidades de Enlace" ("Linking Bodies") Project 2021

A regional project to promote the transfer of knowledge, technology and technological innovation in Madrid, funded by the Comunidad de Madrid and European Regional Development Funds.

• EDIHs network by Digital Europe Programme

A European network comprising more than 200 EDIHs whose core mission is to build up the digital capacities of SMEs and public sector organisations throughout the European Union.

Health Entrepreneurship Programme

DIH·bio coordinates a yearly health entrepreneurship programme within the Universidad Autónoma de Madrid. This programme aims to foster entrepreneurship and talent creation in the field of biomedicine, health and biotechnology.

Aragón Health Ecosystem



Visit website

Arahealth, the Health Cluster in Aragón (Spain), comprises 50 bodies from the health sector: manufacturers, distributors, service providers and training and research centres who bring an innovative portfolio of added value products and services to their customers within the health sector.



With a yearly turnover of 7,000 million Euros, 9,000 employees and a presence in over 60 countries around the world, Arahealth unites all the features of its associates: experience, research, innovation and human resources, and is able to offer an integrated service and "turnkey" projects – from start to finish and beyond. This raises productivity and reduces costs in the various health projects, thus making Arahealth the best option as provider and strategic partner.

The Aragon Health Service Cluster operates in four spheres: biotechnology and pharmaceuticals, medical devices and health products, healthcare equipment, and provision of healthcare and social welfare services.

They complement each other to offer integrated services which cover research, design, production and distribution of products and services; the creation of infrastructures, equipment and start-up of hospitals; in addition to the necessary assessment, management and training to attain successful projects.

As an industrial cluster, the activity of companies is supported by a set of knowledge providers and government institutions of a public and private nature.

Biopahrma

Companies in the biopharmaceutical sector work in three specific areas: research, production and distribution of biotechnological and pharmaceutical products.

Through its partner companies, Arahealth provides the capacity to develop in vitro diagnostic kits, from research through to the development of the product, its production and later distribution. It also has two laboratories, one specialised in genetics and forensic research and the other in cancer treatment and clinical studies, highly specialised in liquid biopsy.

A large pharmaceutical company produces generic medicines that are exported to countries around the world. In addition, companies specialised in nutraceutical products research, develop and produce products from natural raw materials – offering alternatives to the chemical products.

The potential of Arahealth also extends to distribution thanks to the experience of the top companies in automation in Europe with internal and external logistics systems developed by the best professionals. The track record and know-how acquired through years of work give them the ability to train and evaluate the best automated logistics systems, creating tailor-made warehouse projects and medicine distribution networks for companies of any size – always providing follow-up monitoring to ensure the success of system implementation.



Healthcare and social welfare

Among its partners, Arahealth has private hospital clinics, social welfare services and spas. A full range of medical options, rehabilitation and well-being treatments to receive and treat patients in the best medical installations.

Excellent specialists provide personalised treatment for the distinct ailments and have the latest hospital technology available to ensure the best results. From diagnosis through to final treatment, passing through surgery or rehabilitation, everything a patient needs is at hand – with information about the situation at any given time.

The wide-ranging experience of the companies in the sector provides them with all the necessary knowledge to undertake hospital service outsourcing projects or social welfare home assistance projects. Specialists in the whole design, development and management process in the health environment, they perform assessment, training, consultancy and monitoring tasks in the creation of these services – always paying attention to the needs of the area.

MedTech

At Medtech, they design, develop and manufacture products and specialised software for healthcare. From patient-nurse call systems, management of prior appointments and telecare services to the design of intelligent rooms for hospitals. Research, health system improvement and technological development are their primary objectives. They are developing technologies such as wireless out-patient call systems and intelligent environments through sensorization – aiming always to find solutions that improve people's quality of life.

Good management of the health system's auxiliary services is essential for the centres to work efficiently. In order to achieve this, Arahealth has developed the best hospital management systems, including medical agendas and telecare services. Having patients and the various professionals informed at all times, maintaining permanent control over their condition and telematics services to achieve immediate help are just some of the practicalities that go towards achieving completely effective healthcare. All of this research, software development and health product manufacturing provide Arahealth with the latest and most innovative solutions in medical ICTs – being able to provide the centres with better services and the most modern health installations.

Equipment

Arahealth has the capacity to assess, design and build hospital equipment. Continuous development in the latest technologies allows the construction of installations that are adapted to market needs, such as the creation of furniture adapted to chemists' and hospitals; equipping the technical sections of health centres; or the design, manufacture and distribution of specialised hospital beds with the latest intelligent room solutions. All of this provides health centres with the best installations with which to offer quality services.

There is a great amount of development in R&D&I which helps to create avant-garde installations. Process automation, development of automatons and the creation of software adapted to the needs of the health centres are just some of the solutions on which the companies in the sector are working to improve the experience of the end user.

The experience, qualifications and knowledge of the professionals at Arahealth give them the capacity to train technical personnel and manage health infrastructures abroad.



Catalan eHealth Ecosystem

Salut/ Sanitàries de Catalunya

Visit website

The Catalan Ministry of Health is the main Health Authority in the Region of Catalonia, Spain, having full competences in the financing, commissioning and provision of health services, as part of the decentralised model of the Spanish Health System. Jointly the Department of Social Rights has given a special focus to the management of chronic diseases in an integrated care approach.

The Catalan Health Service is structured through the health regions, deconcentrated territorial demarcations that are delimited by geographic, socio-economic and demographic criteria, among others, and which give a wide range of their own competencies. Sanitary areas are organised in healthcare sectors as well as deconcentrated bodies, which develop disease prevention activities, health promotion, public health and healthcare and social healthcare in their primary care level. At the same time, the healthcare sectors are formed by a set of basic health areas, territorial units where primary health care is provided for direct access to the population, mainly through the primary healthcare centres.

The Catalan Ministry of Social Rights is the main responsible for social services, benefits and protection of citizens. Catalan Social Services System (SCSS) is the set of resources, services, technological and economic services and programs, equipment and activities of prevention, attention and social promotion.

The whole strategy of the information and communication system of the Catalan health system can be found in the **SISCAT Information Systems Director Plan.**

The Catalan healthcare model is a multi-provider one integrated in a unique public network. It enhances the autonomous management of providers, who are free to select their information systems. The network includes more than 160 providers of healthcare in Catalonia, which are currently integrated to the Shared Electronic Health Record (HC3). While in primary care most centres (95%) use the same information system, in specialised care between 20 and 25 different information systems can be found. The EHR contains information on the patient's summary and reports from primary care, inpatient and outpatient care, emergency care, nursing care and diagnostic procedures (including laboratory and medical imaging tests) and prescription. On the other side, the Integrated Electronic Prescription System (SIRE) allows the prescription and dispensing of medicines to public health using ICT. SIRE both facilitates access to pharmaceutical services, saving time and visits to the CAP (Primary Healthcare Centres) guarantees confidentiality and enables a more accurate monitoring of treatments and allows the detection of possible incompatibilities or interactions between drugs, improved coordination between doctors and pharmacists, and optimises health management in the field of medicine.

Furthermore, the Catalan Health System has implemented the Personal Health Record (My health: La meva salut, LMS) through which all citizens can access their own health data and results and other services on-line in a secure environment. My Health (LMS) is a website that allows the public to have their personal health information, services and includes information that has been generated by the healthcare professionals such as, the medication plan in force, administered vaccines, diagnostics, clinical reports and the results of tests and complementary examinations. It also allows procedures such as e-consultation with the reference primary care health physician.

The iS3 is one of the pieces, which connect all stakeholders in the Catalan health public system (citizens, suppliers and professionals) respecting the diversity of existing information systems. iS3 is an interoperability platform for the management of healthcare processes through integration between different information systems of health and social care providers. This common model of communication can improve health, quality of life of citizens and resource planning, especially in the field of chronic or multiple disorders.

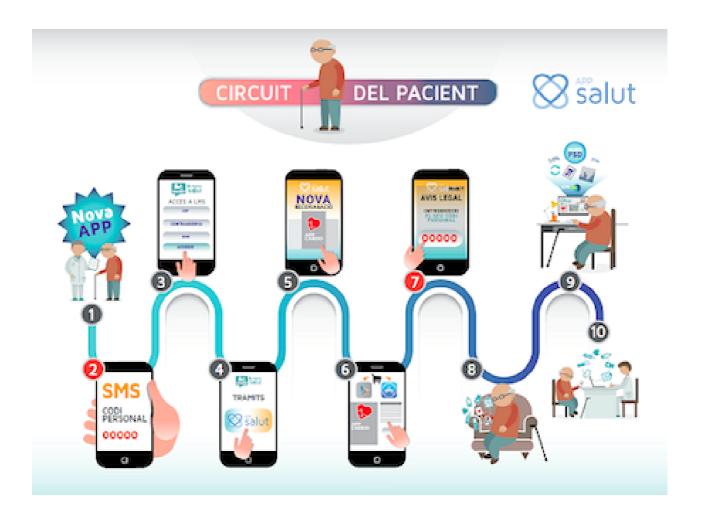
The central platform iS3 channels the information needed to manage and monitor workflows of healthcare providers:

- **Referrals.** It allows to derive a patient to a specialised professional or to perform specific tests in other health centres without going through external appointment processes.
- Appointments. It manages the appointment process needed for the referrals.
- Data inquiry. It allows the identification of the patient between health centres.
- **Laboratory process.** It includes all processes and actions related to lab tests: application, modification, cancellation and return the results.
- **Process notifications**. It groups all messages related to the referrals, appointments or lab processes.

In recent years, the Catalan Ministry of Health has been working on the deployment of HES (a person-centred Electronic Health Record that every professional or provider that treats a patient can access). This new model aims to provide a comprehensive view of people's health and well-being and their interactions with the healthcare system (and others, such as social services), and will facilitate integrated and ongoing care and monitoring of the patient. HES will provide the professional with common information of relevant clinical significance, timely (when needed) and of quality, easy to record, access and analyse.

In order to foster and develop mHealth practises the AppSalut project and the Accreditation process were deployed in the Fundació TIC Salut.

The AppSalut project involved the development of a website where health and social mobile applications were collected after passing an accreditation process. As a result mConnecta project is currently being designed and implemented as a continuation of AppSalut project in a broader mission.

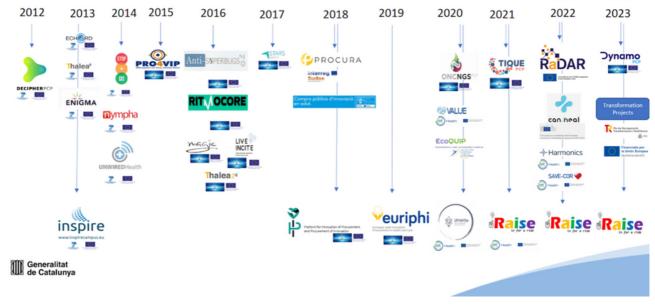


AQuAS (Agència de Qualitat i Avaluació Sanitàries de Catalunya)

is a public entity of the Catalan Health Ministry with more than 25 years of history. Its mission is to generate scientific and relevant knowledge to contribute to the improvement of the quality, safety and sustainability of the healthcare system, with the main goal of supporting the decision-making process of the citizens, professionals, managers and policy makers. AQuAS coordinates the Departmental Commission for Innovation and Transformation of the Health System, its Value Based Procurement Subcommittee and the Temporary program of innovation and transformation of the health system.

AQuAS has extensive experience in innovation adoption initiatives as pre-commercial procurements, public procurements of innovation and early evaluation of the adoptability of innovations. AQuAS is currently co-leading jointly with Universitat Politecnica de València the **iRaise Education Programme** (iraise.eu; previously co-funded by EIT Health), the very first Education Programme on high value care innovation adoption that trains multidisciplinary teams from healthcare organisations.

AQuAS and the Catalonian healthcare system journey Salut/ Salut/ Santaries de Catalunya towards the adoption of value-based innovations



Catalan health system journey towards value-based innovation adoption

Fundació TIC Salut i Social

is an organism of the Generalitat de Catalunya that works to promote the digital transformation of healthcare services through ICT. It encourages networking in the fields of health and social welfare. It is an observatory of new trends, innovation and emerging initiatives. It offers standardisation and product certification services.

Areas of work:

- Define digital transformation reference models
- Apply AI in health and social welfare
- Dynamize relationships and collaborations
- Training and training professionals
- Collaborate in the deployment of ICT strategies
- Consolidate system interoperability
- Ensure compliance with the GDPR in the field of health
- Prepare sectoral studies and reports

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Currently, TIC Salut owns the ICT Health Chair in University of Vic (UVIC). The ICT Health Chair was created in 2013 by Universitat de Vic – Universitat Central de Catalunya (UVic-UCC) and Fundació TIC Salut, with the vision of becoming a reference in research in ICT, health and social system.

BIOCAT and BIOREGION (UB)

Biocat is the organisation that coordinates and promotes the life sciences sector in Catalonia. Its mission is to stimulate and support public and private sector actors to lead and promote initiatives that strengthen research, innovation and business growth, in order for the sector. The BioRegion of Catalonia is made up of more than 1,300 companies and 91 research entities and represents 8.7% of GDP and 8% of employment in Catalonia. In the last three years, the number of international investors who have opted for start-ups in the BioRegion of Catalonia has almost doubled.

CIMTI

works to ensure that high-impact health and social innovations reach citizens. It identifies the most relevant challenges of the health and social system, in coordination with the Departments of the Generalitat involved. It selects the best proposals to solve these challenges and it accompanies the selected projects both in the maturation and implementation stages following their own methodology that has been adapted from the CIMIT methodology in Boston. It contributes to the maturation of projects by facilitating work meetings with experts, both from the CIMTI community and CIMIT in Boston. It provides support in the areas of business, market, public procurement, regulatory, clinical, technology, investment and communication.

Barcelona Health Hub

is an international centre of reference for digital medicine. The mission of Barcelona Health Hub is to promote innovation in digital health and its transfer to the sector, linking start-ups, health organisations, companies and investors.

Digital Innovation Hub of Catalonia (DIH4CAT)

The DIH4CAT is a regional non-profit innovation ecosystem, composed by the main agents of support for the digitalization of Catalonia, which aims to promote the technological transformation of Small and Medium Enterprises (with a special focus on industrial sectors and technology providers), technology start-ups and public entities.

Catalan Open Innovation HUB on ICT-Supported Integrated care services for chronic patients:

The Catalan Open Innovation Hub is a network of entities that promotes synergies among relevant stakeholders: health policy makers, citizens, health professionals, service providers and entities generating research & innovation in the health sector. Its core aim is to contribute to full implementation of the goals defined by the Health Plan

Catalan Institute of Health

is the main host for healthcare training in Catalonia. The centres of the institution teach health professionals from almost all medical specialties, nursing and other areas of health sciences. They also receive undergraduate students in Medicine, Nursing and other health studies, which complete their practices, in collaboration with universities

Eurecat

supports highly specialised training designing and promoting classes that have the primary purpose to meet the needs of the companies through the Eurecat Academy. The centre counts on virtual studies centres where they offer semi-distance learning and online courses.

Basque Health Ecosystem



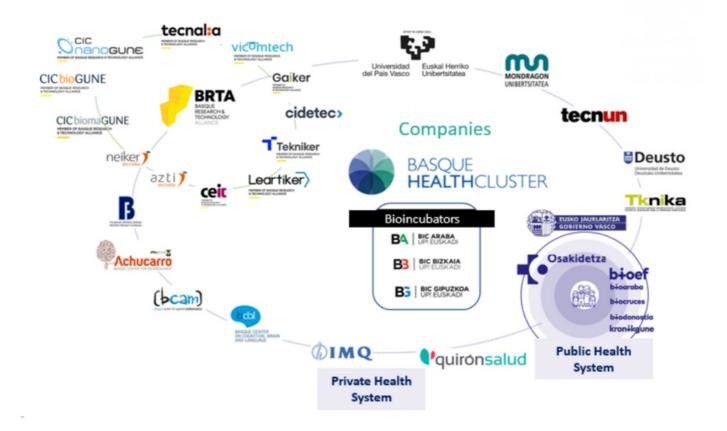
Visit website

Basque Health Cluster, BHC, is the association for the bioscience and health sector in the Basque Country, one of the main health hubs in southern Europe.

The Cluster leads the healthcare and life sciences ecosystem in the region, bringing together organisations that develop products and services to improve people's health and quality of life. Its main objective is to coordinate, represent, manage, promote and defend the common interests of its member companies, with the aim of transforming science and technology into regional economic growth and improving the quality of life of the society.

The Basque Health Cluster's mission is to contribute to the development, growth and internationalisation of associated companies through the configuration of a differential value proposal that drives their competitive improvement, promotes dynamic cooperation between the different agents in the field of Biosciences and Health in the Basque Country and with other European and worldwide Regions and encourages interaction at the same time with other industrial sectors.

The Basque Health Cluster encompasses the entire value chain of the sector, representing entities dedicated to: Pharma and Dermo, Biotechnology, Medical Devices, In Vitro Diagnosis, Healthcare, E-Health and complementary services. Moreover, these more than 110 associated entities include companies, Research and Investigation Centers and Institutes, Universities and knowledge Centers, Assistance Centers and public administration. Moreover, the cluster operates as a driving force of the ecosystem, promoting networking and collaboration, as well as acting as an intermediary between all the agents that operate in it, as well as between the public and private sectors.



Projects

The Basque Health Cluster has participated in and promoted various projects such as:

- **OSASUNBERRI:** An initiative made up of 27 entities that contribute their knowledge and talent to strengthen the value chain of the health sector. The main objective of the OSASUNBERRI project is to build a close, efficient and comprehensive health sector, based on the km 0 philosophy, and to develop an advanced healthcare system in our community.
- **OSASUNBERRI II:** Consortium formed by 32 companies of the Basque Health Cluster whose main objective is to increase the degree of independence and healthy life expectancy of the elderly. The aim is to obtain solutions for tackling musculoskeletal problems and solutions for tackling the cognitive part through the technological development of biomarkers for diagnosis and monitoring and therapeutic solutions in nutrition, pharma-biotech and medical devices.

- Clinical evaluation and marketing of new-generation medical devices (ClivaMED): One of the main challenges facing the Science and Technology System of the POCTEFA area is the transfer of innovation from scientific entities to the business sector. In this context, in the health sector, ClivaMed project aims to carry out the clinical evaluation and commercialisation of state-of-the-art medical devices for their technological transfer to the market and society, which can have a great impact and high benefits on the health of the general population. ClivaMED will work with functional prototypes of different innovative solutions developed in the framework of different previous European cross-border collaboration projects.
- **OSASUN-KMO:** Basque Government Grant Strategic HAZITEK: The final strategic objective of the project is the design and development of technological and procedural blocks (framework) to enable and accelerate the development and management of the life cycle of embedded medical devices that guarantee their functional safety and respond to the diagnostic and treatment needs of the health sector. All this while aligning the development to the technical requirements of the new regulations and under the km0 philosophy.
- New services for clinical research based on a federated, trusted and interoperable health data space: The aim is to create a federated, trusted and interoperable health data space. To this end, the aim of this project is to create a prototype of a third-party service that will enable its exploitation in clinical research.

Thi is an area that is also being strengthened by their increased participation in more and more projects, both locally, nationally and internationally.

SHOWCASING SPANISH CHAMPIONS

Showcasing the champions from our Spanish ECHAlliance Ecosystems

One thing is very clear from our Spanish Ecosystems is that they are full of innovation and collaboration, but we at ECHAlliance thought that as a legacy from the Spanish EU Presidency we would invite our ecosystems to showcase not only their ecosystems, but also give a flavour of some of their champions.

These would be their organisations, initiatives or companies from within their ecosystems that they feel deserve the spotlight and need to be seen as potential collaborators across the wider ECHAlliance network of Ecosystems and Members.

Here is a small selection of these that we think are worthy of a little limelight and keeping an eye on in the future. We are sure there are many more.

Galician Health Ecosystem

Collaboration is at the heart of the <u>CSG</u>, leading and representing the Galician health ecosystem in various international networks and being an active member in the national network of Spanish autonomous health clusters. The CSG is dedicated to translating the needs of users to help providers and regulators adapt their solutions and policies to the real demand of society. In addition, it promotes intersectoral collaboration, recognizing the interrelationship between health, sport, the living environment and nutrition.

As of today, the Galicia Health Cluster (Cluster Saúde de Galicia, CSG) has more than <u>100</u> <u>members</u> who belong to the health and care sectors, with an ecosystem configuration of 4 helixes. Stakeholders are organised around 4 main interconnected value chains:

- Healthcare: Industrial or service sectors aiming at direct assistance to the person in a reactive or proactive way
- **Knowledge:** It encompasses the entire scientific research industry that directly or indirectly seeks to improve people's health through the generation of new knowledge
- Quality of life and care models (Social care): It encompasses companies with the purpose of treating health as a way of life, including improvements in habits, customs, nutrition, etc.
- **Structure:** includes those activities that involve the construction of material and immaterial elements (hardware and software) for health purposes.

The <u>#CSG_Community</u> is made up of stakeholders at the regional, national and international level. All of them are directly or indirectly involved with the Galician health ecosystem in order to enhance it as much as possible.

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Extremadura Health Ecosystem

Given that FundeSalud is part of the Regional Ministry of Health of Extremadura, it is closely related to the Regional Healthcare System (SES) and the Social Care System (SEPAD). Moreover, the Extremadura Health Ecosystem counts on three key stakeholders: The Minimally Invasive Surgery Centre Jesús Usón (MISCJU), CénitS and Cluster de la Salud.

Extremadura's Healthcare Service (SES)

Extremadura's Healthcare Service (SES) is the Healthcare System in Extremadura that involves 14 hospitals with around 3000 beds, 113 Community Health Centres, 420 Primary care Centres and over 18000 professionals. SES is managed by a powerful Healthcare Information System (JARA system) that provides 100% electronic prescription and an integrated medical record (primary and specialised care).

- 8 Managing Areas
- 14 Hospitals (2,824 beds)
- 2 Mental Hospitals (816 beds)
- 113 Community Health Centres
- 420 Primary Care Centres
- 79 other centres (e.g. detox centres)



Extremadura's Social Care System (SEPAD)

Extremadura's Social Care System (SEPAD) provides more than 10,000 elderly population in Government-dependent Nursing Homes. SEPAD supports and manages Nursing Homes, Day Care Centres, Senior Centres, and other aged-friendly resources. SEPAD also collaborates with private institutions to guarantee a correct care for aged people. SEPAD also assists the elders by providing domiciliary services and other assistance to promote autonomous living and healthy lifestyle for senior people. It also manages different programs in tele-care and health.

- Disability Services (Total Capacity: 10,000 people)
- Dementia services (840)
- Seniors' services (5,088)
- Severe mental disorders' services (823)
- 4,000 Telemedicine devices



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Minimally Invasive Surgery Centre Jesús Usón (MISCJU)



The Minimally Invasive Surgery Centre Jesús Usón (MISCJU) is listed as a Singular Scientific Technical Facility (ICTS) called NANBIOSIS, featuring state of the art technology to be used during the training courses and offers a sequential model of accredited Training and Research Health Centre and Reference Centre for Endoscopy Teaching (ESGE).

- 1,900 attendants from all over the world in over 160 training activities every year.
- participated in over 200 competitive projects.
- 300 scientific papers indexed in the Journal Citation Reports.
- 50 books and book chapters.
- Enlarged experience in research and development of the new training techniques, simulation, and virtual reality systems.



Projects:

- <u>Complementary Plan of Biotechnology Applied to Health</u>, developing tools for diagnosis, prognosis and advanced or targeted therapies in personalised medicine.
- <u>MIREIA Home</u> ERASMUS+ Knowledge Alliances: this Alliance proposes the development of an innovative methodology and tools to provide interactive pedagogical content for customised training based on 3D models.
- <u>The TREMIRS project minimally invasive robotic surgery systems ... IDOM</u> project improves the patient's quality of life while allowing the surgeon better ergonomics and greater performance of the surgical equipment, which leads to a better care service.
- BioimpACE (Boosting Bioprinting in Healthcare technology and applications in the EuroACE region) promotes the knowledge and use of Bioprinting in health developing new approaches to scaffold designs, computational simulations, biomaterials and bioprinting procedures.
- <u>European Knowledge Alliance for Innovative education of Surgical and ...</u>proposes an innovative approach for surgical and interventional teaching and learning based on technology-enhanced learning. develops an innovative pedagogical supported platform for surgical and interventional multi-skills education.
- <u>Multimodal highly-sensitive PhotonICs endoscope for improved ... CORDIS</u> to improve in vivo colorectal Cancer diagnosis and clinical decision support.
- <u>Training of soft skills for surgical teams using an immersive Serious ...</u>, which provides health professionals with an innovative approach to acquire and develop soft skills to foster their professional development.
- Active Ageing: connecting Cultural Heritage with older adults' empowerment. The AGEment project proposes an innovative approach to raise awareness among older adults in active ageing through motivating multimedia contents that interrelate European Cultural Heritage with well-being promotion in adults.

CénitS



CénitS is the Extremadura Centre for Research, Technological Innovation and Supercomputing whose purpose is to promote, disseminate and provide intensive computing and advanced communications services to the research communities of Extremadura, or to those companies or institutions that request it and, in this way, contribute through technological improvement and innovation, to the improvement of the competitiveness of researchers and companies.



CénitS has the LUSITANIA, LUSITANIA II and LUSITANIA III Supercomputers, located in its Data Processing Centre in Caceres. All three represent a powerful tool for the development of projects in very diverse and heterogeneous areas. In addition, CénitS offers infrastructure, resources, and technical support to undertake projects (scientific, technical, or business) where its services are required.

In November 2018, the LUSITANIA II Supercomputer was recognized by the Ministry of Science, Innovation and Universities as a Singular Scientific and Technical Infrastructure (ICTS).





Cluster de la Salud

The Cluster de la Salud or Health Cluster is an intermediate, private and non-profit organisation that houses companies in the socio-health sector of Extremadura with the aim of improving their competitiveness through inter-company cooperation.



Health Cluster aims to be a benchmark for companies in the socio-health sector in the recruitment, management, and development of innovative projects, with the purpose of making associated companies more competitive in the environment in which they operate, offering and betting on specialisation. In addition, it stands as a coordinator and point of connection between the Administration, the University, the technology centres, and the companies of the sector, generating confidence and satisfaction among its associates thanks to its efficient management.

Castilla y León Health and Social Care Ecosystem

These are the members leading the way in the Castilla y León Health and Social Care Ecosystem:



Madrid Digital Health-Biosciences Ecosystem

The DIH-bio ecosystem community, led by the University Autónoma de Madrid, represents over 40 stakeholders of the digital innovation ecosystem in the region of Madrid, including private and public research centres, hospitals, a science park, investors and business incubators, biotech and health startups, SMEs and big companies, digital technologies companies, business association and regional and local authorities.



DIH-bio gathers the key actors of the Quadruple Helix Model of Innovation

Aragón Health Ecosystem

These are the members of the Aragón Health Ecosystem:

Biopharma

Pharmaceuticals: Pharmaceutical and parapharmaceutical manufacturers and providers. In vitro diagnostics: Enterprises focused on developing, manufacturing and providing reactives and diagnostic kits. Clinic diagnosis laboratories are also included.



Healthcare and social welfare

Healthcare facilities such as hospitals, clinics and medical centres, sometimes specialised in particular pathologies, nursing homes, home healthcare as well as other healthcare centres and healthcare service providers, including startups.



MedTech

Medical devices: companies specialised in the development and manufacturing of medical devices. ICT and medical equipment: Technological-based firms in the area of medical equipment, information, communication and e-health.



Healthcare equipment

Clinical furniture and specialised equipment and technical facilities for health, nursing and home sectors, as well as sanitary architecture firms.



Knowledge

The specific knowledge necessary in business strategy and for innovation projects is provided by a set of public and private partners: two institutes of technology, a health research centre, two universities and a business school.



Government

Three government institutions support business activity in general, particular actions in internationalisation and give us access to the public healthcare system.



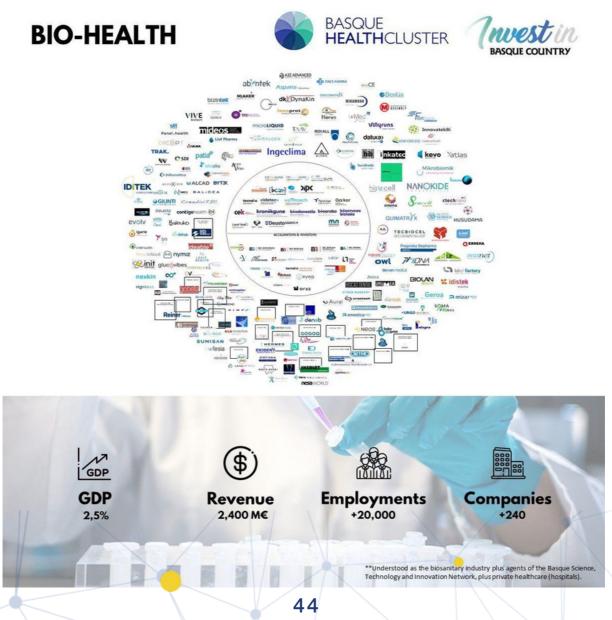


ACS Instituto Aragonés de

Basque Health Ecosystem

The Basque Health ecosystem stands out for having among others:

- The strategic **commitment of the Public Administration**. The biosciences and health sector being one of the three RIS3 priorities.
- A solid **public health** system.
- 6 leading private hospitals with 45,000 employees.
- 4 Health Research institutes.
- More than 20 research centres with more than 2,500 people dedicated to R&D.
- An **R&D expenditure** focused on biotechnology that represents 10% of total national R&D expenditure.
- **Biotechnology companies** of which 60% are less than 10 years old and of which 90% are internationalised.
- More than **240 companies** in the sector.
- The Basque Health Cluster as a centre of dynamization and traction of this ecosystem.



OUR MEMBERS IN SPAIN

Our ECHAlliance community in Spain is one of our largest across the ECHAlliance network and has some notable strengths and we were particularly pleased to kick start the Presidency with more members and ecosystems joining our network and becoming involved in our community events such as Radical Health as well as our upcoming events in Mobile World Congress, Med Tech World in Malta and HLTH in Las Vegas.

Bilbaoo Toulo

Here you can see the whole range of stakeholders including patients, industry, healthcare providers and universities as well as clusters.



ConnectHealth

ConnectHealth

Technology and security for digital health

https://connecthealth.info/

ConnectHealth is a technology company established in 2016 whose objective is to unify, centralise and connect data in the health sector, drastically reducing the existing information silos in different areas of the health sector, such as primary and hospital care, and academic research or traceability along the health supply chain.

Through its solutions, ConnectHealth facilitates interoperability between different health services, organisations and processes, optimising health resources and improving people's health as the founding purpose of society. ConnectHealth offers technological solutions with a high positive impact for society, through technologies such as blockchain, Artificial Intelligence and its already patented Universal Health Identifiers.

The company (as a startup) took off with the "Dón@te" project, which was chosen to participate in the ADE2020 Program - Innovative Projects Accelerator IX edition and obtained the CLH Group - ADE2020 award. During these years the company has been developing different projects and functionalities based on Blockchain, Deep Learning and Artificial Intelligence based on the Universal Health Identifier with the purpose of

1. Enabling citizens to carry and manage their medical records quickly and safely from their mobile phones, significantly optimising the health care process.

2. Creating an immutable registry and certification guaranteed by a blockchain network of all clinical documents to ensure their traceability.

3. Offering registration, traceability, interoperability and intelligent management of samples and biological materials such as blood, plasma, tissues, etc., as well as medical devices and the data generated by them.

4. Providing assistance chatbots in different pre-hospital stages (First prototype in use Dra. Abril)

5. Facilitating bi-directional communication tools for effective and agile communication of healthcare staff ICU (Intensive care units) and patient's families (Hospital.app Project)
6. Anonymizing and codifying health information for research.

ConnectHealth's strategy

ConnectHealth's strategy is based on a single service extended to all members of the health ecosystem, free of charge for the patient, who is considered the epicentre. The patient receives a digital health identifier to unify all health records regardless of origin, language and format. The patient is repositioned at the very centre, in terms of data management. This strategy represents a paradigm shift with respect to the centralised structure in force up to now and corresponds to the strategy supported by the European Union.

The European Union published in May 2022 in a directive the launch of the <u>European Health</u> <u>Data Space</u> (EHDS) to empower people to have control and use of their health data in their country of origin or in other Member States.

Aware of the significant barriers that prevent the formalisation and enforcement of these directives, ConnectHealth offers an agnostic solution, suitable for any branch of the health industry, easily adaptable to any information management system and with very limited costs in terms of infrastructure investment for the client. In addition, its use is free for the patient.

Additionally in the second quarter of 2019, the HIPAA (Health Insurance Portability and Accountability Act) and the GDPR (the General Data Protection Regulation), urged that "reasonable" measures were taken for Protected Health Information (PHI) and Personally Identifiable Information (PII) against foreseeable actions in the field of quantum computing (encryption techniques, hash signatures). ConnectHealth solutions have been designed using quantum resistant algorithms resilient to advanced computing processes.

It is important to note that the health market is currently conditioned by two main characteristics: the growing needs of patients and internationalised regulatory framework/standards. The European Commission pursues the digitization of all medical records by 2025 to make it easier for its citizens to access and share their personal data with medical professionals throughout the 27-member region, particularly when they are in a country other than their own. Thus, <u>the EU has already established</u> that people will have immediate and easy access to data in electronic format, free of charge.

With this directive, the EU has opened the doors to the <u>European Blockchain Services</u> <u>Infrastructure</u> (EBSI), a network of nodes distributed throughout Europe that will provide crossborder public services through the application of blockchain technology (notarial certification, own sovereign identity, diplomas and trusted data exchange). (notarial certification, own sovereign identity, diplomas and trusted data exchange). EBSI will be built as a "publicly authorised" blockchain where the nodes will be managed by the European Commission, European member states and/or associated countries, and public, private sector and civil society access will be allowed for the data set and information that is addressed to them (in their case: health data). Access to other data may be reserved exclusively for government agencies to support crossborder services. However, EBSI will be "permissioned" as access will be based on identity, authorization, and access in accordance with an access control policy to be able to perform an action on the Blockchain. Not all nodes in EBSI will necessarily have write permission.

Blockchain technology and decentralised identities designed for a variety of administrative domains is the current will of the EU. The solutions developed by ConnectHealth perfectly cover this gap and the increasing individual/patient demands in terms of ownership of health data. ConnectHealth's strategy has been from its origin to promote patient autonomy to contribute to the improvement of medical care and therefore their health. Their strategy has been reinforced by the successive regulations of the European Union, which came to reaffirm their professional and corporate objective.

How to collaborate with us?

Academic and research, exploring potential partnership adventures with public entities:

- As providers for integrated connectivity and privacy for health data
- As developers of AI and quantum resilient algorithms
- As a bidirectional-communication platform for primary care and hospital care
- As a platform for catastrophes and emergencies, "when nothing else works" both online and offline
- As the conveyor of secure, encrypted, immutable registries of health data in order to guarantee the sturdiness and trustworthiness of data for research
- As a unique and universal conveyor connected to geolocated objects in order to automate triage, where any electronic device FHIR-compliant can easily be connected to their platform

Private and public healthcare providers and healthcare payers, offering full disposal of their platform for piloting projects around the following topics:

- As a bridge to achieve universal interoperability of healthcare information management services
- As a secure platform where only one single health data repository remains, that is the patients
- As a guarantee against data leakages and hacking enabling all the same a correct flow of data for patients to seek assistance within and outside their territory of origin

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Ferrer



https://www.ferrer.com/en

At Ferrer they make a positive impact in society and meet the highest standards of social and environmental performance, transparency and corporate responsibility in every territory with a direct presence. That is why in 2022 they became a B Corp[®] and a Great Place to Work[®]. In order to fulfil our purpose, they offer transformative therapeutic solutions, with an increasing focus on pulmonary vascular and interstitial lung diseases and neurological disorders.

At Ferrer they strive for collaboration with the ecosystem. An example of that is their open innovation program, Ferrer4Future, aiming to co-develop technology-based healthcare solutions between start-ups and Ferrer. Selected projects participate in the Ferrer4Future programme, which includes the possibility of piloting the solution in a real use case and of exploring commercial alliances and collaborations with Ferrer.

Universitat Jaume I de Castelló (UJI)



https://www.uji.es/

Universitat Jaume I de Castelló (UJI), is the public university in the north of the Valencian Community. The UJI is one of the five public universities of the Valencian Community and was established in 1991 with the aim of contributing to the social, economic, and cultural development through the creation and transmission of knowledge. The UJI currently offers 32 undergraduate degrees, 42 official postgraduate master's degrees, 20 UJI-specific master's degrees and 33 specialization courses, and has 13,685 students, a number that means students receive individual attention without problems of overcrowding.

A total of 28 university departments makes up its four areas: Technology and Experimental Sciences, Health Sciences, Humanities and Social Sciences, and Law and Economics. 14 research institutes perform an outstanding task in a range of knowledge areas with high linkage with other economic and social sectors of the Valencian region.

One of the research groups developing research at Universitat Jaume I is GIANT, formed by researchers from the Computer Science camp and researchers from the Psychology camp. The main lines of research are Automatic Learning based on the creation of Intelligent Environments aimed at improving the quality of life of people, particularly the older people.

Universitat de València

Vniver§itat d València

https://www.uv.es/

The Universitat de València, with over five centuries of history, has undergone during the last two decades an accelerated process of transformation and growth, becoming a modern global university, leader in the application of new technologies, and connected to the main international scientific and teaching networks.

A broad teaching and research activity developed in all areas of knowledge (basic sciences and engineering, health sciences, education sciences, humanities and social, economic and legal sciences) and the commitment to excellence have made the University of Valencia (UV) one of the best Spanish and international scientific centres:

- According to the ARWU Shanghai Ranking (2022) it is among the top 300 in the world, among the top 114 in Europe, among the top 5 in Spain and is the first in the Valencian Community
- •
- According to the National Taiwan University Ranking NTU, in terms of scientific production it is the fourth in Spain, 77 in Europe and 199 in the world.

The University of Valencia has several Research Groups specialized in research and development of tools, technologies and digital solutions for personalized diagnosis, and tailored medicines, devices and therapeutic strategies, which result in innovative products and services for a better personalized, preventive, predictive and participatory care in the benefit of patients and health professionals.

Find out more <u>here</u>.

ACCIÓ-Catalonia Trade & Investment





Generalitat de Catalunya Government of Catalonia

https://www.accio.gencat.cat/en

ACCIÓ-Catalonia Trade & Investment is the Catalan Government's agency for business competitiveness, contributing to the transformation of Catalan companies. It has a network of 40 offices worldwide and collaborates with public and private institutions. The agency is also devoted to assisting international firms to invest in Barcelona - Catalonia, promoting the region as an attractive and innovative business location and providing free, tailor-made and under confidentiality solutions.

Barcelona and Catalonia are a dynamic centre for life sciences innovation in Europe, being home to 91 research institutions and over 1,350 companies. One of the main challenges facing the health and life sciences sector in Catalonia is the development of new industrial capabilities, as well as the modernization and digitalization of existing ones. Another challenge is the digital transformation of the health sector: promoting digital health would improve the responsiveness of health systems and promote optimal care.

A third challenge is the commitment to a comprehensive, person-centred care model that promotes preventive and personalised health. In addition, training and retaining talent is another area of work in Catalonia's health sector. New roles and profiles need to be created, using new technologies and new models of care. Sustainability and other global challenges, such as the ageing of the population and improving mental health, are other priority challenges in Catalonia.

Basque Health Cluster



https://basquehealthcluster.org/en/

The Basque Health Cluster, BHC, is the association for the bioscience and health sector in the Basque Country. BHC leads the healthcare and life sciences ecosystem in the region, bringing together organisations that develop products and services to improve people's health and quality of life. Its main objective is to coordinate, represent, manage, promote and defend the common interests of its member companies, with the aim of transforming science and technology into regional economic growth and improving the quality of life of the society.

Basque Health Cluster encompasses the entire value chain of the sector, representing entities dedicated to: Pharma and Dermo, Biotechnology, Medical Devices, In Vitro Diagnosis, Healthcare, E-Health and complementary services. Moreover, these more than 110 associated entities include companies, Research and Investigation Centers, Assistance Centers and public administration.

They seek to position themselves and the Basque region internationally as a reference hub in the health sector, internationalize the Basque health industry, foster the financing of innovative projects, exchange knowledge, develop benchmarking activities, create value relationships, support their start-ups though the ECHAlliance ecosystem and possibilities, etc. They are delighted and open to meet and collaborate.

University of Deusto



https://www.deusto.es/es/

The <u>University of Deusto</u> (DEUSTO) is a dynamic institution committed to the promotion of research excellence, with the internationalisation of research at the core of its strategic plan. Founded in 1886, UDEUSTO is the oldest private university in Spain, a unique mix of tradition and innovation offering state of the art facilities nestled in campuses of historical and architectural interest (Bilbao, Donostia-San Sebastian, Vitoria-Gasteiz and Madrid).

With more than 30 years of solid internationalisation and a wide consolidated network of partnerships with top international research teams, DEUSTO actively supports research and its impact on the economic, social and political development. Innovation is at the core of our research driving us to the top percentiles of international rankings as a key innovator recognised by the <u>EU Innovation Radar</u>, embracing the innovative 6 'I's model based on internationalisation, interdisciplinarity, intersectionality, impact, innovation and inclusion. This innovative model focuses on the expanding critical role of universities as social innovators and proposes ways to shape performance through principles of collaboration (internationalisation, interdisciplinarity and intersectionality) and action (impact, innovation and inclusion).

Our strong researchers pool of over 500 academics, <u>36 research teams</u> (24 of them with external recognition by the Basque Government), <u>9 prestigious research centres</u>, and <u>5 International Interdisciplinary Research Platforms</u> embodies UDEUSTO into a fertile research ecosystem where new ideas thrive, and offer the space and freedom to pursue new horizons, with the support of experienced research advisors. UDEUSTO's long trajectory leading and participating in around 100 <u>international projects</u> (funded by different programmes from FP6 to Horizon Europe, UK Research Councils, USA Foundations,...) has grounded the institution firmly on the international research arena, attracting and retaining talent worldwide.

In an ever-changing society, University of Deusto is open to collaborate with different organisations to face the new challenges of technology, globalisation and innovation offering our expertise and background to boost research in different health and wellbeing, mental health, climate change and health, migration, artificial intelligence, robotics and big data, social sciences and humanities, social innovation methodologies, gender and ethics issues, among others.

Association for Support the Patients with Pneumonia and their Families (NEUMOAI)



The Worldwide Pneumonia Awareness Campaign- Pneumolight: "Light for the Education and Prevention of Pneumonia", is a non-profit, collaborative project committed to increasing the visibility of pneumonia worldwide and to raising public awareness of its risks. This campaign was created by the Association for Supporting the Patients with Pneumonia and their Families (NEUMOAI). Increasing the visibility of pneumonia will allow us to educate the public and spread scientifically-proven data on this disease.

Pneumonia claimed the lives of 2.5 million, including 672,000 children, in 2019 alone. The combined effects of the COVID-19 pandemic, climate change and conflict is fuelling a pneumonia crisis across the life course – placing millions more at risk of infection and death.

Most of the populations dangerously exposed to pneumonia live in a group of low- and middle-income countries across Africa, Asia, and Latin America. The death rate from pneumonia is highest in Sub-Saharan Africa and Southeast-Asia. The biggest risks for developing pneumonia are related to undernutrition, air pollution and second-hand smoke, no access to handwashing facilities, not- exclusive breastfeeding, and low birth weight.

Our campaign carries out two important actions to give visibility to pneumonia and to raise awareness about its risks. Every year the Global Conference for World Pneumonia Day is held, which allows us to share with the general public the experiences and knowledge of world organisations that fight pneumonia, during World Pneumonia Day (November 12) we share material Educational about pneumonia in the form of infographics and short videos that we disseminate through social networks. This year 2023, our global campaign will focus on pneumonia in the Americas Region (Who) and, under the topic "Reducing the burden of pneumonia in the Americas", our global conference for World Pneumonia Day will focus on sharing the data about the epidemiology of pneumonia in the Americas, risk factors, mortality rate and preventive measures.

Cibersalud-Salud mental online



Cibersalud has led the formalisation of the use of digital technologies in the clinical practice of mental health in the Spanish-speaking context. He has edited the publication of the first manual on mental telehealth, and the first case book, product of the collaboration that emerged between international professionals at the digital mental health congress (2019-2022). The services it develops are in a research network to keep advances in teleconsultation updated, as well as the use of technologies with artificial intelligence. From this base, it has created university diploma programs to train professionals to face the challenge of integrating devices and the Internet in the provision of professional services.

Gelukig



We are an enterprise dedicated to promoting mental health and emotional well-being in organisational settings. Our core focus lies in cultivating high-performance teams within companies, thus contributing to enhanced corporate profitability. However, our approach is fundamentally rooted in recognizing that effective teams are composed of individuals, each with their unique mental and emotional states. We firmly believe that nurturing a conducive environment for mental well-being is pivotal for achieving sustainable success. As individuals spend a significant portion of their lives in the workplace and as active team members, supporting them in realising their fullest mental health potential becomes integral.

We are profoundly intrigued by the prospect of collaboration with ECHAlliance. Our shared dedication to harnessing innovative strategies to foster healthier work environments presents a promising avenue for mutual synergy. We are particularly interested in contributing to initiatives that bridge the gap between cutting-edge mental health solutions and the diverse needs of individuals within the healthcare and social sectors.

In earnest pursuit of this synergy, we express our keen interest in becoming an active member of your esteemed organisation's initiatives. The prospect of collaborating on projects that drive meaningful impact, enhance well-being, and advance the frontiers of mental health within healthcare and social contexts resonates deeply with our values.

TECNALIA



TECNALIA is the largest applied research and technological development centre in Spain, a European benchmark and member of the Basque Research and Technology Alliance. We work with companies and institutions to increase their competitiveness, quality of life of people and achieve sustainable growth. We do so thanks to people who are passionate about technology and committed to building a better society. We work in many areas of action, such as digital transformation, energy transition, urban ecosystem, personalised health, smart manufacturing and sustainable mobility.

We contribute to the positive transformation and development of cities and regions through a set of urban solutions serving a smart city vision, and the application of high-impact state-of-the-art technologies. We advocate for a people-centred urban model aligned with the 2030 UN Sustainable Development Goals. We help cities solve their challenges, build a vision, and get closer to that Smart City model.

We develop solutions for a competitive generation of renewable energy, for CO2-free mobility and for energy-efficient, sustainable, comfortable, and resilient urban environments.

Las Naves



Las Naves is a Foundation promoted by València City Council whose aim is to promote urban innovation putting people at the center of innovative action.

- It accompanies processes and initiatives that can provide innovative solutions to the real problems of citizenship and urban challenges, strengthening the social structures of the territory, through knowledge and technology, putting innovation at the service of citizenship, to contribute to governance and social cohesion.
- Las Naves aims to make Valencia an innovation city lab to validate innovative solutions and thus to generate evidence that lead to quality decision making on public policies, evaluating them to scale up as public services.
- It deploys Missions València 2030 initiative. A new and pioneering innovation governance model aimed at city missions that improve the lives of citizens. Innovation missions that aspire to achieve a healthier, sustainable, shared and entrepreneurial city. Valencia is one of the EU Cities Missions and has been awarded as European Green Capital 2024.

Lovexair Foundation



Lovexair Foundation is a non-profit organisation dedicated to provide care support and guidance to people with respiratory diseases, together with their families and caregivers.

Their goals are to create awareness in society about the importance of early diagnosis, prevention and treatment of respiratory diseases and bring meaningful solutions to key stakeholders to improve peoples' quality of life through research and analytics. Additionally, Lovexair Foundation develops educational and self-care engagement programs developed as hybrid care for home and community settings.

They are experienced in working with key stakeholders, hospitals, healthcare professionals and tech partners innovating in care delivery with educational, social clinical support for proactive and preventive care.

Their interests are to co-create person centred resources and care support aiding personalised pathways, working in digital health and research projects. They provide capacity - building to healthcare professionals and engage younger generations- in developing and applying real life skills in the digital transformation. They are working together with institutions and organisations internationally to promote the importance of lung health in society.

Fundación Visible

FUNDACIÓN VISIBLE

Fundación Visible, established in 2022 by chronic migraine patient Patricia Ripoll, is dedicated to leading projects addressing and communicating conditions that impact people's quality of life, particularly chronic illnesses stigmatised and overlooked. With a patient-centric approach, the foundation strives to make the invisible visible, emphasising the importance of understanding and sharing experiences that might otherwise go unnoticed.

The commitment of Fundación Visible is encapsulated in their motto: "What is not understood does not exist." They seek to make the invisible visible, emphasising the importance of understanding and communicating experiences that would otherwise go unnoticed. The foundation presents itself as those who see the fine print, what hides behind the asterisk, committing to making visible what (almost) no one sees.

The work of Fundación Visible is based on three fundamental pillars: to make visible, to research, and to educate. They aim to make visible what affects in order to be understood, support research to create evidence, and educate and empower individuals to be responsible agents of change. The foundation's projects focus on invisible and overlooked diseases, as well as giving a voice to patients within the healthcare ecosystem.

HumanITcare



HumanITcare is an API-based solution for the remote monitoring of patients and users across integrated devices, delivering smart alarms based on different chronic diseases. It is a comprehensive medical solution that collects health data from individuals using the same mobile phone or different interconnected accessories (hardware agnostic).

WHAT OUR LARGER MEMBERS ARE DOING IN SPAIN

ECHAlliance members active in Spain

One of the trends we have looked to adopt with our Presidency Connectors has been to connect the dots between our members located within the country and also those members from other countries that also have a strong presence in Spain.

Here you can see what our Foundation Partners Better are active in within Spain.



About Better

Better is transforming healthcare organisations with their vision of improving health and care by simplifying the work of care teams and accelerating digital transformation underpinned by data for life. They wish to put organisations in control of their data, workflows, and transformation plans in order to improve patient care. Based on openEHR, Better's digital health platform is the foundation of a data-driven health ecosystem.

By separating the clinical data layer from applications, **Better Platform** enables an open and truly modular approach to the digitalisation of healthcare. It is designed to store, manage, query, retrieve, and exchange structured electronic health records and as such, provides instant access to all relevant information and a unified experience. The digital health platform is comprised of three layers: vendor-neutral data fabric, low-code tools for rapid development, and user experience components to assemble it all together, including a clinical portal and design system.

With its leading digital health platform, Better has been named a Representative Vendor in the Gartner[®] Market Guide for Digital Health Platforms.

Their award-winning electronic prescribing and medication management solution, **Better Meds**, brings efficiency, transparency, and decision support to medication management, saves time and resources, and significantly reduces errors. The solution has been developed in collaboration with doctors, nurses, and pharmacists, and is easy to embed into the workflow and the technologies already in use.

Better has provided solutions to 20 countries, and their Platform securely supports over 30 million patient records globally. Among their clients are countries like Malta, Cyprus, and Slovenia, regional systems like Catalonia in Spain and OneLondon and Wales in the UK, and several hospitals in the UK, Finland, Spain, Germany, Italy, New Zealand, and even Nigeria.

Better is an advocate of the **openEHR standard**, which allows for the complete separation of data from applications and promotes a single, life-long electronic health record for each patient. It has been designed for persistence, to store information in a clear structure and well-modelled framework, and it moves the entire landscape from an app-centric architecture to a data-centric one. In combination with HL7 FHIR for the exchange of data and OMOP for research, it is now being deployed in a growing number of countries all over the world.

Better in Spain

Better is present on the Spanish market and wants to build on the mission of transforming the healthcare industry by offering its innovative technology and solutions, as well as expertise in openEHR.

Working with several partners, among which are **T-Systems, NTT Data, EY, Atos, Accenture**, and other local and global players, Better wishes to extend its reach, create a network of like-minded collaborators, and provide solutions for governments, regions, hospitals, care providers, and general practitioners.

Following this mission, Better is implementing its electronic prescribing and medication administration solution **Better Meds**, built on top of the Better Platform and based on openEHR across Catalonia. The solution will be available in more than **60 hospitals in Catalonia** and will thus support the Catalan Health Service (CatSalut) in its vision of building a patient and data-centric longitudinal electronic health record.

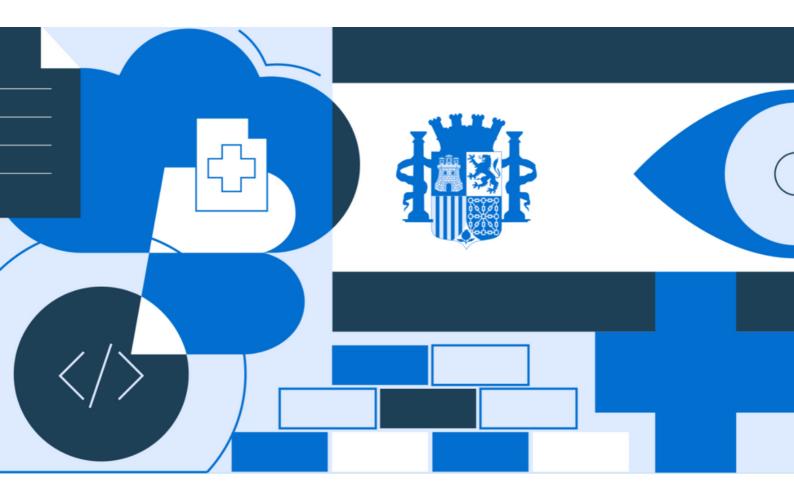


Better is part of the **Infobanco** project, a pioneer openEHR initiative in Spain. It is developing an innovative architecture and use of health data for research and analysis for a regional health data network in the Madrid hospital network, starting with the **Hospital Universitario 12 de Octubre**, where Better Platform is used as the core EHR system.

The company is also strengthening its presence in Spain by joining several organisations, among which are **Barcelona Health Hub, Asociación Salud Digital (ASD)**, **Sociedad Española de Directivos de la Salud (SEDISA)**, and Sociedad Española de Informática de la Salud (SEIS). By investing in the local market and collaborating with them, Better wishes to empower vendors and healthcare organisations with its technology, promote innovation, and contribute to building the healthcare organisations of the future.

Better is also working on a project to develop a **digital electronic health record (EHR) for school nurses** that will replace paper-based records with an efficient EHR platform and enhance healthcare for students across Spain.

As the go-to provider of healthcare solutions that harness the power of openEHR and a key opinion leader in digital health, Better plans to open a **subsidiary in Spain**, and expand across the country. Fuelled by successful implementations across the world, the company will continue to develop its cutting-edge technology and solutions, build partnerships with key stakeholders, and by that, help Spain develop a new healthcare system.



OUR PROJECT PARTNERS

ECHAlliance have been involved in many projects funded by the European Commission over the last 11 years. Our community includes not just our members and our Ecosystems but also our partners with whom we work with in our Innovation Projects. Many of them are our members or ecosystems of course but here are a few who we also partner with. Here are the projects we are involved with and those that contain partners from Spain.

ECHAlliance Projects



Gatekeeper www.gatekeeper-project.eu



GravitateHealth https://www.gravitatehealth.eu



ValueCare https://projectvaluecare.eu



Brainteaser https://brainteaser.health



Beamer https://beamerproject.eu



EUVECA https://euveca.eu



https://sireneproject.eu



BIOMATDB http://biomatdb.eu/



KHealthinAIR https://k-healthinair.eu



AMR-EDU https://www.amreducare.eu/



Notre https://www.linkedin.com/notreproject/ JUST LAUNCHED

Health2Innovation



XpanDH https://xpandh-project.iscte-iul.pt



Gatekeeper www.gatekeeper-project.eu

Medtronic

MEDTRONIC IBERICA SA https://www.medtronic.com/

Medtronic Iberia is a leading medical technology company dedicated to improving healthcare outcomes. Through its innovative products and solutions, the company focuses on advancing medical therapies and patient care in Spain and Portugal, aiming to enhance the quality of life for individuals dealing with various health conditions.



UNIVERSIDAD POLITECNICA DE MADRID https://www.upm.es/

UPM is the largest Spanish technological university specialised in all engineering fields and architecture. Life Supporting Technologies (LifeSTech) is a research, development and innovation group, part of UPM.



MYSPHERA SL https://www.mysphera.com/

MySphera is a cutting-edge healthcare technology company specialising in real-time location systems (RTLS) and workflow optimization solutions for hospitals. Their platform utilises IoT and data analytics to enhance patient flow, staff efficiency, and overall operational performance within healthcare facilities.



CONSORCIO CENTRO DE INVESTIGACIÓN BIOMÉDICA EN RED (CIBER) https://www.ciberisciii.es/

The aim of the Consorcio Centro de Investigación Biomédica en Red, CIBER, a public research consortium set up at the initiative of the <u>Instituto de Salud Carlos III (ISCIII)</u> is to further excellence research in Biomedicine and Health Sciences done in the National Health System and in the Science and Technology System.



FUNDACION TECNALIA RESEARCH & INNOVATION

https://www.tecnalia.com/

TECNALIA is a benchmark European research and technological development centre whose mission is to transform technology into GDP.

Predi[t *By

PREDICTBY https://www.predictby.com/

PredictBy is a trusted research and consulting partner to help you to understand human decision making in real world contexts.



SERVICIO ARAGONÉS DE LA SALUD https://www.aragon.es/

The Aragonese Health Service (SALUD) is the body in charge of the public health benefits system in the Spanish Autonomous Community of Aragon integrated into the National Health System.



SERVICIO VASCO DE SALUD OSAKIDETZA https://www.osakidetza.euskadi.eus/

El Servicio Vasco de Salud Osakidetza is the Basque public healthcare service with a great number of facilities that take care of the needs of the Basque citizens.



SENSE4CARE SL https://www.sense4care.com/

Sense4Care is a company specialised in designing, manufacturing and marketing wearables and medical devices focused on the identification of movement patterns on persons, with the aim of improving quality of life of people with special care requirements.



IBERMÁTICA SA https://ibermatica.com/

Ibermática is a Spanish IT services company based in San Sebastian, Spain. Ibermatica specialised in Finances, Insurance, Public Administration, Health, Education, Services, Industry, Telecommunications IT.



ASOCIACION CENTRO DE EXCELENCIA INTERNACIONAL EN INVESTIGACIÓN SOBRE CRONICIDAD

https://www.kronikgune.org/

tHE Institute for Health Services Research is focused on research of excellence in organisation and management of health and social-health services, and oriented towards the generation and application of knowledge and social and economic value.





POLIBIENESTAR RESEARCH INSTITUTE - UNIVERSITY OF VALENCIA

polibienestar-research-institute/

The Research Institute on Social Welfare Policy (POLIBIENESTAR) is one of the research institutes at Universitat de València. Well-known internationally, its main research areas are innovation in social technology, technical advising and training in the social policy field.



SENIOR EUROPA (K-VELOCE I+D+I) https://kveloce.com/

Senior Europa (K-veloce I+D+i) is a research and development consultancy specialised in R&D project development, implementation, and exploitation.



LAS NAVES https://www.lasnaves.com

LAS NAVES, a foundation promoted by València City Council, focuses on promoting urban innovation with a people-centric approach. It supports initiatives to address real citizenship and urban challenges, using knowledge and technology.





UNIVERSIDAD POLITÉCNICA DE MADRID (UPM) - LIFESTECH

https://www.lst.tfo.upm.es/

Life Supporting Technologies (LifeSTech) is a research, development and innovation group, part of UPM. Its activities are devoted to the design, development and evaluation of ICT based services and applications, for the creation and promotion of new ideas, methods and technological solutions throughout the whole value chain of e-Health, Active and Healthy Ageing and e-Inclusion.



BARCELONA SUPERCOMPUTING CENTER - CENTRO NACIONAL DE SUPERCOMPUTACION https://www.aemps.gob.es/

The Spanish Agency of Medicines and Medical Devices is a regulatory and autonomous agency of the Government of Spain that acts as the highest sanitary authority in the country in terms of medical safety on medicines, health products, cosmetics and personal care products.



PREDICTBY https://www.predictby.com/

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SERVICIO MADRILEÑO DE SALUD -SERMAS

https://www.comunidad.madrid/hospital/ gregoriomaranon/

SERMAS, the biggest regional healthcare organisation in the Spanish National Health Service, is the administrative structure that integrates every public hospital, primary care centres, emergency services and every public health service of the Madrid Regional Health System.





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IDIAP JORDI GOL https://www.idiapjgol.org/

The Foundation University Institute for Primary Health Care Research Jordi Gol i Gurina (IDIAPJGol) is a centre of reference in research and promotion of health at the first level of care that aims to promote and develop innovation, clinical research, epidemiology and in health services in the field of primary care.



BIOMATDB http://biomatdb.eu/



BARCELONA SUPERCOMPUTING CENTER - CENTRO NACIONAL DE SUPERCOMPUTACION https://www.bsc.es/

The Barcelona Supercomputing Center (BSC) is a public research centre driving advancement in diverse fields through high-performance computing (HPC) resources, knowledge generation in areas like computing, earth, life sciences, and Computer Applications in Science and Engineering.



UNIVERSITAT POLITÈCNICA DE CATALUNYA https://biomaterials.upc.edu/en

UPC is the leading Spanish university in Innovation and Technological Development, with more than 28,000 students and 5,000+ staff. It excels in engineering, architecture, and tech research, evidenced by high global scientific rankings due to the dedication of its 206 research groups, leading many national and international R&D projects.



FUNDACIÓN PARA LA INVESTIGACION BIOMEDICA HOSPITAL INFANTIL UNIVERSITARIO NINO JESUS

comunidad.madrid/hospital/ninojesus/

The Foundation for Biomedical Research at Hospital Infantil Universitario Niño Jesús is a non-profit organisation that oversees scientific policy, research, and collaborations to establish a multidisciplinary biomedical research hub for paediatric care at Hospital Universitario Niño Jesús in Madrid.



EUVECA https://euveca.eu



UNIVERSITAT POLITÈCNICA DE VALÈNCIA - UPV

https://www.upv.es/

The Universitat Politècnica de València (UPV) is a public HEI (Higher Education Institution) offering modern degrees, according to the Bologna Process, and official postgraduate programmes, subject to educational quality control systems.



POLIBIENESTAR RESEARCH INSTITUTE - UNIVERSITY OF VALENCIA

polibienestar-research-institute/

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KHealthinAIR https://k-healthinair.eu



FUNDACION CARTIF http://www.cartif.es/

CARTIF is a horizontal, private, and non-profit Research Institution, whose main mission is to provide innovative solutions to the industry to enhance their processes, systems and products, improving their competitiveness and creating new business opportunities.



AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS https://www.iiia.csic.es/

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Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS-CIEMAT

https://www.ciemat.es/

CIEMAT (Center for Energy, Environmental and Technological Research) is a public research body attached to the Spanish Ministry of Science and Innovation through the General Secretariat of Research, mainly focused on the energy and environmental sectors and on the technological sectors connected to both.



ATOS IT SOLUTIONS AND SERVICES IBERIA SL https://atos.net/en/

Atos offers business and services consulting as well as vertical solutions in health, financial, utilities and telecom services.



Senior Europa (K-veloce I+D+i) is a research and development consultancy specialised in R&D project development, implementation, and exploitation.



CONSORCI INSTITUT D'INVESTIGACIONS BIOMÈDIQUES AUGUST PI I SUNYER

https://www.clinicbarcelona.org/en

IDIBAPS is a public institution dedicated to translational research in the field of biomedicine. Its mission is to integrate state-of-the-art basic research and high-quality clinical research.



INBIOT MONITORING SL https://www.inbiot.es/

inBiot designs and manufactures smart solutions for monitoring and improving indoor air quality. Through our innovative and easy-to-use technology, we help companies control air quality, ensuring healthy, safe and sustainable spaces that balance economic growth, social well-being, and environmental concerns.





FUNDACION TECNALIA RESEARCH & INNOVATION

https://www.tecnalia.com/

TECNALIA is a benchmark European research and technological development centre whose mission is to transform technology into GDP.



AMR EDUCare AMR-EDU https://www.amreducare.eu/



BARCELONA SUPERCOMPUTING CENTER - CENTRO NACIONAL DE SUPERCOMPUTACION

https://www.aemps.gob.es/

The Spanish Agency of Medicines and Medical Devices is a regulatory and autonomous agency of the Government of Spain that acts as the highest sanitary authority in the country in terms of medical safety on medicines, health products, cosmetics and personal care products.



ANDALUSIAN HEALTH SERVICE

https://www.sspa.juntadeandalucia.es/

The Andalusian Health Service, the government-run health system for the autonomous community of Andalusia, Spain, was created on May 6, 1986, as an autonomous agency attached to the Regional Ministry of Health of the Andalusian Autonomous Government.



BARCELONA INSTITUTE FOR GLOBAL HEALTH - IS GLOBAL

https://www.isglobal.org/en/

ISGlobal is a public-private partnership with a longstanding commitment to global health that builds on the existing research, training, and health activities of its founders and strives to contribute to the global effort to improve health worldwide.





FOMENTO SAN SEBASTIÁN

https://www.fomentosansebastian.eus

Fomento San Sebastián is the municipal company responsible for the socioeconomic development strategy of Donostia-San Sebastián. They are committed to an innovative, sustainable and intelligent city. They seek cohesion and access to quality employment through programs and to

JUST LAUNCHED

Health2Innovation



UNIVERSITAT POLITÈCNICA DE VALÈNCIA - UPV

https://www.upv.es/

The Universitat Politècnica de València (UPV) is a public HEI (Higher Education Institution) offering modern degrees, according to the Bologna Process, and official postgraduate programmes, subject to educational quality control systems.



XpanDH https://xpandh-project.iscte-iul.pt



MINISTERIO DE SANIDAD (MOH-ES)

https://www.sanidad.gob.es/

Ministerio de Sanidad (MoH-ES) is the national competent authority in Spain for Health and eHealth Services. Under article 40 of the General Health Law 14/1986 of 25th April (Ley 14/1986 General de Sanidad, de 25 de Abril) the State's competence on Health includes the establishment of health information systems within the National Health System (NHS) together with the development of statistics and the setting up of systems for ensuring exchange of information and coordination between the State health administration and the Autonomous Communities.

CONCLUSION

Over the years as we have built up our network in Spain it has become clear that what we have created is a strong community with many dots to connect. Working with our Spanish community of Ecosystems and members as well as partners working in Spain or project partners active in Spain as well as those working in Spain from other countries has unearthed a wealth of information and data about their priorities, actions and programmes.

What is clear is that we have a strong network that is connecting dots within Spain and Europe and beyond. This infrastructure is well equipped to provide a lasting legacy for the Spanish EU Presidency.

We will showcase this during this our ECHAlliance Spanish Ecosystem Gathering that we will host in November alongside our Catalan Ecosystem on the 22nd and 23rd November in Barcelona.

If you want to learn more about this network or indeed be a part of it you can join ECHAlliance - The Global Health Connector here: Join us here











Join Us in Transforming Digital Health!



We are a not-for-profit organisation, operating as a Community interest company (CIC) registered in the UK in Belfast; and a company Limited by Guarantee in Dublin, Ireland.

