

# Guide

# Digital Health companies and institutes

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# Introduction

Nijmegen is known to be highly active in digital health and is home to many digital health companies and care institutes using innovative digital health products. Together they form a complete value chain in the field of digital health. Although the players in the field of digital health often are internationally active, there is also a demand for local and regional collaboration between businesses, education and research institutions, hospitals, and government authorities. The campuses and Health Valley, the largest innovation network in Life Sciences & Health in the Netherlands, fulfil a crucial role in bringing the relevant parties together and profiling the region as “the place to be” in the field of digital health. This brochure aims to clarify which players are active in the area of digital health in the Nijmegen region. We provide this information to parties in the region, in other parts of the Netherlands, and abroad to show the fantastic benefits of trading, working, studying, and living here, and to make the region even stronger!

This brochure was created in cooperation with many different people and organisations.

In particular, we would like to mention:

- Radboudumc
- Novio Tech Campus
- Gemeente Nijmegen
- Briskr

They enabled us to offer you a free listing in this guide. The next update is expected to be published at the end of 2022. Would you like to add your organisation? Do you want to make changes? Please contact us by e-mail at [communicatie@healthvalley.nl](mailto:communicatie@healthvalley.nl).

We hope you enjoy reading this brochure!

**Chris Doornik,**  
Managing Director  
Health Valley



## Colophon

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### Next edition

Any suggestions or changes must be sent to [communicatie@healthvalley.nl](mailto:communicatie@healthvalley.nl).

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### Partners of this brochure

**Radboudumc**



# Preface



Today's challenges for health and healthcare are enormous. This also goes for the Nijmegen region. An aging population, more people with multi-morbidity, shortage of personnel and financial issues are shaking the foundations

of healthcare. Not to mention the additional pressure caused by Covid, of which there is no end in sight yet. Since digitization is one of the biggest drivers of innovation, it is an important focus area within the Health and High-Tech clusters. Digital Health has the potential to make healthcare more sustainable such as by reducing workload and fewer travel movements, but we are just at the beginning and there is still much to be explored.

Fortunately, the Nijmegen region has all the ingredients for digital health to flourish. First, we have a large healthcare sector. In Nijmegen, one in every four people have a job in healthcare which is one of the highest in the country. Second, we should be proud of our human capital possessed by our population, thanks to knowledge institutions like Radboudumc, Radboud University, HAN university of applied sciences, ROC and more. Additionally, human capital can also be found at startups, of which many focus on health or

healthcare. Third and last, our region has all the support that an ecosystem needs including facilities such as living labs and innovation spaces, support organizations such as Health Valley and Briskr, and last but not least investors, who make risk capital available. These prerequisites provide the region with the opportunity for co-creation and validation of digital health innovations and bring them to the market. In short: there is a great opportunity for the entire sector to realize impact for citizens and patients.

Nijmegen has great digital health innovators and even greater innovations. Think about the six ICAI (artificial intelligence) labs focused on healthcare, and the Radboudumc which is one of the world leaders in continuous monitoring of vital signs to identify clinical deterioration, or the Maartenskliniek that uses a Digital Human to support pharmacists.

I congratulate Health Valley, the city of Nijmegen, Radboudumc and other contributors with this beautiful brochure. Hopefully, it will help the ecosystem to start new collaborations which result in better digital health innovations. This will allow patients, healthcare professionals and companies to maximize their benefits.

Let's power the future of healthcare together!

**Tom van de Belt, PhD**  
Digital Health Ambassador Nijmegen Region

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# 1 Government & Campuses

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## 1.1 Arnhem

Arnhem is known for their innovative energy sector and also promotes health companies to settle down in the city. Several (digital) health companies are located in Arnhem of which are some published in this brochure.

Rijnstate is the main hospital of Arnhem. The hospital has a close collaboration with care institutions within Arnhem such as SIZA and Klimmendaal and its neighbour city Nijmegen when it comes to health innovations. The two city councils Arnhem & Nijmegen work and participate together in several projects to boost the Health sector and are strong collaborators in the East of the Netherlands.

Arnhem, naturally, promotes a green city while being a green city. The diversity of the area's parks makes it very inviting to stroll, enjoy a picnic or just be lazy. It is a city with a rich and eventful history such as the Battle of Arnhem.

 **Address**  
Koningstraat 38  
6811 DG Arnhem, The Netherlands

 **Website**  
[www.arnhem.nl/inwoners](http://www.arnhem.nl/inwoners)

 **Telephone**  
+31 8001809

## 1.2 Campus Heyendaal

The place to be in Nijmegen for Digital Health is Campus Heyendaal. In walking distance you will find Radboud University, Radboud University Medical Center, HAN University and Mercator Technology and Science Park with office space and support tailored to the needs of R&D companies in Life Sciences, Health and High Tech. On a daily basis 50.000 students, 20.000 employees, of which 5000 academics, turn excellent science into new innovations and opportunities for society.

 **Address**  
Heyendaalseweg 141  
6525 AJ Nijmegen, The Netherlands

 **E-mail**  
[info@bv-campus.ru.nl](mailto:info@bv-campus.ru.nl)

 **Telephone**  
+31 243616082

 **Website**  
[www.ru.nl/bv-campus/](http://www.ru.nl/bv-campus/)

## 1.3 Nijmegen

Nijmegen is a city which lies in the Dutch province Gelderland. With its population of over 177.000 inhabitants it's the biggest city of East-Netherlands and it's part of the Arnhem-Nijmegen city region, along with 18 other municipalities.

The Romans knew what they were doing over 2,000 years ago in Noviomagus. The Nijmegen region has it all: a perfect position in a magnificent undulating river landscape between the Rhine, Meuse and Waal rivers with lush, fertile river soil in which fruit trees flourish and the branches of the vines reach for the sky.

The city of Nijmegen stimulates green and healthy choices and actively contributes to the well-being of all residents. The city's goal is that all residents feel good about themselves, exercise enough, eat healthier and the health differences in the city become smaller. In order to reach that goal, Nijmegen focuses on digital health innovations that help its residents on regional and national levels.

With universities, hospitals, research, field labs, care institutions, business support, companies and campuses, Nijmegen is the city where innovations are born and it's home to world leading companies and world leaders in the semiconductor industry. Our technology is used all over the world: virtually every electronic device uses

parts from Nijmegen's companies. At the same time, Nijmegen is a city of human-centered research, where more than 300 organizations are working on the future of healthcare on life-changing innovations. Applying the latest technology so people with paraplegia can walk again. Enabling patients who are completely paralyzed to communicate. Developing advanced AI technology to detect the early stages of breast cancer. Using human tissue to make medical implants. Developing medicines that are used all over the world. The future starts in Nijmegen, the city of (digital) health and high tech.

**Address**  
Mariënborg 30  
6511 PS Nijmegen, The Netherlands

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+31 2414 024

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gemeente@nijmegen.nl

**Website**  
www.nijmegen.nl

## 1.4 Novio Tech Campus

Knowledge, business and innovation come together at Novio Tech Campus. Open innovation between researchers and entrepreneurs in Health and High Tech leads to growth, making the campus an innovative hotspot for products and services of a better, healthier world. From a preventive malaria-drug, to a new generation of chips. It's happening at Novio Tech Campus: Where Innovation Works.

Over the past years, Novio Tech Campus has grown strongly. The campus houses over 70 companies, from start-up to multinational, where more than 3.400 people are employed. Novio Tech Campus is the centre of Health and High Tech in the Nijmegen region. Because of the close collaboration with partners in this ecosystem, the campus is able to offer more than just office space. Entrepreneurs on our campus have access to the expertise, facilities and (inter)national networks of companies and knowledge institutions. Start-ups and young companies are provided with an integrated package of facilities and support for their enterprise.

Open innovation is key to Novio Tech Campus. Events lead to networking and collaboration, which often results in exciting projects and initiatives. For example, during regular High Tech oriented meetings where engineers and programmers in the Nijmegen region meet and get updated on developments in technology. Science Meets Business gatherings put up a link between academic research and business. And the Briskr Academy provides Health and High Tech start-ups with relevant knowledge when starting up a company. These events are open to companies on and off campus.

The campus offers high end lab facilities on all ML levels, as well as shared services. For companies who want to build their own premises, there are plenty of opportunities on Novio Tech Campus. Check them out at: [www.noviotechcampus.com](http://www.noviotechcampus.com)

### Services & facilities

When settling on Novio Tech Campus, you are offered a broad range of services and facilities. From entrance to worldclass events to a reception desk that is available

for your questions. Novio Tech Campus offers tailor-made facilities in a close community with a dedicated team that always helps looking for solutions.

### Available spaces

- Cleanrooms
- Pilot plants
- Office spaces
- Different types of laboratories

### Support for your business

- Business support & coaching
- Entrance to knowledge and networking events in Health and High Tech.
- Community activities, eg.: monthly Meet&Eat for all companies on campus.
- Connection with funding partners.
- Access to a Health & High Tech network, as well on campus as on a (inter)national level.

### Services

- Building and site management
- Reception desk (open from 08.00 - 16.30)
- Meeting rooms (from conference rooms to event halls)
- Coffee corners
- Parking lots
- Waste collection
- Security
- EHS and Arbo services
- Emergency Response Service (BHV)
- Goods and mail deliveries
- Cleaning
- Great accessibility by car and public transport (next to the Goffert railway station)

### Shared equipment

Equipment in the Health and High Tech industry can often be of high cost. That's why Novio Tech Campus helps companies through offering various types of equipment:

- HPLC 1: Agilent/HP 1100
- LCMS: Agilent 1260 Infinity with 6-column changer and DAD detector, linked to 6120 Quadrupole MS (single-quad with ESI or APCI source).
- Genevac centrifugal evaporator
- Autoclave
- Fume cupboards
- Gases (natural gas, nitrogen, compressed air)
- Industrial glassware washer
- Various glassware

If the above doesn't meet your requirements, please contact us. Together we will find a solution that fits your challenges.

[www.noviotechcampus.com](http://www.noviotechcampus.com)



#### Address

Transistorweg 7-N  
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#### E-mail

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#### Website

[www.noviotechcampus.com](http://www.noviotechcampus.com)

# 2 Education, Research & Field Labs

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## 2.1 Academy Het Dorp

We believe technology needs a more prominent place in long-term (health)care. Ordinary things are a lot less common when you live with a disability. Technology such as apps, wearables, robotics or home automation can help in increasing their independence or self-sustainability. Something as simple as picking up a pen from the floor can be complicated for people with physical disabilities. People with acquired brain injuries or mental disabilities can be helped in many other ways, e.g. with reminders or guidance that technological solutions can offer. The use of data and technological solutions in long-term care is important for optimizing both the lives of people, clients or patients with disabilities as well as that of their care givers.

We support care organisations as well as tech companies with research, advice, guidance and implementation. Unique in our result-oriented approach is our cooperation with experience experts. As a result, our projects actually add value to the lives of people in long-term care.

### Services & facilities

What services does your organisation offer?

- Consultancy/Advice
- Implementation support
- Scientific Research directed at (cost)effectiveness and implementation strategies

What products does your organisation make?

- Knowledge products

### Expertise or Knowledge

- Scientific Research and validation
- Implementation

- Digital Transformation
- Long-term Healthcare
- Data-driven care
- Inclusion
- Technology and health care real estate development

Who are your current work partners?

- Care organisations, e.g. Siza, Ipse de Bruggen, SGL
- Government, e.g. Ministry of Health/VWS
- Tech companies, e.g. Abena, Tinybots, Kadex, IQ Messenger
- Knowledge and network organisations, e.g. Vilans, OP Oost, TU Eindhoven

Needs for the future of your organisation:

Academy Het Dorp is an independent research and consulting agency, always up for partnerships and projects about technology in disability care.



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Het Oosterveld 1  
6813AZ, Arnhem, The Netherlands

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+31 883779999

**E-mail**  
info@academyhetdorp.nl

**Website**  
www.academyhetdorp.nl

**Number of persons employed**  
27

- Area of activity**
- Research & development
  - Advisory / consultancy
  - Life Sciences / Pharma
  - Care
  - Medical Devices

### Digital Health activities pursued

- Virtual Reality
- Artificial Intelligence
- Digital health
- Wearable
- App
- Robotics
- Data Science

### Area of work (indications)

- Treatment
- Self management / self care



## 2.2 HAN iXperium Centre

HAN University of Applied Sciences is one of the largest universities of applied sciences in the Netherlands, offering high-quality education to more than 35.000 students. Our education and research is practice-oriented. We tailor our courses to real-life situations and teach in a way that is relevant to business and industry. Our students gain valuable hands-on experience during work placements and graduate assignments, therefore we have strong relationships with a wide range of companies in the region but also abroad.

Our research is centred in several Centres of Expertise, among which the HAN BioCentre, and HAN research centre Sustainable Care. In this research centre we work on a number of innovative health related research topics, always starting from the perspective of needs from the professional field. Its research contributes to sustainable patient care and deals with topics like self-management of health professionals, family-oriented care, technological innovation and methods in care and eHealth. In 2019, HAN founded iXperium Health, a lab environment enabling students, researchers and health professionals to experiment with different technologies, in support of their development to become future-proof professionals. The iXperium Health offers a high-end innovation space for inspiration, experimentation, professionalisation, implementation and validation of technology in health and wellbeing. We connect organisations in health care & cure and cocreate interdisciplinary education and research in the field of digital health.

### Services & facilities

What services does your organisation offer?

- Participatory design of digital health products/-services.
- Inspiration sessions for students, researchers and professionals related to the use of technology in health and wellbeing
- Interdisciplinary research in collaboration with HAN research centres
- Tailored professionalisation programs related to digital health
- Tailored implementation programs related to digital health
- Validation research & business cases related to digital health

### Expertise or Knowledge

- IT & Media Design
- Health Studies
- Social Studies
- Allied Health
- Innovation in Sport & Exercise
- Organisation & Development

Who are your current work partners?

Many regional partners in health care & cure, welfare, sports, mental health care, community centres, hospitals.

We are always interested in combining our expertise with other partners in healthcare, education and research.



- Address**  
Kapittelweg 33  
6525 EN Nijmegen, The Netherlands
- Telephone**  
+31 243530500
- E-mail**  
ask@han.nl
- Website**  
www.han.nl/ www.ixperiumhealth.nl
- Number of persons employed**  
4.000+

- Area of activity**
- Research & development
  - Advisory / consultancy
  - Life Sciences / Pharma
  - Care
  - Cure
  - ICT

### Digital Health activities pursued

- Augmented Reality
- Virtual Reality
- Artificial Intelligence
- Digital health
- Wearable
- App
- Robotics
- Data Science
- Security

### Area of work (indications)

- Prevention
- Diagnose
- Treatment
- Self management / self care



## 2.3 Radboudumc Health Innovation Labs

Radboudumc

The Radboud university medical center is a leading academic center, with the mission 'to have a significant impact on healthcare'. At Radboudumc Health Innovation Labs we bring together innovators, knowledge, experience and an inspiring environment to develop state of the art innovations. Our innovation teams co-create, experiment and co-produce healthcare innovations with our healthcare professionals. We also support them to put the promising innovations into practice.

### Services & facilities

What services does your organisation offer?

- Partnership for co-creation and co-production of (digital) healthcare innovations

### Expertise or Knowledge

- Innovation
- Digital Health
- Human centered design
- Person-oriented Healthcare
- Business modelling
- Lean start-up/corporate start-up
- Agile
- Scrum

Who are your current work partners?

We collaborate with all relevant stakeholders of digital innovation according to the principal 'the whole system in the room'. This includes healthcare professionals, patients, business, insurance companies, governmental institutions etc.

Needs for the future of your organisation:

We aim to be a front runner in the development of sustainable, innovative, and affordable healthcare. With a staff of superb medical experts and researchers and a focus on person-oriented care, we are committed to bring our innovations into the world, where more people and next generations can benefit from them. But we cannot do this alone. On this adventure, we want to collaborate with partners from industry and government that share our commitment and uphold the highest standards and ethical behavior. Together, we can solve the huge challenges that global society faces and benefit from today's opportunities, such as artificial intelligence, personalized medicine, and much more. Let's accelerate innovation and partner up!



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### E-mail

healthinnovationlabs@radboudumc.nl



### Website

www.radboudumc.nl/health-innovation-labs



### Number of persons employed

15

### Area of activity

- Innovation
- Research & development

### Digital Health activities pursued

- Artificial Intelligence
- Digital health
- Wearable
- App

### Area of work (indications)

- Prevention
- Diagnose
- Treatment
- Self management / self care



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## 2.4 Radboud University

Radboud University



Radboud University is contributing to a healthy, free world with equal opportunities for all. Radboud University is a private university that owes its origins to the Catholic emancipation movement of the early twentieth century. In keeping with this tradition, staff and students feel a commitment to one another, to society and to the world. Our focus is on caring for each other and the world around us. We remain committed to the empowerment of social and cultural minorities. We want to have an impact, and in this we are guided by both academic questions and societal challenges.

Research and teaching at Radboud University are closely intertwined. Our researchers and students explore and push the frontiers of knowledge and expertise, giving true meaning to their findings. We educate students to become expert, committed, critical and self-confident graduates who help to shape society by taking on positions of responsibility in which they demonstrate their understanding of issues. We are active across a wide range of collaborative disciplines and ask questions about the relationship between academia, society and sense of purpose. We also provide space for open discussion on social and ethical issues.

We stand for the quality and freedom of teaching and research that are both independent and accessible. We encourage an open intellectual climate in which we inspire and challenge one another, a climate in which the talents and abilities of all individuals can flourish. Through rigorous, honest and transparent academic endeavour, we push the boundaries of our knowledge. We have the courage and responsibility to continually subject our findings and ideas to critical review. We reflect on our own actions and offer space for reflection to others.

### Services and Products

*What services does your organisation offer?*

- Research
- Education
- Training Health Care Professionals

### Expertise or Knowledge

- All round university; so both Alpha, gamma and beta sciences are covered.

*Who are your current workpartners?*

To many to mention here; to name but a few: Janssen Pharma, Philips, Siemens, Nutricia, VGZ, Topicus, Nexperia, Artinis Medical Systems, ... etc.

*Needs for the future of your organisation:*

We are looking for partners with whom we can make a significant impact.



### Address

Houtlaan 4  
6525 XZ Nijmegen, The Netherlands



### Telephone

+31 243616161



### E-mail

info@communicatie.ru.nl



### Website

www.ru.nl



### Number of persons employed

Total in fte 5.600+, total students 24.000+

### Area of activity

- Research & development
- Advisory / consultancy
- Life Sciences / Pharma
- Care
- Cure
- Medical Devices
- ICT
- Personalized health care/medicine

### Digital Health activities pursued

- Augmented Reality
- Virtual Reality
- Artificial Intelligence
- Digital health
- Wearable
- App
- Robotics
- Data Science
- XSecurity
- Other: Language technology  
Brain technology

### Area of work (indications)

- Prevention
- Diagnose
- (Personalized) treatment
- Self management / self care

# 3 Healthcare Institutions

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### 3.1 Canisius Wilhelmina Ziekenhuis



Canisius Wilhelmina Ziekenhuis (CWZ) is one of the 27 top clinical training hospitals in the Netherlands. Our hospital has 28 medical specialties, 8 paramedical departments, and 5 departments such as emergency care and IC. Almost 4,000 employees and many volunteers provide personal care to patients every day.

#### Services and Products

What services does your organisation offer?

- Medical specialist care

#### Expertise or Knowledge

- Healthcare

Who are your current workpartners?

Healthcare partners: Patiënten, huisartsen, 3e lijns ziekenhuizen (Radboud), andere ziekenhuizen (Santeon), VVT-sector, overige zorgverleners, health insurance companies.

Technical partners: oa. Chipsoft, Agfa, Philips, GE, Luscii, Ascom, e.v.a (more than 100 partners/suppliers)

Needs for the future of your organisation:

Always open for challenges and opportunity.

**Address**  
Weg door Jonkerbos 100  
6532 SZ Nijmegen, The Netherlands

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+31 243658601

**E-mail**  
raadvanbestuur@cwz.nl

**Website**  
www.cwz.nl

**Number of persons employed**  
± 4.000

- Area of activity**
- Research & development
  - Care
  - Cure

#### Digital Health activities pursued

- Virtual Reality
- Artificial Intelligence
- Digital health
- Wearable
- App
- Robotics
- Data Science
- Security

#### Area of work (indications)

- Prevention
- Diagnose
- Treatment
- Self management / self care

### 3.2 Klimmendaal



If people experience problems in daily life due to illness, congenital disabilities or an accident, rehabilitation may be necessary. Rehabilitation center Klimmendaal is there to help people to achieve an optimal level of social participation by individualized programs. We have expertise in physical and cognitive disabilities and increasingly use digital health to achieve these goals.

#### Services and Products

What services does your organisation offer?

- Rehabilitation programmes
- Clinical treatment

#### Expertise or Knowledge

- Cognition and performance
- Movement and performance

Who are your current workpartners?

Various knowledge- and care institutions in the region.

**Address**  
Heijenoordseweg 5  
6813 GG Arnhem, The Netherlands

**Telephone**  
+31 263526100

**E-mail**  
secr\_zm@klimmendaal.nl

**Website**  
www.klimmendaal.nl

**Number of persons employed**  
786

- Area of activity**
- Care

#### Digital Health activities pursued

- Virtual Reality
- Digital health

#### Area of work (indications)

- Diagnose
- Treatment

### 3.3 Radboudumc

### Radboudumc

Radboud university medical center specializes in patient care, scientific research, teaching and training in Nijmegen. Our mission is to have a significant impact on health care. We aim to be pioneers in shaping the health care of the future. We do this in a person-centered and innovative way.

With over 173.000 patients, 3.700 scientific publications and 3.000 students on a yearly basis, we are one of the leading university medical centers in the Netherlands. Our goal is to be a dot on the healthcare horizon; to be pioneers in shaping a sustainable, innovative and affordable healthcare system for generations to come. We aim to do it better every day by striving for better care, research and education, by furthering our understanding of how to prevent, treat and cure diseases.

*Who are your current workpartners?*

It is our firm belief that cooperation is crucial to shape the healthcare of the future. Therefore, we are continuously expanding our collaborative network with hospitals, healthcare centers and knowledge facilities, primary care professionals and business partners. Our key partners include Maastricht UMC+, Philips and Janssen, as well as many healthcare providers and companies in the Health Valley region.

-  **Address**  
Geert Grooteplein Zuid 10  
6525 GA Nijmegen, The Netherlands
-  **Telephone**  
+31 243611111
-  **Website**  
www.radboudumc.nl/en/partners
-  **Number of persons employed**  
11.923

**Area of activity**

- Education

**Digital Health activities pursued**

- E-consulting
- Predictive Analytics
- Imaging

**Area of work (indications)**

- Research
- Education



### 3.4 Rijnstate

Rijnstate is a top clinical and training hospital with four locations in the Arnhem region in The Netherlands. With 29 medical specialties, 766 patient beds and 5,500 employees we are fully equipped to make a difference in quality of life and health of about 480,000 inhabitants in our region.

Founded in the middle nineties, we are operating in a gradually changing market with on the one hand a gradual separation of elective, acute and complex care inside hospital settings and on the other hand the proven positive effects of hospital care at home. Therefore, Rijnstate is evolving itself as a centre of expertise in a network of care partners.

*Who are your current workpartners?*

General practitioners, nursing homes, Mprove hospitals, Philips, Insurers, University of Twente, Wageningen University and Research, Nutrition & Obesity Treatment

*Our ambitions:*

- Maintain a leading position in acute and complex health care by offering an excellent and innovative climate for training, applied scientific research and innovation;
- Become the 'hospital of the future' by providing the right care in the right place for our patients by facilitating care at home whenever possible;
- Maintain an active real estate strategy aimed at friendly and welcoming care built on modern technology;
- Providing an attractive and modern environment to work and learn (Employee engagement and autonomy)
- Providing medical expertise to health care partners
- Healthy business operations: financially stable organization, coherence in (logistic)processes, excellent accessibility, quality and safety



**Address**  
Wagnerlaan 55  
6815 AD Arnhem, The Netherlands

**Telephone**  
+31 880058888

**Website**  
www.rijnstate.nl

**Number of persons employed**  
5.500

- Area of activity**
- Research & development
  - Advisory / consultancy
  - Life Sciences / Pharma
  - Care
  - Cure
  - Medical Devices
  - ICT

- Digital Health activities pursued**
- Augmented Reality
  - Virtual Reality
  - Artificial Intelligence
  - Digital health
  - Wearable
  - App
  - Robotics
  - Data Science
  - Other: Data/information exchange and collaboration in the region

- Area of work (indications)**
- Prevention
  - Diagnose
  - Treatment
  - Self management / self care

### 3.5 Sint Maartenskliniek

At the Sint Maartenskliniek everything revolves around the human movement. As a specialized hospital, we are a leader in the treatment of postural and movement disorders in the Netherlands and Europe.

The Sint Maartenskliniek offers its treatments and care at various locations in the Netherlands: Nijmegen, Woerden, Boxmeer, Panningen and Geldrop.

The Sint Maartenkliniek is known for its approach concerning complex disorders. We focus on the treatment of all orthopedic disorders, rheumatic diseases and rehabilitation after illness or an accident.

**Address**  
Hengstdal 3  
6574 NA Ubbergen, The Netherlands

**Telephone**  
+31 243659911

**E-mail**  
contact@maartenskliniek.nl

**Website**  
www.maartenskliniek.nl





# 4 Business Support

Guide  
**Digital Health**  
companies and institutes

## 4.1 Briskr



Innovation is key to economic growth and the creation of employment. Start-ups, scale-ups and grown-ups encounter many challenges in their road to successful growth. Briskr is a consortium of organizations that supports entrepreneurs in Health and High Tech (H&HT) who are facing these challenges.

Briskr is the program that helps startups and SME's to grow faster and make a bigger impact on Health and High Tech. Companies in these sectors encounter a lot of challenges in their road to successful growth. We support entrepreneurs in facing these challenges through training and financial tools.

Briskr believes that interaction between knowledge-intensive companies, knowledge institutions like universities and governmental institutions is essential to realize innovation. This interaction is even more important in the top sectors Life Science & Health, High Tech Systems and Materials and Chemistry or any cross-over between these sectors.

That's why Briskr offers a specific set of tools to entrepreneurs in the above sectors.

- *Scouting and screening* of new and promising companies who can benefit from the support of Briskr
- Once a company has been scouted, its questions and challenges are presented to the Briskr partners. Together they ensure that the business receives 'tailor-made' support.

- *The Briskr Academy* offers workshops and events on various themes, from Intellectual Property (IP), company valuation to privacy regulations for SMEs.

The Briskr consortium consists of the regional key players in the Health and High Tech sectors and consists of: The Economic Board Arnhem/Nijmegen, HighTechNL, Municipality of Nijmegen, Health Valley Netherlands, Kadans Science Partner, Novio Tech Campus, East Netherlands Development Agency (Oost NL), Province of Gelderland, Radboud University, Radboudumc, HAN University of Applied Sciences and SMB Life Sciences.

Also, several companies are supporting partners committed to helping new entrepreneurs grow: Aeternus company, BDO, EP&C patent lawyers, Poelmann van den Broek lawyers and the Rabobank

**Address**  
Transistorweg 7  
6534 AT Nijmegen, The Netherlands

**E-mail**  
info@briskr.eu

**Telephone**  
+31 242049061

**Website**  
www.briskr.eu

## 4.2 HAN CvVO



The Centre of Entrepreneurship (CoE) is a central department of the HAN University of applied sciences (Hogeschool van Arnhem en Nijmegen). The HAN has about 35.000 bachelor students in several disciplines. There are about 40 research groups. Health is one of the three strategic areas of the HAN. The HAN also offers master programs and post university training facilities.

Targets groups of the CoE are students, alumni and other persons and organizations who are interested in entrepreneurship. This CeO is also active in regional and (inter-)national projects to stimulate entrepreneurship, startups and innovation.

The HAN and the Centre of Entrepreneurship offers the following services for SME's and entrepreneurs:

- Courses in entrepreneurship
- Entrepreneurship events
- Finance for early stage startups
- Networks
- Individual support for (student-)entrepreneurs
- Projects to stimulate entrepreneurship
- Links to students for internships and practical training
- Connections to research facilities and researchers.

The Centre of Entrepreneurship of the HAN works together with:

- The Mercator Launch (Radboud University, UMC, HAN)
- Gelderland valoriseert foundation (finance for startups)
- ORION, 10 partners (universities and regional organizations) project to support startups
- Startup Nijmegen (facilities and support for entrepreneurs)
- Startup Delta and Startup Gelderland
- Young in Business (network of about 400 HAN student-entrepreneurs)
- Startlife (Food-Agri) and Briskr (Health, E-Health and Tech) for supporting startups in the region. ORION focuses on the other sectors (Energy, Creative industries, ICT, cross overs, etc.)
- Local, regional and national governmental organizations to stimulate entrepreneurship
- Health Valley, Food Valley, Kiemt (Energy)
- Oost NL (regional economic development organization) and The Economic Board.
- Incubators (IPKW Arnhem, Novio Tech Campus Nijmegen, Mercator etc.)
- National researchers on entrepreneurship and family business.

**Address**  
Ruitenberglaan 26  
6826 CC Arnhem, The Netherlands

**E-mail**  
cvvo@han.nl

**Telephone**  
+31 (0)610311599 (CoE office)  
+31 (0)263658266  
+31(0)651284653 (Geert-Jan Sweers)

**Website**  
www.han.nl/cvvo

### 4.3 Health Valley Netherlands



Strengthening the power of innovation. Health Valley Netherlands is the biggest Life Sciences & Health innovation network in the Netherlands. The network unites companies, care organisations, knowledge institutes and authorities, and enables them to grow stronger together. Whether we're providing developers with care needs and requirements or delivering innovations to the patient: we bring technology to the care sector, together. Real innovative power develops where the needs of the care sector are integrated into relevant knowledge and expertise, resulting in technological innovations, new medicines or devices, and other methods of working. Through a combination of innovative, market and entrepreneurial strength, our partners give an unmistakable boost to the care sector and also encourage economic growth.

As the Netherlands' largest innovation network in Life Sciences and Health, we have dedicated ourselves to making a difference for more than ten years. We are based in the eastern Netherlands, with locations in Nijmegen and Enschede, but our work reaches across the Netherlands and even beyond its borders through our collaborations with many national and international partners. We are always strengthening our position at both the domestic and global levels.

#### Based in The Netherlands?

Innovation network Health Valley primarily boosts the innovation capability of companies and care providers based in The Netherlands. If your company is based in The Netherlands and active in the field of Life Sciences & Health, becoming a partner of our network may be beneficial to help you reach your national or international goals.

#### Planning to base your company in The Netherlands?

Health Valley partners with Oost NL to support international companies active in the field of Life

Sciences & Health in the eastern Netherlands. Oost NL assists foreign companies wishing to establish their businesses in the eastern Netherlands with locations, expansion, and relocation services, free of charge.

#### Do you want to realise innovative ideas through a public-private partnership?

Health Valley assists partners to realise innovative projects by bringing together knowledge institutes, companies, and healthcare organisations. For this purpose we are open to cooperating with other cluster organisations in Life Sciences & Health.

#### For international companies from outside the European Union

If you are an entrepreneur or company (from outside the European Union) thinking of establishing your business in The Netherlands, please find information to facilitator services [here](#).

**Address**  
Transistorweg 7R  
6534 AT Nijmegen, The Netherlands

**Telephone**  
+31 243558737

**E-mail**  
info@healthvalley.nl

**Website**  
www.healthvalley.nl

### 4.4 Mercator Launch



Mercator Launch is a pre-incubation platform founded by the Radboud University together with partner Radboudumc & HAN and offers a 12 week IMPROVE program to early phase entrepreneurs at the Heyendaal Campus. The program is created to support students, researchers and alumni in the difficult phase from academic environment to incubation and focuses on validation of their ideas. Besides the Improve program Mercator Launch also boosts awareness on entrepreneurship and entrepreneurial skills at the Heyendaal campus. Finally, the program connects ideas and entrepreneurs with the regional and national start-up ecosystem and provides showcases of innovative start-ups that emerge from these partnering knowledge institutions.

You can find Mercator Launch at the Mercator Science and Technology Park and you can turn to Mercator Launch for:

- Inspiring and informative workshops and events
- 1-on-1 coaching & business support
- Workplaces
- R&D facilities
- Funding
- Network, Field Experts, Interesting contacts, such as Business Developers, Investors, fund managers, accountants, lawyers, potential clients etc.

**Address**  
Toernooiveld 100  
6525 EC Nijmegen, The Netherlands

**E-mail**  
hello@mercatorlaunch.nl

**Website**  
www.mercatorlaunch.nl



## 4.5 Oost NL



We offer companies a 'soft landing' in East Netherlands. Oost NL (East Netherlands Development Agency) focuses its activities and projects on strengthening and stimulating the economy of the provinces of Gelderland and Overijssel, the Netherlands. We work with regional businesses and are commissioned by the Ministry of Economic Affairs and Climate Policy and the respective provinces.

Oost NL plays an important role in executing the economic policies of the Dutch government and the provinces of Gelderland and Overijssel and its various city governments. To achieve this it is necessary to encourage a close cooperation between businesses, regional institutes, knowledge institutes, and intermediaries. Oost NL acts as a bridge between government, companies and knowledge institutes.

In line with the government's 'top sector policy', we focus on areas such as the top sector Life Sciences & Health, including Drug Discovery & Development. A team of specialists aids businesses in this sector, through our three main activities:

### *Innovation*

We support the regional business environment by helping city governments and SMEs to bring innovations to market. This is done with knowledge, access to funding (including European-wide funds), networking and one-on-one contacts. The results: fundable business cases (usually focused on market introductions), innovation projects and programs, open innovation centers and establishing campuses.

### *Investments*

We invest in starting and growth-phase SMEs. We do this partly with risk capital from various revolving innovation funds, and partly through our knowledge, networks and personal contacts. Through the revolving funds we provide for direct as well as indirect investment and take care of the fund management. In addition, we stimulate and support public and private investors. The result: growth through financing.

### *Internationalization*

We offer companies from outside the Netherlands, as well as from other regions of the country, a 'soft landing' in East Netherlands. Through us, international companies gain access to our regional networks as well as assistance with trade promotion. We help owners of SME's from East Netherlands to internationalize through matchmaking via our worldwide network of partners.

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- Website**  
www.oostnl.com
- Contactperson**  
Susan van Boxtel, team manager Health & Food  
susan.vanboxtel@oostnl.nl  
+31 618416745

## 4.6 Raboudumc Valorization

## Radboudumc

Through collaborative research, clinical studies, shared facilities, intellectual property protection, licensing, and spin-off businesses, the medical center aims to have a significant impact on healthcare. Examples of our impact are our renown research lines on prostate cancer, on malaria, and on the immune system, the diagnostic test for Q-fever, the surgical robot for MRI, ParkinsonNet, the diagnostic SelectMDx test for prostate cancer, and our spin-off companies, such as Thirona and Screenpoint.

We have extensive experience in collaborating with industry ranging from big pharma, bio tech to start-up companies in R&D and clinical trials. Annually, our department evaluates over 1,400 contracts and 14 invention disclosures, and supports the founding of 3 spin-off companies.

### *Business Development*

Besides stimulating and negotiating research collaborations, we support the creation of spin-off companies with technologies from Radboudumc by evaluating business plans, protecting IP rights, negotiating license agreements, searching for initial funding and initiating contact with candidate-CEOs and other experts.

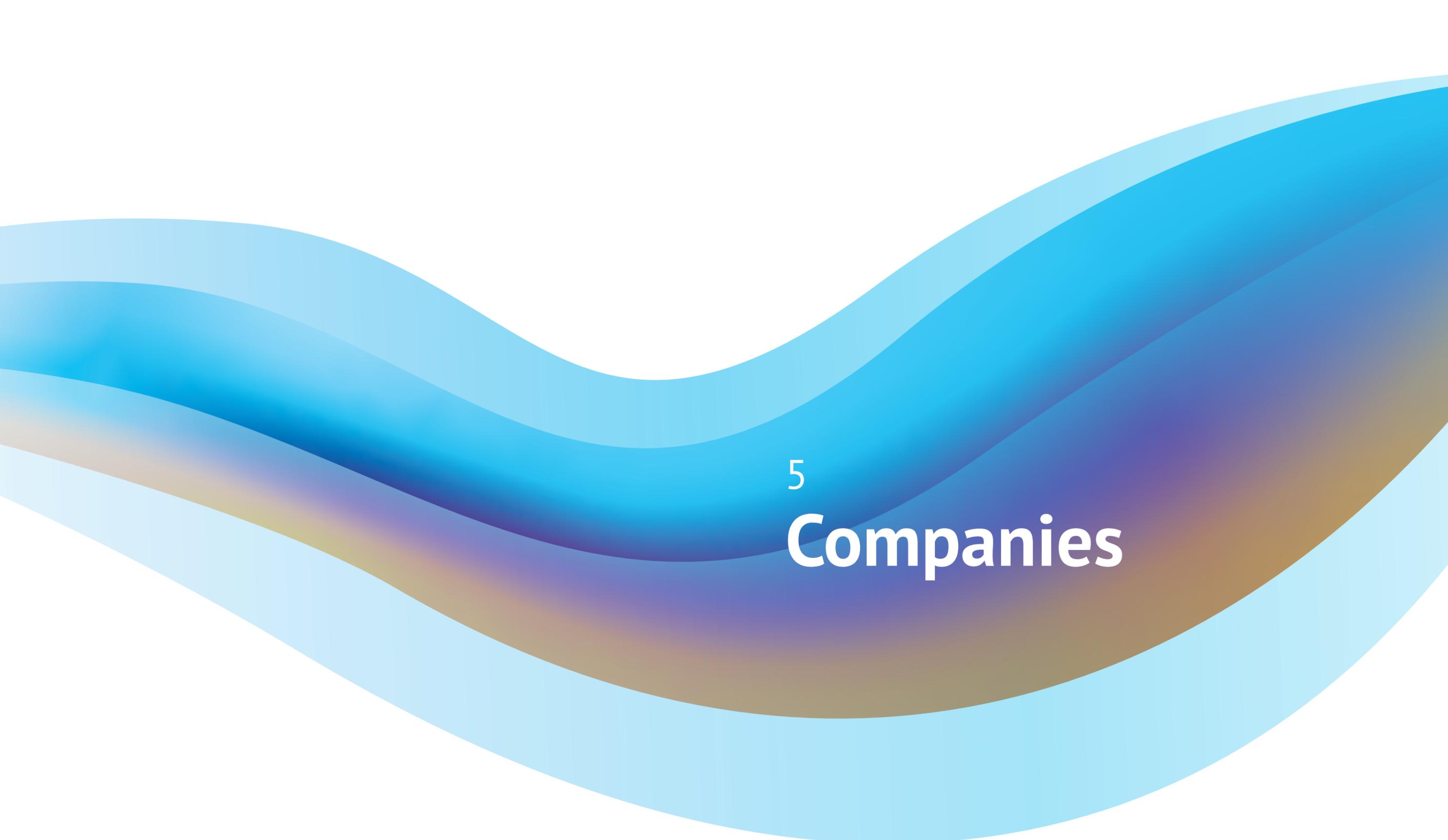
We recently strengthened our collaboration with Janssen Pharmaceutica NV, Janssen-Cilag B.V. and Janssen Vaccines & Prevention B.V. to bring high quality innovative academic research faster to the patient and we concluded a partnership with Viiv Healthcare for identification of novel targets in HIV.

### *Grant Support Office*

We support researchers and entrepreneurs at Radboudumc in acquiring funding from national and international sources. Our team also coordinates complex grant projects and is the initial contact point for funding bodies and companies.

- Address**  
Reinier Postlaan 2  
6525 GC Nijmegen, The Netherlands
- Telephone**  
+31 243618937

- E-mail**  
secretariaat.val@radboudumc.nl
- Website**  
www.radboudumc.nl/en/partners



# 5 Companies

Guide  
**Digital Health**  
companies and institutes

## 5.1 Bio-Product / Helix Lab

Helix Labs is an initiative by Bio-Product dedicated to providing state of the art protein predictions. Bio-Product has been providing leading edge protein information to top companies for over 10 years. Bio-Product commercialises 3DM, innovative protein-family data integration systems. These automated systems use a unique technology to collect and integrate comprehensive protein-related data, including data on sequences, structures, mutations, interactions and ligand binding, from an extensive range of sources. Helix Labs uses the knowledge and data gathered in that effort to produce the best available protein predictions.

Powered by a young team of bioinformatics and AI experts, Helix Labs provides products and services for customers all over the world, including biotech and pharmaceutical companies, as well as universities and hospitals. As a partner in a number of highly innovative EU-funded research collaborations, Helix Labs operates at the frontier of protein AI solutions. Whether you are looking for solutions regarding missense variant prediction or navigation of complex protein fitness landscapes, Helix Labs emphasizes a collaborative approach - we work with you to make our products work *for you*.

### Services and Products

*What products does your organisation make?*

- We provide Helix - a state of the art, AI based missense pathogenicity prediction platform for the entire human proteome. Helix provides high-quality predictions together with detailed variant reports that contain references to relevant scientific literature, information about evolutionary constraints, underlying data quality assessment and interactive protein structures.
- To incorporate Helix predictions in in-house pipelines, Helix offers APIs that allow access to all predictions and the underlying data in a machine readable format. These APIs are fast and well-documented.
- Helix predictions and associated tooling are available for other organisms

*What services does your organisation offer?*

- We work with our clients to make sure Helix works for them, based on our collaborative approach. We give insights into the underlying data and predictions themselves to calibrate Helix for your problem set.

### Expertise or Knowledge

- An initiative of Bio-Product, a company with over 12 years of experience in developing protein data analytics platforms, guiding protein engineering projects and variant interpretation.
- Experts on the latest Machine Learning techniques, including Deep Learning, Transformers and Explainable AI.
- Demonstrated experience in setting up (funded) collaborations with academic and commercial partners.

*Who are your current workpartners?*

We work with academic institutions like the Radboud University Medical Center and Leiden University Medical Center. We are involved in several leading multi-disciplined groups in EU projects like BRIDGES. We also work with commercial biotech partners like DSM and several of the top 10 pharmaceutical companies.

*Needs for the future of your organisation*

We are always looking to further validate our pathogenicity prediction and protein engineering models in cooperation with academic and commercial organizations.

**Address**  
Nieuwe Marktstraat 54E  
6511 AA Nijmegen, The Netherlands

**Telephone**  
+31 248457988

**E-mail**  
info@helixlabs.ai

**Website**  
www.helixlabs.ai

**Number of persons employed**  
5

**Area of activity**

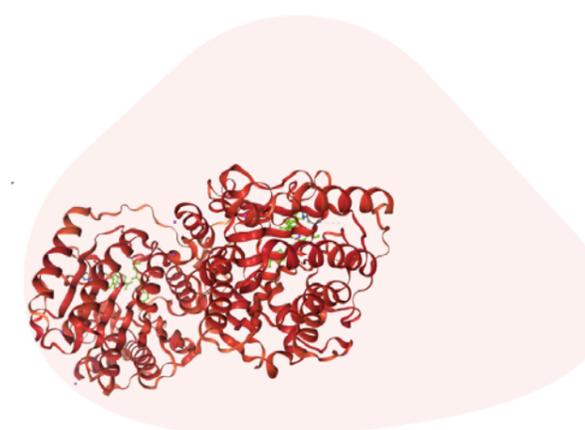
- Research & development
- ICT

**Digital Health activities pursued**

- Artificial Intelligence
- Data Science

**Area of work (indications)**

- Prevention
- Diagnose



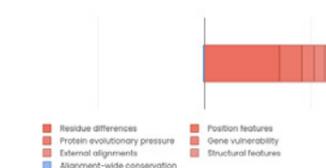
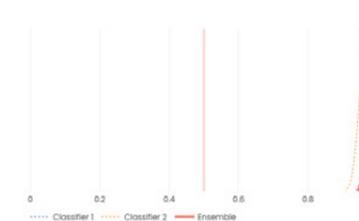
### Helix prediction details

Prediction: **pathogenic** 97%

The His201Tyr mutation in the protein has been classified as pathogenic by our ensemble classifier system, with very high confidence. There is a 98% agreement between all subclassifiers.

### Data quality

Data quality for this region is considered **good**. This means that enhanced, deep alignments are present and there is a variety of data for the algorithm to predict from.



### Prediction factors

External models have estimated which sets of features contributed primarily to the classification. These sets of features are listed here.

### Primary contributing factors

- Residue differences point towards pathogenic
- Position features point towards pathogenic
- Protein evolutionary pressure points towards pathogenic
- Gene vulnerability points towards pathogenic

## 5.2 Cardiomo



AI-based solution for remote patient monitoring and diagnostics that enables smart, continuous, real time and cost-effective monitoring of patients outside of hospital settings.

### Services and Products

*What services does your organisation offer?*

- AI-based continuous remote cardiac monitoring solution that can remotely monitor patient vitals (such as ECG, BPM, respiration rate, temperature, body position and activities) and accurately detect a host of arrhythmias, falls, general health status, report events, call for help as well as provide additional relevant information to patient, family members and healthcare professionals.
- Reduces the cost of care through the connected care model by preventing cardiac complications and reducing hospital admissions, freeing up critical hospital resources for emergency and high-dependency conditions.

*What products does your organisation make?*

- Cardiomo Patch - wearable device - lightweight, non-invasive, wireless, water-resistant, rechargeable, intended for multiple-patient use

- Cardiomo analytic platform that analyzing the data and predicting cardiac event in real-time and professional dashboard with access to real-time information.

### Expertise or Knowledge

- Business development
- Hardware engineering, software development

*Who are your current workpartners?*

Radboud UMC, Naast

*Needs for the future of your organisation:*

We would like to collaborate with a healthcare partner (especially cardiologists) who is able to use the system in their practices and help us to validate the solution for market launch and commercialization.

**Address**  
Transistorweg 7  
6434 AT Nijmegen, The Netherlands

**Telephone**  
+31 651178284

**E-mail**  
k.belkina@cardiomo.com

**Website**  
www.cardiomo.com

**Number of persons employed**  
6

### Area of activity

- Medical Devices

### Digital Health activities pursued

- Artificial Intelligence
- Digital health
- Wearable
- App

### Area of work (indications)

- Prevention
- Diagnose

## 5.3 Cedexis Medical Eyewear



Since 2011 Cedexis has been working with medical professionals from various fields to optimally develop video glasses for use in (Semi) Medical Healthcare. These Near Eye Display or Head Mounted Display solutions are the only hardware currently available that are truly developed for use in all (semi) medical environments. They are easy to clean, are guaranteed a plug-and-play solution on any device and tailor made to function optimally for your user case. In January 2022 we will launch our new series video glasses named Cedexis VIZO (Videobril voor de ZOrg).

With all our knowledge of video glasses used in the medical environment, we can also be your independent partner for advice about possible hardware solutions and implementation of video glasses in your company such as Virtual-, Augmented- or Mixed Reality solutions.

### Services and Products

*What services does your organisation offer?*

- Tailor made solutions for implementation and use of Cedexis VIZO video glasses
- Extensive (international) service programs for the Cedexis VIZO video glasses
- Independent advice on purchase projects concerning VR/AR/MR hardware solutions.

*What products does your organisation make?*

- Cedexis VIZO near eye video glasses
- Cedexis VIZO head mounted display
- Complete A to Z implementation projects for video glasses use in medical environments

### Expertise or Knowledge

- Implementation and use of video glasses in (semi) medical environments
- Providing the best possible level of pre- and after sales service

*Who are your current workpartners?*

The Cedexis video glasses are currently used at 200+ locations worldwide. For all these locations we provide after sales service. Within Europe we can even provide next-business-day service on site.

*Needs for the future of your organisation:*

We are always looking out for partners that can bring our product further. Both in optimizing the product but also extending our reach of product market. Please contact us when you feel you can help us or when we can help you.

**Address**  
Zonnebloomveld 3  
6641 TA Beuningen Gld, The Netherlands

**Telephone**  
+31 242022288

**E-mail**  
info@cedexiseyewear.com

**Website**  
www.cedexis.nl

**Number of persons employed**  
1

**Area of activity**

- Research & development
- Advisory / consultancy
- Medical Devices

**Digital Health activities pursued**

- Augmented Reality
- Virtual Reality
- Wearable
- Other: Video Glasses for healthcare

**Area of work (indications)**

- Diagnose
- Self management / self care

## 5.4 ConnectedCare

ConnectedCare BV is an e-health design agency based in Nijmegen. ConnectedCare is an experienced partner in (European) innovation projects, and focuses on designing, developing and commercializing e-health innovations. Our team of designers, software developers, implementation experts and business developers is experienced in user-centered design, from the early phases of the design process to the final product evaluation, concept development and interaction design, software development and prototype building, and validating/testing.

Three examples of proven concepts being developed by ConnectedCare are:

- Liz, the digital care assistant. Liz is an embodied digital coach that supports the patient at home. Liz collaborates with the healthcare professional and aims to help the patient in behavior change. Pilots are currently being conducted in the domains of nutrition (with HAN), recovery (with Radboud UMC) and revalidation.
- MyMedication – a digital platform that supports patients in self-management of medication, and that supports pharmacists in optimizing the process of medication review.
- GUARDIAN – a robot companion for seniors in need of home care. The robot companion complements the nurse, and provides help with daily routines, personalized care and social companionship.

### Services and Products

*What services does your organisation offer?*

- Design & concept development
- Validation & field testing
- Business development
- Proposal writing

*What products does your organisation make?*

- Embodied digital coach Liz ([www.halloliz.nl](http://www.halloliz.nl))
- Dementiewijzer Delft ([www.dementiewijzerdelft.nl](http://www.dementiewijzerdelft.nl))
- MijnMedicatie platform

### Expertise or Knowledge

- Design & concept development
- Blended care & e-health innovation
- Behavior change
- Redesign of care paths and patient journeys
- Implementation and organisational change
- Validation & field trials
- Business development
- Proposal writing

ConnectedCare is an experienced partner in national and European e-health innovation projects. Partners include care organizations, universities and innovative SMEs.

We are looking for healthcare partners who want to use innovative digital solutions to improve the quality and efficiency of care, in particular in the domain of remote support of therapy of patients at home through digital coaching.

- Address**  
Jonkerbosplein 52  
6534 AB Nijmegen, The Netherlands
- Telephone**  
+31 851303600 (office)  
+31 624273446 (Martijn Vastenburg)
- E-mail**  
contact@connectedcare.nl
- Website**  
www.connectedcare.nl
- Number of persons employed**  
8

- Area of activity**
- Design & Concept development
  - Research & development
  - Advisory / consultancy
  - ICT

- Digital Health activities pursued**
- Artificial Intelligence
  - Digital health
  - App
  - Robotics
  - Other: Social robotics

- Area of work (indications)**
- Behavior change
  - Hospital-to-home
  - Prevention
  - Treatment
  - Self management / self care
  - Remote monitoring
  - Day structure

## 5.5 DeepDee

DeepDee is a Dutch Medtech company deep learning process and delivery platform. We provide hardware-independent AI for reliable medical diagnosing of eye diseases. Extending retinal screening beyond clinics with advanced AI.

- Services and Products**
- What services does your organisation offer?*
- SaaS
- What products does your organisation make?*
- Software

- Expertise or Knowledge**
- Rotterdam Eye Hospital, Rotterdam Eye Institute
- Who are your current workpartners?*
- We are looking for a healthcare partner who is able to validate our software product in the screening of Diabetic Retinopathy.

- Address**  
Transistorweg 7  
6534 AT Nijmegen, The Netherlands
- Telephone**  
+31 618513270
- E-mail**  
info@deepdee.org
- Website**  
www.deepdee.org
- Number of persons employed**  
3

- Area of activity**
- Research & development
  - Life Sciences / Pharma
  - Care
  - ICT
- Digital Health activities pursued**
- Artificial Intelligence
  - Digital health
- Area of work (indications)**
- Prevention
  - Diagnose
  - Self management / self care

### Self reporting

Liz provides self-reports to monitor patient status. Based on aggregated data, the healthcare professional can make adjustments when needed.

### Motivation

Liz provides direct feedback, motivating the patient to achieve predefined goals.

### Goals and Reminders

The patient and the healthcare professional set goals together. Liz helps with reminders, and provides effort-based rewards.

### Advice

The healthcare professional can upload videos and information for the individual patient. Liz provides access to this information, and draws attention to the information when needed.



## 5.6 Inter

In the past 50+ years, INTER expanded from being a distributor of audio-visual solutions to a renowned Medical systems integrator and IT / process consultant. We serve domestic and international hospitals with medical solutions that support users in critical and complex environment such as the operating theatre to make better decisions based on more complete and accurate information. Our passion for technology and a close collaboration with our customers and other partners are the foundation of our continuous development of innovative OR-solutions that contribute to process optimisation for the surgical teams.

### Services and Products

*What services does your organisation offer?*

- Medical system integration in the field of digital OR's, medical multidisciplinary meeting rooms, Hospital control centers.
- Medical AV/IT process consultant in the field of digital OR's, medical multidisciplinary meeting rooms, Hospital control centers.
- Medical Software developer for the digital OR
- Medical displays for diagnostics

*What products does your organisation make?*

- [ORflow video switching](#)
- [iMAS essentials for recording and streaming](#)
- Image management solutions in the field of digital OR's, medical multidisciplinary meeting rooms, Hospital control centers.

### Expertise or Knowledge

- Medical system integration in the field of digital OR's, medical multidisciplinary meeting rooms, Hospital control centers.
- Medical AV/IT process consultant in the field of digital OR's, medical multidisciplinary meeting rooms, Hospital control centers.
- Medical Software developer for the digital OR

*Who are your current workpartners?*

Barco, Technolution, Videobutler/Wortell, Weytec



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6921 RW Duiven, The Netherlands

**Telephone**  
+31 263196969

**E-mail**  
contact@inter.nl

**Website**  
www.inter.nl  
www.interforwardsolutions.com

**Number of persons employed**  
95+

### Area of activity

- Care
- ICT

### Digital Health activities pursued

- Digital health
- Other: - Medical system integrator  
- Medical AV/IT process consultant  
- Medical Software developer for the digital OR:
  - > [ORflow video switching](#)
  - > [iMAS essentials for recording and streaming](#)
  - > Image management
  - > Medical displays for diagnostics

### Area of work (indications)

- Prevention
- Diagnose



## 5.7 MindAffect



MindAffect, B.V., an NLC / Donders Institute venture, is specialized in the application of artificial intelligence and neuroscience to enhance human communication and neural circuit testing. MindAffect's strength is its unique patented AI algorithms which interpret brain signals and to use those signals to direct communication or conversely to use the signals to determine the validity (or health) of the sensory pathway. Our systems will provide diagnostic information faster, lower cost and require no patient response to diagnose and monitor health issues or diseases related to Vision, Hearing and Brain Health for all segments of the population – even those who are unable to communicate due to age, infirmity or cognitive capacity.

### Services and Products

*What services does your organisation offer?*

- We work together with industry leaders as the BCI AI R&D partner to create the next generation of diagnostic systems

*What products does your organisation make?*

- We develop the software for EEG headsets that can analyse the vision and hearing acuity for patients

### Expertise or Knowledge

- Leaders in BCI, AI technology

*Who are your current workpartners?*

We are in discussions with several large corporates in the area of Hearing Aids, Vision testing and silent communications

*Needs for the future of your organisation:*

We are looking for healthcare partners who are in need of a diagnostic system in Vision, Hearing and Brain Health.



### Address

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### Telephone

+31 630137171



### E-mail

jgoodall@c41capital.com



### Website

www.mindaffect.nl



### Number of persons employed

4

### Area of activity

- Research & development
- Medical Devices (EEG based diagnostics)

### Digital Health activities pursued

- Virtual Reality
- Artificial Intelligence
- Data Science
- Other: Vision, Hearing, Brain Health Diagnostics, also BCI communication

### Area of work (indications)

- Diagnose





## 5.8 Orikami

Orikami is a Dutch eHealth organization specialized in applied data science and development and implementation of digital biomarkers to enable personalized healthcare for people with chronic diseases. With a team of data scientists and researchers we are on a mission to improve 100 million lives before 2030 by access to personalized healthcare. We believe health data is underutilized. We use real world patient data to enable personalized healthcare paths for our clients to improve outcomes, quality of life and affordable healthcare. Therefore, we develop digital biomarkers.

Digital biomarkers are defined as objective, quantifiable physiological and behavioural data that are collected and measured by means of digital devices such as portables, wearables, implantables or ingestibles. The collected data is typically used to monitor, explain, influence and/or predict health-related outcomes. Advanced analytics, machine learning, artificial intelligence: developments in the field of decision-making based on data analysis are moving fast. Data in healthcare matters!

- Dr Bart is a personal lifestyle coach app that patients use on their own mobile phone using the Tiny Habits principle. Developed specifically for knee and hip osteoarthritis patients, dr. Bart supports patients to manage their disease,
- The Orikami Digital Biomarker Platform, a standardised environment where Digital biomarker components, Data sets and our Quality system can be re-used for our partners.

### Services and Products

*What services does your organisation offer?*

- Digital biomarkers development
- Disease specific solutions
- Consultancy / Project services where combined data science/clinical knowledge is required.

### Expertise or Knowledge

- AI & data science
- Neurology
- The combination of Data science & Clinical knowledge

*What products does your organisation make?*

- MS Sherpa is a medical system that monitors the course of symptoms related to Multiple Sclerosis. Medical specialists and patients use MS Sherpa to gain better insights in disease activity and disease progression and enable personalized healthcare.

[www.mssherpa.com](http://www.mssherpa.com)

*Who are your current workpartners?*

Our partners are in the entire value chain of healthcare: research centers (incl UMCs), hospitals, pharma, patient organisations, healthcare insurance companies.

*Needs for the future of your organisation:*

We are always interested to explore new (joint) initiatives in digital biomarker development.



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### Number of persons employed

25

### Area of activity

- Research & development
- Advisory / consultancy
- Life Sciences / Pharma
- Medical Devices

### Digital Health activities pursued

- Artificial Intelligence
- Digital health
- App
- Data Science

### Area of work (indications)

- Prevention
- Treatment
- Self management / self care

## 5.9 Parkinson Smartwatch

*Providing Parkinson patients improved quality of life at lower healthcare costs.*  
 The Parkinson Smartwatch BV company (PSW) is committed to improve the life of patients with Parkinson through smart use of information technology. Our approach ensures a better quality of life for patients during the long-term treatment. This includes an increased level of independence, productiveness, and happiness. At the same time, a reduction in healthcare costs is realized.

With the Parkinson Smartwatch PSW developed a practical monitoring and communication device, which feeds the web-based information portal. This system offers a secure, proven solution for the needs of the (clinical) practice, supporting the different aspects of Parkinson's disease through modules like movement registration, pharmacotherapy, and symptom registration.

With its unique system, PSW provides patients and doctors with a much more accurate understanding of the condition and needs of the individual Parkinson patient. Both patient and care team are able to monitor the disease in a more detailed way, and the treatment schedule can be adjusted accordingly. The Parkinson Smartwatch is a certified medical device – MDD Class Im and CE.

PSW emerged from an initiative of a seasoned neurologist, leveraging from his own Parkinson practice, and digital technology innovator focusing on medical applications. Meanwhile, many patients and their care-teams have been working with our product. Besides next innovation steps, we are now focusing on the market entry throughout western Europe, with first steps set in Germany.

### Services and Products

- Parkinson Smartwatch – a medical device (Class Im) registering health-relevant data
- Web portal displaying essential information for medication optimisation and improved patient well-being

### Expertise or Knowledge

- Continuous Parkinson patients' condition tracking
- Secured information sharing for optimised medication planning
- Communication within the Parkinson patient relevant eco-system

### Who are your current workpartners?

- Insurer CZ Group
- Hospital Canisius Wilhelmina Ziekenhuis Nijmegen
- Hospital Elisabeth-TweeSteden Ziekenhuis Tilburg
- Home care organisation Sensire
- Germany: InterMedCon



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- Number of persons employed**  
6

- Area of activity**
  - Medical Devices

### Digital Health activities pursued

- Digital health
- Wearable

### Area of work (indications)

- Diagnose
- Treatment
- Self management / self care

## 5.10 Proud Nerds

Proud Nerds exists of real nerds; strategists, professionals and perfectionists who are good at their profession, developing digital solutions. We are proud to do that as a full-service digital agency. We offer tail-made digital customer solutions, such as websites, web shops and apps. The service is entirely focused on the user experience so that users experience an optimal customer journey. We do this by acting and thinking as that user and developing unique customer journeys for each target group. We will maintain to focus on the real user until completion, but also afterwards. Because a digital solution is only successful if the user reaches his goal completely intuitively and quickly.

The customers of Proud Nerds want to work smart and are dependent on online success. Their customers, on return, want to find what they need as quickly as possible. We make it easy. We do this for everyone, but remarkably often for hospitals, healthcare institutions, commercial- and governmental companies.

### Added value

- Focus on the optimal user experience
- Development of unique customer journey for each target group
- Translation from strategy to design
- Realisation and continuous development

### Services and Products

*What services does your organisation offer?*

- Strategy first – gain insights by research
- Design for users – create the optimal customer experience
- Develop and release – make the digital solution work
- Continuous development – a digital solution is never finished

*What products does your organisation offer?*

- Websites
- Web shops
- Apps
- And more custom made digital solutions

### Expertise or Knowledge

- User Experience
- Know-how about the various markets we act in
- Technological knowledge

*Who are your current workpartners?*

- Clients in the healthcare: Canisius Wilhelmina Ziekenhuis, Radboud UMC, Sint Maartenskliniek, Pluryn, Rivas Zorggroep, ZZG Zorggroep, Equipe Zorgbedrijven and Driestroom.
- Partnerships: Magento, Umbraco en Microsoft.

*Needs for the future of your organisation:*

We're always looking for ways to improve the current lives or work environments of people in the healthcare. For example by automatizing unique processes or building portals for better communication. Anything that frustrates, time or cost consuming activities or chances for improvement can form a trigger for that improvement and we'd like to look for a solution together!



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- Number of persons employed**  
 70+

### Area of activity

- ICT

### Digital Health activities pursued

- Digital health
- App
- Security

### Area of work (indications)

- Prevention



## 5.11 Symax

**SMARTER HEALTHCARE:** We develop and maintain software for healthcare. Since 2000 we do this with a great team of developers, project leaders, trainers, and customer supporters. User-friendly web applications & apps that meet your expectations and beyond, that's our mission. We know the challenges because some of our employees have years of experience in it. We speak the language and that benefits the result. We work together with reliable partners. Because of that we scale up quickly and acquire extra knowledge at times when it is desired. Symax is ISO 27001 and NEN 7510 certified.

### Agile

Developing user-friendly eHealth solutions is no easy task. It requires expertise and a tight project structure without setting up heavy projects. That is why we like to work Agile.

Agile is a method in which we divide a project into small parts. In so-called sprints of 1 week, we deliver working versions that can be assessed by the customer. This way you can give feedback and it is possible to implement changes in a timely manner.

In this way we deliver smart solutions that do what we have promised within the agreed time and budget.

### Co-creation

Collaboration with healthcare institutions, healthcare professionals, but certainly also with patients and clients is necessary for us to arrive at a product that we believe in.

We do not just throw our solutions over the fence and let you figure it out. We take all stakeholders along during the development. Everyone needs to feel the owner of the product.

In this way, the stakeholders become ambassadors within your organization. Implementation becomes easier, many times faster and the commitment is better than ever before.

### Services and Products

*What services does your organisation offer?*

- MEXTRA - EHR
- Tabula Rasa Reporting Methodology
- <kontaktus> secure messenger and video call solution for healthcare
- Mobile Time registration both stand-alone and connecting to all EHR's through API. Dr. Bart: a fully automated eHealth application based on the Fogg model for behavioural change, augmented with reminders, rewards and self-monitoring to reinforce app engagement and health behaviour.

### Expertise or Knowledge

- Reporting in healthcare.
- Stand-alone registration modules for end users.
- AVG Proof communication in care/cure

*Who are your current workpartners?*

- Care2Declare
- Tromp BX
- Declareasy
- Boomerweb
- Careweb

*Needs for the future of your organisation:*

We are looking for healthcare partners who can validate our stand-alone time registration module.



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### Number of persons employed

10

### Area of activity

- Care
- Cure
- ICT

### Digital Health activities pursued

- Digital health
- App
- Data Science

### Area of work (indications)

- Prevention
- Diagnose
- Treatment
- Self-management / self-care

## 5.12 Teamscope

Teamscope is a data collection platform for research teams that need a secure solution to capture and analyse data. Research teams around the world often struggle when collecting research data. It seems unreal but the default method for collecting research data is still paper forms and Excel spreadsheets. Teamscope makes it unbelievably easy for pharmaceutical and academic researchers to build fully custom forms and collect data for clinical studies. We envision a world where professionals across disciplines are inspired to do and love research. Because we need more research to save lives, fight climate change and make our world a better place.

### Services and Products

What services does your organisation offer?

- Data collection software
- Survey software for clinical research

What products does your organisation offer?

- Teamscope App

### Expertise or Knowledge

- Mobile app development
- Research data collection

Needs for the future of your organisation:

We are looking for pharmaceutical and academic researchers that are planning of collecting patient data to validate new data collection solutions.

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**Number of persons employed**  
5

### Area of activity

- ICT

### Digital Health activities pursued

- Digital health
- App
- Data Science

### Area of work (indications)

- Prevention
- Diagnose
- Treatment
- Self-management / self-care

## 5.13 The Simulation Crew

At The Simulation Crew, we aim to develop innovative ways of training. We believe that real-life experiences and 'learning-by-doing' are essential in training. For that reason, we develop safe environments for users not only to practice their skills but also to provide them with the opportunity to learn from their mistakes. We are experienced in creating learning experiences that fit the users' needs. For example, our Iva (Interactive Virtual Agent) platform allows users to practice their (non-) verbal communication skills in Virtual Reality. Users practice scenarios with AI-controlled virtual humans. Our Iva platform makes use of unrestricted speech where users have to come up with their own answers and questions. This to stimulate active learning and resonate with real life.

In addition, we also develop VR training courses and serious games that allow users to practice more procedural and practical skills. Within these courses, we again emphasize the importance of a safe environment for trial and error. In our training, we often incorporate multimodal feedback both during and after training. The combination of a safe environment and feedback invites users to repeat training and improve their outcomes.

During the development process of the training, co-creation often plays a central role in creating and developing the training. We maintain close contact with our partners and customers to ensure satisfaction. Moreover, we often test our products in cooperation with different Universities to obtain feedback.

Altogether, this makes that we can keep improving our products. Our crew never stands still!

### Services and Products

What services does your organisation offer?

Development of training in:

- Virtual Reality
- Serious Games
- Apps

Examples of products and training

- Travel assistance Dutch Railways
- Motivational interviewing
- Recognize and address low literacy
- OneHand – rehabilitation training after hand amputation
- Fire emergency

### Expertise or Knowledge

- Virtual Reality (3D)
- Innovative training using AI and gaming
- Interaction between users and avatars
- Didactical idea's belonging to simulation like experiential learning, providing debriefing,
- Learning analytics

Who are your current work partners?

HAN, Radboud University, Radboud UMC, St Maartenskliniek, Gemeente Den Bosch, ...

Needs for the future of your organisation:

We would like to work with partners who share interest in communication on a deep (psychological / therapeutic) level, in order to extend the human – avatar communication in VR.

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9

- Area of activity**
- Research & development
  - Advisory / consultancy
  - Life Sciences / Pharma
  - Care
  - Cure
  - Medical Devices
  - ICT

- Digital Health activities pursued**
- Augmented Reality
  - Virtual Reality
  - Artificial Intelligence
  - App

- Area of work (indications)**
- Prevention
  - Self-management / self-care

## 5.14 Thirona

Thirona is a high-tech company focussing on the development of artificial intelligence solutions for medical image analysis. A global leader in the field of AI assisted analysis of chest CT scans, chest X-ray, and retinal images for disease diagnosis, treatment planning, and drug development. Thirona combines its state-of-the-art knowledge of innovative deep learning technology with clinical expertise to develop effective analysis solutions that have direct clinical impact.

Since its establishment in 2014, Thirona has developed three AI software products focusing on the analysis of thoracic CT scans (LungQ), chest X-rays (CAD4TB, CAD4COVID), and retinal images (RetCAD). Thirona's AI solutions are actively used by customers in more than 70 countries in clinical practice, screening, medical research, and pharmaceutical trials. All their solutions are CE-approved and LungQ additionally has FDA 510(k) approval.

Thirona has clinical expertise in major lung diseases such as COPD, Asthma, Cystic Fibrosis, Bronchiectasis, Interstitial Lung Disease, Tuberculosis and COVID-19, and retinal diseases including Diabetic Retinopathy, Age-related Macular Degeneration, and Glaucoma.

Thirona believes in continuous innovation, and has strong collaborations with clinical and scientific partners to remain at the forefront of new developments in the field of medical image analysis. Besides having several certified medical software products, Thirona also offers an image analysis service by trained medical analysts for customized solutions and high-quality results.

### Services and Products

*What services does your organisation offer?*

- Medical image analysis service for clinical trials, research, and specialised treatments.
- AI algorithm development and licensing.

*What products does your organisation make?*

- AI based image analysis software for lung and retinal disease screening, triage, diagnosis, and treatment planning. Specifically:
- LungQ, a software for AI-based analysis of chest CT scans that aids in the detection, evaluation, and treatment planning of lung diseases such as COPD, Asthma, CF, Bronchiectasis, ILD and COVID-19.
- RetCAD, an AI software that detects retinal abnormalities related to diabetic retinopathy, age-related macular degeneration, and glaucoma in color fundus images.
- CAD4TB, a computer-aided detection system that can detect tuberculosis-related abnormalities in posterior-anterior chest X-rays.
- CAD4COVID-Xray, an artificial intelligence software that triages COVID-19 suspects on chest X-ray images.

### Expertise or Knowledge

- Medical image analysis
- Image-based Artificial Intelligence development
- Lung and respiratory diseases
- Retinal diseases

*Who are your current work partners?*

Radboudumc, UMC Groningen, Maastricht UMC, ErasmusMC



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-  **Number of persons employed**  
35

- Area of activity**
- Research & development
  - Medical Devices
  - ICT

- Digital Health activities pursued**
- Artificial Intelligence
  - Digital health

- Area of work (indications)**
- Prevention
  - Diagnose
  - Treatment

## 5.15 TinyBots

Losing autonomy is one of the worst things that can happen, and Tinybots believes that social AI technology can augment human autonomy. Tinybots' mission is to empower the 50 million people struggling with dementia to life longer independently in their own home.

Tinybots creates a technology platform that adapts to the evolving needs of people with dementia or other cognitive impairments. Our first hardware device a social care robot Tessa provides verbal guidance that enhances the self-reliance of users. It reminds the user for appointments, motivates to eat and exercise and adhere to therapy, and provides instructions for daily tasks.

Tessa is the first proven homecare robot that increases the self-reliance of the user group and is applied in the homecare sector. Studies show up to 50% cost savings, because people with dementia are enabled to do more by themselves and require less professional care.

Tinybots provides complementary innovation and implementation service to ensure successful implementation of the technology in a healthcare organisation. To date (august 2021) more than 2000 Tessa's has been used by 170+ healthcare organisations in the Netherlands.

Our core product is the technology platform that will integrate with other healthcare technology, creating synergy to provide better support to the person with dementia by leveraging on user data in each system.

### Services and Products

*What services does your organisation offer?*

- Innovation project management for homecare organisations
- Implementation of healthcare robot 'Tessa'

*What products does your organisation make?*

- Healthcare robot 'Tessa' for people with dementia or other cognitive impairment
- Technology platform to integrate homecare technology

### Expertise or Knowledge

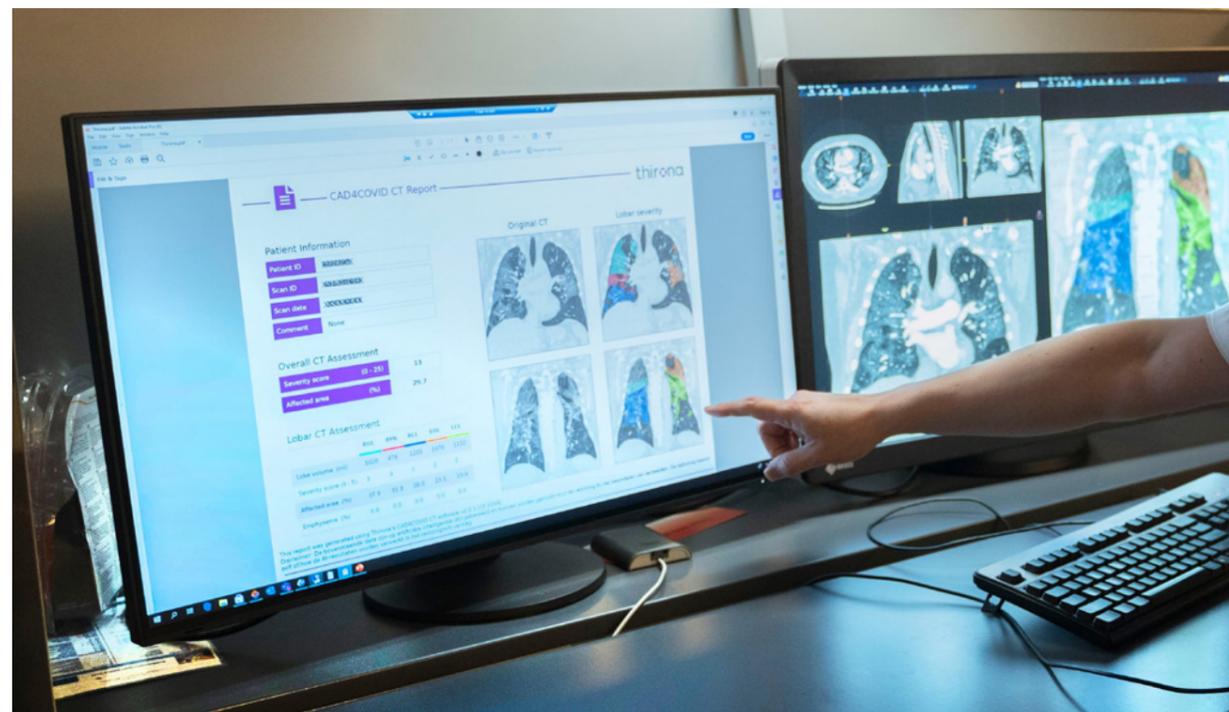
- Social Robotics (Human-Robot-Interactions)
- Communication with people with dementia or other cognitive impairment
- Health Technology innovation and implementation

*Who are your current work partners?*

We work closely with our customer organisations to improve implementation service and health technology products.

*Needs for the future of your organisation:*

- Partners / developers of healthcare technology or ECD who are open to build integrations.
- Distribution partner for homecare organisations and general practitioners.
- Production & Assembly partner.



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**Number of persons employed**  
 6

**Area of activity**

- Care

**Digital Health activities pursued**

- Artificial Intelligence
- Digital health
- Robotics

**Area of work (indications)**

- Self management / self care

## 5.16 weMaron

We build your pocket-sized personal assistant that makes the world a better place! We do this on behalf of the government and business, but certainly also on our own initiative. We see so many opportunities to use technology. As a social enterprise, we fully deploy our products in the fight against loneliness, we think along with mobility issues and we make the new sharing economy possible.

### Services and Products

*What services does your organisation offer?*

- Coming up with solutions for challenges, from prototype to marketing.

*What products does your organisation make?*

- Applications
- Websites that belong to an application. The sites are being build to support the product.

*Who are your current work partners?*

Rovini, an employment agency and WerkWent, they help people with a distance to the labor market ICT to find a suitable job.

*Needs for the future of your organisation:*

- We are looking for a partner that can help us market the products in the Netherlands.

### Expertise or Knowledge

- Solving societal challenges through ICT



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**Number of persons employed**  
 10

**Area of activity**

- Research & development
- Care
- ICT

**Digital Health activities pursued**

- Digital health
- App

**Area of work (indications)**

- Prevention
- Self management / self care

## 5.17 Yellow Riders

Digitalization can make an important contribution to healthcare and we are trying to realize this potential. The purpose of Yellow Riders is to develop digital therapies that change behaviour in a pleasant way.

### Services and Products

*What services does your organisation offer?*

- Digitalization of existing and proven therapies

*What products does your organisation make?*

- Digital Therapeutics
- Applied (serious) Games

### Expertise or Knowledge

- R&D digitalizing therapies
- Activity & Behaviour Data and Analytics
- Gameplay and mechanics for patient Engagement, Motivation & Human behaviour

*Who are your current work partners?*

- Radboudumc
- Radboud University/Donders Institute
- Klimmendaal Revalidatie Specialisten
- Big4Data
- Relitech
- Center4Moods
- Arbol

*Needs for the future of your organisation:*

- Venture Capital: specialized in Digital Health, Digital Therapeutics
- Corporate Ventures: investments from pharmaceutical companies
- Corporate Partnership: pharmaceuticals that are looking for digital therapies
- Corporate Partnership: pharmaceuticals who need mass human behaviour data

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 **Number of persons employed**  
4

**Area of activity**

- Research & development
- Care
- Cure

**Digital Health activities pursued**

- Augmented Reality
- Virtual Reality
- Artificial Intelligence
- Digital health
- Wearable
- App
- Other: Digital Therapeutics

**Area of work (indications)**

- Prevention
- Treatment
- Self management / self care

