

# TecnoCampus Health Ecosystem

Where university and business go hand in hand



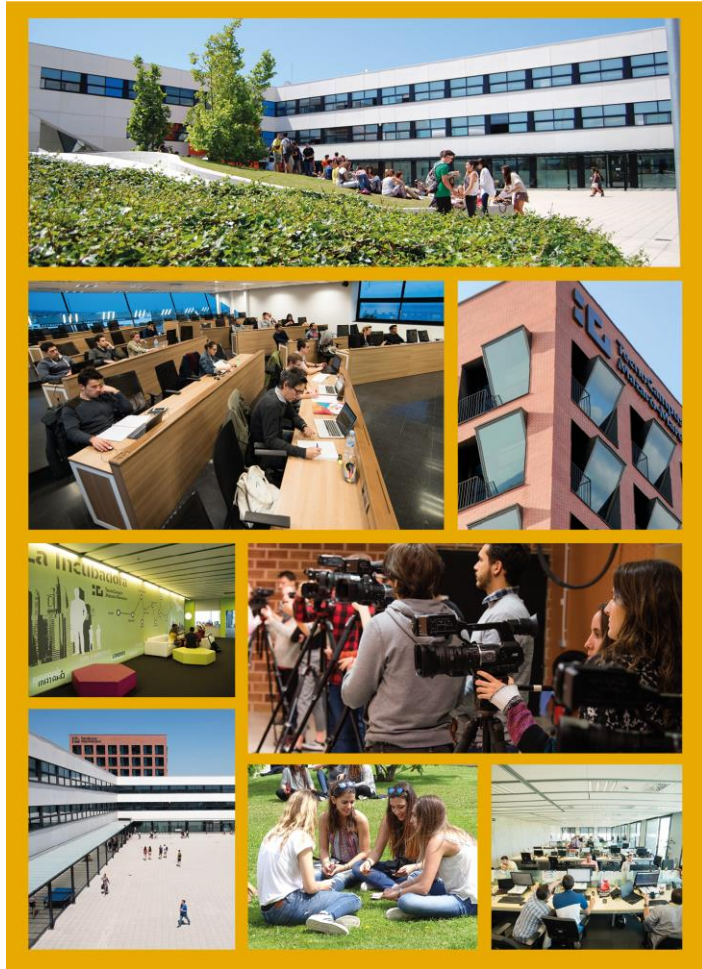
*Centres universitaris adscrits a la*





# TecnoCampus – more than a business park

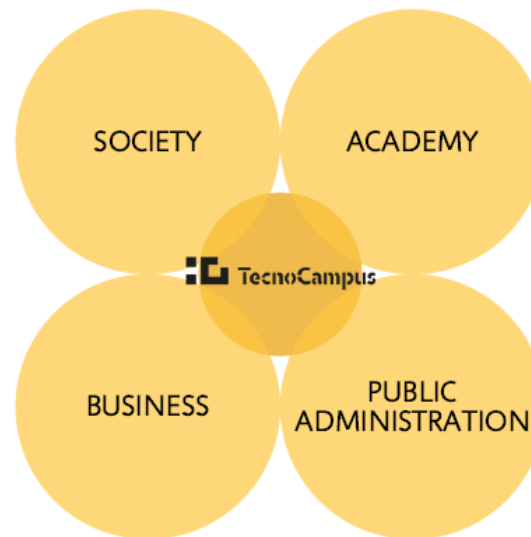
## Where University and business go hand in hand



Tecnocampus brings together academia and business in a single space devoted to innovation and entrepreneurship. Based in the Catalan city of Mataró, 20 kilometres outside Barcelona, TecnoCampus aspires to be a national and international project and a powerful driver of regional economic and social transformation.

## Quadruple Helix Model

TecnoCampus mission is to contribute to the economic growth and social development by means of a model of quadruple helix that generates knowledge, education, innovation and companies.



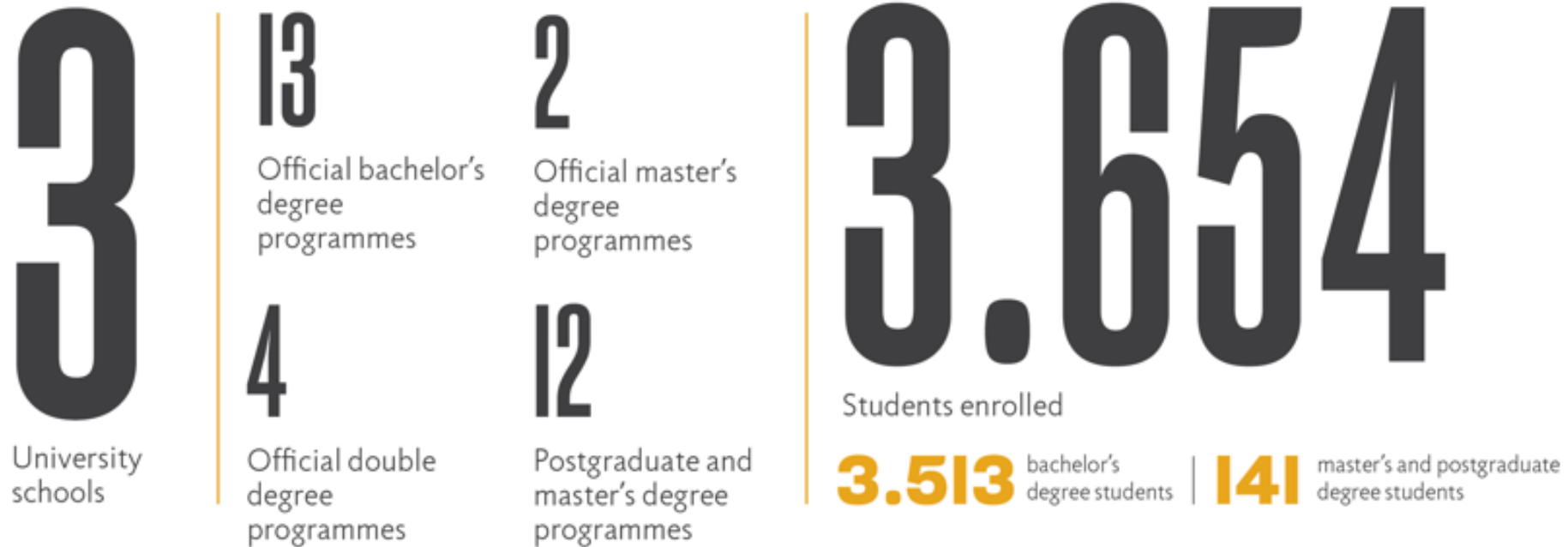
**TecnoCampus is a Registered member of the European Network of Digital Innovation Hub's European Commission**



# TecnoCampus – more than a business park

## TecnoCampus University Studies:

TecnoCampus is associated with Pompeu Fabra University (UPF), Spain's top university according to the U-Multirank ranking.



# TecnoCampus – more than a business park

## TecnoCampus University studies:

### School of Engineering and Technology

#### DEGREES

- Video Game Design and Production
- Industrial Electronic and Automatic Engineering
- Computer Engineering for Information System Management
- Industrial Organization Engineering
- Joint degree in Computer Engineering and Video Game Design and Production
- Mechanical Engineering
- Audiovisual Media
- Simultaneous studies: Video Game Design and Production + Audiovisual Media
- Simultaneous studies: Automated Electronic Engineering + Mechanical Engineering
- Simultaneous studies: Electronic Engineering + Computer Engineering

#### POSTGRADUATE DIPLOMAS AND MASTER'S DEGREES

- Master's degree in Industry 4.0
- Postgraduate diploma in Smart Manufacturing and Digital Business Transformation
- Postgraduate diploma in Development and Integration of Cyber-Physical Systems
- Postgraduate diploma in Scriptwriting and Directing

### School of Business and Social Science

#### DEGREES

- Business and Innovation Management (BIM)
- Business and Innovation Management (in English)
- Joint degree in BIM and Marketing and Digital Communities
- Logistics and Maritime Business
- Marketing and Digital Communities
- Joint degree in Tourism and Leisure Management and BIM

#### POSTGRADUATE DIPLOMAS AND MASTER'S DEGREES

- Master's degree in Entrepreneurship and Innovation
- Postgraduate diploma in Social Media and Digital Marketing
- Postgraduate diploma in Financial Accounting
- Postgraduate diploma in Management of Social Economy Cooperatives and Companies
- Postgraduate diploma in Public Administration and Management

### School of Health Sciences

#### DEGREES

- Physical Activity and Sport Sciences (PASS)
- Physiotherapy
- Joint degree in Physiotherapy and PASS
- Nursing

#### POSTGRADUATE DIPLOMAS AND MASTER'S DEGREES

- Master's degree in Integrated Care in Chronic Diseases and Ageing and Dependency
- Master's degree in Personal Training and Physical and Sport Rehabilitation
- Master's degree in Care for Persons in Urgent and/or Emergency Situations
- Postgraduate specialization in Complex Wound Patients: Chronic Wounds
- Postgraduate diploma in Personal Care in the Surgical Process

# TecnoCampus – more than a business park

## TecnoCampus University studies:

### University entrepreneurship

TecnoCampus students participate in awards, conferences and programmes to promote entrepreneurial initiatives.

### Creatic Award

Annual award for the best final project by an undergraduate student.

### Weekend Challenge

A weekend where students work with business people on their business project.

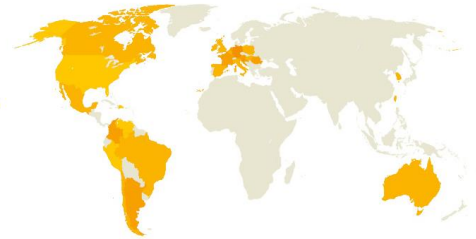
### Explorer programme

Free training, support and mentoring, sponsored by Banco Santander.

### Entrepreneurship Network

University network of institutions whose objectives include entrepreneurship.

### International mobility



**119**

Universities, from 33 countries, with which TecnoCampus has established agreements

**162**

Incoming students

**77**

Outgoing students

### Careers

Student job placement and cultivating links with companies are priority objectives.

**1,880**

Internship offers published

**447**

Job offers published

### Research

**8**

Recognized research groups

**33**

Papers presented at research conferences

**25**

Publications in indexed journals

# TecnoCampus – more than a business park

## Business and entrepreneurship:

TecnoCampus runs programs to support entrepreneurship, internationalization, innovation and the search for funding. The park, which hosts 120 businesses, is fully occupied and is a driver of economic activity in the region.

**120**

Hosted businesses

**818**

Workers employed by the park's businesses

**98%**

Park occupancy

**26**

Businesses in the incubator

**4**

Hosted institutions

- Pimec
- Barcelona Chamber of Commerce
- Fagem
- Gentic



# TecnoCampus – more than a business park

## Excellent location – just 30km from Barcelona, a global innovation hub:

- European Hub of Entrepreneurship
- > 1.200 start-ups (90% < 50km from Barcelona)
- Technology, Biotech and Health
- Health sector: Great contribution to GDP, great attraction of foreign investment

### Barcelona, 4th tech city of the world

€ 3,273.4  
R&D expenditure (M€)

5.5%  
Growth

23.3%  
of total R&D  
expenditure in Spain



# TecnoCampus - more than a business park

## Our spaces

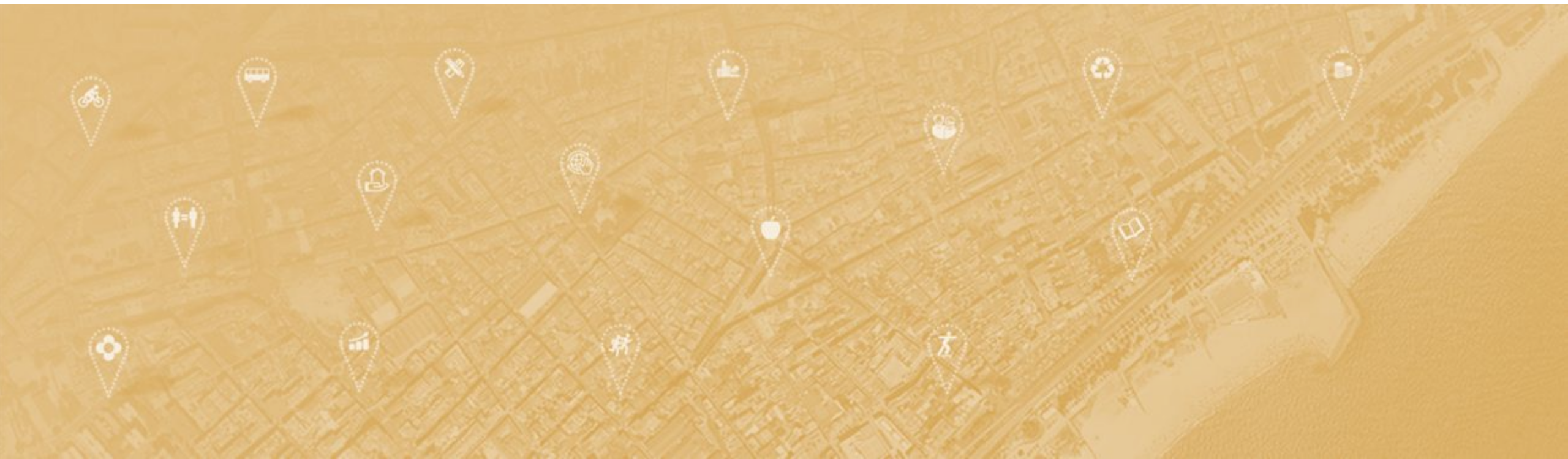


# TecnoCampus Health

---

Health, a strategic sector

---



# Health, a strategic sector for TecnoCampus

## University

### Research: groups and infrastructures

- Research Group on Chronic Care and Health Innovation
- Research Group on Physical Activity, Performance and Health
- Health innovation simulation laboratories

### Chair of Aging and Quality of Life

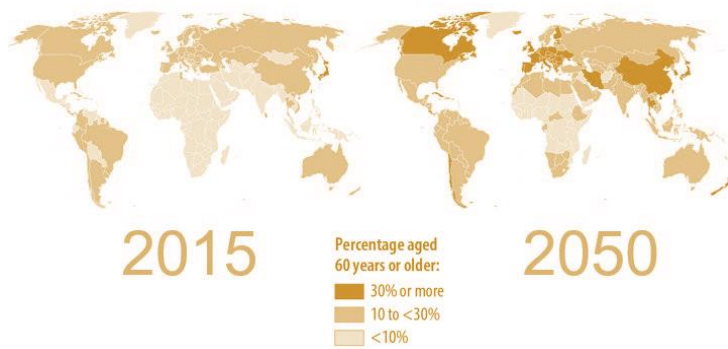
- Research, knowledge, training and transfer → Health promotion
- Research and implementation of new healthcare models
- Solving age-associated conditions
- Promoting quality of life



# Health, a strategic sector for TecnoCampus

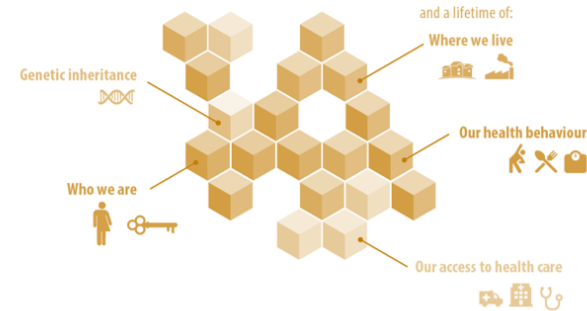
## Chair of Aging and Quality of Life

### Populations are getting older



### Health in older age is not random

What makes us age differently?



Autonomy

Healthy and active ageing

Quality of life



# Health, a strategic sector for TecnoCampus

## Industrial Doctorate Programme

- Training, research, innovation and knowledge transfer

## Business, innovation and entrepreneurship

- Training for companies and entrepreneurs
- Pre-incubator and business incubator
- Health sector startup accelerator - StartHealth
- Business park - offices, laboratories and warehouses
- Support for internationalization and search for funding

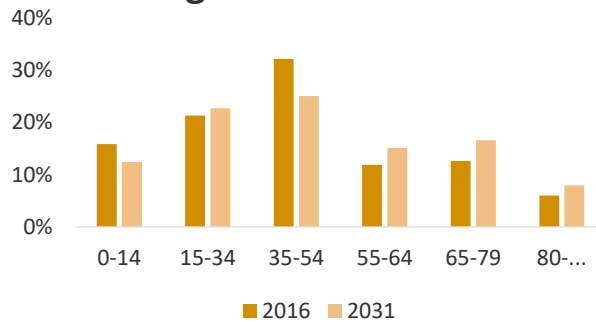


# Health, a strategic sector for TecnoCampus

## TecnoCampus, leading “Mataró, Caring City”

Autonomy and quality of life of vulnerable people (health and social)

More than 30% of Catalans will be over the age of 65 in 2050



Source: ACCIÓ, Informe sectorial Silver Economy 2018

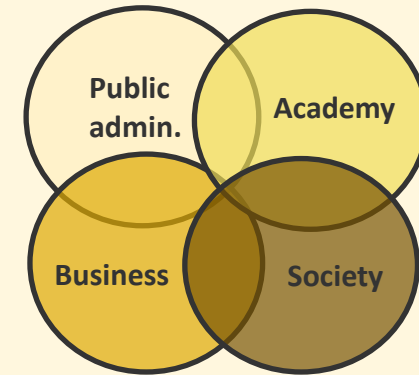
The EU estimates that the Silver Economy will help generate a business of 6.4 billion Euros and 88 million jobs by 2025, which will account for 38% of GDP and 32% of employment.



LEADING PARTNERS:



MODEL QUÀDRUPLE HÈLIX



Research



Education



Knowledge



Transfer



Health promotion

## Healthcare companies hosted at TecnoCampus



Minoryx:  
Drug development for  
minority diseases



Palobiofarma:  
Biotechnology company  
specializing in drug  
discovery



Akcea Therapeutics:  
Drug development for  
minority diseases



Braingaze:  
Eye tracking technology  
for the diagnosis of  
ADHD and dyslexia



Hartington Pharma:  
Exporter of  
pharmaceuticals and  
chemicals



Innovem:  
Biomedical system for the  
assessment of  
musculoskeletal pathologies



# Health, a strategic sector for TecnoCampus

## Healthcare companies hosted at TecnoCampus



TheCube:  
Developers of  
MyHealthWatcher app, to  
improve eating habits



Nanonica:  
Development of  
products based on  
nanotechnology



Active Medical:  
Manufacturers of  
urinary incontinence  
pads



Quantum Medical:  
Development and  
manufacture of electronic  
components for medical  
equipment

## Service providers for health companies, hosted at TecnoCampus



# Health, a strategic sector for TecnoCampus

## Partners, health sector:

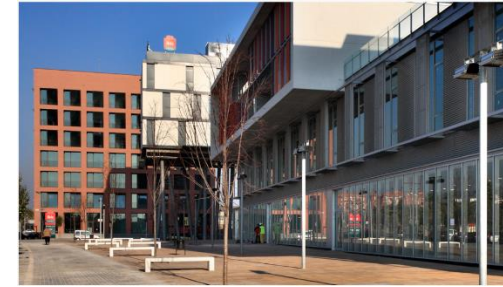


# Health, a strategic sector for TecnoCampus

## Available spaces for companies:

### Offices:

- Located at TecnoCampus business park
- Close to university facilities and innovation park
- Availability of parking spaces
- Concierge, computer and maintenance service
- Use of conference room and common areas
- Networking sessions

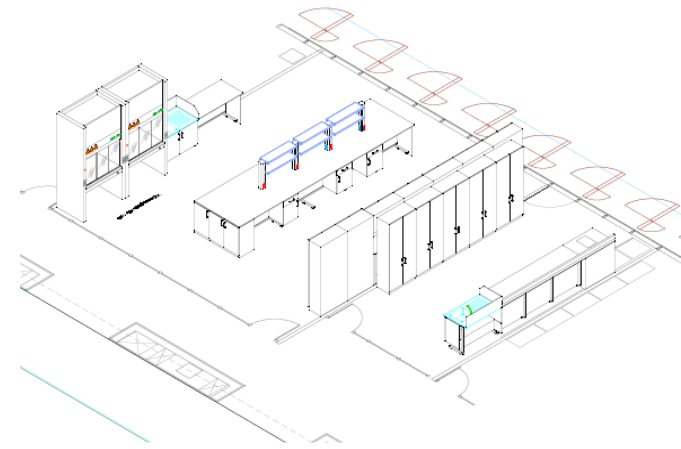
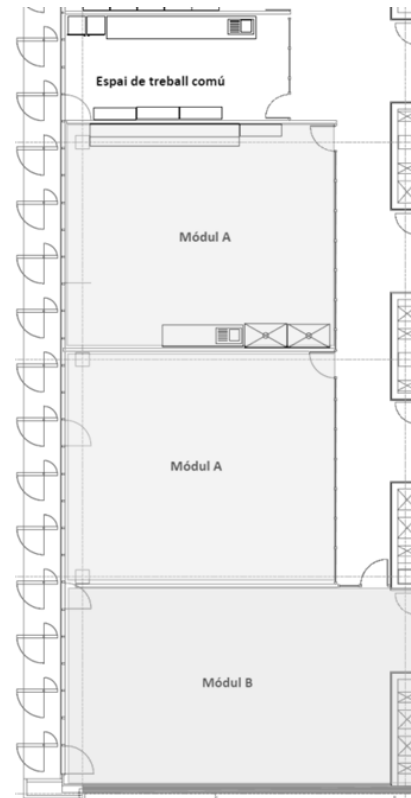


# Health, a strategic sector for TecnoCampus

## Available spaces for companies:

### Laboratories:

- Filtered air conditioning
- Water supply
- Electricity supply
- Technical floor
- LED lighting
- Gas outlet pre-installation
- Access to shared equipment



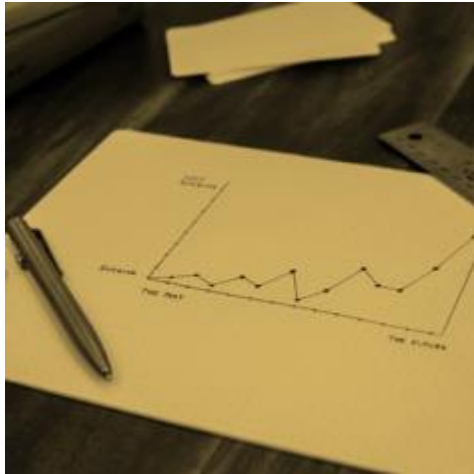
Laboratory	Name	M2 useful
140	Espai LAB 1 (mòdul A)	68
141	Espai LAB 2 (mòdul A)	68
142	Espai LAB 3 (Mòdul B)	75

## StartHealth Accelerator – training and mentoring

- Health start-up **acceleration program**
- **Pre-seed and seed** stage start-ups
- Digital health, medical devices, medtech and biotech **with MVP**
- **Training sessions and mentoring**
- Expert advice on **clinical, business and regulatory aspects**



## StartHealth Accelerator – training and mentoring



**STRATEGY**



**MARKET DEVELOPMENT**



**INVESTMENT READINESS**

## StartHealth Accelerator – funding opportunity

- Creatic awards
- Investment forum



## Some success stories – 2020 edition:



**Loop Diagnostics:**  
Device that, by means of biomarkers, allows the detection and diagnosis of sepsis very quickly and in early stages.



**Sycal Technologies:** AI-based software that helps radiologists in detecting, characterizing, and tracking pre-cancerous pancreatic lesions

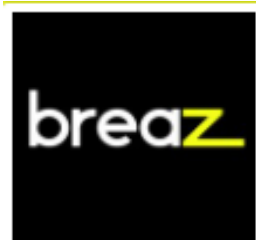


**Dinbeat:**  
Device that allows real-time and wireless remote monitoring of vital signs (electrocardiogram, heart and respiratory rate, temperature, oximetry)

**“StartHealth provided an essential support and allowed us to learn and quickly adapt our strategy”**



## Some success stories – 2020 edition:



**Breaz:** Device that enables the early detection of chronic obstructive pulmonary disease.



**Berdac:** Automatic drug-dispensing device that increases the adherence to drug treatments and reduces errors in medication administration



**Exheus:** Provides real-time information through the analysis of genetic biomarkers and artificial intelligence

**“StartHealth allowed us to prepare our startup for equity investment”**



# StartHealth

Indicators – 2020 edition:

Health startups accelerator

**10**

Startups

**03**

Startups received  
75.000€ of public  
funding

**03**

Startups located at  
TecnoCampus  
incubator

**01**

Startup received  
private investment

**01**

Startup was  
awarded Creactic  
Prize

# Health, a strategic sector for TecnoCampus

## StartHealth - main partners:



*Centres universitaris adscrits a la*



# Thank you!



*Centres universitaris adscrits a la*

