startup radar madrid

Madrid Region

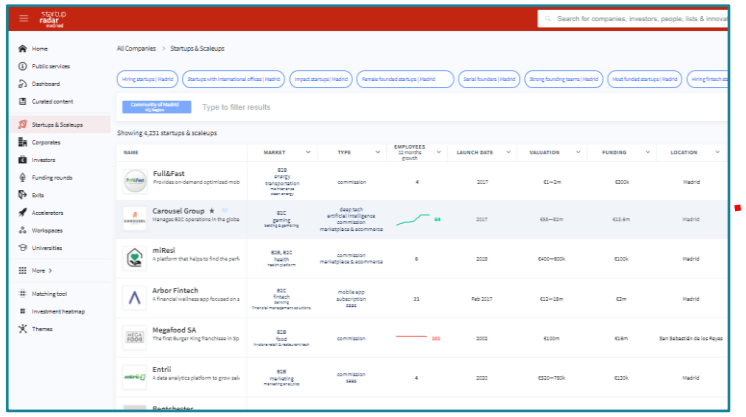
Deep Tech Startups

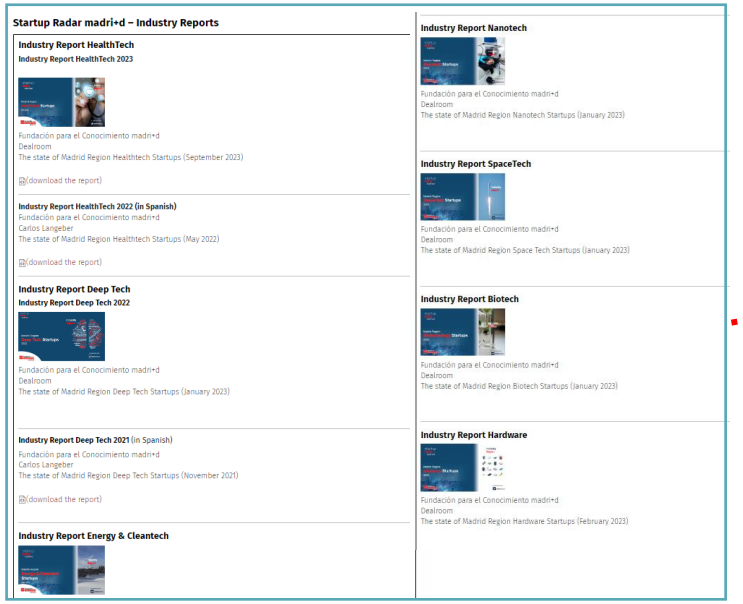
Q1 2024

fundación para el conocimiento madrid

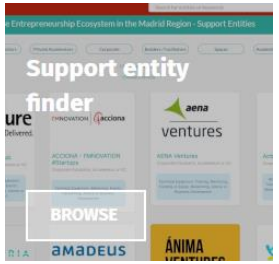
The Madrid Region Startup Ecosystem Platform

Platform on Dealroom

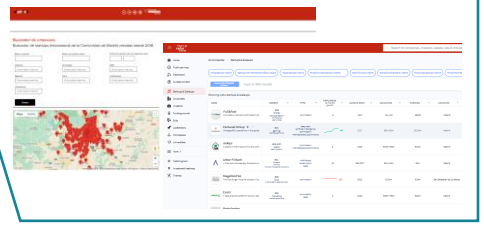


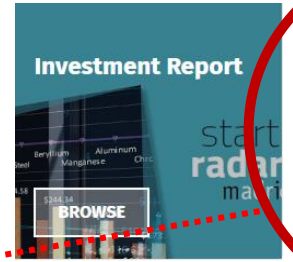


https://www.madrimasd.org/emprendedores/startup-radar-madrid



Ecosystem Platforms: Tools, Maps and Databases





2 Annual Reports:

- Ecosystem Report
- Investment Report

12+ Industry Reports

Tools for startups:

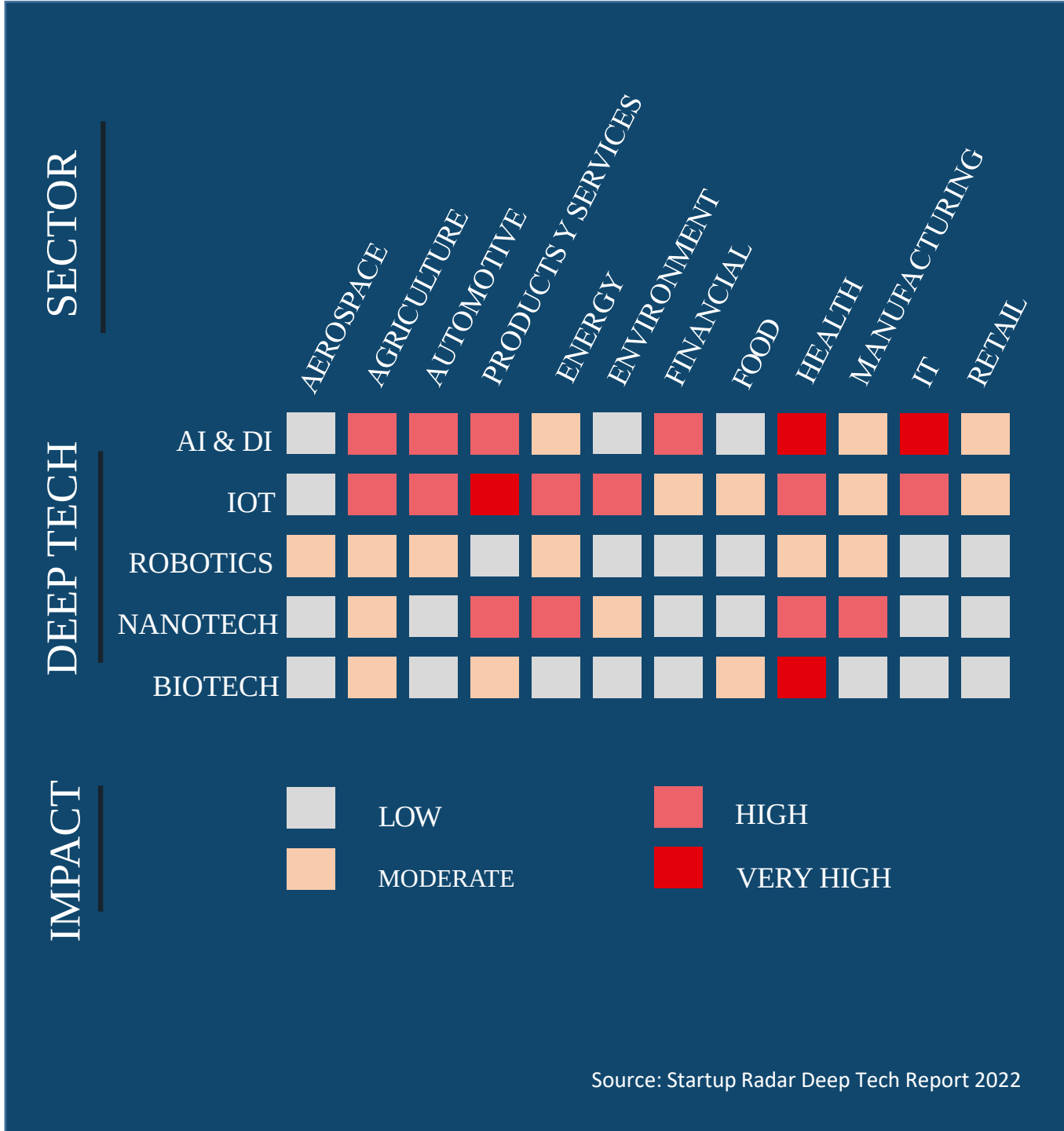
- Job search
- Investors
- Public Financing

Some highlights

- Deep technologies are **disruptive technologies, with application in multiple sectors** and whose development requires **deep knowledge in science and/or engineering.**

- Deep tech startups are emerging companies whose main product or service is **based on the exploitation of one or more deep tech technologies**, making their **effort and investment in technological development much higher** than that of non deep tech startups.

- The commitment to develop a disruptive technology that stands out from the general line of the market, makes deep tech startups have **greater technological risk** but at the same time their vision is focused on the **exploitation of new markets** or without competition and favors that they can have an exponential growth.



Source: Startup Radar Deep Tech Report 2022

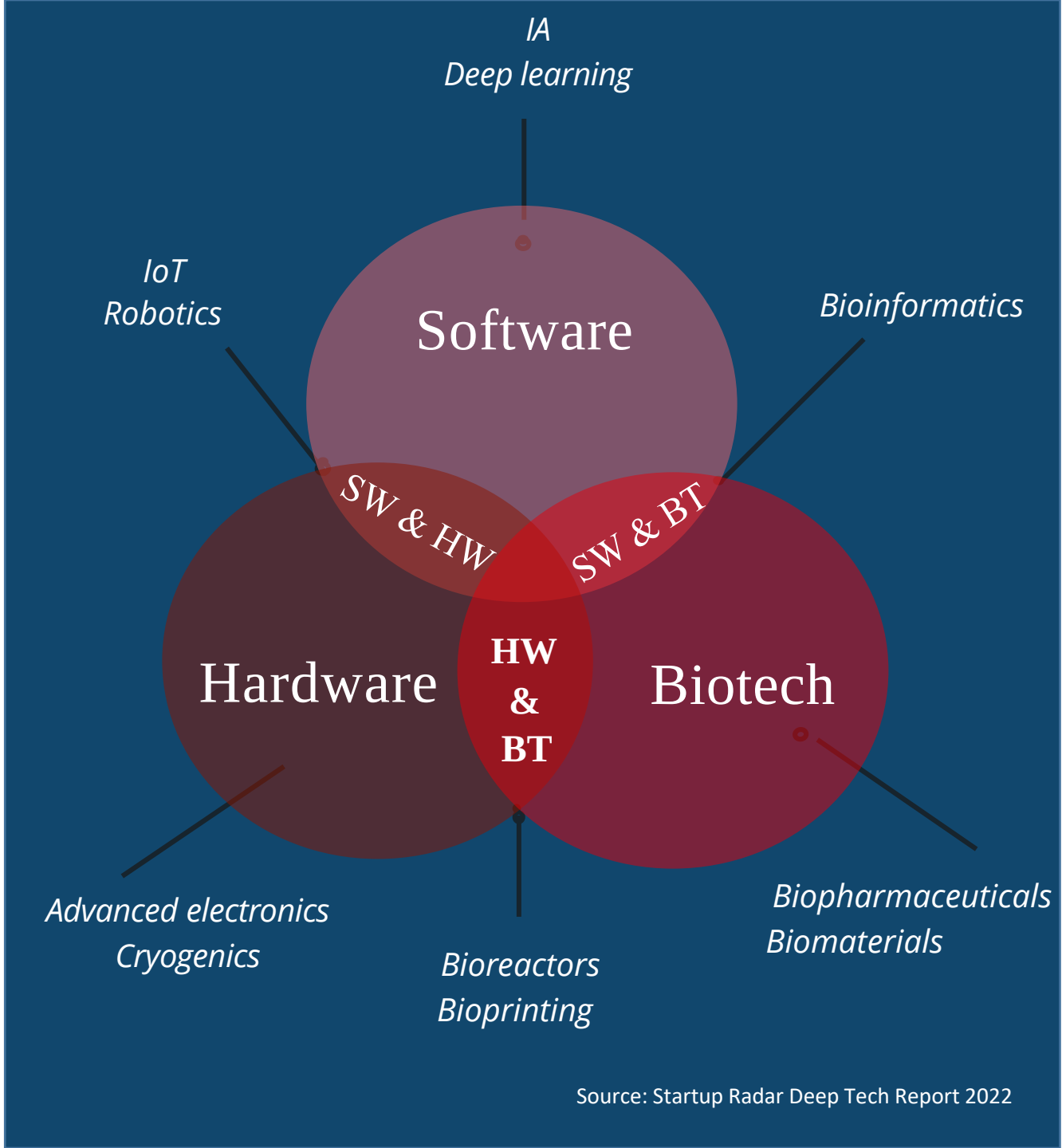
Classification

- Deep tech startups are often classified by combining criteria such as the **sector** in which they operate (aerospace, biomedical, etc.), the **product developed** (drones, robots, etc.) or the **technology used** (artificial intelligence, internet of things, etc).

- Biotechnology is usually classified as an industrial sector, despite being technologies based on biological processes, which in addition to having a great impact on the health industry, are applicable in other sectors (industrial, agri-food, marine, etc).

- As a starting point, to consider a startup as deep tech **it must participate in the development of the deep technology** on which its product or service is based.

- Fulfilling this, **the proposed classification of deep tech startups has been made based on three major types of technologies and their combinations.**



Source: Startup Radar Deep Tech Report 2022

startup radar madrid

Deep tech startups with best Dealroom signal (Q4 2023)

[Selected list of deep tech startups in the Community of Madrid by Dealroom Signal]

NAME	DEALROOM SIGNAL
Medlumics ★ ♥ A pre-commercial, medical device ...	72
Melio.es ★ ♥ Offers health tests for company pe...	69
Tucuvi ★ ♥ Automating medical phone conver...	69
Barbara IoT ★ ♥ Cybersecure industrial edge platf...	67
Medicsen ★ ♥ Needle-free drug delivery platfor...	66
Spotlab ★ ♥ Developing innovative technology ...	65
TROOP ★ ♥ Self-serving End-to-End Meetings ...	65
LeanXcale ★ ♥ A scalable SQL database with fast ...	63
Kriba ★ ♥ Non-invasive detection and monit...	63

NAME	DEALROOM SIGNAL
Anyverse ★ ♥ Physics-based synthetic data gene...	63
SummuS Render S.L. ★ ♥ SummuS Render is a render farm t...	61
Narrativa ★ ♥ Automatic content generation serv...	61
Kymatio ★ ♥ Employee cyber risk management	61
Idoven ★ ♥ AI-powered detection and precisio...	60
Corify Care ★ ♥ The developer of an innovative an...	59
Ommatidia LIDAR ♥ Developing high-resolution long-r...	59
Alcyon Photonics ♥ Alcyon Photonics designs high-per...	58
24Genetics ♥ A biotechnology company speciali...	58

NAME	DEALROOM SIGNAL
Wooptix ★ ♥ Creates light field and wavefront p...	57
Ienai SPACE ♥ Develops efficient ionic-liquid elec...	57
Savana ★ ♥ Savana is a unique company at lev...	55
Aerdron ★ ♥ AERDRON specializes in materializ...	55
Madrid Space ♥ An engineering company which off...	55
Smart Protection ★ ♥ Businesses protect their brands, p...	54
Chargy ♥ Focuses on design and develops h...	54
A3D ♥ Focused on the development of a...	54
CEDRION ♥ Designs and produces plasma devi...	53

NAME	DEALROOM SIGNAL
Startiun (Formerly Star Robotics) ♥ A technological and innovative sta...	53
Carto ★ ♥ A platform that turns spatial data i...	53
Marsi bionics ★ ♥ Developing disruptive innovative t...	53
Ixorigué Technologies ♥ Provide livestock digitization solut...	53
MedUX (Formarly Harting-Bank) ★ ♥ Measuring the user experience an...	53
OrbitalAds ♥ OrbitalAds' AI-Powered Keyword ...	53
Atrys Health ★ ♥ Biomedical company dedicated to ...	53
Inrobics (NaoTherapist) ♥ Proposes a new model of rehabilit...	52
UTEK Unmanned Teknologies ♥ Developing high reliability and adv...	52

startup radar madri+d

DEEP TECH STARTUPS OF THE COMMUNITY OF MADRID

HARDWARE

[See *Landscape* on Startup Radar madri+d]

Hardware

Medlumics
Nanostine
Next-Tip
TSP True Solar
CEDRION
Corify Care
Advanced Metrol
PID Eng&Tech S.
Gnanomat
DASEL
Ariema Energía
BrainGuard
Somax Systems
Mecwins
Alcyon Photonic
Aeon-T
Medicsen
Aura Innovative
A3D
Nuubo
Atelgraphics S.
ACIS INNOVACIÓN
Lubaq Corporate
SP Control Tech
Madrid Space
Frenetic
Canard Drones
Drone Hopper
Chargy
Skansense
Emozionella
Vortex Bladeles
Solutions30
Jalvasub
Aerdron
ENTEC SOLAR
Anneo
Xerolutions
Lpi
SCIGNALS
NIT
DIFFERENTIAL PO
Aurea Avionics
Seppelec
Alpha Unmanned
MTX-M2M
STARTIUN SL (St
AMETSIS Ingenie
Power Smart Con
SCI4TECH
Luz wavelabs
RedCat Devices
NAUTA TECHNOMED
ADVANCED THERMA
Wooptix
Kdpof
Technaid S L
2Eyes Vision
Bonsai Advanced
Radonart
Floatech
Colfeed
Multispectral M
Holedeck
ADDVANCE MANUFA
Counterfog
Cyclomed Techno
Adatica Enginee
Nanoinnova Tech
MICRO ELECTROCH
Neos new born s
DermaLumics
VidaApp
Vooiage
Antalis Things
Raixer

startup radar madri+d

DEEP TECH STARTUPS OF THE COMMUNITY OF MADRID

SOFTWARE

See *Landscape* on Startup Radar madri+d

Software

Sensia, ADEX, DataBeacon S.L., Cropti
Sigma technolog, DETEKTIA, DTec
Visual Technolo, Alto Data Analy, Unusuals
Zerintia, Rated Power, naudit High Per
Anyverse, Narrativa, Graphext, Smart Protectio
Onyze, Keepler Data Te, Barbara IoT
Clever Ecommerc, Modelical, Capaball
Fundamentia, Sentisis, Welovroi, MIOTI
ICommunity Labs, IO Builders, MedUX
Smartme Analyti, MyZuum, BEEVA, ISID
Finweg, Trucksters, Tinsa Digital, Etoshi
UAV AUTOSYSTEMS, AppDermis, Carto
LeanXcale, Triporate, Booboo, FRACTTAL
Evidence Behavi, Eris Innovation, Aitaca Remote T
DiscoveryBlock, Thinger.io, Dail Software
GeneticAI, Freedom and Flo, ThermoHuman
Sigma Cognition, MedLab Media ME, HandCash
Qualifying Phot, ymatio, TROOP, Nextail Labs, GeoDB
3ANTS, decide4AI, IMASTE, Bitext, Feebbo
CHECKTOBUILD, Wise Athena, Geoblink
Dixit, TheySay.me, Orbital Critica, Bluetab
Lurtis Rules, Idaero, BotsLovers, Wenalyze, EYARD
Urban Data Anal, Madiva, BotON, INDIDESK
EasyCode Softwa, Q-Lion, Startical, Dioxinet
Sentimer, Anbotux, Enimbos, Alise Devices, Obuu
Twopi, Cosmwasm, saturnolabs, Kolokium Blockc
3SmartData, Revelock, Carriots, Genasys, Espafil
Feedbackua, Doc Forense, ESmartIT
In2AI, QA Laboratory, SummuS Render S
Deep Mirror Aut, SEA: Smart Ener, Cubic Fort
Weplan Analytic, Predictical, WannaBot, Alisys
Ubicua.com, Ibotics.es, Paradigma Digit, Mindsaic

startup radar madri+d

DEEP TECH STARTUPS OF THE COMMUNITY OF MADRID

BIOTECH
BIOTECH & SOFTWARE
BIOTECH & HARDWARE
HARDWARE & SOFTWARE

See *Landscape* on Startup Radar madri+d

Biotech

Allinky Biophar
AptaTargets
Abvance Biotech
Cellerix
Algenex
Geniality Diagn
Protein Alterna
Precision for H
Life length
Diomune
Ysotope Therano
Natac
Igen
Biomedica Molec
Pharmactive Bio
SYLENTIS
Inmunología y G
Vivia Biotech
Evoenzyme
AptusBIOTECH
Dobecure
InnoHealth Grou
PROPOSIT
OXOPROBICS BIOS
Agrenvec
SILK BIOMED
ALODIAFARMACEUT
Patent Shoes
Algenex (Altern
CIANOALGAE SL
Infiqus
DisruPep

Biotech & Software

Atrys Health
HELIX BIOS
24Genetics
Plebiotic S.L.
Altum Sequencin
Tucuvi
Idoven
Savana
GENOMICS4ALL
Melio.es

Biotech and Hardware

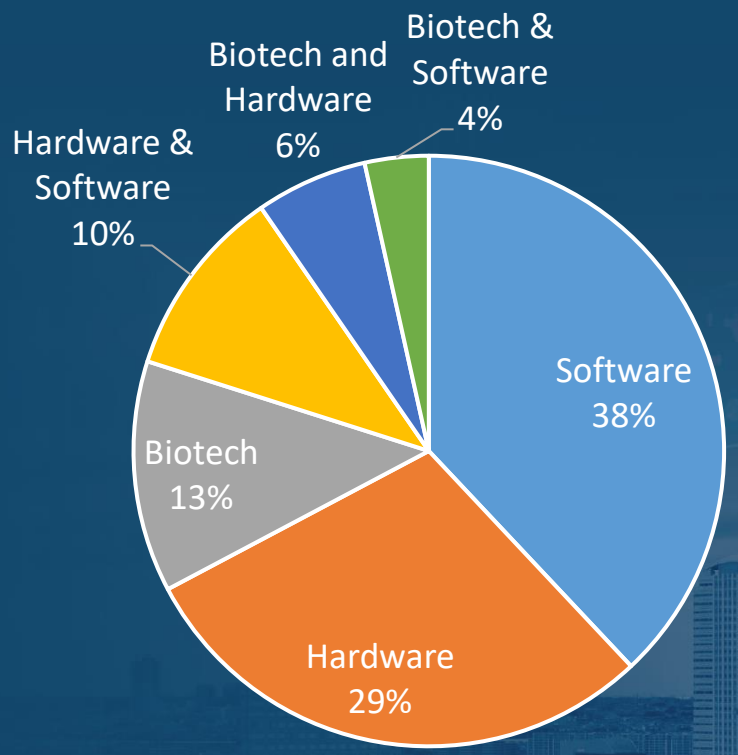
NIMGenetics
Arquimea Ingeni
Aglaris Cell
Biohope
AD Particles
A4Cell
Vascuzell Tecno
Venter pharma
ZoitechLab
Marsi bionics
Ankar Pharma
Bacmine
Ibersens Innova
Plant Response

Hardware & Software

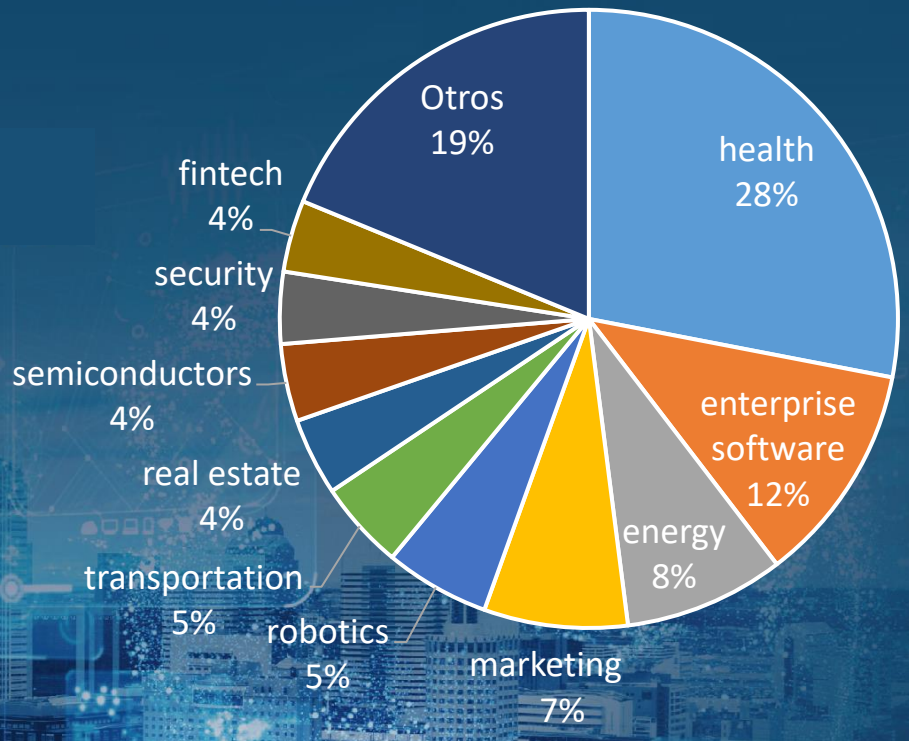
Spotlab
Artificial Visi
Advanced Radar
KEROX TECHNOLOG
Retiplus
Inrobics (NaoTh
Adamo Robot
Lidax
Surgescope
Ommatidia LIDAR
UTW
UTEK Unmanned T
Vaelsys
Foren Project,
CUBELIZER
Captoplastic
Ienai SPACE
Amplia))) iiot
EOS-X SPACESHIP
OrbitalAds
Future Voltaics
Airelectronics
Autodrive Solut
Sensowave
Automated Devic
Alteria Automat
DronModular
IXION
Orbital Ads
TheCorpora
FON
Parkifast
LastBasic
Datos101

Distribution of 347 operational deep tech companies in the Community of Madrid

BY TECHNOLOGY AREA

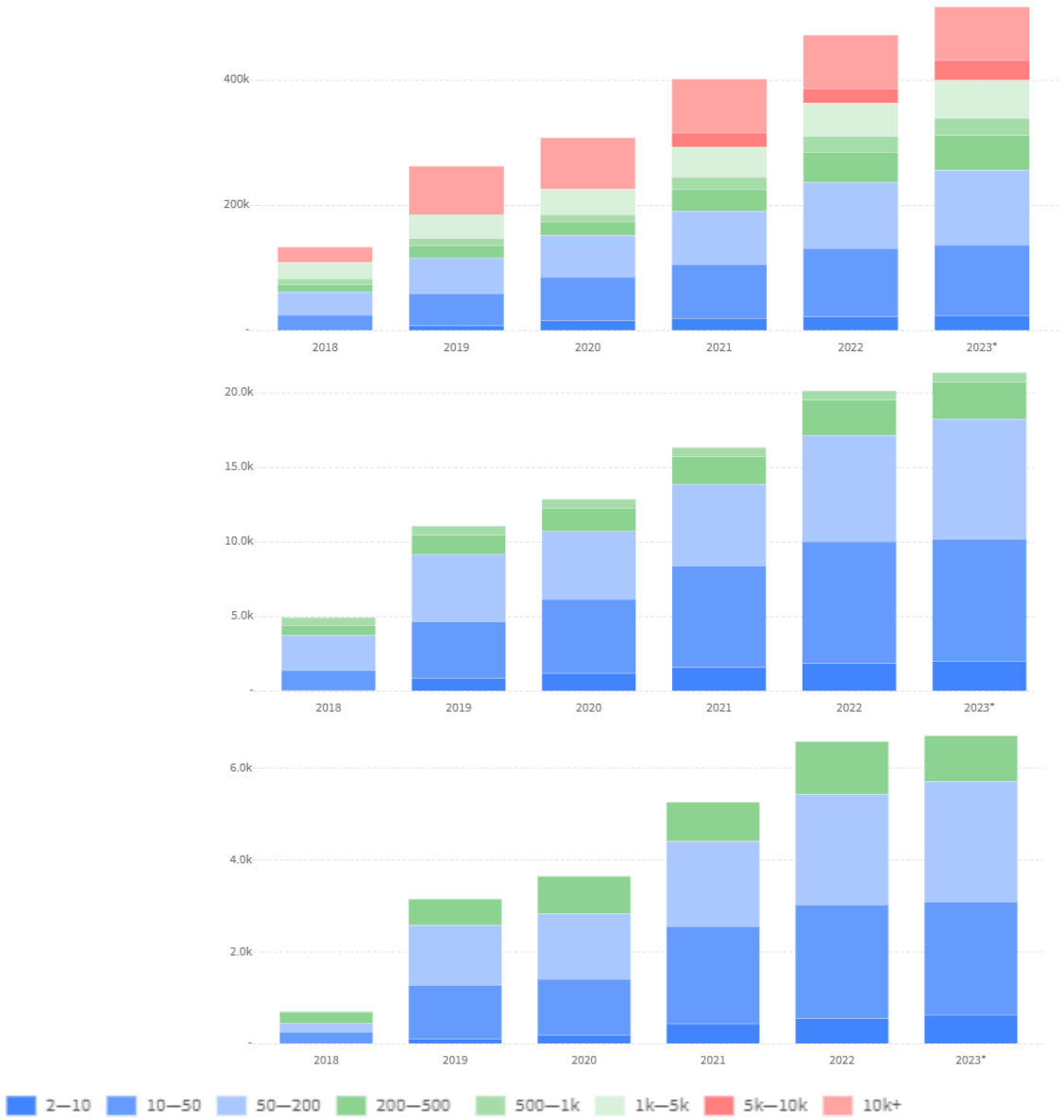


BY INDUSTRY OF ACTIVITY



Source: Startup Radar madri+d and Dealroom data for deep tech

Deep tech startups and jobs created (2023)



[Job offers in deep tech startups in Madrid region]

- **Europe:** 14.915 startups

  Jobs: 517k

- **Spain:** 1.205 startups (8% of Europe)

  Empleo: 21,3k (4% of Europe)

- **Community of Madrid:** 347 startups (29% de España)

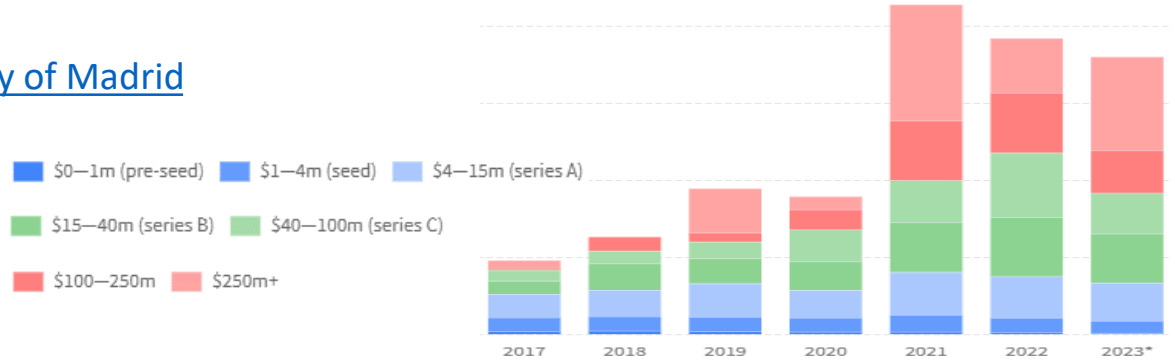
  Empleo: 6,7k (31,5% de España)

Source: Startup Radar madri+d and Dealroom data for deep tech in Europe , Spain and Community of Madrid

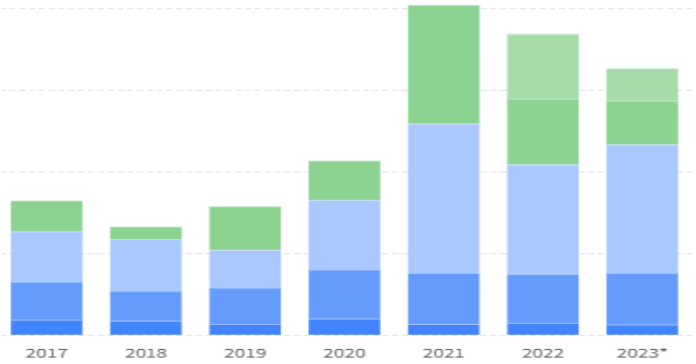
Investment obtained by deep tech startups (2023)

List of investment rounds in deep tech startups in the Community of Madrid

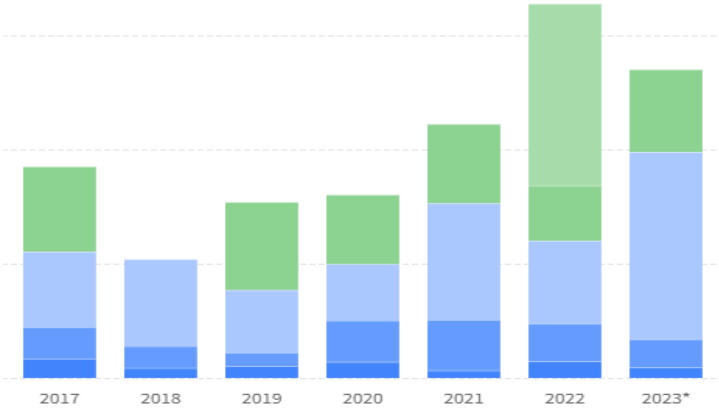
- **Europe:** 18.000 M$



- **Spain:** 326 M$ (1,8% of Europe)



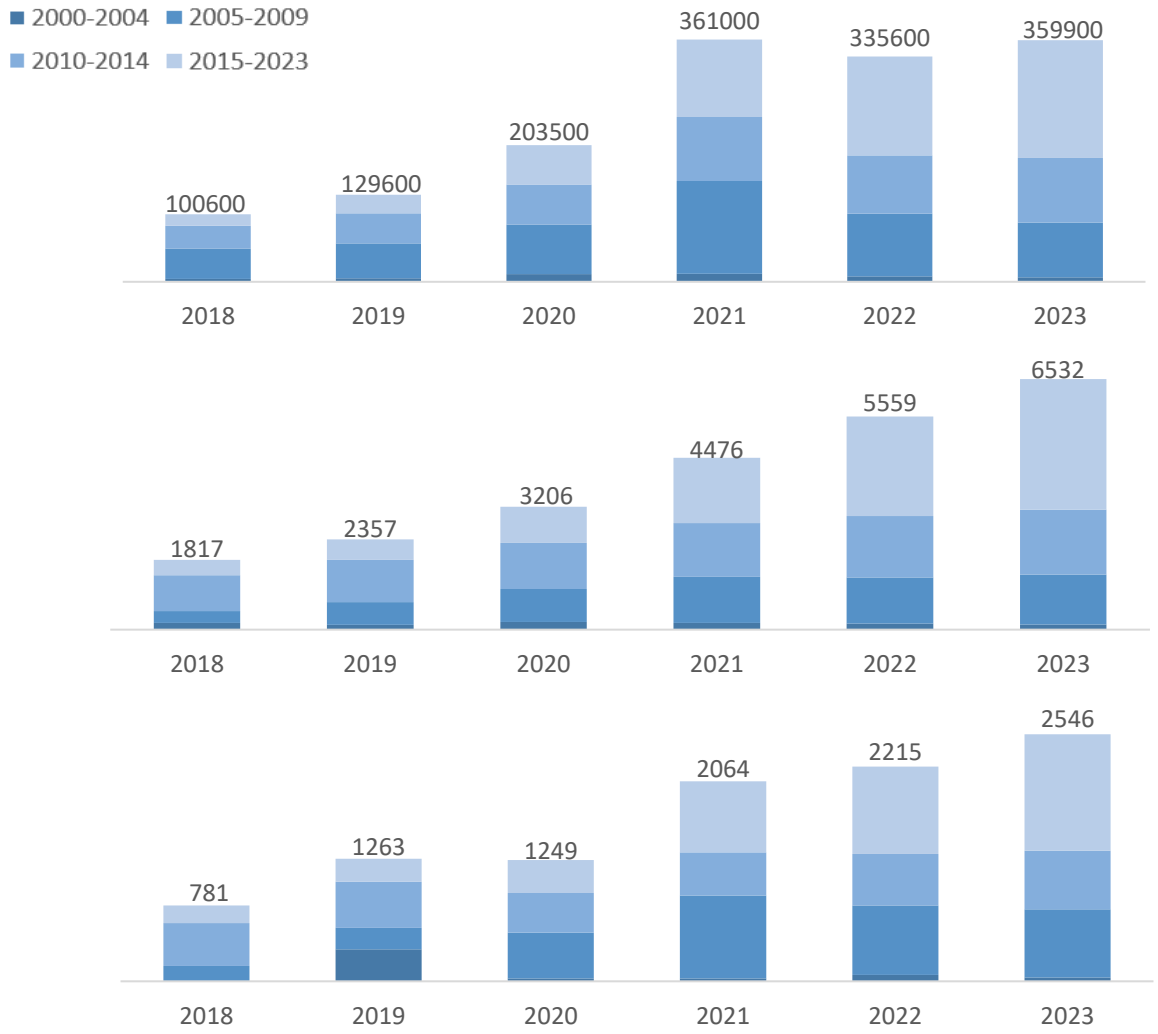
- **Community of Madrid:** 135 M$ (41,4% of Spain)*



Source: Startup Radar madri+d and Dealroom data for deep tech in Europe , Spain and Community of Madrid

Total valuation of deep tech startups (2023)

List of deep tech exits in the Community of Madrid

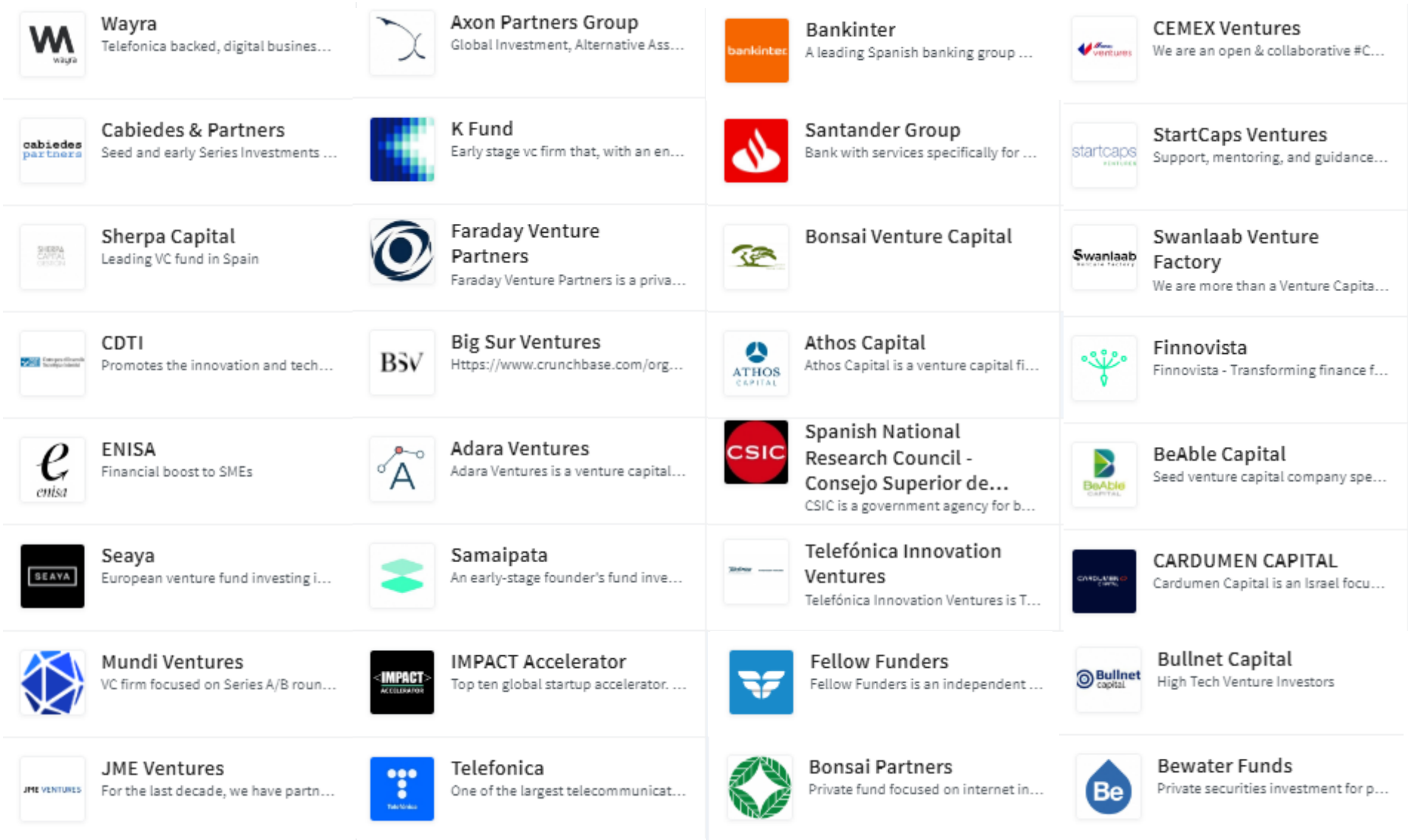


- **Europe:** 359.900 M$
- **Spain:** 6.532 M$ (1,8% of European deep tech startups valuation)
- **Community of Madrid:** 2.546 M$ (39% of Spanish deep tech startups valuation)

Source: Startup Radar madri+d and Dealroom valuation data for Europe , Spain and Community of Madrid

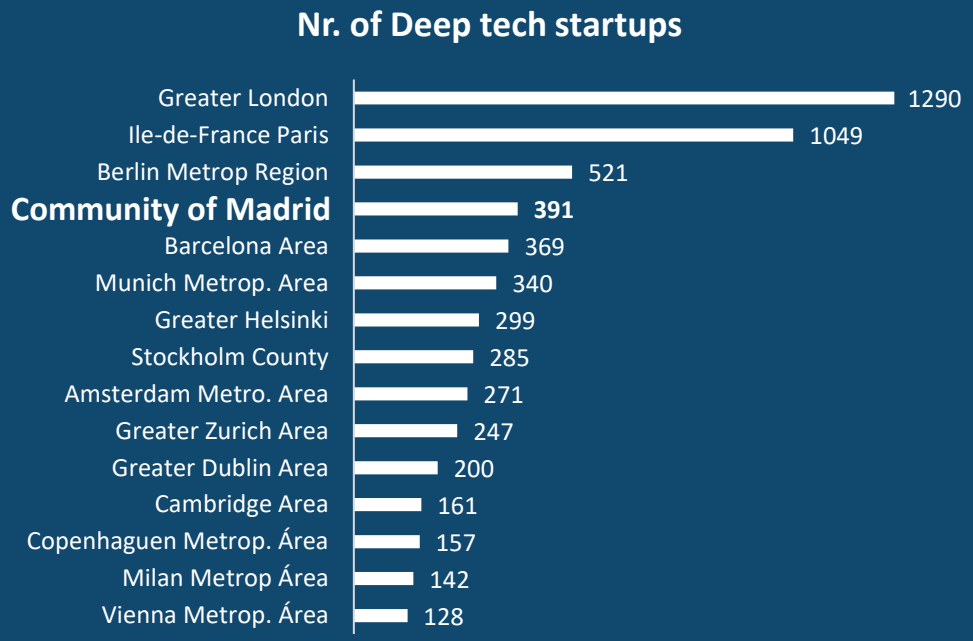
Main deep tech investors in the Community of Madrid

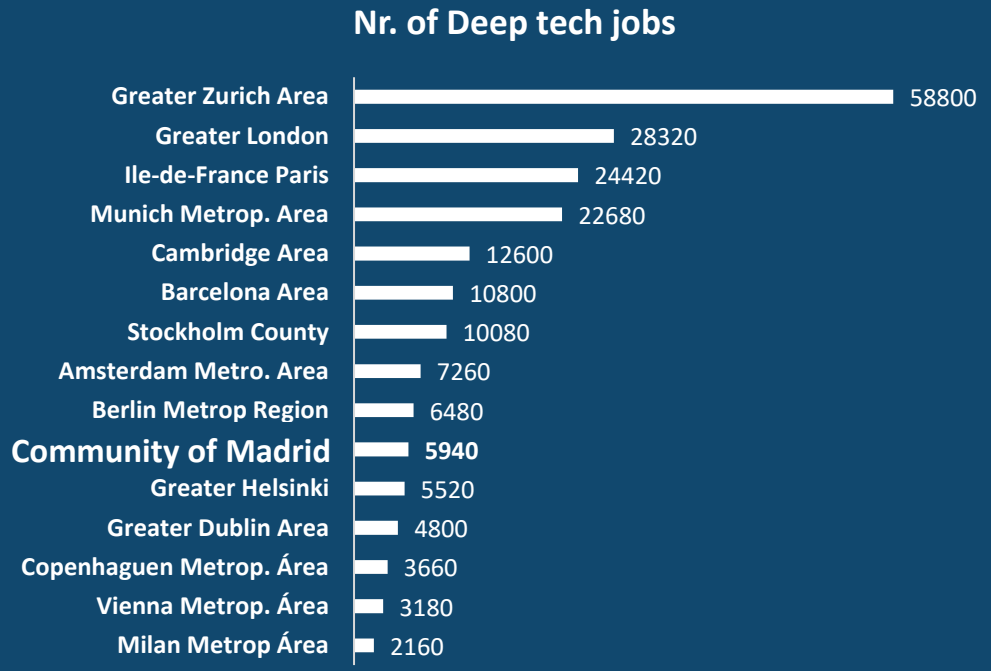
[List of 211 deep tech investors in the Community of Madrid]



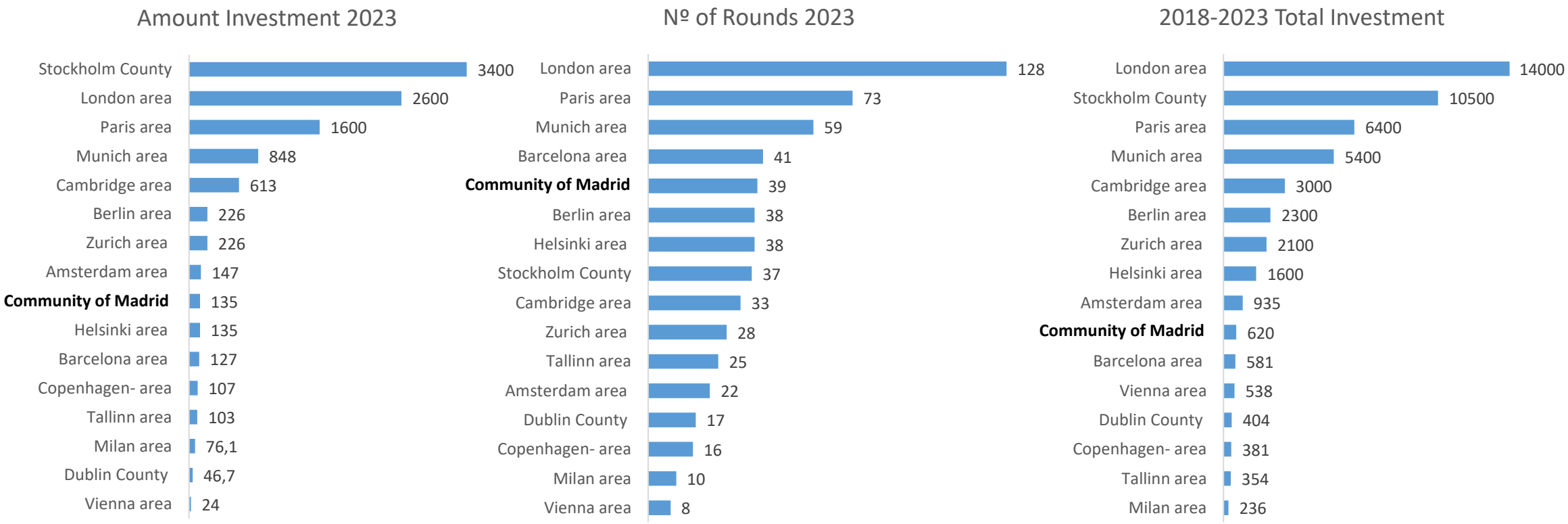
International position of the Community of Madrid by deep tech startups

- 4th European hub in Nr. of deep tech startups after London, Paris and Berlin
- 5th European hub for Nr. of deep tech rounds in 2023 and 9th in total amount invested
- 10th European hub for deep tech investment in 2018-23 (€620 million)
- 10th European hub in Nr. of deep tech jobs





Investment raised by deep tech startups in major European ecosystems



Source: Dealroom ecosystem metrics for startups deep tech

Some deep tech companies with highest valuations

List of Deep tech startups in the Community of Madrid with valuation data

Atrys Health eDiagnostic

Biomedical company dedicated to provide diagnostic services and excelence medical treatments.
523M € Valoración

MedLumics Enlightening Healthcare

A company that designs and manufactures medical devices and catheter-based systems for the treatment of supraventricular tachycardias.
100M € Valoración

Trucksters

Offering a FTL long-distance transportation service through an innovative relay system based on artificial intelligence.
198M € Valoración

CAROUSEL GROUP

Manages B2C operations in the global online gaming industry.
80M € Valoración

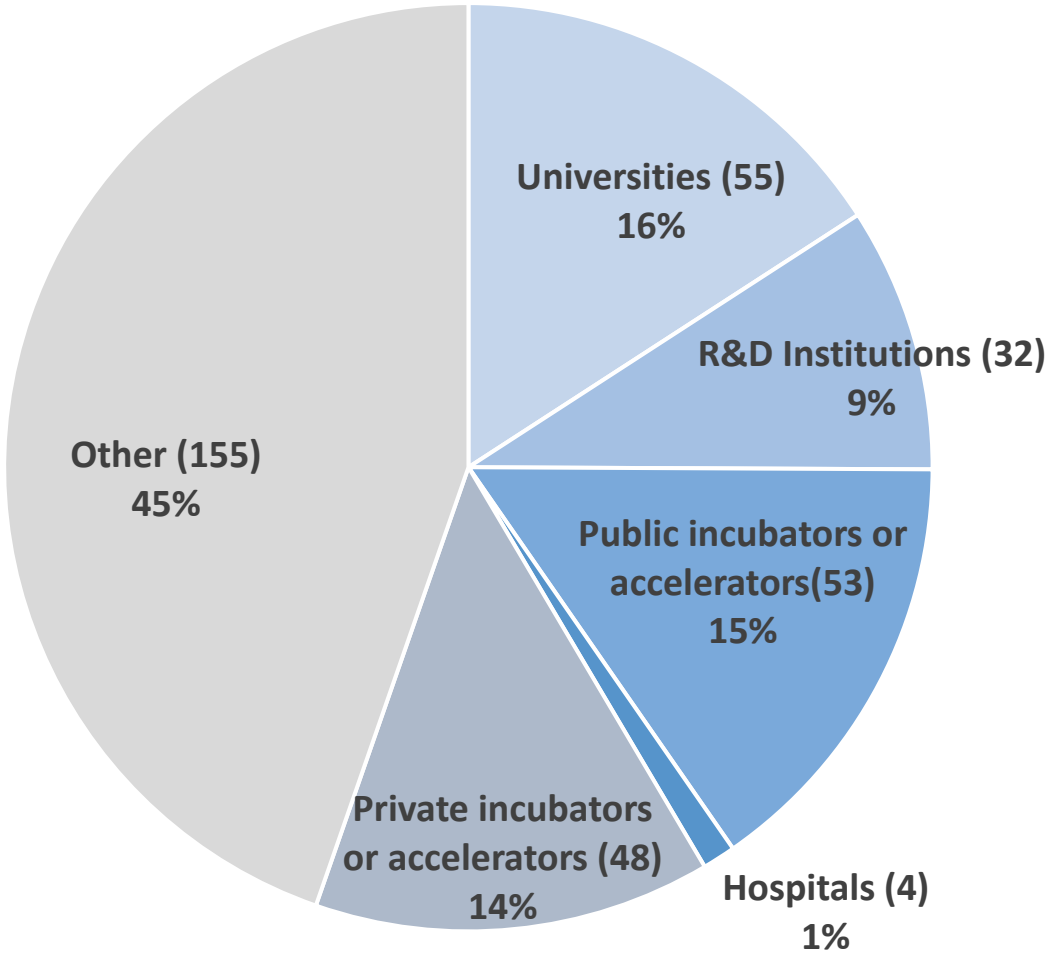
SAVANA AI + RWE

Leveraging AI to generate global and deep real-world evidence, enabling data-driven healthcare.
120M € Valoración

wiyo

Batteryless energy with real-time visibility & connectivity. Providing IoT-based data to cloud computing companies.
78M € Valoración

Madrid deep tech startups supported by Madrid entities, by type of entity



Deep tech startup support entities in Madrid Region

startup radar madrid

	Public Incubators, Accelerators & R&D Institutions	Selected corporate & private Accelerators & Facilitators
Science parks	Fundación Parque Científico de Madrid; Mostoles Tecnologico; uc3m Universidad Carlos III de Madrid; Leganes Tecnologico; tecnogetafe; Parque UPM; i2Tech- Campus Montegancedo Universidad Politécnica de Madrid; tecnoalcalá	Fondo Emprendedores; Explorer Powered by Santander
R&D Institutions	Gobierno de España Ministerio de Ciencia e Innovación; CSIC; Ciemat Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas; itemas Plataforma de Innovación en Tecnologías Médicas y Sanitarias; isciii; instituto imdea nanociencia; instituto imdea food; instituto imdea materiales; INIA Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria	ChemoStart Innovative projects in health; ie Area 31; IMPACT ACCELERATOR; <ISDI>; Empresa & Sociedad Fundación; eit InnoEnergy; TrenLab
Academia & other public institution	actúaUPM; UAM Emprende; compluemprende Universidad Complutense de Madrid; uc3m Universidad Carlos III de Madrid; Universidad Rey Juan Carlos; Universidad de Alcalá; esa Business Incubation Centre Madrid Region; EOI Escuela de organización industrial; iLAB International Lab; LN La Nave Madrid; ¡MADRID! madridEmprende; Powered by fundación para el conocimiento madrid; Desafía; FUNDITEC	Sabadell BStartup; correos labs; The Cube; ie Entrepreneurship; EDP Starter; CNP Start; endeavor; indra; Crypto Plaza Powered by LOOS; Fundación Innovación Bankinter; santalucía IMPULSA Apostando por el emprendimiento; Fundación Prosegur Come In Open Innovation Program; PropTech CBRE

>5 startups supported

Support to Madrid Deep tech startups

>1 startup supported

[Public incentives and aid]

artificial intelligence

Homedoctor
Lurtis Rules
Trucksters
DotGIS
Idaero
DataBeacon S.L.
UTW
BotsLovers
Skansense
In2AI
Global Robot Ex
Emozionella

iot internetofthings

MICRO ELECTROCH
Barbara IoT
MIOTI
KEROX TECHNOLOG
Sigma technolog
ADVANCED THERMA
Amplia))) iiot
MTX-M2M
Dronything
DRONESATCOM
Urban Digit

machine learning

Alisys
Anyverse
Smart Protectio
Bitext
Orbital Ads
Homy Hub
Nuubo
DADA Company

blockchain

Onyze
Tutellus.io
ICommunity Labs
Coin Governance
IO Builders
Blabelia
Etoshi
Pagobit
AvatarBTC
Witnet Foundati
Fluon
Smart Legal Tec
DiscoveryBlock
Arus Defence
Cosmwasm
Kolokium Blockc
Finweg
Smart Degrees
Cubic Fort
QA Laboratory
Ubicua.com
Ibotics.es
FUNDSLINK

mobile app

Medicsen
2Gether
Airtouch New Me
MyZuum
Ixorigué Techno
BrainGuard
Junntar
Raixer
Parkifast
Immersive inter
Evil Mind Enter

big data

Datos101
Narrativa
Graphext
Keepler Data Te
LeanXcale
Evidence Behavi
Cropti
Filmijob
Sensia
Sentisis
Savelist
Welovroi
Tinsa Digital
Lpi
Eris Innovation
Datmean

computer vision

NIT
Multispectral M
Artificial Visi

nanotech

Gnanomat
AD Particles
Xerolutions
Counterfog
Nanostine
Next-Tip
Luz wavelabs

startup radar madri+d

DEEP TECH STARTUPS OF THE COMMUNITY OF MADRID

BY OTHER TYPES OF TECHNOLOGIES

[See *Landscape* on Startup Radar madri+d]

augmented reality

5gig.com
Arexla
AirPersons

autonomous & sensor tech

UTEK Unmanned T
Ommatidia LIDAR
Aerotools Uav S

connected device

Neos new born s
Aerdron
Alpha Unmanned
Pibeca Solution
Geeksme
IXION
Drones Films
Mobus Drone

3d technology

Visual Technolo
Modelical
BKOOL
Casino.es
I+D RUNNING
Pix Interactive
Adatica Enginee
Pixtoon
SimOwl
Twopi
Visarton
Fick Company
ADDVANCE MANUFA
Madrid Space
Blacknosaur
UAV AUTOSYSTEMS
A3D

virtual reality

ProNest
Foren Project,
Universo Body p
VRandGO
Imagin&Tonic
Inmoreality
Dsigñ·cloud
Vooiage

recognition technology

UAV Navigation
Arquimea Ingeni
Anneo
Endado
Dioxinet
GeneticAI
Technaid S L
DTec
Unusuals
Mirubee
TheCorpora
handbe

deep learning

EYARD
OrbitalAds
DETEKTIA
Serendeepia
ESmartIT
Satya Insights
SEA: Smart Ener
Triporate
source{d}

quantum technologies

Q-Lion
Atelgraphics S.

startup radar madri+d

DEEP TECH STARTUPS OF THE COMMUNITY OF MADRID

BY OTHER TYPES OF TECHNOLOGIES

[See *Landscape* on Startup Radar madri+d]

The most complete and detailed picture of Madrid Region´s tech ecosystem

Knowledge partners

Startup Radar database is kept up-to-date with the support of a growing number of Knowledge Partners:

SPIN OFF DATA

- Madrid Region Universities
- R&D Institutions
- Sience Parks & hospitals (ITEMAS Network)
- Technology Parks

INDUSTRIES & TECHNOLOGIES

Industries and Technologies knowledge Partners to date are referenced here:

https://ecosystem.madrimasd.org/intro