In partnership with: Madrid Region

Deep Tech Startups

2022

Industry Report

Health care
devices
developer
medical
innovation

AI
data
pharma
biotechnology
nanotech
mobility

In
partnership
with:

dealroom.co
The Madrid Region Startup Ecosystem Platform

Ecosystem Platforms: Tools, Maps and Databases

Platform on Dealroom

2 Annual reports:
- Ecosystem Report (sectors, technologies, ...)
- Investment Report

+ Sector Reports

Tools for startups:
- Job search
- Investors
- Public Financing
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: Carlos Langeber
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.
## Hardware

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Company Name</th>
<th>Company Name</th>
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<tbody>
<tr>
<td>Medlumics</td>
<td>Nanostine</td>
<td>Next-Tip</td>
<td>TSP True Solar</td>
<td>Frenetic</td>
<td>Canard Drones</td>
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<tr>
<td>CEDRION</td>
<td>Corify Care</td>
<td>Advanced Metrol</td>
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<td>Skansense</td>
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<td>PID Eng&amp;Tech S.</td>
<td>Gnanomat</td>
<td>DASEL</td>
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<td>Vortex Bladeses</td>
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<td>Ariema Energia</td>
<td>BrainGuard</td>
<td>Somax Systems</td>
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<td>Solutions30</td>
<td>Jalvasub</td>
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<td>Mecwins</td>
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<td>Aeon-T</td>
<td>Medisenc</td>
<td>Anneo</td>
<td>Xerolutions</td>
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<td>Aura Innovative</td>
<td>A3D</td>
<td>Nuubo</td>
<td></td>
<td>Lpi</td>
<td>SCIGNALS</td>
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<td>Atelgraphics S.</td>
<td>ACIS INNOVACIÓN</td>
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<td>DIFFERENTIAL PO</td>
<td>Aura Avionics</td>
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<td>Lubaq Corporate</td>
<td>SP Control Tech</td>
<td>Madrid Space</td>
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<td>Alpha Unmanned</td>
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<td>NAUTA TECHNOMED</td>
<td>ADVANCED THERMA</td>
<td>Wootix</td>
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<td>Bonsai Advanced</td>
<td>Radonart</td>
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<td>Kdpof</td>
<td>THI</td>
<td>2Eyes Vision</td>
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<td>Counterfog</td>
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<td>Adatica Engine</td>
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<td>Antalis Things</td>
<td>Raízer</td>
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</table>
### DEEP TECH STARTUPS OF THE COMMUNITY OF MADRID

**BIOTECH**
- Allinkey Biophar
- AptaTargets
- Abvance Biotech
- Cellerix
- Algenex
- Genality Diagn
- Protein Alterna
- Precision for H
- Life length
- Diomune
- Ysotope Therano
- Natac
- Igen
- Biomedica Molec
- Pharmactive Bio
- SYLENTIS
- Inmunologia y G
- Vivia Biotech
- Evoenzyme
- AptusBIOTECH
- Dobecure
- InnoHealth Grou
- PROPOSIT
- OXOPROBICS BIOS
- Agrenvec
- SILK BIOMED
- ALODIAFARMACEUT
- Patent Shoes
- Algenex (Altern
- CIANOALGAE SL
- Infiquis
- DisrupPep

### BIOTECH & SOFTWARE
- Atrys Health
- HELIX BIOS
- 24Genetics
- Plebiotic S.L.
- Altum Sequencing
- Tucuvi
- Idoven
- Savana
- GENOMICS4ALL
- Mello.es

### HARDWARE & SOFTWARE
- Spotlab
- Artificial Visi
- Advanced Radar
- KEROX TECHNOLOG
- Retiplus
- Inrobes (NaoTh
- Adamo Robot
- Lidax
- Surgescopes
- Ommitigia LIDAR
- UTW
- UTEK Unmanned T
- Vaelys
- Foren Project
- CUBELIZER
- Captoplastics
- lenal SPACE
- Amplia))) iot
- EOS-X SPACESHIP
- OrbitalAds
- Future Voltaics
- Airelectronics
- Autodrive Solut
- Sensowave
- Automated Devic
- Alteria Automat
- DronModular
- IXION
- Orbital Ads
- TheCorpore
- FON
- Parkifast
- LastBasic
- Datos101
Distribution of 347 deep tech companies in the Community of Madrid

**BY TECHNOLOGY AREA**
- Software: 38%
- Hardware: 29%
- Biotech: 13%
- Biotech and Hardware: 6%
- Hardware & Software: 10%
- Biotech & Hardware: 4%
- Biotech and Software: 4%

**BY INDUSTRY OF ACTIVITY**
- Health: 28%
- Enterprise software: 28%
- Energy: 12%
- Marketing: 8%
- Robotics: 5%
- Transportation: 5%
- Real estate: 4%
- Semiconductors: 4%
- Security: 4%
- Fintech: 4%
- Otros: 19%

Source: Startup Radar Madrid and Dealroom data for deep tech
Deep tech startups and jobs created (2022)

Europe: 17,300 startups
Jobs: 703k

Spain: 1,365 startups (8% of Europe)
Empleo: 28k (4% of Europe)

Community of Madrid: 347 startups
(25% de España)
Empleo: 9,2k (33% 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 (2022)

Europe: 17.800 M$

Spain: 663 M$ (3,7% of Europe)

Community of Madrid: 398 M$ (60% of Spain)*

Discounting a single investment of 250 M€ in Seedtag, it would be 31% of Spain.

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

List of 181 deep tech investors in the Community of Madrid
International position of the Community of Madrid by deep tech startups

• 4th European hub next to Barcelona in number of deep tech startups after London, Paris and Berlin

• 7th European hub in jobs in the sector (9,200) after Zurich, London, Munich, Paris, Berlin and Stockholm

• 7th European hub for deep tech investment in 2022 (398 M$) after London, Paris, Berlin, Amsterdam, Munich, Stockholm, Zurich and Helsinki *

• 9th European hub for deep tech investment in 2017-22 ($886 million) after London, Stockholm, Munich, Paris, Berlin, Zurich, Helsinki and Amsterdam *

* Discounting one only investment (Seedtag, 250 M€) the position would be 10th in investment in 2022 including Berlin, Amsterdam and Barcelona and 11th in investment in the period 2017-2022 including Dublin and Barcelona.
Investment raised by deep tech startups in major European ecosystems (2017-2022).

Source: Dealroom ecosystem metrics for startups deep tech
Total valuation of deep tech startups (2022)

Europe: 530.000 M$

Spain: 7.700 M$ (1,5% of European deep tech startups valuation)

Community of Madrid: 2.764 M$ (35% of Spanish deep tech startups valuation)

Source: Startup Radar madri+d and Dealroom valuation data for Europe, Spain and Community of Madrid
Some deep tech companies with highest valuations

**CARTO**
A platform that converts spatial data into efficient delivery routing, improved behavioral marketing and strategic store locations.

300M € Valoración

**SAVANA**
Leveraging AI to generate global and deep real-world evidence, enabling data-driven healthcare.

110M € Valoración

**SEEDTAG**
Contextual advertising technology that leverages the power of machine learning to provide human-like understanding of content.

200M € Valoración

**MedLumics**
A company that designs and manufactures medical devices and catheter-based systems for the treatment of supraventricular tachycardias.

100M € Valoración

**PLANTRESPONSE**
It develops solutions for soil health and improves crop nutrition to help produce the food the world needs.

192.5M € Valoración

**IDOVEN**
They combine Artificial Intelligence algorithms in the cloud with wearable technology to detect cardiac problems early.

60M € Valoración
Madrid deep tech startups supported by Madrid entities, by type of entity

- Other (155) 45%
- Universities (55) 16%
- Public incubators or accelerators (53) 15%
- Private incubators or accelerators (48) 14%
- R&D Institutions (32) 9%
- Hospitals (4) 1%

Source: Startup Radar madri+d and Dealroom data for deep tech in Europe, Spain, and Community of Madrid
# Deep tech startup support entities in Madrid Region

## Science parks
- Fundación Parque Científico de Madrid
- MOSTOLIS Tecnológico
- LEGANÉS
- tecnogafé
- UPm
- tecnocalá

## R&D Institutions
- CSIC
- CIEMAT
- ITAMAS
- ISCTE

## Academia & other public institutions
- Actúa UPm
- UAM Emprende
- comUmprende
- UC3M
- Universidad Carlos III de Madrid
- Universidad Ray Juan Carlos
- Universidad de Alcalá
- ESA
- IE
- EOI
- Desafía
- Fundación Industrial de Madrid

## Public Incubators, Accelerators & R&D Institutions
- Sabadell BStart
- Correos labs
- THE CUBE
- ENDORNOM
- EDP STARTER
- CNP START

## Selected corporate & private Accelerators & Facilitators
- Impact)
- ISDI
- TrenLab
- InnoEnergy
- Indra

Public incentives and aid
### DEEP TECH STARTUPS OF THE COMMUNITY OF MADRID

**By other types of technologies**

#### Autonomous & sensor tech
- UTEK Unmanned T
- Aerertools Uav S
- Ommatidia LIDAR

#### Connected device
- Neos new born
- Aerдрon
- Alpha Unmanned

#### Virtual reality
- Pibeca Solution
- Geeksme
- Drones Films

#### Augmented reality
- 5gg.com
- Arelia
- AirPersons

#### 3D technology
- Visual Technolo
- Modelical
- BKool
- Casino.es
- I+O RUNNING
- Pix Interactive
- Adatica Enginee
- Twopi
- Visarton
- Fick Company
- ADDVANCE MANUFA
- Madrid Space
- Blacknosa
- UAV AUTOSYSTEMS
- A3D

#### Recognition technology
- UAV Navigation
- Arquimea Ingeni
- Image
- Anneo
- Endado
- Dioxinet
- Genetica
- Technaid S L
- DTec
- Unusuals
- Mirubee
- TheCorpora
- Handbe

#### Deep learning
- EYARD
- OrbitalAds
- DETEKVia
- Serendeepia
- ESmartIT
- Satya Insights
- SEA: Smart Ener
- Triporate
- Satya
- [d]
- source[d]

#### Quantum technologies
- Q-Lion
- Atelgraphics S.

See Landscape on Startup Radar madri+d
### Deep tech startups with best Dealroom signal (Q4 2022)

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

<table>
<thead>
<tr>
<th>Name</th>
<th>DEALROOM SIGNAL</th>
<th>DEALROOM SIGNAL</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tucvi</td>
<td>58</td>
<td>30</td>
<td>Makes continuity of care at home possible</td>
</tr>
<tr>
<td>Idoven</td>
<td>55</td>
<td>30</td>
<td>Idoven developed the first cloud p...</td>
</tr>
<tr>
<td>Carto</td>
<td>54</td>
<td>30</td>
<td>A platform that turns spatial data into actionable intelligence</td>
</tr>
<tr>
<td>Elaisian</td>
<td>53</td>
<td>30</td>
<td>Developed a precision farming system</td>
</tr>
<tr>
<td>Corify Care</td>
<td>52</td>
<td>30</td>
<td>The developer of an innovative an...</td>
</tr>
<tr>
<td>Seedtag</td>
<td>47</td>
<td>30</td>
<td>Contextual advertising technology</td>
</tr>
<tr>
<td>Spotlab</td>
<td>47</td>
<td>30</td>
<td>Developing innovative technology</td>
</tr>
<tr>
<td>Marsi bionics</td>
<td>47</td>
<td>30</td>
<td>Developing disruptive innovative technology</td>
</tr>
<tr>
<td>CHECKTOBUILD</td>
<td>47</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Frenetic</td>
<td>47</td>
<td>30</td>
<td>Using an AI-based technology to d...</td>
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<tr>
<td>Plant Response</td>
<td>47</td>
<td>30</td>
<td>Biotech Developing soil health solutions a...</td>
</tr>
<tr>
<td>Mediusmics</td>
<td>45</td>
<td>30</td>
<td>A pre-commercial, medical device...</td>
</tr>
<tr>
<td>Kymatio</td>
<td>38</td>
<td>30</td>
<td>Employee cyber risk management</td>
</tr>
<tr>
<td>TROOP</td>
<td>38</td>
<td>30</td>
<td>A data aggregation and visualization service for...</td>
</tr>
<tr>
<td>Rated Power</td>
<td>36</td>
<td>30</td>
<td>Offers P2P design, the leading cloud...</td>
</tr>
<tr>
<td>Kdpof</td>
<td>35</td>
<td>30</td>
<td>Innovative high-speed optical net...</td>
</tr>
<tr>
<td>Canard Drones</td>
<td>34</td>
<td>30</td>
<td>The leading company in the use of...</td>
</tr>
<tr>
<td>Trucksters</td>
<td>34</td>
<td>30</td>
<td>Offering a FTL long-distance trans...</td>
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<tr>
<td>Lurtis Rules</td>
<td>33</td>
<td>30</td>
<td>A cloud service that produces com...</td>
</tr>
<tr>
<td>Micro Electrochemical Technologies, S.</td>
<td>33</td>
<td>30</td>
<td>A project focused on microflow balance...</td>
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<tr>
<td>Idaeo</td>
<td>32</td>
<td>30</td>
<td>Develops advanced engineering solutions</td>
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<td>DataBeacon S.L.</td>
<td>32</td>
<td>30</td>
<td>Offers an AI data platform for aviat...</td>
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<tr>
<td>Geoblink</td>
<td>32</td>
<td>30</td>
<td>The location management platform</td>
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<tr>
<td>CEDRION</td>
<td>32</td>
<td>30</td>
<td>Designs and produces plasma devi...</td>
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<tr>
<td>Drone Hopper</td>
<td>32</td>
<td>30</td>
<td>An aeronautical engineering company</td>
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<td>Electrocreative</td>
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<td>At Impresora we are on a mission...</td>
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<td>Charyg</td>
<td>31</td>
<td>30</td>
<td>Focuses on design and develops h...</td>
</tr>
<tr>
<td>Lurtis Rules</td>
<td>31</td>
<td>30</td>
<td>A cloud service that produces com...</td>
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<td>Skansense</td>
<td>31</td>
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<td>Offers a patented technology to la...</td>
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<tr>
<td>In2AI</td>
<td>31</td>
<td>29</td>
<td>Creating real digital transformation...</td>
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<td>nautid High</td>
<td>31</td>
<td>29</td>
<td>Performance Computing an... Develops high-performance equip...</td>
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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
- Science Parks & hospitals (ITEMAS Network)
- Technology Parks

INDUSTRIES & TECHNOLOGIES
Industries and Technologies knowledge Partners to date are referenced here:

https://ecosystem.madrimasd.org/intro