

startup  
**radar**  
madri+d

Madrid Region

# **Nanotech** Startups

2022

 **fundación** para el  
**conocimiento**  
madri+d

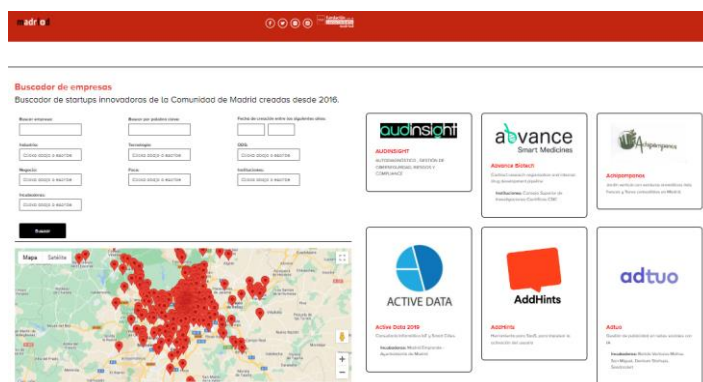
Industry  
**Report**

In partnership with:

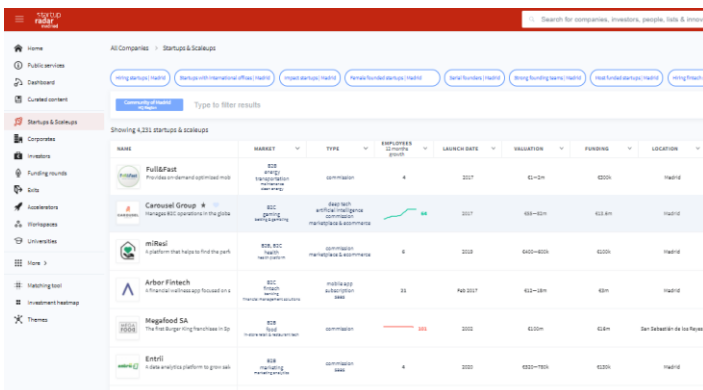
 **dealroom.co**

# The Madrid Region Startup Ecosystem Platform

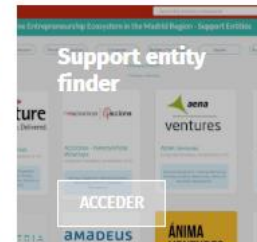
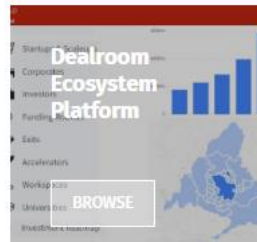
## Ecosystem Platforms: Tools, Maps and Databases



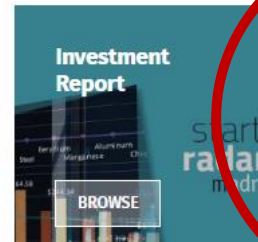
### Platform on Dealroom



### Ecosystem Platforms



### Reports



## 2 Annual reports:

- Ecosystem Report
- Investment Report

## + Industry Reports

### Startup Tools



## Tools for startups:

- Job search
- Investors
- Public Financing

# Information sources

## + **Startup Radar madri+d:**

- Analysis of the innovative entrepreneurial ecosystem of the Community of Madrid.
- Unique databases in terms of size and representativeness of innovative startups, incubators, accelerators, incubators, venture capital,...

## + **European Nanotechnology Landscape report 2022 to 2027**, ObservatoryNANO

## + **Nanomaterials Market Size & Share Report 2021-2028**, Grand View Research

## + **Nanotechnology in Agriculture and Food Systems 2022**, U.S. Department of Agriculture

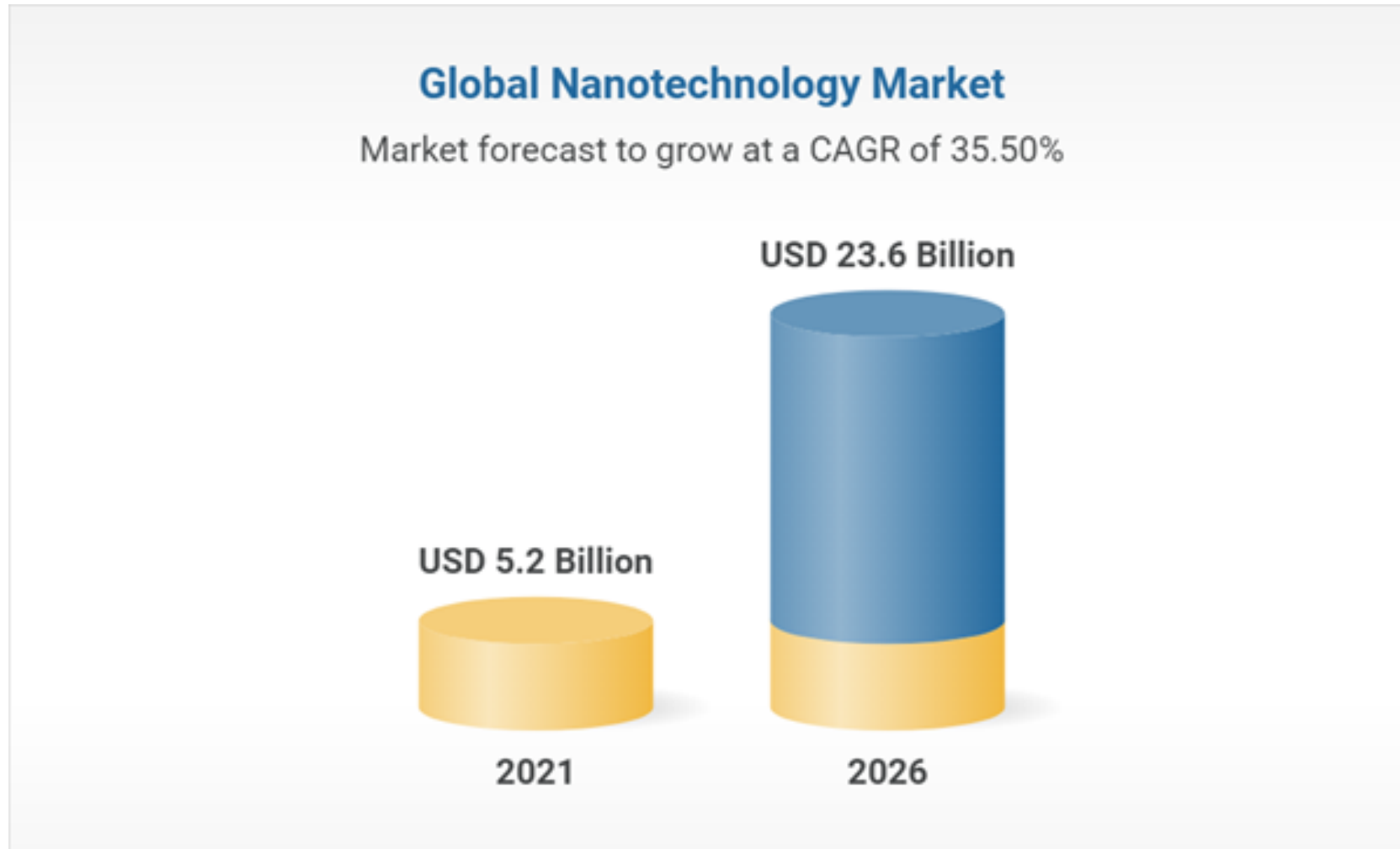
## + **Nanotechnology Market by Type** (Nanosensors, Nanodevices, Nanomaterials, Others), **by Application** (Information Technology (IT), Homeland Security, Medicine, Transportation, Food Safety, Others), **by End-use, and by Region Forecast to 2030**, Emergen Research

## + **Nanotechnology, over a Decade of Progress and Innovation 2020**, U.S. Food and drug Administration

## + **Nanociencia y Nanotecnología en España**, NanoEspaña and PH Foundations

## + **Instituto IMDEA Nanociencia**

# Nanotechnology has very high growth projection



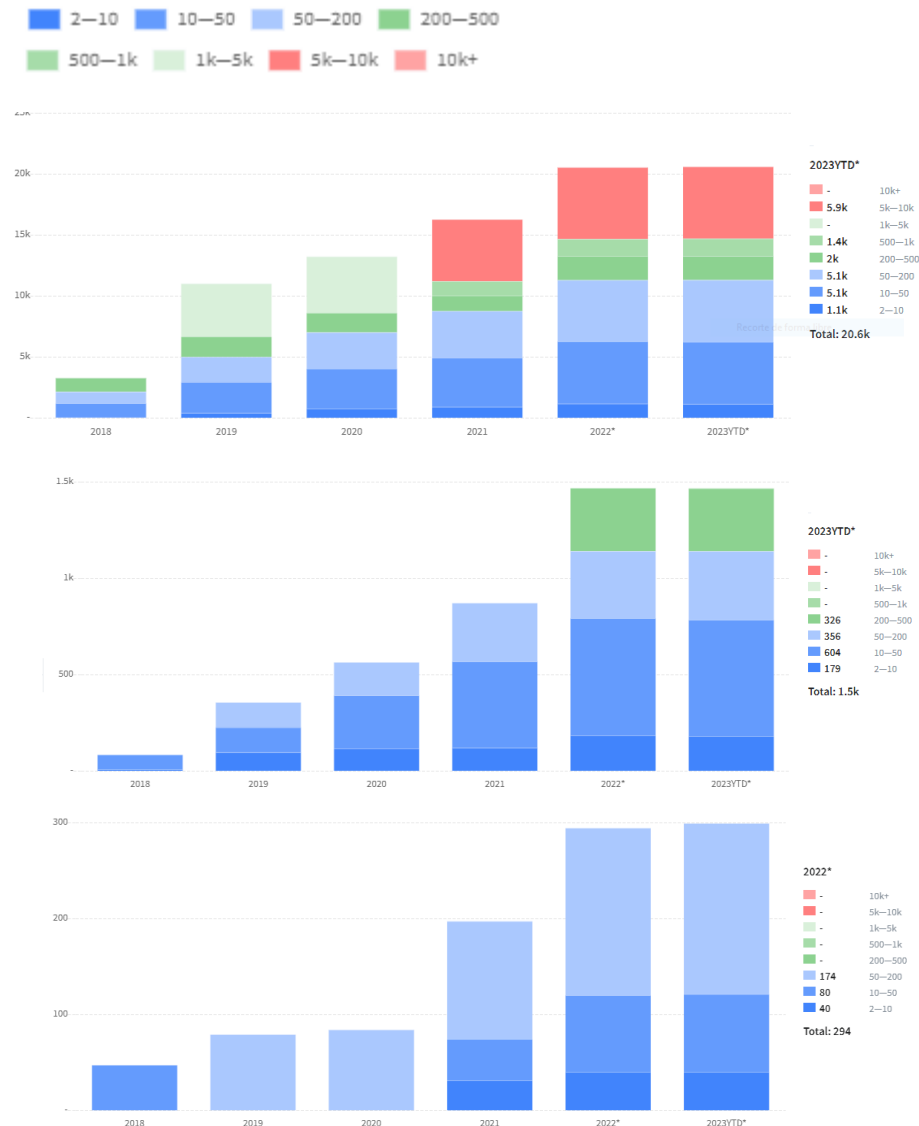
Source: Global Nanotechnology Market Report



## Some data on the sector growth in the U.S.



# Nanotech startups and jobs created (2022)



## + Europe

675 startups

Jobs: 20 K

## + Spain

119 startups (17,1% of Europe)

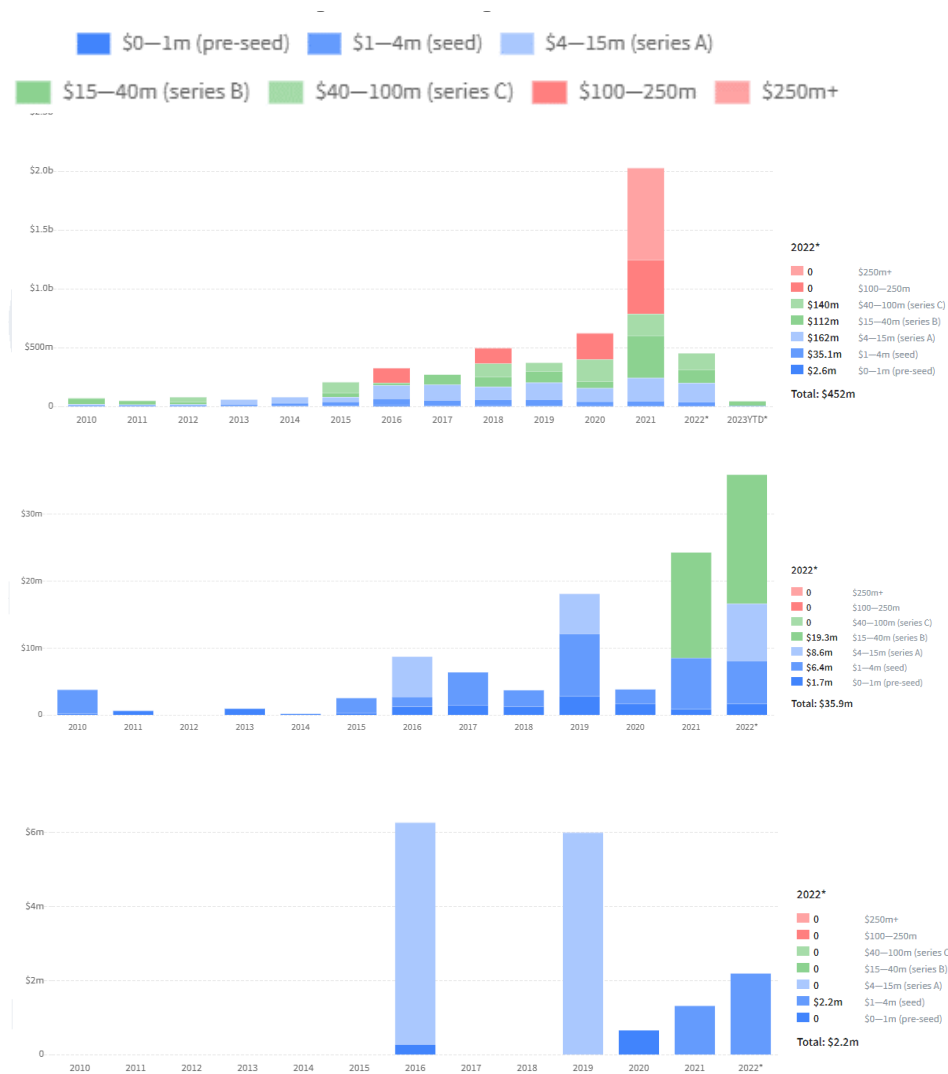
Jobs: 1,5k (7,5% of Europe)

## + Community of Madrid

20 startups (17% of Spain)

Jobs: 346 (23% of Spain)

# Investment raised by nanotech startups (2022)



🇪🇺 **Europe**

452 M\$

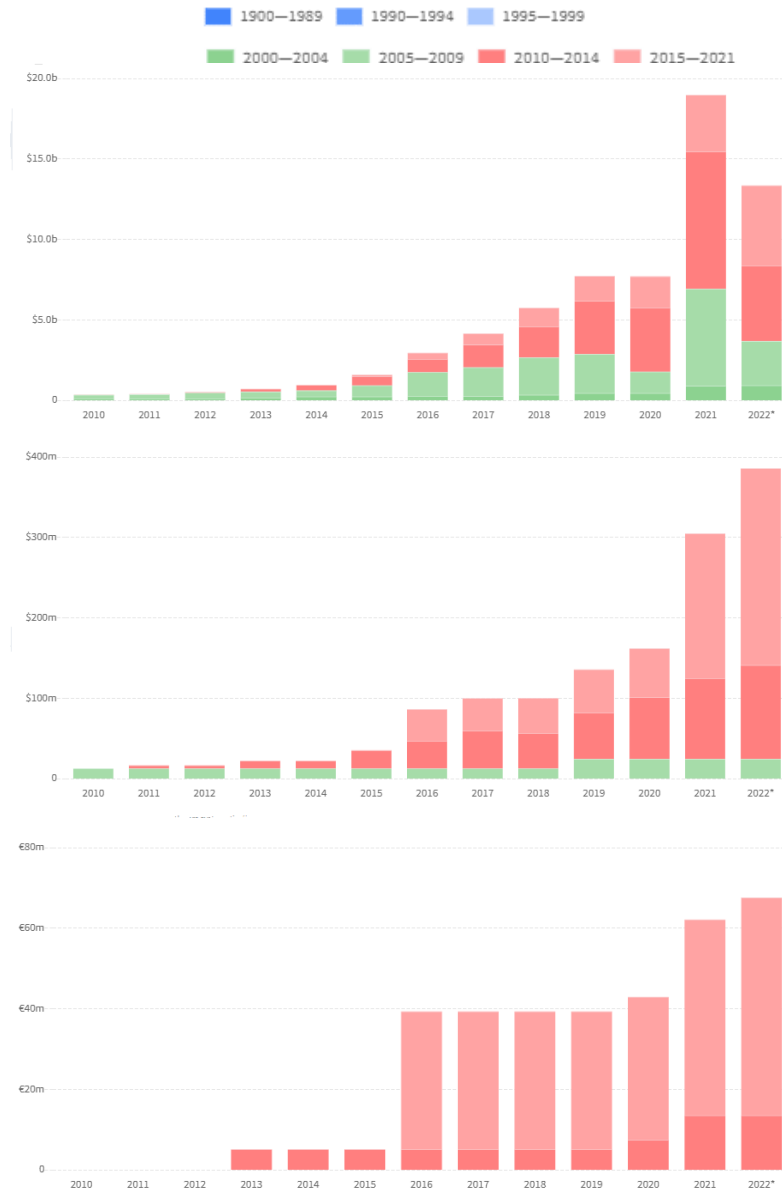
🇪🇸 **Spain**

35,9 M\$ (3,81% of Europe)

🇪🇸 **Community of Madrid**

2,2 M\$ (15,8% of Spain)

# Total valuation of nanotech startups (2022)



## 🇪🇺 Europe

Valuation: 13.400 M\$

## 🇪🇸 Spain

386 M\$ (3% of European nanotech startups valuation)

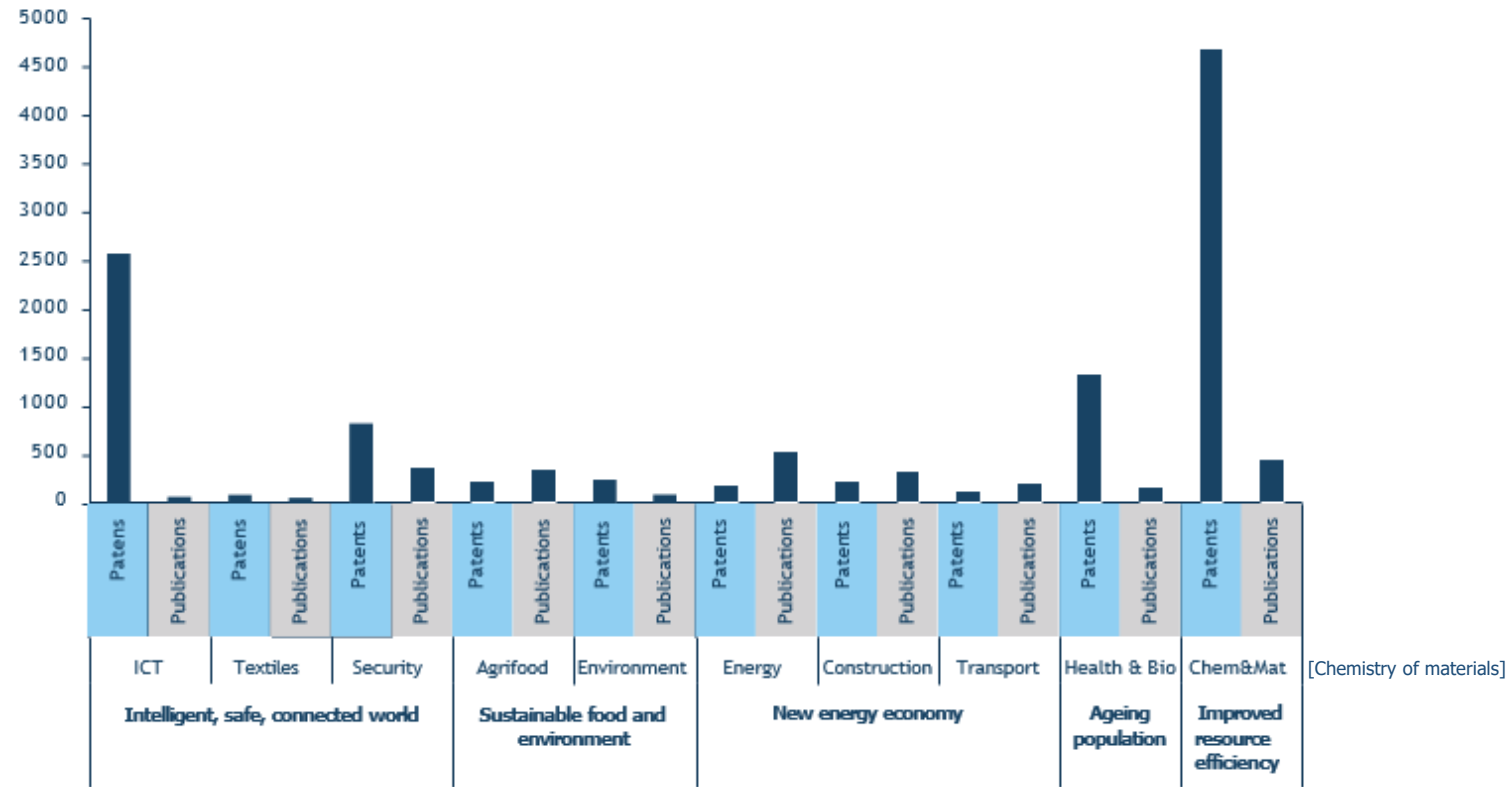
## 🇪🇸 Community of Madrid

67,6 M\$ (17,5% of Spanish nanotech startups valuation)



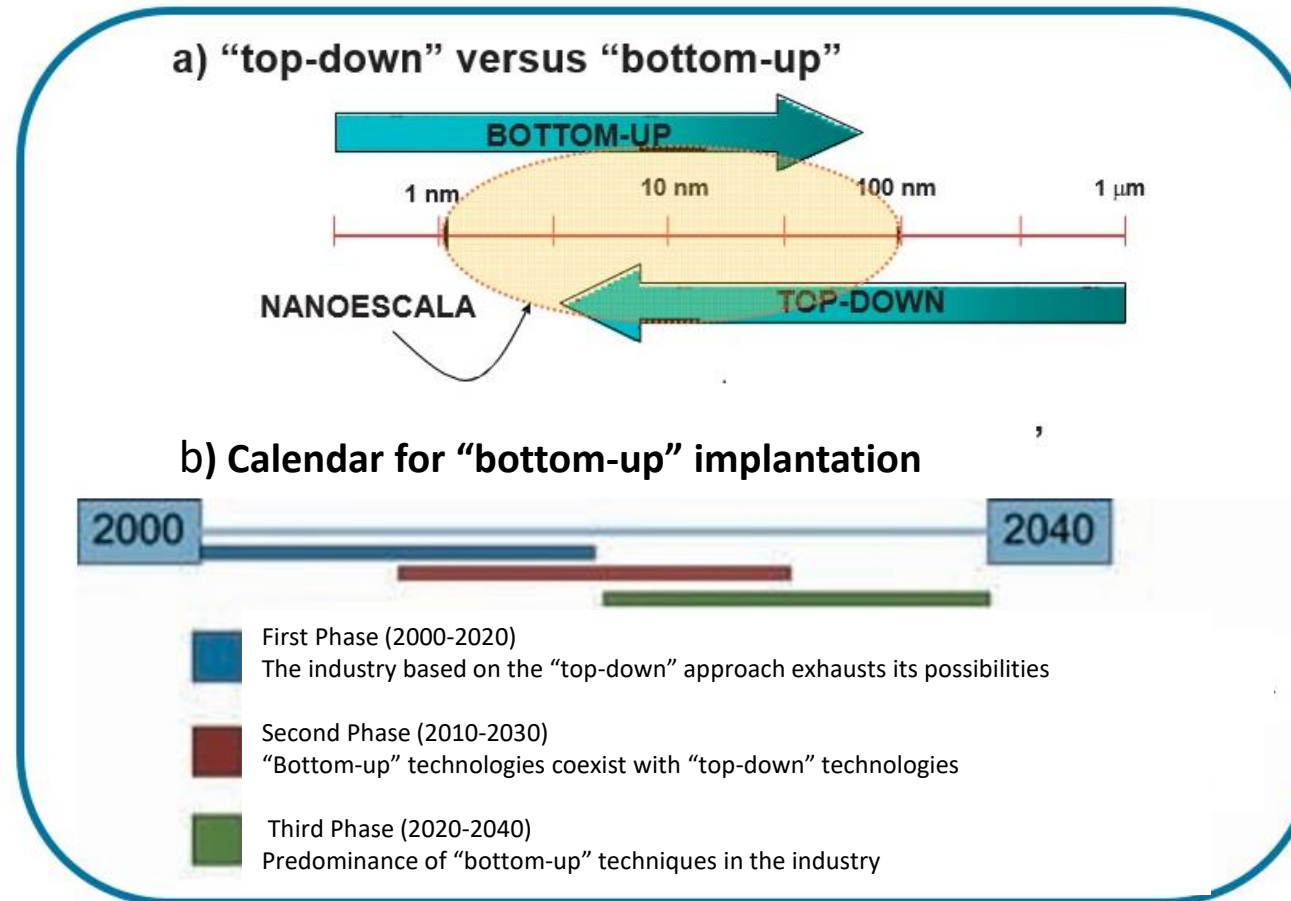
# In Europe, the Nanomaterials sector stands out in terms of number of patents.

European Nanotechnology Landscape Report: Publication/Patent Comparison



Source: European Nanotechnology Landscape Report

# A positive change in the industry: Bottom-up implementation (\*)



(\*) Bottom-up techniques (from nanoscale to normal scale) are much more effective than top-down techniques.

## enterprise software



source[d]



Keeper Data Te

## transportation



Ienai SPACE



Gnanomat

## health



Medicsen



A4Cell



Nanoinnova Tech



Umbrella Techno



Water Enhanceme



Bonsai Advanced



Lifesome therapeutics



Orion High Tech

## semiconductors



Phi4tech



Luz wavelabs

## energy



Next-Tip



Captoplastic



Nanostine



Xerolutions



NANO4ENERGY SL

## chemicals



Counterfog

## wellness beauty



AD Particles

# NANOTECHNOLOGY STARTUPS IN THE COMMUNITY OF MADRID

## BY SUBINDUSTRIES

Source:  
[Landscape in Startup Radar madri+d](#)

# Some information about the sector in Europe

⊕ Nanotechnology is expected to make a significant contribution to economic growth and job creation in the EU in the coming decades. According to scientists, nanotechnology will have four distinct development generations. We are currently in the first (or starting the second) generation of nanomaterials.

Source: [European observatory of Nanomaterials](#)

⊕ Nanotechnology has exploded over the past two decades with a booming global market that will be worth more than \$130 billion between 2020 and 2024, according to Research & Markets' Global Nanotechnology Market (by Component and Applications) report that presents forecasts for 2024.

Source: [Nanotech applications EU](#)

# Some information about the sector in the Community of Madrid

- ⊕ Madrid has bet on Nanoscience in recent years, highlighting experiences such as the ByAxon 2017-2021 program which has been a great success and whose objective was the manufacture of sensors. Coordinated by IMDEA Nano, formed by six partners from four European countries (Spain, France, Italy and Germany) and funded by Horizon 2020, which provided 3.7 million euros.

Source: [BYAXON EU](#) y [Consejería Sanidad CLM](#)

- ⊕ In the future, IMDEA Nano coordinates international pioneering activities such as PASSENGER, which aims to achieve the creation of 8 pilot plants by 2025 to limit European dependence on Chinese components, and to make a European development for implementation in electric vehicles a reality.

Source: [Community of Madrid](#)



# 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>

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