



**Barcelona
Supercomputing
Center**
Centro Nacional de Supercomputación

BSC SPIN-OFF CATALOGUE



SPIN-OFFS: A KEY TOOL TO BOOST TECHNOLOGY TO MARKET

The Barcelona Supercomputing Center-Centro Nacional de Supercomputación (BSC-CNS) is Spain's national supercomputing center. We specialize in high-performance computing (HPC) and manage MareNostrum, one of the most powerful supercomputers in Europe.

BSC's Innovation and Business Development unit focuses on transferring knowledge and innovations developed at the center to create a positive impact on society.

BSC, A REFERENCE IN TECHNOLOGY TRANSFER



Spin-offs are a key tool for facilitating the transfer of technology to the market. This unit supports researchers in the spin-off creation process, actively participating in their development while offering information, training, and connections within the entrepreneurial ecosystem.

FACTS & FIGURES OF BSC SPIN OFF



 **nostrum**
biodiscovery


NEARBY
COMPUTING


NEXTMOL™

 **openchip**
Enabling the Digital World


Mitiga

 **Qbeast**

 **FRONTWAVE**
IMAGING


TALPTECH

ELEM
THE VIRTUAL
HUMANS FACTORY

 **QILMANJARO**
QUANTUM · TECH

 **EAR**

 **GALTEA**

INDEX

| | |
|----------------------|----|
| Nostrum Biodiscovery | 6 |
| Mitiga Solutions | 7 |
| ELEM | 8 |
| Nearby Computing | 9 |
| Qbeast | 10 |
| Qilimanjaro | 11 |
| Nextmol | 12 |
| Frontwave | 13 |
| EAR | 14 |
| Openchip | 15 |
| TalpTech | 16 |
| Galtea | 17 |

Nostrum Biodiscovery

Nostrum Biodiscovery focuses on the development of AI-based solutions combined with molecular modeling tools to face very tough challenges that the biotechnology sector faces nowadays. It's worth mentioning the technologies for Targeted Protein Degradation, XNA-Hub for oligonucleotides design and the rational design of Antibodies.



TEAM



Victor Guallar
CSO & co-founder



Modesto Orozco
President & co-founder



Alexis Molina
Head of AI



Marti Municoy
Head of Technology

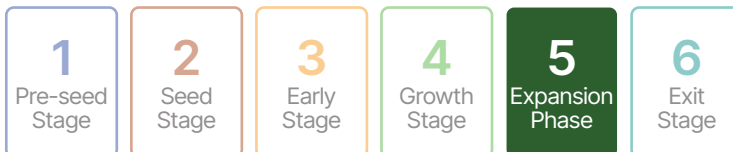
SOLUTIONS

- TPD workflow
- XNA-Hub
- ALScreen

EMPLOYEES



PHASE



Mitiga Solutions

Founded in 2018, Mitiga Solutions provides climate risk intelligence that combines science, AI and high-performance computing. We help our customers analyse, report and act on their business exposure to climate change through our self-serve platform Earthscan™ and our risk models. Our mission is to make the world a more resilient place under a changing climate.



TEAM



Alejandro
Martí
CEO



Mauricio
Hanzich
CTO



SCAN
QR
AND
LEARN
MORE

✉ info@mitigasolutions.com

SOLUTIONS

- EarthScan
- Climate Risk Models
- Hazard maps
- Climate Risk catalogs

EMPLOYEES



100

PHASE

1

Pre-seed
Stage

2

Seed
Stage

3

Early
Stage

4

Growth
Stage

5

Expansion
Phase

6

Exit
Stage

ELEM Biotech

ELEM is an international organization with headquarters in Barcelona. We create the fastest and most accurate Virtual Human and Virtual Trial technology for the biomedical industry. We value the role of companies and regulators in de-risking medical innovation and empower them to extend their capacity to test in human models and virtual populations, making Medical Testing work for EveryOne.

ELEM
THE VIRTUAL
HUMANS FACTORY



SCAN
QR
AND
LEARN
MORE

 contact@elem.bio

TEAM



Christopher
Morton
CEO



Mariano
Vázquez
CTO

SOLUTIONS

- Drug testing
- Device testing

EMPLOYEES

 30

PHASE



Nearby Computing

Nearby Computing focuses on systems and network orchestration and automation. The company has developed its industry-leading orchestration platform, NearbyOne, which encompasses infrastructure, networking, and application management through a single pane of glass. A key differentiator is the vendor-agnostic and hybrid approach, enabling users to interact with nearly any underlying technology, and thus allowing a policy-based orchestration that frees customers from vendor lock-in.



✉ nbc@nearbycomputing.com

TEAM



Josep Martí
CEO



David Carrera
CTO



Angelos Antonopoulos
R&I Director



Marta Serrano
Marketing Director

SOLUTIONS

- Edge-Cloud orchestration
- 5G MPN OSS
- Retail in-store systems manager

EMPLOYEES



35

PHASE



Qbeast

Qbeast accelerates analytics and AI in Lakehouses through intelligent data layout optimization.



SCAN
QR
AND
LEARN
MORE

 info@qbeast.io

TEAM



Srikanth
Satya
CEO



Cesare
Cugnasco
Chief of
Science



Flavio
Junqueira
CTO



Nicolás
Escartin
Chief of
Operations

SOLUTIONS

Accelerate data query processing to achieve faster insights and better performance. From ingestion to production, optimize your lakehouse's data lifecycle, ensuring data is not just stored but ready for action.

EMPLOYEES

 12

PHASE



Qilimanjaro

Qilimanjaro is a full-stack quantum computing company based in Barcelona and founded in 2019 to maximize current technology capabilities to provide a practical quantum advantage in a shorter time frame by following a unique strategy. We leverage analog quantum computing with superconducting flux qubits to build app-specific quantum devices. Our Quantum-as-a-Service enables remote access to unique platforms, while our boutique service integrates on-premise quantum systems for HPC centers.



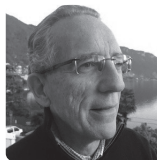
SCAN
QR
AND
LEARN
MORE

✉ info@qilimanjaro.tech

TEAM



Marta Estarellas
CEO



Victor Canivell
VP of Strategy
& Co-Founder



Tim Duty
Director of
Hardware

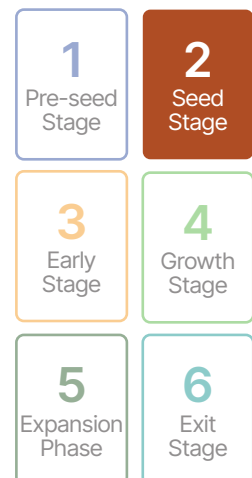


Juanjo Canuto
Head of
Operations

SOLUTIONS

- **Quantum Computer Deployment:** We help clients set up in-premise quantum computers, guiding them through installation, operations, maintenance, location selection, configuration, integration, and training.
- **Quantum as a Service (QaaS):** Access cutting-edge quantum solutions with tailored architectures, including analog quantum computers, through our cloud platform. Program algorithms or use our portfolio, focusing on innovation rather than setup.
- **Quantum Application-Specific Integrated Circuits (QASICs):** We co-develop custom quantum solutions tailored to your needs, maximizing current quantum capabilities to deliver practical, immediate solutions.

PHASE



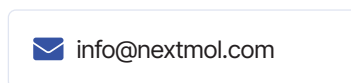
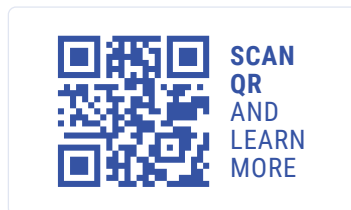
EMPLOYEES



62

Nextmol

Nextmol is a deeptech startup specialized in computational chemistry. We develop a B2B SaaS platform to accelerate the R&D of sustainable Specialty Chemicals via in silico experiments using molecular modeling and AI. Our computational laboratory allows to characterize molecules directly on the computer, without synthesizing them, reducing up to x5 the time and x9 the cost of chemical R&D.



TEAM



Dr. Mónica de Mier
CEO and co-founder



Dr. Stephan Mohr
Scientific Director and co-founder

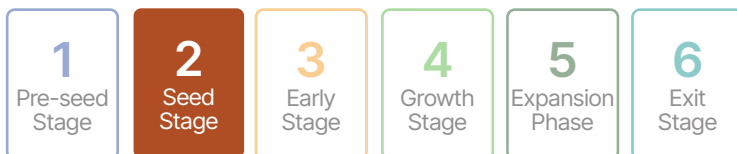
SOLUTIONS

- NEXTMOL Lab: Computational laboratory SaaS platform to characterize new chemical molecules and formulations
- Contract research: Services on execution of R&D projects with computational chemistry

EMPLOYEES



PHASE



Frontwave Imaging

FrontWave Imaging is a spin-off from the BSC and Imperial College London, founded in 2020 with the mission to transform diagnostic imaging. We offer a solution that combines the benefits of ultrasound technology with cloud-based processing. Our first focus is Breast imaging, to improve breast cancer diagnosis, specially for young women and dense breast.



SCAN
QR
AND
LEARN
MORE

✉ hello@frontwave.io

TEAM



Cristina
Durán
CEO



Josep de
la Puente
CTO



Juan E.
Rodriguez
**Solutions
Architech**



Natalia
Gutierrez
**Lead
Software
Engineer**

SOLUTIONS

- UBIware: integral solution for breast cancer diagnosis

EMPLOYEES



PHASE



Energy Aware Runtime

GET MORE PERFORMANCE PER WATT.

We believe in sustainable data centers, and efficient HPC/AI computing.

Energy Aware Runtime is the new system software standard for CPU and GPU.

EAR is an energy and power management software. EAR does monitoring, analysis, reporting, powercap and optimization. Automatically save 20% of energy!

It is hardware independent, configurable, live at runtime and non-intrusive. Deep tech but user-friendly.

Some of our clients: Leibniz Supercomputing Centre, EDF, SURF...



SCAN
QR
AND
LEARN
MORE

 raphael.brochard@
eas4dc.com

TEAM



Luigi
Brochard
CEO



Rapahël
Brochard
General
Manager



Julia
Corbalán
CTO

SOLUTIONS

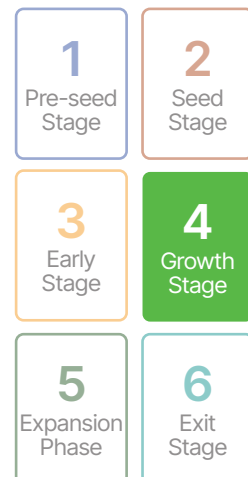
- Data center's energy awareness
- Energy efficiency

EMPLOYEES



11

PHASE



Openchip

Openchip specializes in Systems on Chip based on RISC-V, focusing on HPC and AI. HQ in Barcelona, Openchip aims to lead the design of chips that contribute to European digital sovereignty. Openchip's solutions accelerate research in genomics, meteorology, protein design, energy, aerospace, and advanced simulation, driving significant social and transformative impacts. Openchip has received funding from the European Union's Next Generation EU program under Grant UNICO-IPCEI-2023-001.



SCAN
QR
AND
LEARN
MORE

 info@openchip.com

TEAM



Cesc
Guim
CEO



Ignacio
Astilleros
CSO



Marc
Fernández
CFO & Corporate
General Manager

SOLUTIONS

- Silicon design

EMPLOYEES

 80

PHASE



Talptech

TALPTECH's mission is to democratize precision agriculture through TALPO, an innovative "digital agronomist." TALPO is a versatile kit installable on any tractor, featuring "two eyes" (stereoscopic cameras) and a "brain" (AI-powered processor) for real-time decision-making, such as adjusting pesticide spraying or forecasting yields. Designed to communicate like an expert agronomist, TALPO eliminates the need for prior technological expertise, making advanced farming accessible to all.



TEAM



Eduard Quiñones
CEO



Daniel Garcia

SOLUTIONS

- Real-time sprayer adjustment (up to 40% pesticide savings)
- Fruit counting and yield forecast
- Automated vigor, fruit, and many other key maps

EMPLOYEES



PHASE



Galtea

Galtea emerges as an indispensable partner for businesses navigating the complexities of GenAI, providing the expertise and tools necessary to ensure that GenAI technologies are both compliant with quality standards and current regulations. Originating from a unique position of GenAI expertise within the Barcelona Supercomputing Center (BSC), Galtea's mission is to make AI evaluation and governance straightforward and stress-free, allowing organizations to focus on driving innovation and growth.



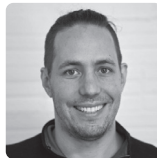
SCAN
QR
AND
LEARN
MORE

✉ admin@galtea.ai

TEAM



Jorge
Palomar
CEO



Baybars
Kulebi
CTO

SOLUTIONS

- Galtea4HPC
- Galtea TemplifAI

EMPLOYEES



5

PHASE





BSC is a public consortium made up of:



📍 Plaça Eusebi Güell, 1-3
08034 Barcelona (Spain)

✉️ techtransferoffice@bsc.es

🌐 www.bsc.es

✂️ @BSC_CNS

📷 /bsc_cns

🌐 bsc.es/linkedin

🦋 @bsc-cns.bsky.social

📧 /@bsc_cns

📺 /BSCCNS

📘 /BSCCNS

SCAN FOR
UPDATED VERSIONS



red.es





**Barcelona
Supercomputing
Center**

Centro Nacional de Supercomputación

**INTERESTED IN KNOWING MORE
ABOUT OUR SPIN-OFFS?**

Find us here:

 spinoffs@bsc.es

