

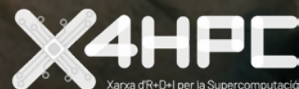
X4HPC CATALOGUE

2023 → 2025

FROM A NEW NETWORK TO A
SHARED HPC TRANSFER COMMUNITY



**Barcelona
Supercomputing
Center**
Centro Nacional de Supercomputación



Xarxa d'R+D+I per la Supercomputació



BUILDING A HIGH PERFORMANCE COMPUTING TRANSFER NETWORK IN CATALONIA

We would like to thank all the members of the network, the technology transfer offices, the researchers, external experts, corporate partners, and institutional supporters who have contributed their time, knowledge, and dedication to this initiative. Your involvement has shaped X4HPC into a working community with shared standards and shared ambition. Thank you for your dedication, your expertise and your trust. X4HPC is what it is because of this community.

Sincerely,

THE X4HPC COORDINATION TEAM
BARCELONA SUPERCOMPUTING CENTER

06

AN HPC TRANSFER NETWORK

A shared effort

The Role of X4HPC

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FROM IDEA TO NETWORK

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X4HPC 2026-2028

What's next?

Internationalisation activities

A shared effort to build a **transfer** network



Over the past three years, X4HPC has grown from an initial initiative into a collaborative network that connects research, technology transfer, and expertise in High Performance Computing across Catalonia.

This progress has been possible thanks to the commitment of many institutions, research groups, and professionals who chose to work together, align practices, and build trust. From the start, the Barcelona Supercomputing Center has coordinated this effort with a clear goal: to make the transfer of HPC technologies more structured, more accessible, and more effective.

This catalogue reflects what we have built together between 2023 and 2025. It also marks a starting point for the next phase, with a stronger European focus and a continued commitment to open collaboration and public value.

The Role of X4HPC

RESEARCH, INNOVATION
AND TECHNOLOGY
TRANSFER IN HPC

The X4HPC R+D+I Network is a network coordinated by the Barcelona Supercomputing Center (BSC-CNS).

Formed by the most representative scientific institutions and research centers in Catalonia in the field of High-Performance Computing (HPC) and its applications across multiple scientific domains. Its purpose is to collaborate and improve the tech transfer capability of supercomputing, which results in an interdisciplinary network.



BARCELONA SUPERCOMPUTING
CENTER BUILDING

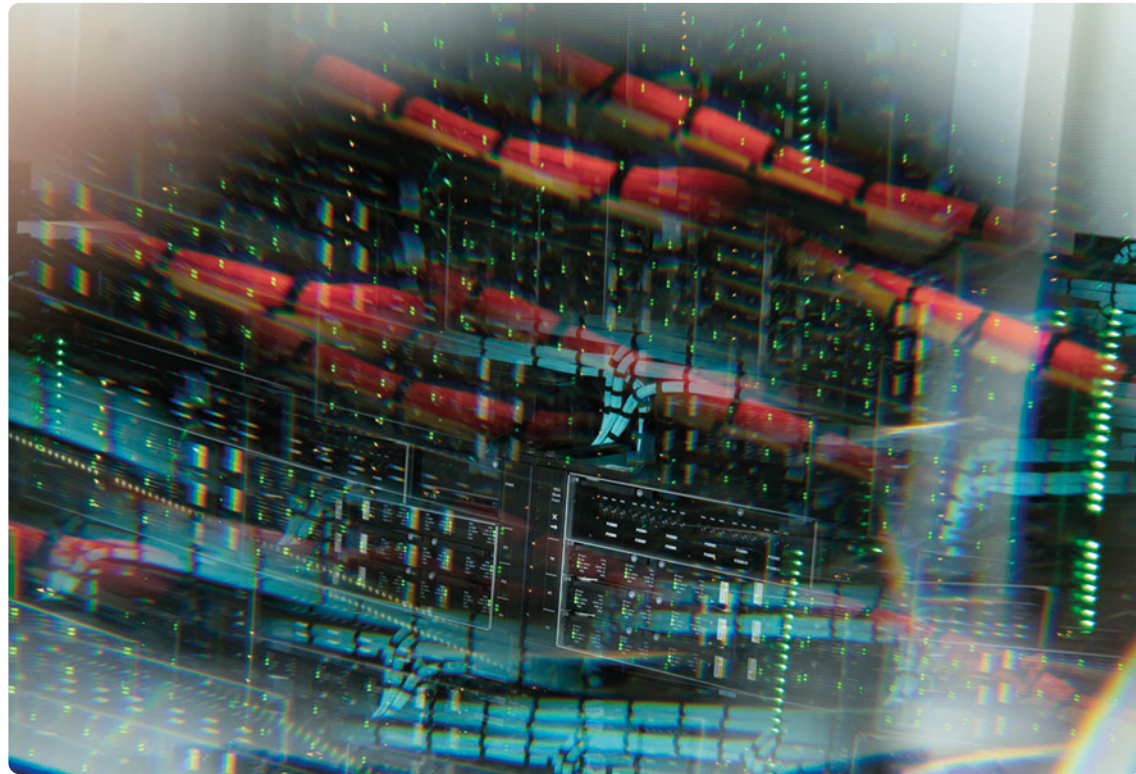
COORDINATOR



SUPPORTED BY



The X4HPC Objectives



Picture. MareNostrum5 Supercomputer (Image provided by BSC).

● TECHNOLOGY TRANSFER

To transfer technology and knowledge in the field of High Performance Computing to Industry and society (technology push).

● STANDARDIZATION

Generation of standardized IP materials and protection strategies with transversal and disruptive focus for HPC technologies (combination of traditional approaches and open source IP).

● TRAINING

Provide researchers with complementary skills in the areas of protection, valorization, tech transfer and entrepreneurship (innovation, bootcamps) and consolidate acceleration programs focused on HPC tools.

● HPC CATALAN ECOSYSTEM BOOST

Manage and bring together Catalonia's supercomputing ecosystem. Promote HPC projects through forums and events.

MISSION

To provide the Catalan HPC ecosystem with mechanisms to accelerate the technology transfer of scientific projects using High Performance Computing (HPC) tools by supporting technologies with clear potential for social and economic impact, encouraging entrepreneurship and the creation of spinoffs and strengthening collaboration between research and industry.

VISION

To become a reference Hub for research and innovation in the field of High Performance Computing (HPC) technologies in Catalonia and boost and consolidate the HPC growing ecosystem.

GOALS

Technology transfer in HPC, Training in tech transfer and HPC entrepreneurship, IP and open source standardization, Visibility of HPC projects and HPC ecosystem growth.

From Idea to Network

BUILDING THE NETWORK
(2023 - 2025)

HOW WE STARTED

2023

2 Singular Scientific and Technical Infrastructures:

- ✓ Mare Nostrum 5 (BSC)
- ✓ Sala Blanca de Micro-Nanofabricación Integrada (SBCNM)

X4HPC was launched in 2023 as a focused initiative bringing together a limited number of research institutions, infrastructures, and technology transfer bodies.

Over the next three years, **the network expanded in a structured and coordinated way**, incorporating new institutions, research groups, and partners actors across the value chain.

By 2025, X4HPC had become a broader and more connected community, with stronger access to scientific infrastructures, greater researcher participation, and a clearer capacity to support technology transfer at scale.

HOW WE CLOSED THE 3 YEAR JOURNEY

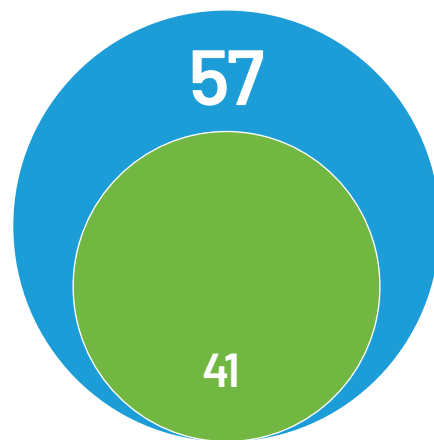
2025

3 Unique Scientific and Technical Infrastructures (ICTS):

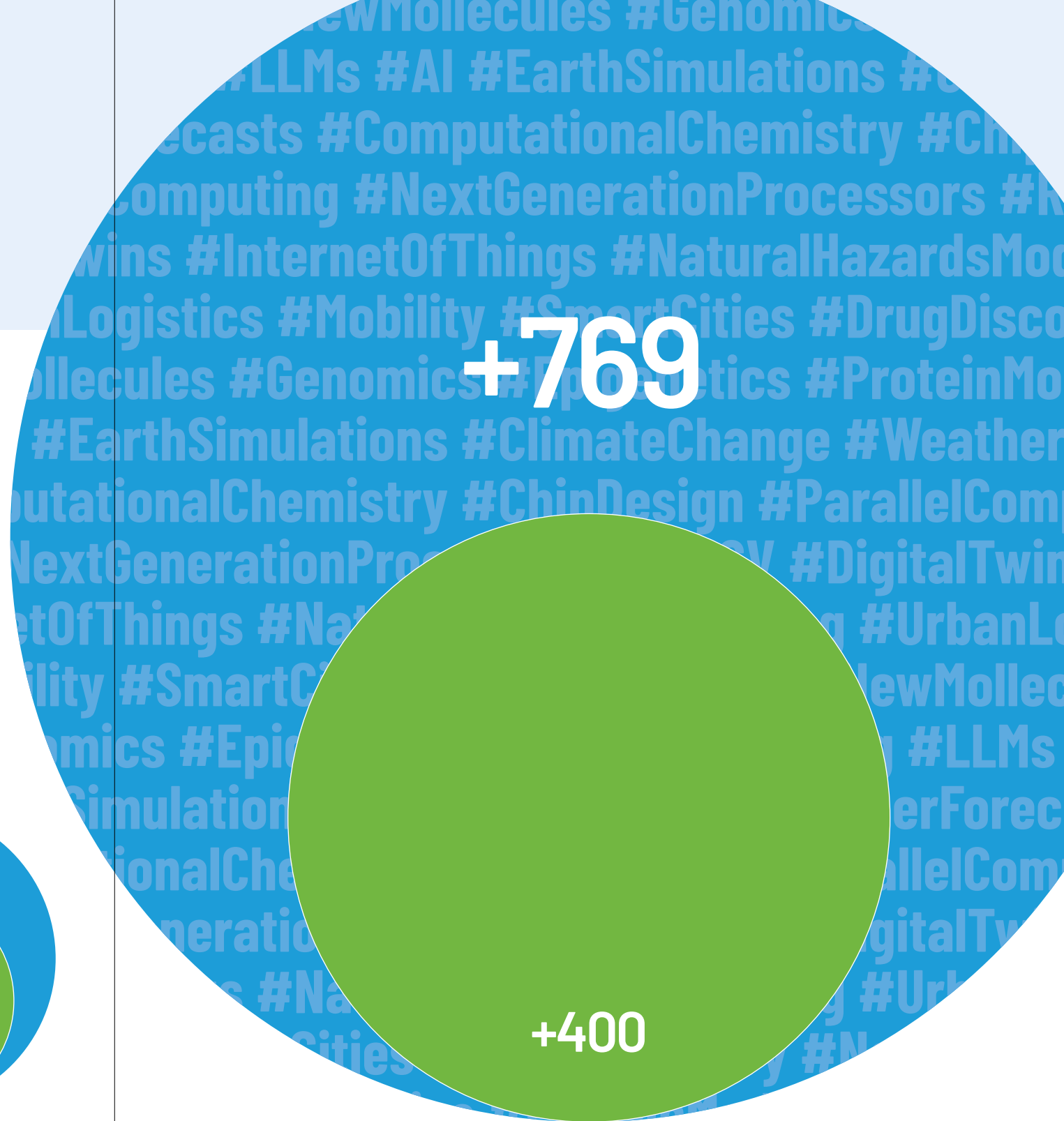
- ✓ Quantum Computer (BSC)
- ✓ Mare Nostrum 5 (BSC)
- ✓ Sala Blanca de Micro-Nanofabricación Integrada (SBCNM)



RESEARCH INSTITUTIONS



RESEARCH GROUPS



RESEARCHERS

THE HPC CATALAN ECOSYSTEM

What began with the BSC-CNS as coordinator and a small but influential group of research institutions has expanded beyond our network. The HPC ecosystem has progressed from research to assisting many partners and organizations in implementing new technologies into their product lines. The network has encouraged the formation of numerous spin-offs, the goal of which is to establish Catalonia as a reference for HPC technology.





X4HPC IN NUMBERS

X4HPC has expanded beyond a fundamental set of links in just three years (2023-2025). Ensuring that High Performance Computing research is appropriately disseminated to society has become a **collaborative** effort. This has required being present in transfer events, such as fairs and meetings, catalogues, and face-to-face interactions with business, investors, and public figures. It has involved identifying technologies, protecting them,

training researchers, and supporting initiatives as they transition from study to implementation. The network has discovered via numerous coordinated acts that **transfer is not a single step but a continuous process of focus, support, and validation.** With the right team and structure now in place, X4HPC enters its next phase with a clear ambition, to turn coordinated work into sustained impact.

The Network

41

RESEARCH GROUPS
(11% WOMEN-LED GROUPS)

+400

RESEARCHERS
(64% PHD MEMBERS)

60

AFFILIATED ENTITIES

Spinoffs

4

NEW SPIN OFFS CONSTITUTED

521

NEW JOBS

43 M€

FUNDING RAISED
FOR HPC-BASED SPINOFFS
(BSC AND OTHERS)

Fairs

29

FAIRS AND
CONGRESSES
ATTENDED

9

EDITED
CATALOGUES

263

MEETINGS
WITH COMPANIES

Technology Transfer

170

IDENTIFIED
TECHNOLOGIES

143

COMPANY
CONTRACTS

Trainings

23

PROJECTS ACCELERATED
(INNOVATION JOURNEY 2023 & 2025)

77

TRAINED RESEARCHERS

Expert Assessment

53

EXTERNAL EXPERT
ASSESSMENT SERVICES

2

STANDARDIZATION GUIDES (OPEN
SOURCE SW AND OPEN HW PROTECTION)

How the Network Works

GOVERNANCE AND COMMITTEES

Our network is organised through a clear coordination structure that ensures the network functions in a consistent and effective way. A central management team oversees daily operations and gather the different governance bodies, which together guide strategic decisions, align transfer activities, and connect the network with the wider innovation ecosystem. These coordination teams are the General Assembly, the Valorisation Committee, and the Advisory Committee, each with a specific role in supporting the development and impact of the network.

THE INNOVATION TEAM

The network is coordinated by a dedicated tech transfer team at the Barcelona Supercomputing Center, responsible for ensuring operational continuity and alignment with strategic objectives, acting as a central point of connection for the entire network.

GENERAL ASSEMBLY

This committee oversees the overall functioning of the network. It coordinates activities, aligns roles and responsibilities across members, and ensures that actions respond to the needs of technology transfer and valorisation. It is also responsible for approving the network strategy, annual work plan, valorisation program, and budget, and for addressing any conflicts of interest that may arise.

COMPOSITION

Open to all members of the network, including researchers, directors and heads of Technology Transfer Offices.

VALORISATION COMMITTEE

This committee focuses on identifying research results with transfer potential and on understanding the valorisation needs of participating groups. It supports the definition of common valorisation strategies across the main scientific domains of the network and helps align technologies with opportunities enabled by supercomputing.

COMPOSITION

Heads of the Technology Transfer Offices of the participating institutions.

EXPERT COMMITTEE

The Expert Committee provides external guidance to the network. Its role is to offer strategic input, support the evaluation of competitive calls, and help strengthen the impact and international projection of X4HPC. The committee also contributes to the definition of good practices related to intellectual property and licensing in the HPC field.

COMPOSITION

External experts in innovation, technology transfer, and IP.



MARIONA SANZ AUSÀS

Head of Innovation and Business Development Unit at BSC



ANNA ESCODA

X4HPC Director
Technology Transfer Office at BSC



MARIA SAYAVERA

X4HPC Dissemination Officer
Innovation & Dissemination at BSC



NABAHETTE KEDDÎ

X4HPC Administrative manager
Management – Finance projects at BSC



JÚLIA MASVIDAL

BSC Innovation Manager
Technology Transfer Office at BSC



ARES PELEGRI

X4HPC Project Manager
Project Management Office at BSC

How X4HPC organises around technologies

HPC is not a sector. It is the infrastructure and the technology that enables, connects and accelerates many sectors at once. This combination of foundational technologies and domain-driven applications reflects the transversal nature of the network and its capacity to generate impact across diverse areas of innovation. The research done in this network goes from enabling the HPC infrastructure to its application in different sectors.

INFRASTRUCTURE RESEARCH

HIGH PERFORMANCE COMPUTING

COMPUTING SYSTEMS AND ARCHITECTURES

These groups develop the hardware and software foundations that make advanced computation possible.

- ✓ Computing architectures
- ✓ Programming models
- ✓ Operating systems
- ✓ Performance and efficiency

AI AND DATA-INTENSIVE MODELS

AI and data-driven models are used across almost all research lines in the network, enabled by HPC scale and performance

- ✓ Machine learning
- ✓ Large-scale simulation
- ✓ Multimodal data analysis

APPLICATION RESEARCH DOMAINS

LIFE SCIENCES AND HEALTH

HPC enables complex biological models and accelerates medical research & clinical applications.

- ✓ Molecular modelling and genomics
- ✓ Drug discovery
- ✓ Medical imaging and personalised medicine

EARTH SCIENCES AND SUSTAINABILITY

Large-scale simulations support climate research, sustainability, and environmental decision-making.

- ✓ Climate and weather models
- ✓ Air quality and environmental systems
- ✓ Energy efficiency

ENGINEERING AND PHYSICS

HPC supports simulation and modelling across industry, mobility, manufacturing, and energy.

- ✓ Numerical simulation
- ✓ Fluid dynamics
- ✓ Materials and structures

EMERGING AND DEEP TECH

HPC supports research in strategic and disruptive technologies with long-term impact.

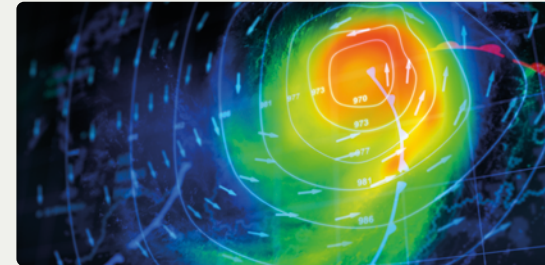
- ✓ Quantum computing
- ✓ Fusion and advanced physics
- ✓ Space-related applications

Our Technologies Portfolio

See more of
our Portfolio



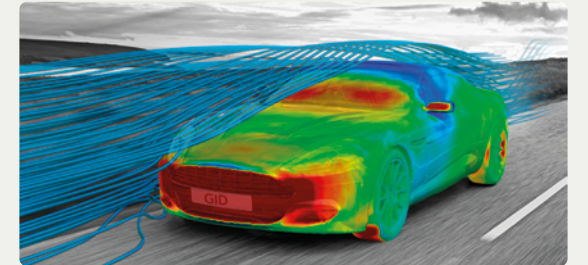
CLIMATE SERVICES



We co-produce climate information and services based on predictions for time scales ranging from weeks to decades and beyond.



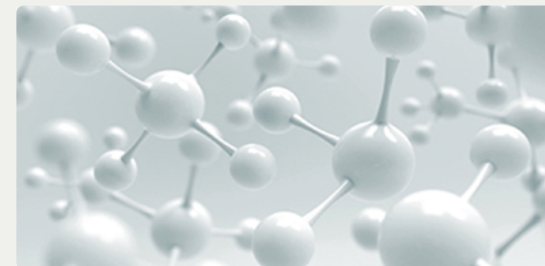
GiD SIMULATION CLOUD PLATFORM



GiD Simulation Cloud Platform is a cloud-based platform for simulation tools that covers all stages of the simulation process and integrates scientific and engineering solvers in a user-friendly interface with 3D visualization.



PELEPLAT SOFTWARE



A platform that enables multiple implementations of the PELE software for intermolecular modeling problems, based on a Monte Carlo algorithm with protein structure prediction techniques.



CLOUD4AUTH



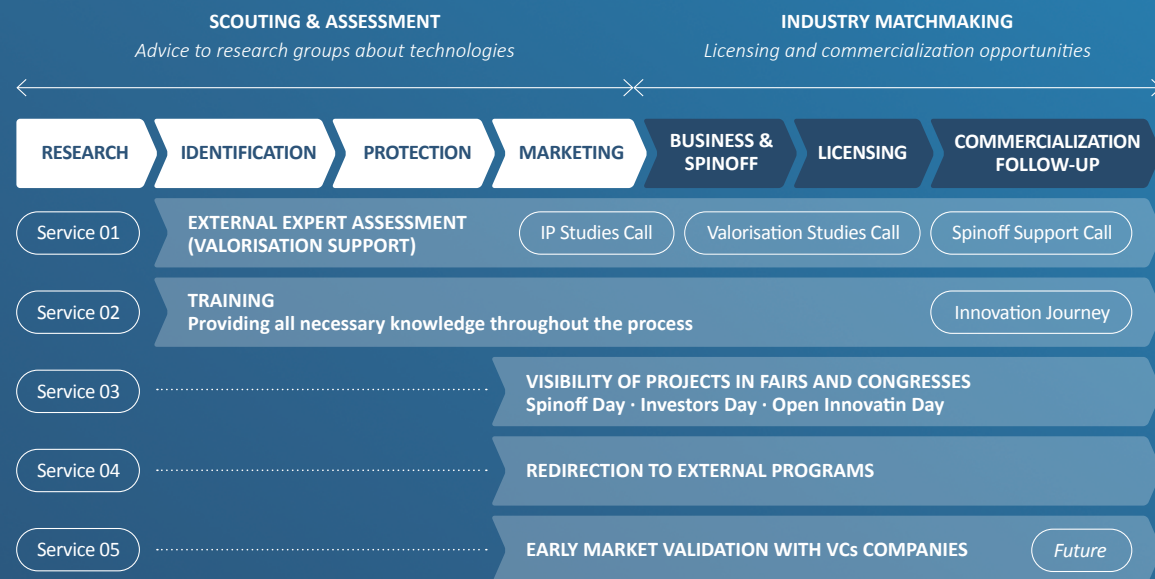
Development of a cybersecurity technology consisting of a continuous second-factor authentication system based on the user's mouse movement pattern



From research to transfer: Services and Activities

At X4HPC, our work begins with the identification of technologies with transfer potential across the network. Through close collaboration with research groups and technology transfer offices, we detect promising results at different stages of maturity and assess their readiness for valorisation. This first step allows us to prioritize efforts and define the most appropriate support pathway for each case.

Once technologies are identified, they progress through a shared valorisation path that helps research teams move from early results to protected, visible, and transferable solutions. These solutions are structured as services, and research groups can access them according to their specific needs and stage of development, ensuring a flexible yet coordinated approach to technology transfer.



Valorisation and IP support

As part of the valorisation pathway, X4HPC connects research teams with external experts who provide independent analysis on intellectual property, market potential, business strategy, and open source or hardware approaches. This service helps projects refine their positioning in the market, identify risks and opportunities, and make informed decisions before moving forward in the tech transfer process.

INTELLECTUAL PROPERTY STUDIES

EARLY IP PROTECTION

What these studies deliver:

- ✓ Patentability analysis
- ✓ Freedom-to-operate (FTO)
- ✓ Open source software strategies
- ✓ Open hardware protection models

These analyses are essential to avoid late-stage risks and to ensure that technologies are ready to be shared, licensed, or scaled. Early IP decisions reduce risk and keep future transfer options open.

- ✓ 4 calls launched
- ✓ 14 studies financed

VALORISATION STUDIES

UNDERSTANDING WHERE THE VALUE IS

What these studies explore:

- ✓ Market size and trends
- ✓ Product-market fit
- ✓ Application sectors
- ✓ Business models
- ✓ Regulatory and adoption risks

Did you know?

The global Generative AI market is expected to reach almost USD 95 billion by 2029, with strong growth in software and services, but rising risks related to regulation, accuracy, and IP.

Source: AI Trends Study, Inveniam, 2024

- ✓ 3 calls launched
- ✓ 13 market studies
- ✓ 3 business plans
- ✓ 23 mentoring sessions

SPINOFF SUPPORT CALLS

DECIDING WHEN TO CREATE A COMPANY

What these studies explore:

- ✓ Market validation
- ✓ Business plan definition
- ✓ Funding and growth strategy
- ✓ Legal setup for spinoffs

Did you know?

In sectors such as semiconductors, Europe's main opportunity lies in design, simulation, and R&D, rather than manufacturing, positioning HPC as a key strategic asset.

Source: he Future of Semiconductors in Automotive, Metyis, 2024

Training for Researchers

X4HPC training activities are designed to give researchers the practical knowledge they need to move from research results to transfer and impact. The focus is not on theory, but on real cases, tools, and decisions researchers face during the valorisation process.

NOVEMBER 2023

OPEN SOURCE SOFTWARE AND HARDWARE PROTECTION

A practical guide on open source software and hardware licensing to help researchers choose how to protect and share their results. The guide offers clear guidance on licensing options, intellectual property considerations, and open strategies, giving research teams the tools to make informed decisions that support both collaboration and future transfer opportunities.

MARCH 2024

TECH TRANSFER TRAINING WITH XARXA RDI-IA



A focused technology transfer training course designed to give researchers practical skills for bringing their results closer to market. Delivered through three online sessions, the course covered key topics such as intellectual property valuation, business planning, and funding strategies, with contributions from experienced external experts. With strong participation from the network, the training helped research teams gain a clearer view of how to assess, structure, and finance their technologies as part of the transfer process.

MARCH 17-23, 2025

INTRODUCTION TO GPU PROGRAMMING

An online training course combining theory and hands-on practice to introduce GPU architectures and parallel programming with CUDA. Participants learned how to access and use GPUs in supercomputing environments and apply GPU computing to real use cases in areas such as AI, simulation, and large-scale data processing.

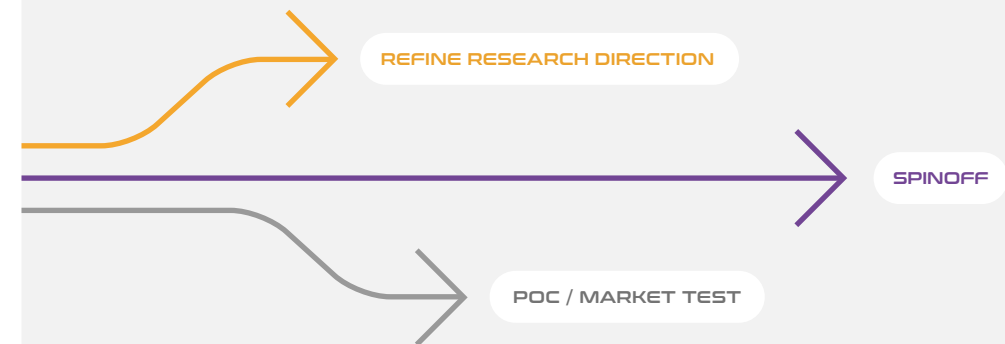
And more:



INNOVATION JOURNEY PROGRAM: AN ENTREPRENEURIAL MINDSET

The Innovation Journey is a structured program created to help research teams explore how their technologies can move beyond the lab. It combines training sessions, expert input, and practical work focused on real transfer questions, such as positioning a technology, understanding potential users, defining protection options, and creating a business plan. The program is designed to be flexible, allowing teams at different levels of maturity to participate and focus on the challenges most relevant to their projects.

Across the 2023 and 2025 editions, the program brought together research teams from diverse fields and institutions, creating a shared space for learning and exchange. Participants worked closely with experts and mentors, gained exposure to different transfer paths, and developed a clearer view of next steps, whether that meant further validation, collaboration with external partners, licensing, or the creation of a spinoff. **The program has become a key tool for building transfer capacity within the X4HPC network.**



**INNOVATION JOURNEY PROGRAM:
AN ENTREPRENEURIAL MINDSET**

2023



7 Training Sessions
10 Accelerated Projects
22 Trained Researchers

5 Side Events
3 Final Winners

2025

7 Training Sessions
13 Accelerated Projects
19 Trained Researchers

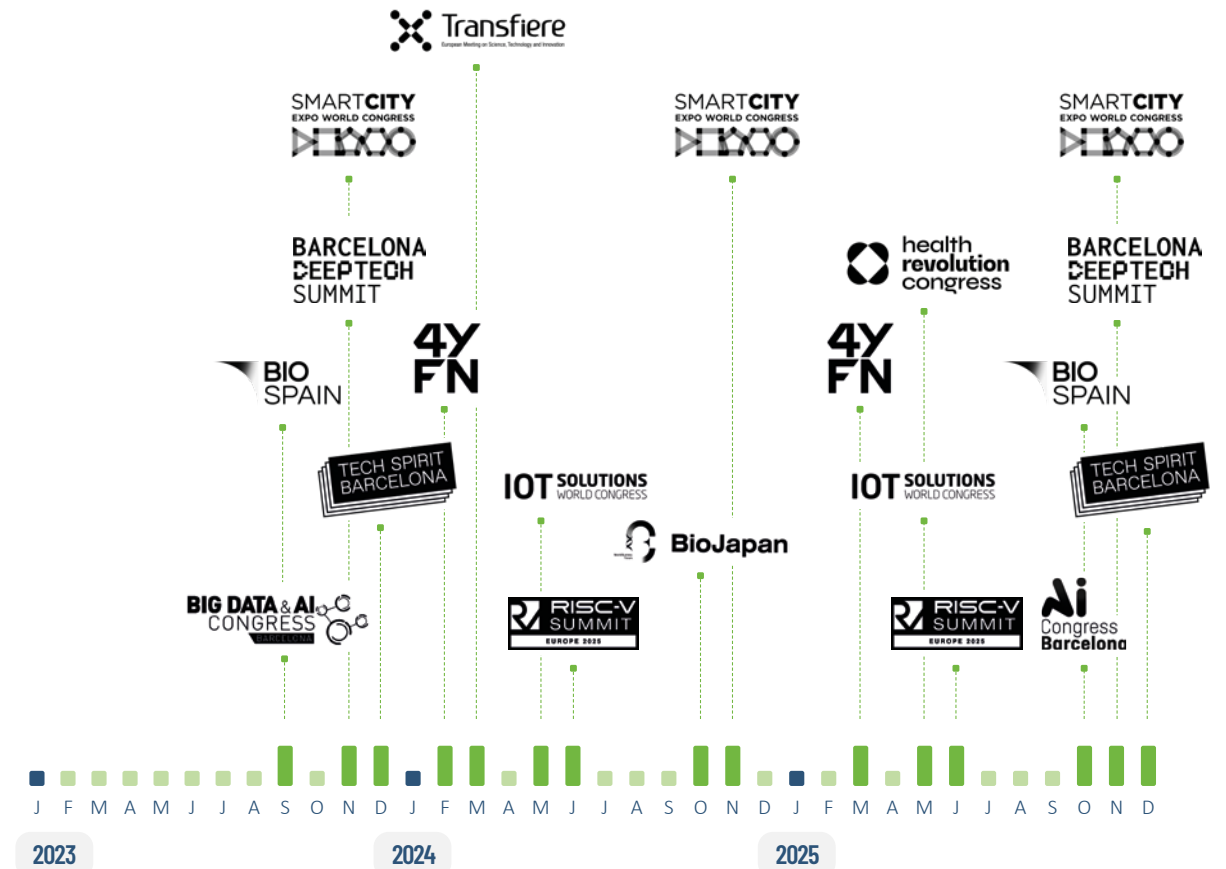
4 Side Events
3 Final Winners



Visibility of projects in Fairs and Congresses

One of the main methods by which X4HPC facilitates technology transfer is through accessibility. Being present at fairs and congresses allows the network to showcase technologies, connect research teams with companies and investors, and position HPC-based solutions in real market and policy contexts. Through coordinated participation, shared stands, catalogues, and pitching sessions, X4HPC creates opportunities for dialogue and collaboration beyond the research environment.

Research teams can test their content, get external input, and gain a better understanding of the requirements and expectations of diverse relevant audiences by taking part in these events. Over the past three years, X4HPC has taken part in selected national and international events, using them as platforms to increase the visibility of both the network and its technologies.



In addition to participating in major external events, X4HPC organises three annual flagship gatherings: **Open Innovation Day, Spin-off Day, and Investors Day**. These recurring events provide structured spaces where selected technologies and emerging ventures are presented to targeted audiences, **strengthening collaboration and reinforcing the transfer pipeline** within the HPC ecosystem year after year.

OPEN INNOVATION DAY



The Open Innovation Day is held to connect corporate innovation leaders with supercomputing experts as the main technology providers. Each edition focuses on identifying concrete industry challenges and exploring how HPC-based solutions can address them. By gathering corporate needs in advance and matching them with relevant technologies, the event functions as a structured matchmaking platform that accelerates collaboration and transfer opportunities across the network.

SPIN ON TAP



The Spin-off on Tap is a gathering that brings together researchers, entrepreneurs, and corporates to find collaborations between X4HPC spinoffs and innovation departments in relevant industries. It is a great opportunity for new Spin Offs to do in-promptu pitching and receiving feedback from the relevant stakeholders. The event strengthens entrepreneurial culture and opens new paths for collaboration.

INVESTORS DAY



The Investors Day is organised annually as part of the Innovation Journey to bring the investment community closer to the deep technologies generated by the X4HPC research groups. Each edition features experienced investors who share insights on funding strategies and evaluation criteria, creating a direct and honest dialogue and helping projects prepare for future financing and growth strategies.

Access to external programs and funding

At X4HPC, we actively help research teams go beyond the network. We support them in identifying the right acceleration programs, connecting with potential clients and partners, and applying to competitive funding calls at regional, national, and European levels. From selecting the most suitable opportunity to reviewing proposals and aligning your project with call requirements, we work with you to increase visibility, strengthen positioning, and improve success rates.

Through strategic redirection to acceleration programs and funding calls, we help you move from research results to validated technologies, funded projects, and real market opportunities.

ACCELERATION & VENTURE PROGRAMS

Barcelona Activa – Pre-Acceleration

2 redirected projects

Early-stage technology validation and business model definition

Norrskan Impact Hub

10 redirected projects

Impact-driven ventures, ecosystem exposure, coworking and mentoring

The Collider – Deep Tech Venture Builder

4 redirected projects

Deep tech commercialization and venture creation

CRAASH Barcelona (Biocat)

1 redirected project

Health tech validation and U.S. market access

EADA – Business Plan Support

1 redirected project

Business plan development and financial structuring

FUNDING CALLS

European Innovation Council (EIC)

5 proposals submitted (Pathfinder & Transition)
1 awarded

Breakthrough technologies, validation, and spin-out support with up to 2.5M€ in funding

Proof of Concept (Spain)

2 submitted projects

Technology validation before market entry, over €30M total funding

Catalan Knowledge Industry (AGAUR)

16 proposals submitted
6 awarded

Product and innovation development Funds (Llabor, Producte, Innovadors) From 20k to 150k €

Projectes PERIS - Pla estratègic de recerca i innovació en salut (PERIS)

2 proposals submitted — 1 awarded

Caixa Impulse Call in Health Innovation (Caixa Research)

6 proposals submitted

Results and impact

NEW SPIN OFFS CREATION AS A KEY INDICATOR OF TECH TRANSFER SUCCESS

One of the **clearest indicators of impact** is the creation of new companies built on technologies developed within the network. Over the past three years, X4HPC institutions have supported the launch and growth of multiple spinoffs across fields such as AI, life sciences, digital health, computing architectures, and advanced engineering.

These ventures translate HPC-based research into products and services with real market applications. They represent different stages of maturity, from early-stage startups to companies already operating internationally, and reflect the diversity of the network's technological capabilities. Each company strengthens the ecosystem, generates employment, attracts investment, and reinforces Catalonia's position in high-performance computing and deep tech innovation.



SPIN OFFS ORGANIZED BY SECTOR

DIGITAL HEALTH & CLINICAL AI

- ✓ OnecareAI
- ✓ Trackyourmed
- ✓ Ysotope
- ✓ Oniria

ENGINEERING, SIMULATION & INDUSTRIAL MODELLING

- ✓ Simtwins
- ✓ Maspatech
- ✓ Talpech
- ✓ Oktics

CYBERSECURITY & DIGITAL TRUST

- ✓ Safety and Security (SASE)
- ✓ UMoDL

GENOMICS & PRECISION MEDICINE

- ✓ Microomics
- ✓ ELEM

DRUG DISCOVERY & COMPUTATIONAL CHEMISTRY

- ✓ Nostrum Biodiscovery
- ✓ Nextmol
- ✓ Softomics

BIOMEDICAL TECHNOLOGIES & THERAPEUTICS

- ✓ Minoryx
- ✓ Gain
- ✓ Frontwave Imaging (Ubiware)

CLIMATE, RISK & SUSTAINABILITY

- ✓ Mitiga
- ✓ Galtea
- ✓ Energy Aware Solution
- ✓ SmalleTech

COMPUTING INFRASTRUCTURE & HPC TECHNOLOGIES

- ✓ Nearby Computing
- ✓ QBeast
- ✓ Qilimanjaro
- ✓ Flexiic
- ✓ Pervasive
- ✓ Dapcom

OPEN TECHNOLOGIES AND LICENSING STRATEGIES

221

Open-Source
Software licenses

28

Open-Source
Hardware licenses

48

Open-Source Databases

5

Open-Source Inventions

34

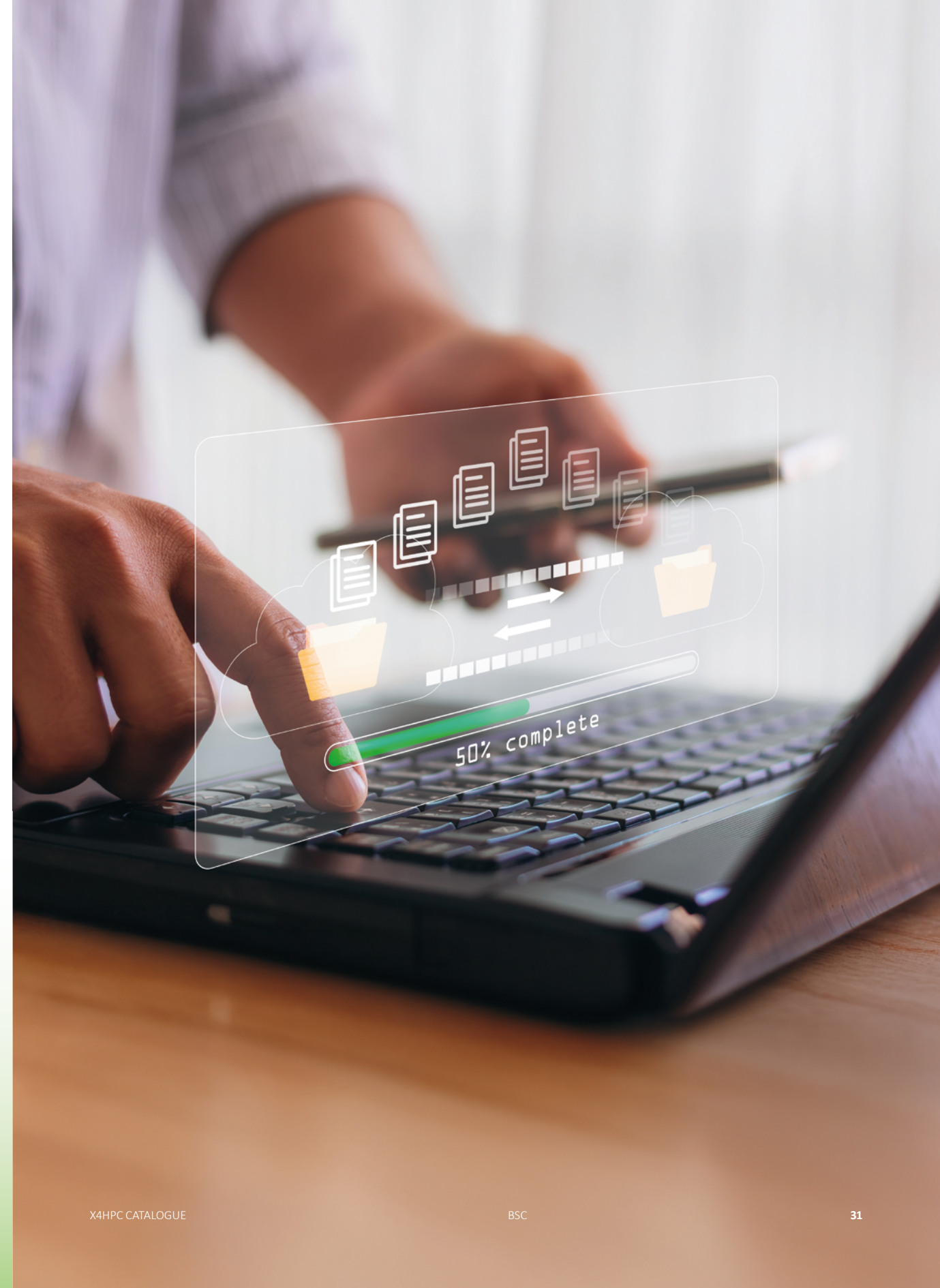
Open-Source AI Models

Since its creation, the X4HPC network has created a broad portfolio of open and proprietary technologies, reinforcing the network's commitment to structured and strategic knowledge transfer.

A central element of this approach is the development of open-source technologies. By promoting open software, hardware, databases, and models, the network encourages collaboration beyond individual research groups and institutions and the open source community. Open-source, as a competitiveness increase strategy, allow researchers, developers, and companies to access the tools, contribute improvements and build new applications on top of them, accelerating the advances in each of the relevant technological fields.

This approach helps create a shared innovation environment around HPC technologies, where knowledge and technical contributions can circulate more easily. **The network strengthens the scientific community and the innovation ecosystem by enabling validation, reuse, and collaborative development through the open availability of technology.**

On the other hand, proprietary licensing is being reinforced as a tech transfer strategy as well. EPICART, developed by BSC, IJC, and ICREA, was transferred to STE Pharmaceuticals, demonstrating the network's **capacity to combine open strategies with targeted commercial agreements** when appropriate.



What's next?

After building the foundations between 2023 and 2025, X4HPC enters a new stage focused on scale, international positioning, and long-term impact. The network is ready to move from consolidation to expansion.

01. A STRONGER EUROPEAN POSITION

X4HPC enters 2026–2028 with a strong European outlook, aligned with the shared objective of reinforcing technological sovereignty. By engaging in strategic initiatives such as EuroHPC, Chips JU and the OSAwards project, the network aims to position Catalonia as a leading hub for HPC innovation, talent attraction, and Open Source technology transfer. This international orientation responds to the need for Europe to lead in critical technological areas supported by supercomputing, ensuring competitiveness and autonomy at a global scale.

02. CROSS-NETWORK COLLABORATION

Strong collaboration with other R+D+I networks in Catalonia will be used to build new bridges, promoting intersectoral and transversal actions to strengthen the generated impact. Increasing its territorial reach and impact through coordinating efforts across complementary programs, X4HPC reinforces the innovation ecosystem.

03. STRONGER INNOVATION CAPACITY

X4HPC reinforces its transfer and innovation capabilities through synergies with strategic initiatives such as the BSC AI Factory and the expansion of MareNostrum 5. These developments expand access to high-performance computing resources for both the scientific community and private industry, enabling more ambitious projects and accelerating technology validation and deployment.

04. AN EXPANDED INNOVATION ECOSYSTEM

The network broadens its actor base across the full ecosystem value chain, integrating more research institutions, industry partners, clusters, and innovation agents. The collaboration with organizations such as **Mobile World Capital, Tech Barcelona, Masia, Mitiga, FOMENT, TIC Salut, Barcelona Activa, and HPCNow!** strengthens the transfer and innovation support structure, creating a more connected and responsive ecosystem.

05. A STRONGER IDENTITY AND GLOBAL VISIBILITY

The integration of the Barcelona Supercomputing Center's dissemination team enhances the network's communication and international positioning. With consolidated expertise in scientific communication and global outreach, this step supports the creation of a strong, recognizable identity for X4HPC and reinforces Catalonia's position as a European reference in High Performance Computing.

Internationalisation activities

As X4HPC continues to grow, one of its aims is to strengthen its European presence. As the network's organizing institution, the Barcelona Supercomputing Center connects it to initiatives managed by its Innovation team that promote collaboration, technology development, and new opportunities for startups and research projects around Europe. For X4HPC we benefit from 2 specific programs: BSC AI Factory and European Open Source Awards.

Through BSC, the network can connect with these initiatives, strengthening its visibility and reach at the European level.

BSC AI FACTORY

The BSC AI Factory supports European startups, SMEs, and public organizations developing Artificial Intelligence solutions by providing free access to advanced computing resources, including the AI partition of MareNostrum 5. The program offers technical guidance, training, and acceleration services that help teams develop and scale AI technologies. Through this initiative, European innovators can access supercomputing infrastructure and connect with a broader ecosystem of partners and experts.



EOS AWARDS

The European Open Source Awards promote the development and adoption of open-source technologies across Europe. Through awards, training activities, and community initiatives, the program recognizes projects that contribute to open innovation and shared technological development. By supporting open collaboration, the initiative strengthens the European digital ecosystem and encourages the collective growth of open technologies.





X4HPC 2026-2028 IS AN INVITATION

To scale your technologies beyond the lab.
To connect with new partners across Europe. To access
funding and acceleration programs. To strengthen
Catalonia's position in High Performance Computing.
The network is ready. The ecosystem is aligned.

Now it is time to grow.



