Providing Leadership & Space for OPEN INNOVATION

UPC Innovation HUB Labs

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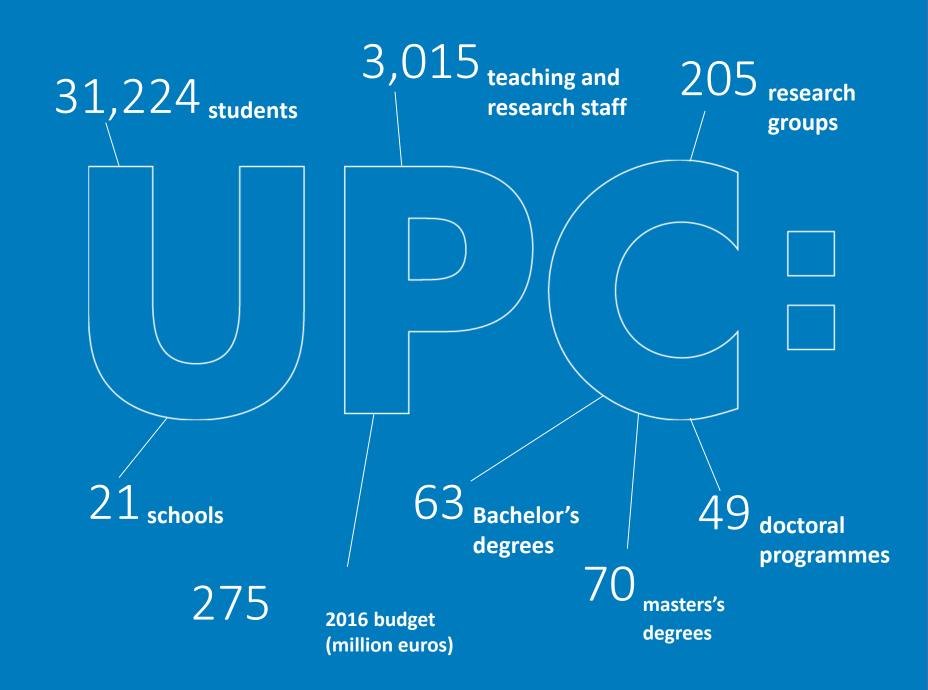
The Universitat Politècnica de Catalunya – BarcelonaTech is a public institution of Higher Education and Research, specialised in the areas of Architecture, Engineering, Science and Technology.



UPC Barcelona Tech



Leading Technology at the south of Europe





Departments and Institutes

Agri-Food Engineering and Biotechnology

Architectural Design

Architectural Representation and Visual Analysis I

Architectural Representation and Visual Analysis II

Architectural Technology II

Automatic Control

Chemical Engineering

Civil and Environmental Engineering

Computer Architecture

Computer Science

Electrical Engineering

Electronic Engineering

Engineering Design

Engineering Presentation

Fluid Mechanics

Heat Engines

History and Theory of Architecture

Management

Materials Science and Metallurgy

Mathematics

Mining, Industrial and ICT Engineering

Nautical Science and Engineering

Optics and Optometry

Physics

Service and Information System Engineering

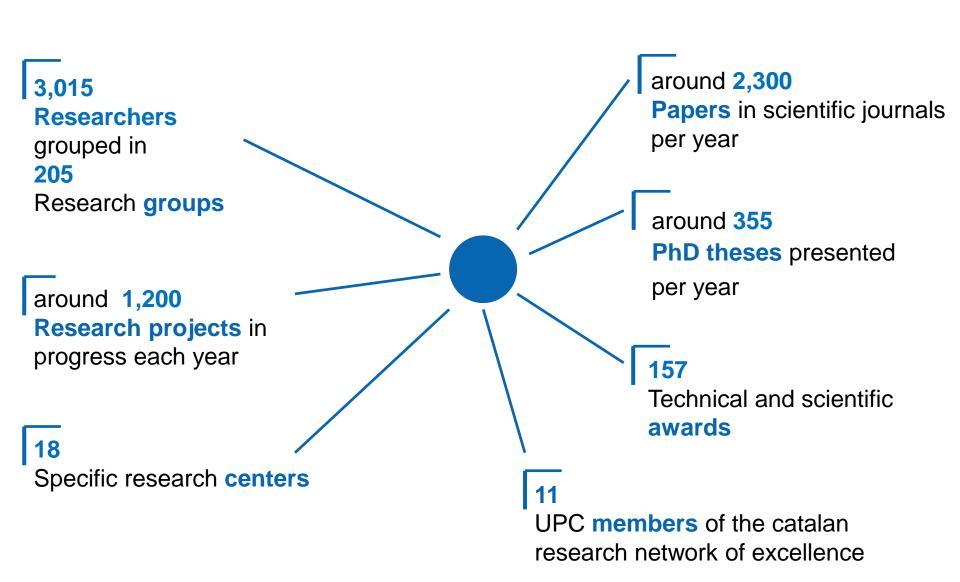
Signal Theory and Communications Statistics and Operations Research

Structural Architecture Telematics Engineering

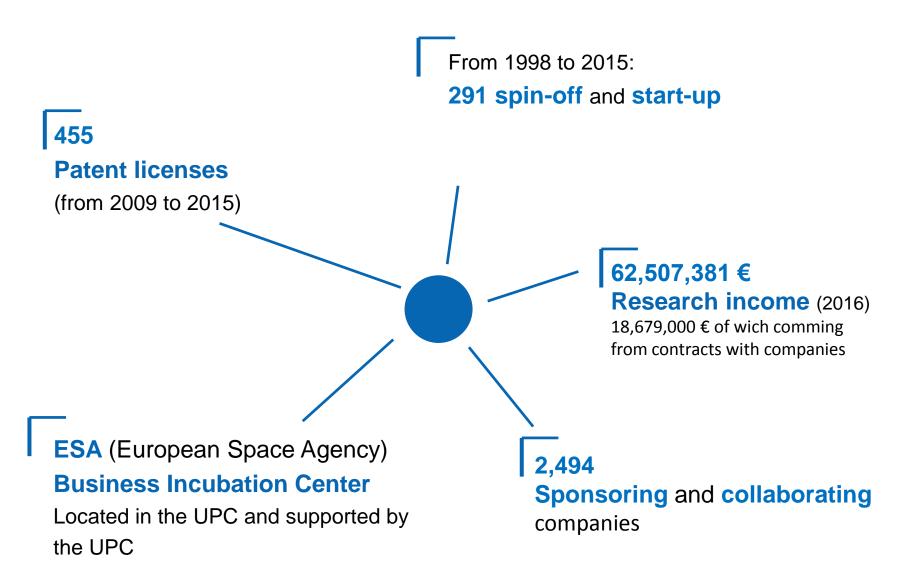
Textile and Paper Engineering

Urbanism and Regional Planning

Research to Innovate



Innovation



UPC Technologies



MATERIALS TECHNOLOGIES



ADVANCED MANUFACTURING TECHNOLOGIES



ENERGY AND ENVIRONMENTAL TECHNOLOGIES



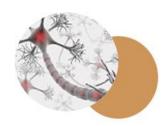
URBANISM AND SUSTAINABILITY TECHNOLOGIES



INFRASTRUCTURE TECHNOLOGIES



INFORMATION & COMMUNICATION TECHNOLOGIES



BIOMEDICAL ENGINEERING TECHNOLOGIES



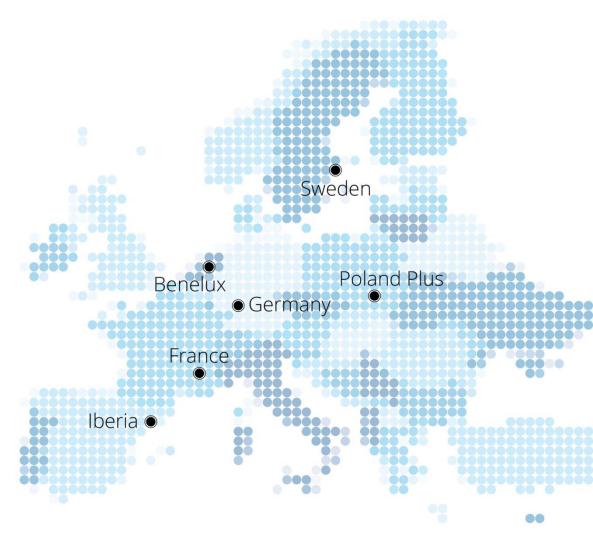
CHEMICAL AND FOOD INDUSTRY TECHNOLOGIES



LOGISTICS AND MOBILITY TECHNOLOGIES



6 co-location centres27 shareholders160 additional partnersActivities in 17 countries





6 co-location centres 27 shareholders Sweden 160 additional partners vito Activities in 17 countries Poland Plus Benelux **licho** Germany **Our Shareholders** Iberia (Research Institutes IREC 9 **Co-location Centres**

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TÉCNICO LISBOA



6 co-location centres27 shareholders160 additional partnersActivities in 17 countries



IREC 9

Our Shareholders

Research Institutes

Universities

Co-location Centres

European Institute of Innovation & Technology

ABB

6 co-location centres 27 shareholders 160 additional partners Activities in 17 countries





EnBW



VATTENFALL











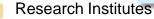


Benelux









- Universities
- **Industry Partners**
- Co-location Centres



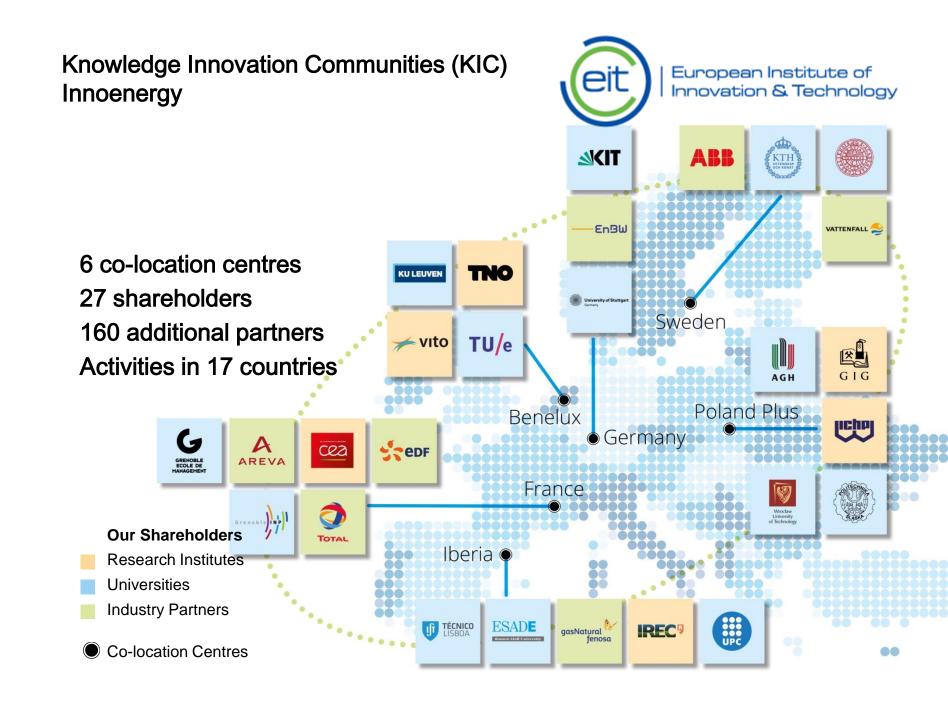




















Intelligent, Energy-efficient Buildings and Cities



── European Smart Electric Grid & Electric Storage ccsweden



Sustainable Nuclear & Renewable Energy Convergence CCALPS VALLEYS



 Energy from Chemical Fuels CCGERMANY

IBERIA co-location center

Formal partners:

ESADE

Gas Natural FENOSA

Institut de Recerca de l'Energia de Catalunya-IREC

Instituto Superior de Lisboa

Universitat Politècnica de Catalunya

Associate partners:

Ciemat

Energías de Portugal

Iberdrola

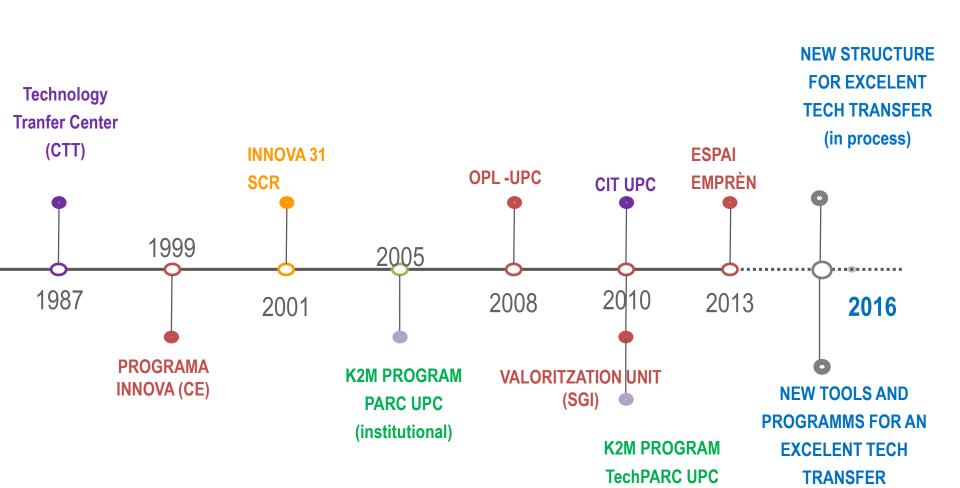
Tecnalia Research and Innovation





Technology Transfer System, Entrepreneurship and Innovation UPC

(in process)



OPEN INNOVATION

IS NOT SUITABLE (nor possible) TO INNOVATE ALONE.

The most effective solution is to network in a context of open innovation. Sharing risk and reward with other partners.

Much of the funding for innovation is aimed at promoting cooperation between different companies and academic institutions.





Models for Open Innovation

OPEN INNOVATION

Classical University model

Isolated services: Patents Office, Licensing, Contract research, Individual relation with Companies

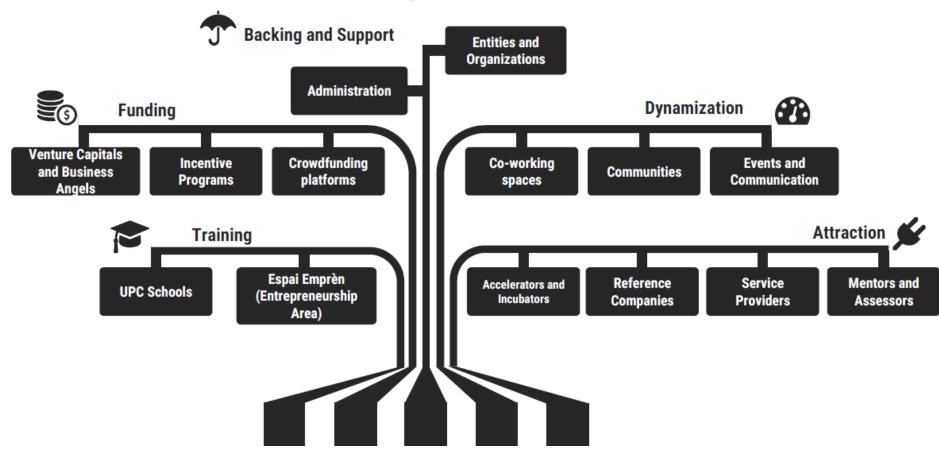
New model

More complex and network system. Collaborative research and development



UPC Innovation Ecosystem

Agents Tree



- Training talented individuals in innovation and entrepreneurship
- · Generating, growing and maturing innovative projects
- Preparing and filtering projects for corporate accelerator programmes
- Providing spaces for the creation and generation of public-private open innovation through innovation hubs



Open hub for industrial and academic partners from the areas of automotive and mobility research & innovation.

CARNET founding members







CARNET Industrial partners

















A Cooperation Platform with the mobility industry, universities and institutional partners

- Scouting activities on "Urban Mobility" in Barcelona
- Strategic contribution to strengthen the automotive sector in Spain / Catalonia
- Proactive Recruiting for the Automotive Industry
- Networking and international Research Funding

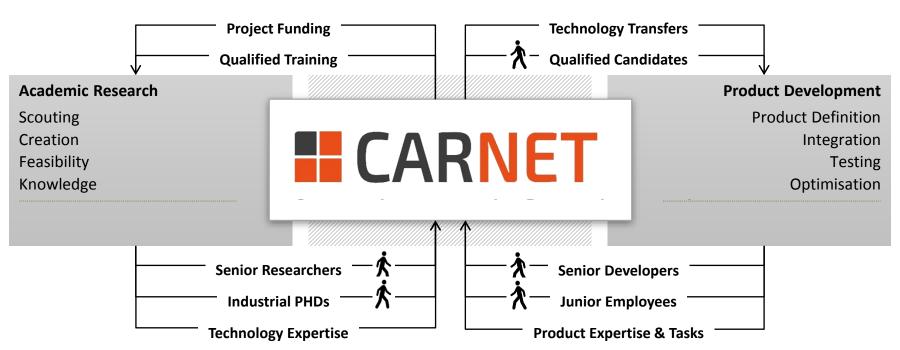








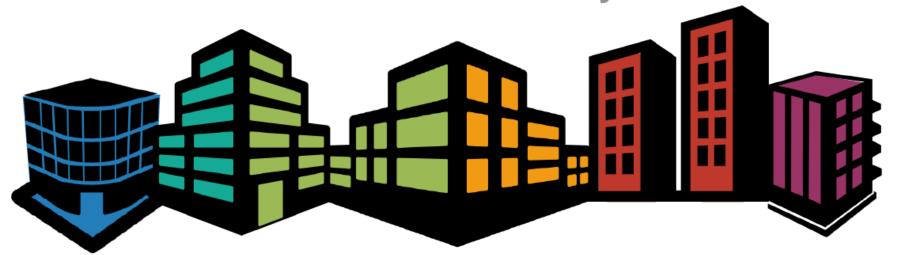
Concept: Bridging the transfer gap



- CARNET bridges the transfer gap between academic research and industrial product development
- **Centralised collaboration** (project house) with **industrial guidance** is a key factor for innovation and technology transfer



UPC Innovation Ecosytem







Experimentation and Creation



Incubation and Services



Sectoral Acceleration

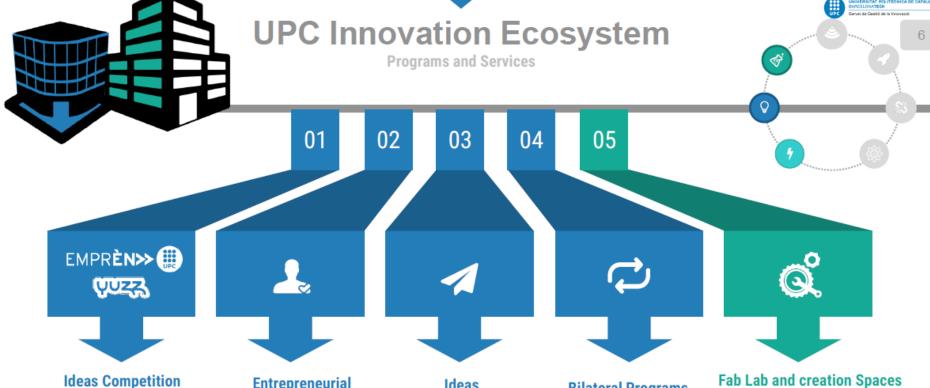


Corporate Venturing



Innovation Hubs





EMPRÈN UPC - YUZZ

Technological ideas Competition that aims to flourishing technology projects and training of entrepreneurial talent

Entrepreneurial Talent

Access programs to talent UPC Training programs and preparation of seed technology projects. CBI Market Science, etc.

Ideas Pre-incubation

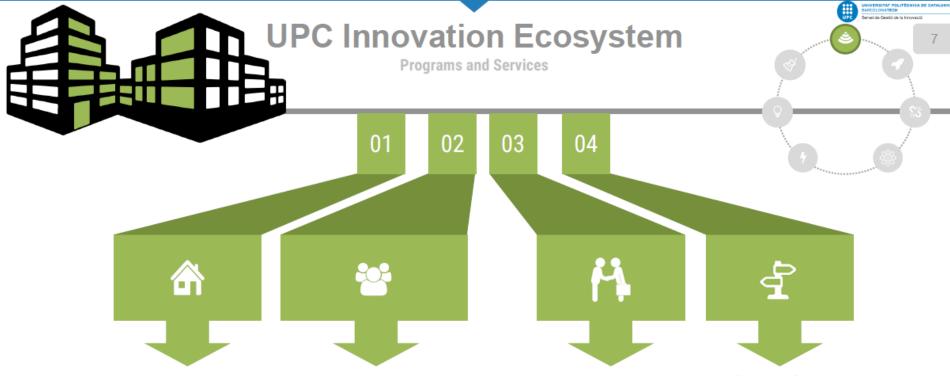
Accompanying and Mentoring programs and technological ideas validation

Bilateral Programs

Development of bilateral programs to flourish technological projects, solutions to challenges, access to talent UPC, etc.

Fab Lab and creation Spaces

Creative spaces, experimentation, prototyping and validating conceptual and technological products and services offered by the projects and startups



Space Rental and Facilities

Disposal of UPC spaces and their facilities, laboratories, equipment for incubated projects and companies, according to their needs.

Community Generation

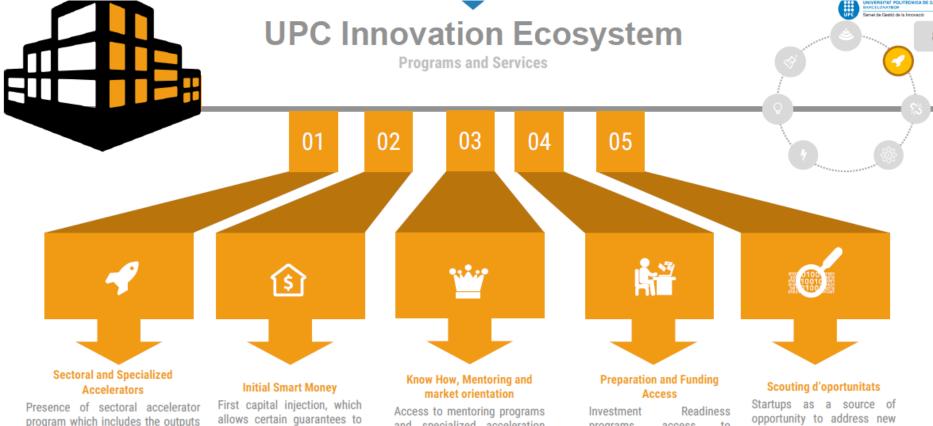
Hosting events, conferences, networking activities, Meetups and tech fairs to facilitate the creation of a community where entrepreneurs learn to turn great ideas into promising startups and promote the link between the UPC and the productive land

Incubation Services and Startup Empowerment

To provide strategic planning and network, 'go to market', fundraising, market analysis, service providers access to common lab device, fab lab and prototyping, software acceleration and growth.

Linking Facilitator University – Companies

Through the link with companies that want to be located in the UPC Park, UPC acts as a facilitator for the relationship of these companies with the range of services that UPC puts at their disposal to improve their competitiveness.



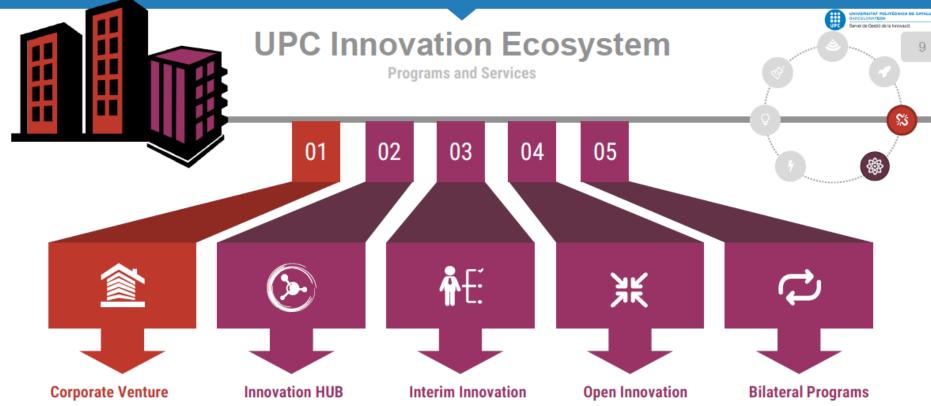
program which includes the outputs of pre-incubation ecosystem and create synergies with various initiatives, dynamics and agents present in the community.

First capital injection, which allows certain guarantees to start startups, which in turn comes from the hand of a relevant partner in the field of action of the startup.

Access to mentoring programs and specialized acceleration with real knowledge of the sector and allowing better focus for the exit and consolidation of startups in the market

Investment Readiness programs, access to networking investors, events, meetings and presentations with potential investors, demo days, tech fairs, etc.

Startups as a source of opportunity to address new services and products that enable companies to diversify its business and generate competitive advantages.



Corporate incubation programs, Pre-incubation programs, incubation corporate filtering...

Collaborating with startups to use them as engines of innovation generation and taking advantage of their entrepreneurial culture.

Space coordination and leadership Making Interim Management Open channels of innovation Generating of activities and programs for work in the UPC, establishing a approaching companies establish sustainable partnerships to coordinate the interests and through the provision of different programs of interest, facilitating channels, vehicles and processes the transfer of knowledge to the of innovation.

to working space within the SGI UPC company.

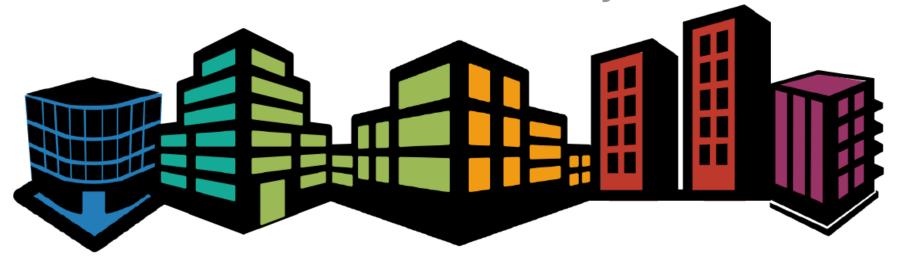
beyond R & D+I and internal innovation unities.

Positioning the UPC as a technological partner in which companies can rely on for their innovation processes.

business oriented to the interest of the companies. Development of technologies aimed at solving market needs. Generation Challenges and innovation through programs talent UPC can provide solutions.



UPC Innovation Ecosytem







Experimentation and Creation



Incubation and Services



Sectoral Acceleration



Corporate Venturing



Innovation Hubs















A network of core research facilities that play a prominent role in innovation and development, and turn ideas into reality.





