



VNIVERSITAT
DE VALÈNCIA

OTRI

OFICINA DE TRANSFERÈNCIA DE RESULTATS D'INVESTIGACIÓ
Vicerectorat de Política Científica

investigación

enterprise

research

knowledge

innovación

in

stigación

innovation conocimiento

empre





PARC CIENTÍFIC
UNIVERSITAT DE VALÈNCIA

El Parc Científic

The Science Park

Espacio que promociona y sustenta la innovación mediante:

- Espacios para centros de I+D de empresas.
- Incubación de base tecnológica (spin-off) de nuevas empresas.
- Fomento de las relaciones de los usuarios del Parque, entre sí y con el exterior.
- Atracción de empresas de alto contenido científico-tecnológico.

An initiative that promotes and sustains innovation through:

- *An area for business R+D centres.*
 - *The development and involvement of new businesses (spin-off).*
 - *The encouragement of relationships among the park users and with the wider society*
 - *The attraction of businesses with high scientific-technological interest.*
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La Universitat de València,

realiza su actividad investigadora en múltiples áreas de conocimiento. Los resultados de esta actividad tienen aplicaciones en un amplio abanico de sectores productivos y sociales. La información de interés para las empresas e instituciones, sobre las Capacidades Científicas y Tecnológicas de la Universitat de València, se encuentra disponible para ser ofrecida y transferida al entorno socioeconómico a través de su **Oficina de Transferencia de Resultados de Investigación (OTRI)**. De esta forma, la Universitat de València contribuye a dinamizar el sistema de innovación empresarial, favoreciendo el aumento de su competitividad.

Dotados de una infraestructura consolidada, experiencia contrastada y casi 4.000 investigadores, esperamos que encuentre en nuestra oferta áreas de conocimiento interesantes y relevantes para incrementar su capacidad competitiva.

oferta

científica y tecnológica

scientific and technological offer

The University of Valencia,

*is working in a wide range of investigative fields. The results of this activity are applied in a variety of productive sectors and social areas. Information of interest for businesses and public bodies about the Scientific and Technological Capacity of the University of Valencia is made available and offered for socioeconomic transfer through its **Research Results Transfer Office (OTRI)**. In this way, the University of Valencia is contributing to the development of the business innovation system and its increased competitive capacity.*

With our consolidated infrastructure, high experience and almost 4.000 researchers, we are sure that we will be able to offer you areas of knowledge that are interesting and relevant for the increase of your organisation's competitive capacity.

investigación + transferencia =

valor competitivo

research + knowledge transfer =
competitive value

Estructuras para su organización y gestión:

OTRI: OFICINA DE TRANSFERENCIA DE RESULTADOS DE INVESTIGACIÓN

- Servicio que gestiona y asesora en la generación y transferencia de conocimiento universitario para la industria.
- Facilita el acceso a las infraestructuras de investigación de la Universitat de València.
- Orienta a los grupos de investigación hacia las necesidades de las empresas.

Structure for organisation and management:

OTRI: RESEARCH RESULTS TRANSFER OFFICE

- *A service that manages and assesses in the generation and transfer of University knowledge towards the industry.*
- *Makes easier the access to the University of Valencia research facilities.*
- *Orientation of university research groups towards the needs of business.*

oferta científica y tecnologica

de la Universitat de València

área científica

SECTOR AGRARIO

- Producción vegetal
- Protección de los cultivos
- Control biológico de plagas
- Caracterización de variedades vegetales
- Alimentación animal
- Patología animal
- Cultivo intensivo de peces y crustáceos
- Mejora genética, vegetal y animal
- Estudios de mercado

SECTOR ALIMENTARIO

- Alimentos Funcionales
- Ingeniería y control de procesos
- Simulación de procesos
- Desarrollo de nuevos productos y nuevos procesos
- Calidad de los alimentos
- Seguridad y higiene alimentaria
- Implantación de normas ISO
- Estudios de dietética y nutrición
- Estudios de mercado

BIOMICINA

- Medicina forense
- Medicina tropical
- Medicina preventiva y salud laboral
- Cáncer, enfermedades cardiovasculares y neurológicas
- Psicología clínica
- Nutrición y toxicología
- Métodos de diagnóstico
- Inmunología
- Reproducción asistida
- Terapia génica
- Tecnología sanitaria y de la rehabilitación
- Optometría. Tecnología óptica

SECTOR QUÍMICO Y FARMACÉUTICO

- Tecnologías analíticas,
- Análisis y ensayos farmacológicos y farmacocinéticos
- Diseño y síntesis de fármacos
- Desarrollo de nuevos productos agroquímicos
- Desarrollo de procesos químicos industriales
- Catálisis química. Procesos de reacción
- Química de plantas medicinales y aromáticas
- Tecnologías de extracción con fluidos supercríticos

BIOTECNOLOGÍA

- Identificación y caracterización de genes
- Técnicas de diagnóstico molecular
- Estudio de rutas metabólicas
- Catálisis enzimática
- Estudio de procesos fermentativos
- Mecanismos de defensa de plantas
- Detección de patógenos en animales
- Mecanismos de patogenicidad de microorganismos
- Desarrollo de nuevas vacunas

INDUSTRIA DE EQUIPOS ELÉCTRICOS Y ELECTRÓNICOS

- Tecnología electrónica. Equipos y redes
- Circuitos analógicos y digitales
- Procesamiento de señales
- Tecnología de sensores
- Electrónica aeroespacial
- Electromedicina
- Optoelectrónica y fibras ópticas
- Instrumentación electrónica
- Electrónica industrial de alta potencia
- Tecnologías CAD/CUBIL/CAM/CULMEN
- Robótica y automatización. Control de procesos
- Entornos virtuales. Simulación

TECNOLOGÍA FÍSICA

- Optometría. Tecnología óptica
- Física de partículas elementales
- Astronomía y ciencias del espacio
- Física de altas energías
- Electromagnetismo y ondas
- Radiación solar
- Tecnología láser
- Física de plasma

TECNOLOGÍA DE MATERIALES

- Semiconductores y física de materiales
- Química y caracterización de materiales
- Materiales superconductores
- Nanotecnología. Materiales moleculares
- Materiales magnéticos
- Materiales poliméricos (polímeros)
- Materiales microestructurados
- Materiales cerámicos. Cerámicas electrónicas
- Tecnologías del láser
- Nuevos catalizadores
- Células solares

área tecnológica

área social y humanidades

SERVICIOS JURÍDICOS

- Estudios jurídicos mercantiles
- Responsabilidad jurídica
- Derecho penal
- Derecho privado y público
- Legislación comunitaria
- Derecho internacional
- Derecho medioambiental
- Seguridad y salud laboral
- Derecho del trabajo
- Derecho del consumidor
- Derechos humanos
- Ética de la ciencia y de las tecnologías de la información

SERVICIOS ECONÓMICOS Y DE GESTIÓN

- Estudios macroeconómicos
- Estudios financieros y contables
- Valoración de inversiones
- Predicciones de impacto económico
- Desarrollo regional
- Comercialización e investigación de mercados
- Comercio internacional
- Optimización de operaciones por simulación
- Gestión de los recursos humanos
- Planificación estratégica
- Innovación organizacional
- Gestión de la calidad
- Logística de transporte y distribución
- Análisis estadístico

DESARROLLO SOCIAL

- Sistemas de bienestar e intervención social
- Análisis sociológico e investigación social
- Programas de inserción social y laboral
- Inmigración y minorías
- Mujer y sociedad
- Tercera edad
- Drogodependencias
- Psicopedagogía
- Educación. Planes formativos
- Asesoramiento e intervención psicológica
- Cooperación social
- Calidad de vida

CULTURA, LENGUAS Y PATRIMONIO

- Conservación y gestión de patrimonio histórico-artístico
- Excavaciones arqueológicas y paleontológicas
- Gestión cultural, museos y bibliotecas
- Estudios lingüísticos
- Turismo y ocio
- Gestión de actividades deportivas

TELECOMUNICACIONES Y NUEVAS TECNOLOGÍAS DE LA INFORMACIÓN

- Redes, sistemas y servicios telemáticos
- Redes ópticas
- Procesamiento de señales
- Componentes y dispositivos fotónicos
- Componentes y sistemas de microondas
- Diseño de sistemas electrónicos digitales y de comunicación
- Ingeniería del software y programación
- Tecnología multimedia
- Domótica

TECNOLOGÍA MEDIOAMBIENTAL

- Estudios de impacto ambiental y desarrollo sostenible
- Estudios de erosión y sedimentación
- Estudios hidrológicos
- Estudio de suelos
- Aprovechamiento de residuos
- Diseño de estaciones de tratamiento
- Tratamiento de aguas residuales urbanas e industriales
- Contaminación atmosférica
- Contaminación y condicionamiento acústico
- Contaminación de aguas y suelos
- Contaminación radiactiva
- Teledetección
- Simulación/modelización de ecosistemas
- Implantación de sistemas de gestión medioambiental
- Estudios de ordenación del territorio
- Estudios jurídicos medioambientales
- Educación ambiental

scientific and technological offer

of the University of Valencia

scientific area

AGRICULTURE

- Crop production
- Crop protection
- Biological pest control
- Classification of plant varieties
- Animal feeding
- Animal pathology
- Intensive fish and crustacean farming
- Plant and animal genetic improvement
- Market research

FOODSTUFFS

- Functional feeding
- Process control and engineering
- Process simulation
- Development of new products and processes
- Food quality
- Food hygiene and safety
- ISO standards implementation
- Dietary and nutritional research
- Market research

BIOMEDICINE

- Forensic medicine
- Tropical medicine
- Preventative medicine and health and safety at work
- Cancer, cardiovascular illness and neurology
- Clinical psychology
- Nutrition and toxicology
- Diagnostic methods
- Immunology
- Assisted reproduction
- Gene therapy
- Health technology and rehabilitation
- Optometrics. Optical technology

CHEMICAL AND PHARMACEUTICAL

- Analytical technology
- Pharmacological and pharmacokinetic analysis and testing
- Pharmaceutical design and synthesis
- Development of new agro-chemical products
- Development of chemical industrial processes
- Chemical catalysis. Reaction processes
- Chemistry of medicinal and aromatic plants
- Extraction technology with supercritical fluids

BIOTECHNOLOGY

- Gene identification and classification
- Molecular diagnostic techniques
- Metabolic route research
- Enzyme catalysis
- Fermenting process research
- Plant defence mechanisms
- Pathogen detection in animals
- Pathogenicity mechanisms in microorganisms
- Development of new vaccines

ELECTRICAL AND ELECTRONIC INSTALLATIONS

- Electronic technology. Installations and networks
- Analogue and digital circuits
- Signal processing
- Sensor technology
- Aerospace electronics
- Electromedicine
- Optoelectronics and fibreoptics
- Electronic instrumentation
- High voltage industrial electronics
- CAD/CUBIL/CAM/CULMEN technologies
- Robotics and automation. Process control
- Virtual environments. Simulation

PHYSICS TECHNOLOGY

- Optometrics. Optical technology
- The physics of elementary particles
- Astronomy and space science
- High energy physics
- Electromagnetics and waves
- Solar radiation
- Laser technology
- Plasma physics

MATERIALS TECHNOLOGY

- Semiconductors and materials physics
- Chemistry and classification of materials
- Superconductor materials
- Nanotechnology. Molecular materials
- Magnetic materials
- Polymeric (polymer) materials
- Microstructured materials
- Ceramic materials. Electronic ceramics
- Laser technologies
- New catalysers
- Solar cells

of the University of Valencia

TELECOMMUNICATIONS AND NEW INFORMATION TECHNOLOGIES

- Networks, systems and telematic services
- Optical networks
- Signal processing
- Phototonic components and appliances
- Microwave components and systems
- Digital electronic and communications systems design
- Software engineering and programming
- Multimedia technology
- Domotics

ENVIRONMENTAL TECHNOLOGY

- Environmental impact and sustainable development research
- Erosion and sedimentation research
- Hydrological research
- Soil research
- Use of residues
- Water treatment station design
- Industrial and urban residual water treatment
- Atmospheric contamination
- Noise pollution and conditioning
- Water and soil contamination
- Radioactive contamination
- Remote sensing
- Ecosystem simulation/modelling
- Environmental management system implementation
- Ordinance survey research
- Environmental legal issues research
- Environmental education

LEGAL SERVICES

- Company law research
- Legal responsibilities
- Criminal law
- Private and public law
- Community legislation
- International law
- Environmental law
- Health and safety at work
- Labour law
- Consumer law
- Human rights
- Science and information technology ethics

ECONOMIC AND MANAGEMENT SERVICES

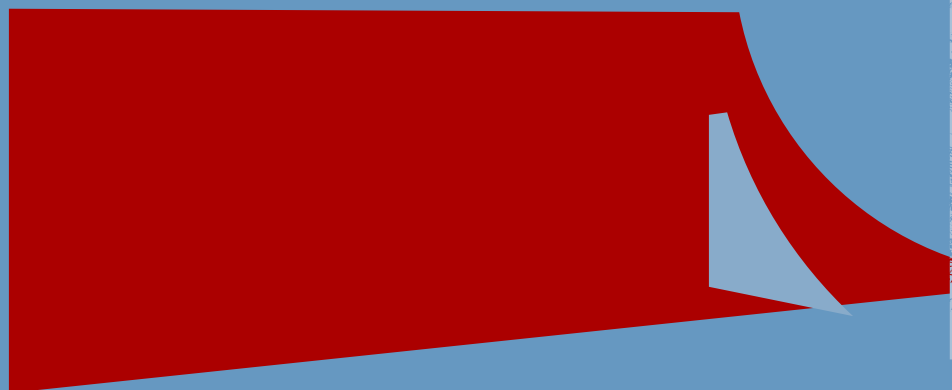
- Macroeconomic research
- Financial and accounting research
- Investment valuation
- Economic impact forecasts
- Regional development
- Commercialisation and market research
- International trade
- Optimisation of operations by simulation
- Human resources management
- Strategic planning
- Organisational innovation
- Quality management
- Transport logistics and distribution
- Statistical analysis

SOCIAL DEVELOPMENT

- Welfare state systems and social intervention
- Sociological analysis and social research
- Social employment and insertion programmes
- Immigration and minorities
- Women and society
- Retirement
- Drug addiction
- Psycho-pedagogy
- Education. Training plans
- Assessment and psychological intervention
- Social Cooperation
- Quality of life

CULTURE, LANGUAGE AND HERITAGE

- Conservation and historical-artistic heritage
- Archaeological and paleontological excavations
- Cultural management: museums and libraries
- Leisure and tourism
- Sports management



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THE RESEARCH RESULTS TRANSFER OFFICE



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the University of Valencia as an active agent of social and economic development

As a result of societal evolution, globalisation and increased competition it is recognised that **cooperation** and **investment in R+D and Innovation** are the most effective resources of the business community in order to confront growing competition and increase the company's competitive edge.

The universities are the number one technological resource for Spanish innovation systems as their basic mission is to create a well of knowledge to be transmitted to society at large.

The **University of Valencia** has taken on the responsibility of this two-fold challenge by making great efforts to increase the social and economic value and benefits available through its resources and innovation capability by means of a **two-fold STRATEGY**:

1. To encourage and **promote the orientation of its R+D and innovation activities** toward complementing and converging with the interests of the wider social and economic environment.

2. **The development of instruments and management and communication practices** that will facilitate the access of companies and social agents to the resources and results of the research itself.



In order to achieve these objectives, the University of Valencia can count on the following **STRUCTURES**:

1. R+D+ Innovation groups.
2. R+D+ Innovation Departments, Institutes and Centres.
3. Laboratories and Central Support Services for Experimental Investigation.
4. The Vice-rectorship of Research
 - The Research Service.
5. The Vice-rectorship of Scientific Policy and International Cooperation
 - The OTRI (The Research Results Transfer Office).

The University of Valencia has established its principal means of scientific and technological communication through the **Research Service** and the **Research Results Transfer Office (OTRI)**, with the objective that businesses and public bodies can take advantage of the existing scientific potential of the R+D+ Innovation groups and channel their demands and needs towards our institution.

advantages of r+d+ innovation cooperation:

R+D+ innovation cooperation with the University of Valencia offers the business community a series of **competitive advantages**:

- **Human Potential:** The University of Valencia has a large number of highly qualified researchers with proven scientific excellence; ideal for undertaking technological innovation projects in cooperation with the business community.
- **Well equipped scientific and technical installations** available to companies wishing to develop their R+D+ innovation activities.
- **Specialised “made to measure” training;** tailored to business needs.
- **Guaranteed quality and flexibility** in the execution of R+D + innovation projects with the consequent economic benefits for the company.
- **Fiscal advantages:** Current fiscal regulations allow for a saving on R+D costs and expenses incurred in technological innovation, deductible from Company tax.
- **Access to public financing** for undertaking R+D projects in cooperation with the University.



the research results transfer office

OTRI:



OTRI, created by the University of Valencia in 1989 is an instrument of the Vice-rectorship of Scientific Policy and International Cooperation that encourages cooperation and relationships between the university departments and research institutions and businesses and organisations from the wider society in terms of research and supply of high value added technical services.

*As an **intermediary structure between the university and society**, OTRI acts as a catalyst, promoting efficient relationships of exchange of knowledge as applied to the needs of the industrial sector, the social sector and its services by facilitating the transfer of such knowledge.*

*These objectives are specified in the following **functions**:*

- *The encouragement of the participation of the university community in **R+D+ innovation projects**.*
- *The structuring and diffusion of a data bank of knowledge, capabilities and **technological possibilities** of the University of Valencia.*
- *The identification of **transferable results** generated by research groups and the evaluation of transfer potential.*
- *The facilitation and making available of adequate mechanisms for the transfer of such **results to the business community**.*
- *The valuing, protection and management of the **intellectual and industrial property** generated by the University and its transfer and diffusion to the relevant organisations.*
- *The channelling, negotiation and management of **research contracts**, technical assistance, consultation, patents etc. between research groups and companies.*
- *The spread of information about **R+D+Innovation support programmes** offered by governmental bodies (regional, national and European) and the technical facilitation and preparation of projects, budgets and administrative management procedures.*
- *Encouragement and consultation in the creation of **new R+D structures** such as spin-offs, based on technology, technological platforms and mixed research units.*
- *The provision of **value added services** to transfer activities developed by the University of Valencia Science Park framework.*



4 OTRI: the link between the business community and University research

OTRI, the University of Valencia service, acts for the business community as an innovation support unit, supplying various R+D+ innovation services via its different mechanisms, adapted to the particular needs of each organisation.

OTRI can offer companies:

Accessibility: access to the most adequate scientific and technological knowledge for each company or organisation, collaborating in human resources training and facilitating the supply of other technical services (tests, documentation consulting), acting as a **'one-stop-service'** in the University-Business community R+D relationship.

Information technology: the provision of information about the most adequate **financing** instruments for the development of R+D+ innovation projects, the facilitating of **contacts** with groups and businesses that are developing projects that could be useful for the company. Information about **patents** available for transfer; acting as knowledge management agent for the company.

Advice: OTRI carries out the administration activities necessary for the formalisation of contracts and agreements between the company and the University. Advice on management of industrial property derived from research carried out in cooperation and in the procedures of the corresponding ownership of intellectual and industrial property rights.

**the University of
Valencia**

**“on line”:
scientific and
technological offer**

OTRI has made an on-line catalogue of services available to the business community with the offer of the knowledge of our research groups; where activities services and projects can be found, with the aim of locating the offer that is best adjusted to innovation needs - all in an accessible language, oriented toward economic activity.

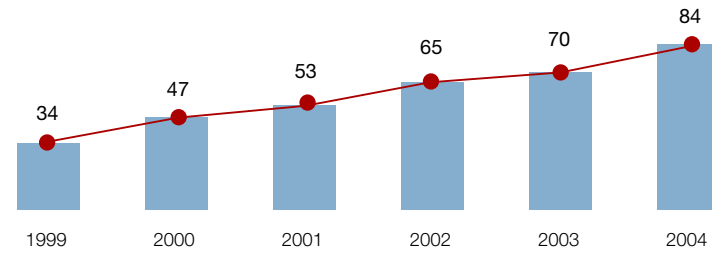
The University of Valencia Scientific and Technological Offer is available for consultation at: www.uv.es/otri

This information tool, together with the support of OTRI allows companies and public bodies to:

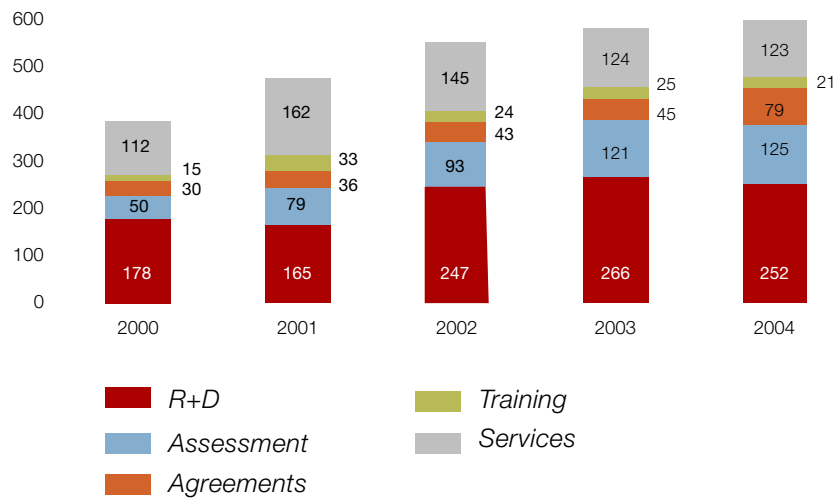
- 1. Develop research projects in cooperation with the University of Valencia.*
- 2. Take advantage of the results obtained by the University research teams through obtaining licences for use and exploitation of the technology and knowledge developed at the university.*
- 3. Contract the University for the undertaking of technological development and research projects, advice, the provision of specialised technical services with value added and made to measure training.*

www.uv.es/otri

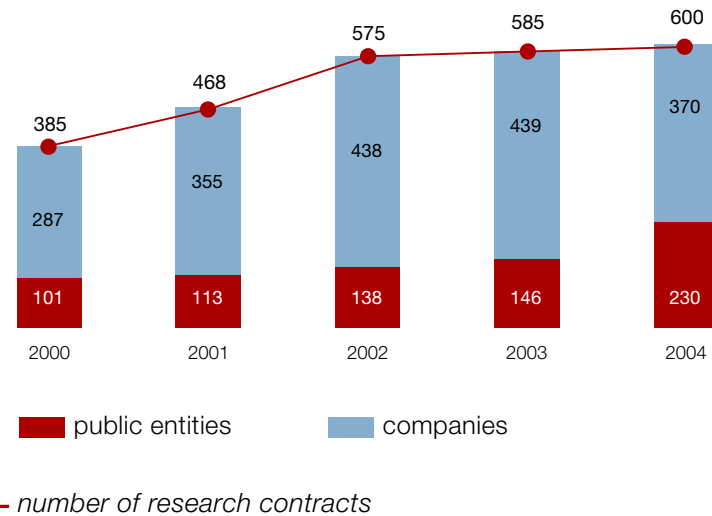
the portfolio of patentes



evolution of the number of research contracts according to the **type of work**



evolution of the number of research contracts according to the **type of body**

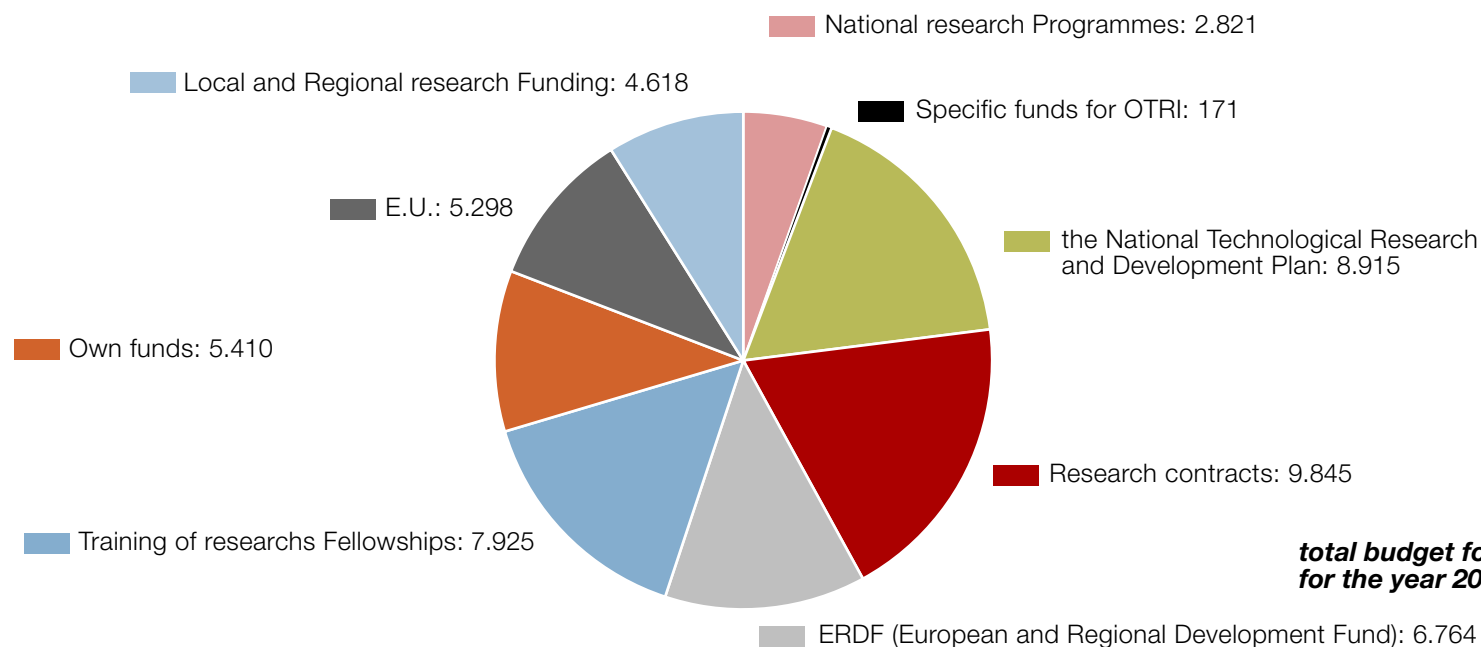


location and contact details:



evolution of the **whole activity of R+D and Innovation** at the **University of Valencia**

distribution according to **origin of the funds** (miles euros)



**total budget for R+D and Innovation
for the year 2004 (miles euros): 51.767**

VICERECTORAT DE POLÍTICA CIENTÍFICA
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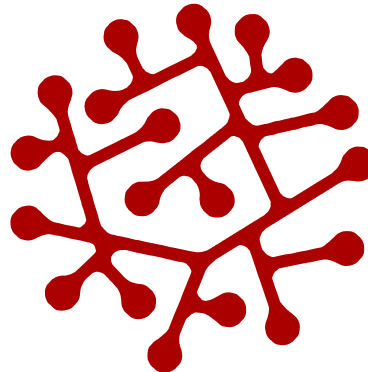


a new space for the future the Science Park of the University of Valencia

Has witnessed **the birth of a new innovation facility** where University research groups can work together with the private sector; in cooperation not competition, sharing knowledge and ideas.

200.000 m², next to the University campus, based in the locality of Paterna, just 12 Km from Valencia and next to the international airport, will become a pole of attraction for companies with scientific and research requirements.

It will also provide opportunities for graduates and post-graduates to continue their work, favouring employment possibilities.



With this initiative, the University of Valencia is demonstrating its strong **commitment to regional development.**

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VICERECTORAT DE POLÍTICA CIENTÍFICA

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