UNIVERSIDAD DE MÁLAGA

OTRI UNIVERSIDAD DE MÁLAGA

Vicerrectorado de Investigación

UNIVERSITY OF MÁLAGA

- **University schools: 22**

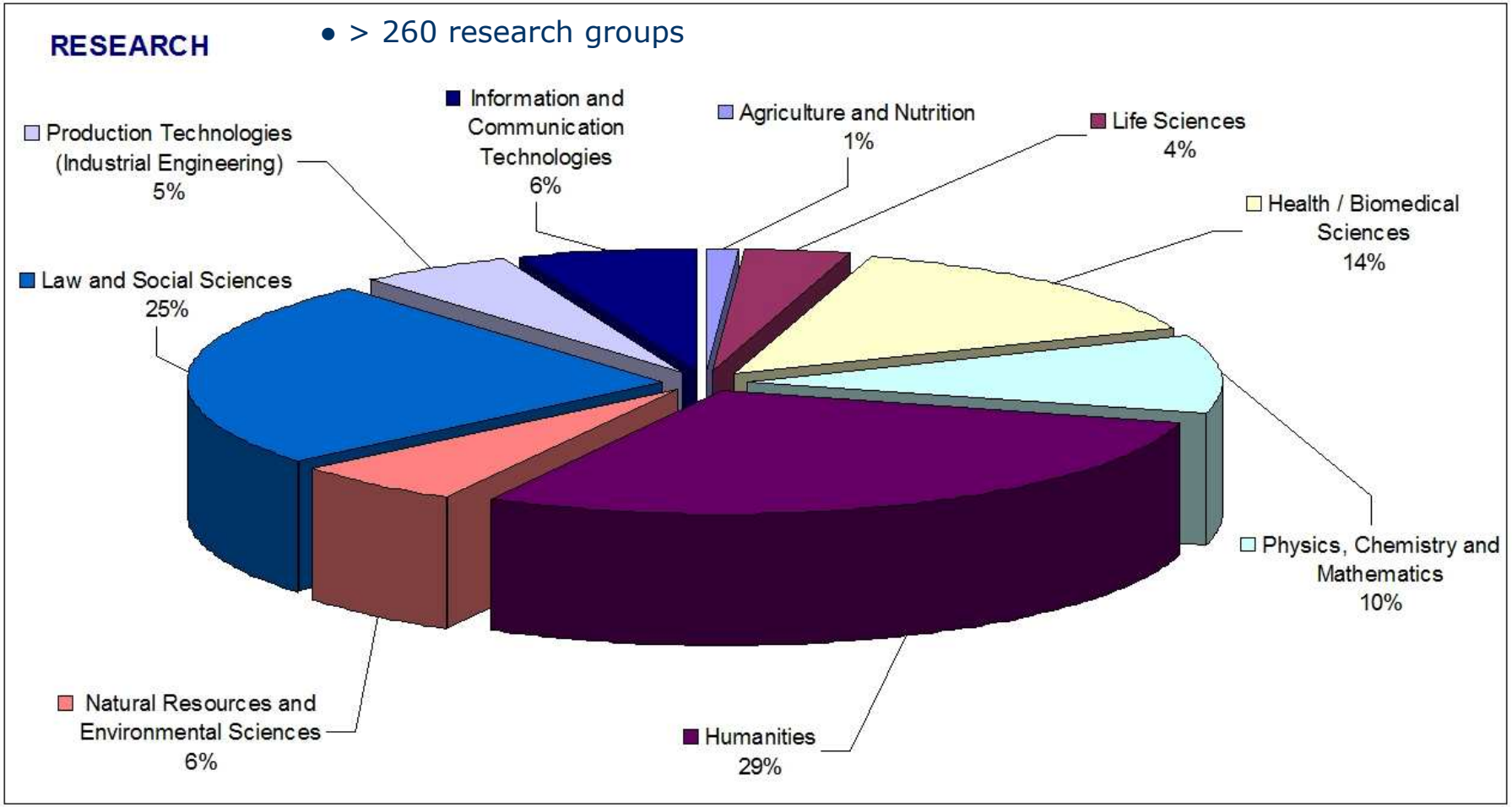
  (13 Faculties, 5 Institutes of Technology, 3 other allocated centres)

- **Academic Degrees: 60**

  - Humanities, Arts
  - Law and Social Sciences
  - Experimental Sciences
  - Health / Biomedical Sciences
  - Engineering Sciences

RESEARCH

- > 260 research groups



RESEARCH FACILITIES

Campus Teatinos

Shared Facilities and Research Support Centre Services (*Servicios Centrales de Apoyo a la Investigación)*

Health Research Centre (*Centro de Investigaciones Médico-Sanitarias)*

Technology Park of Andalusia PTA

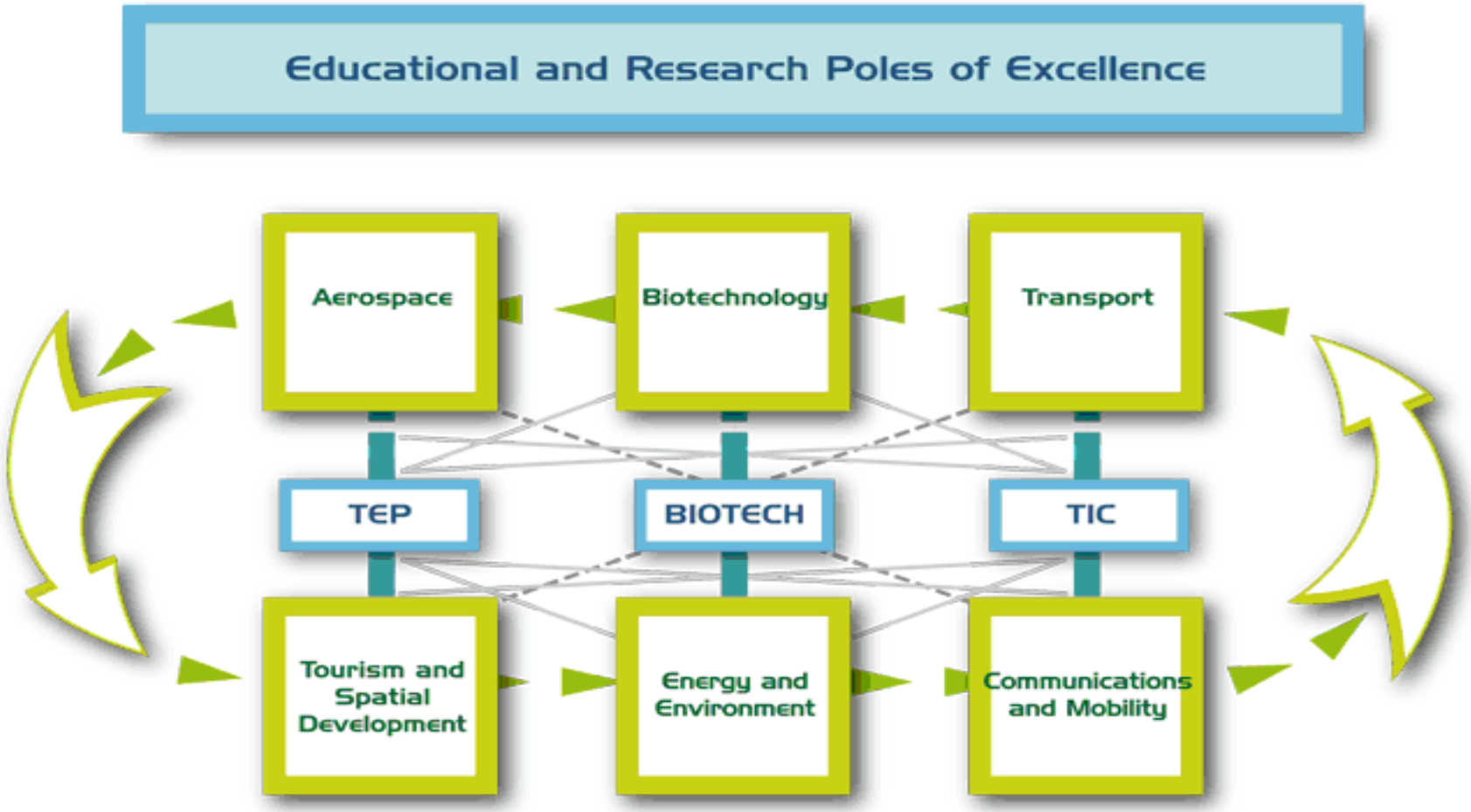
Building for University Research Institutes

BioInnovation Centre

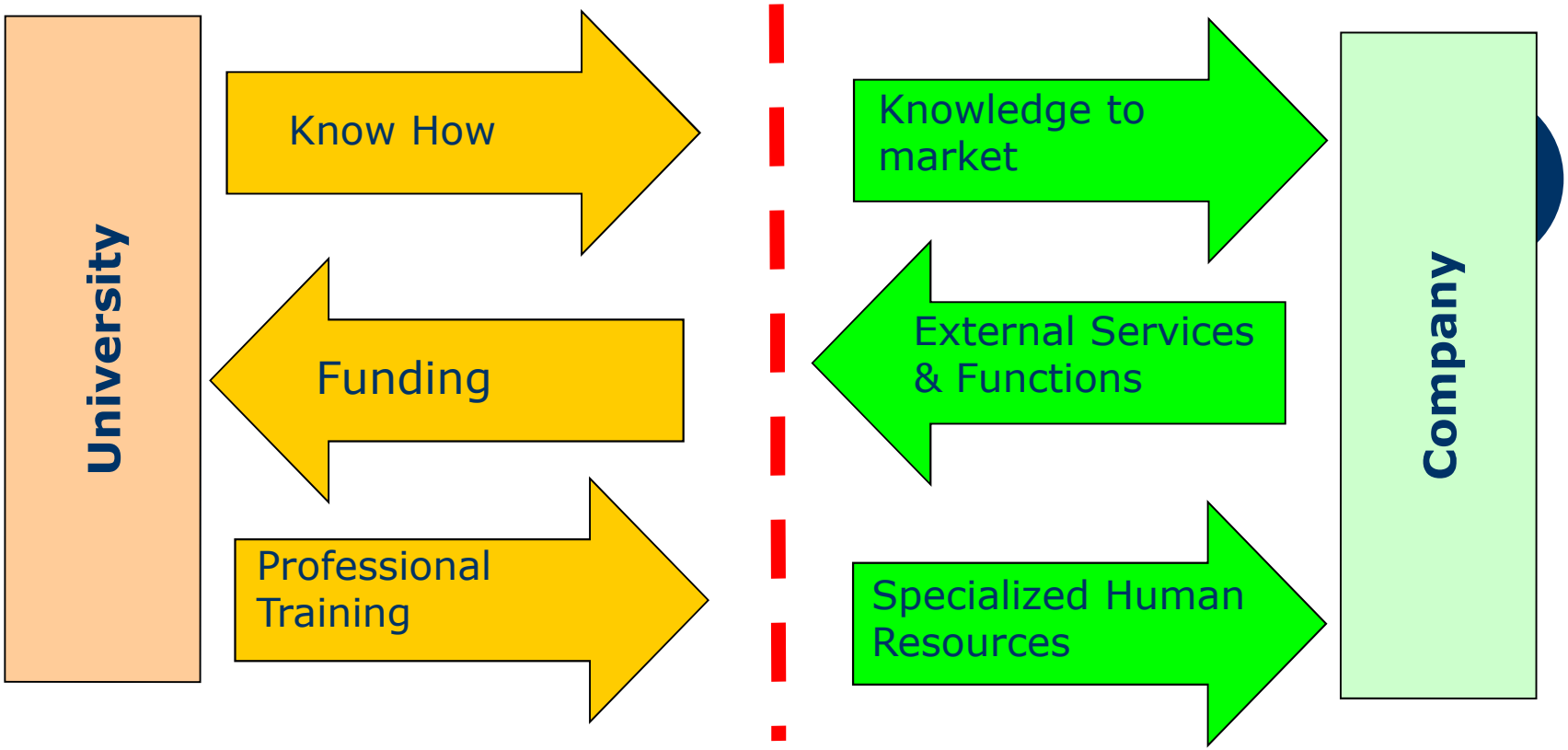
UNIVERSITY RESEARCH INSTITUTES

BIOINNOVATION CENTRE

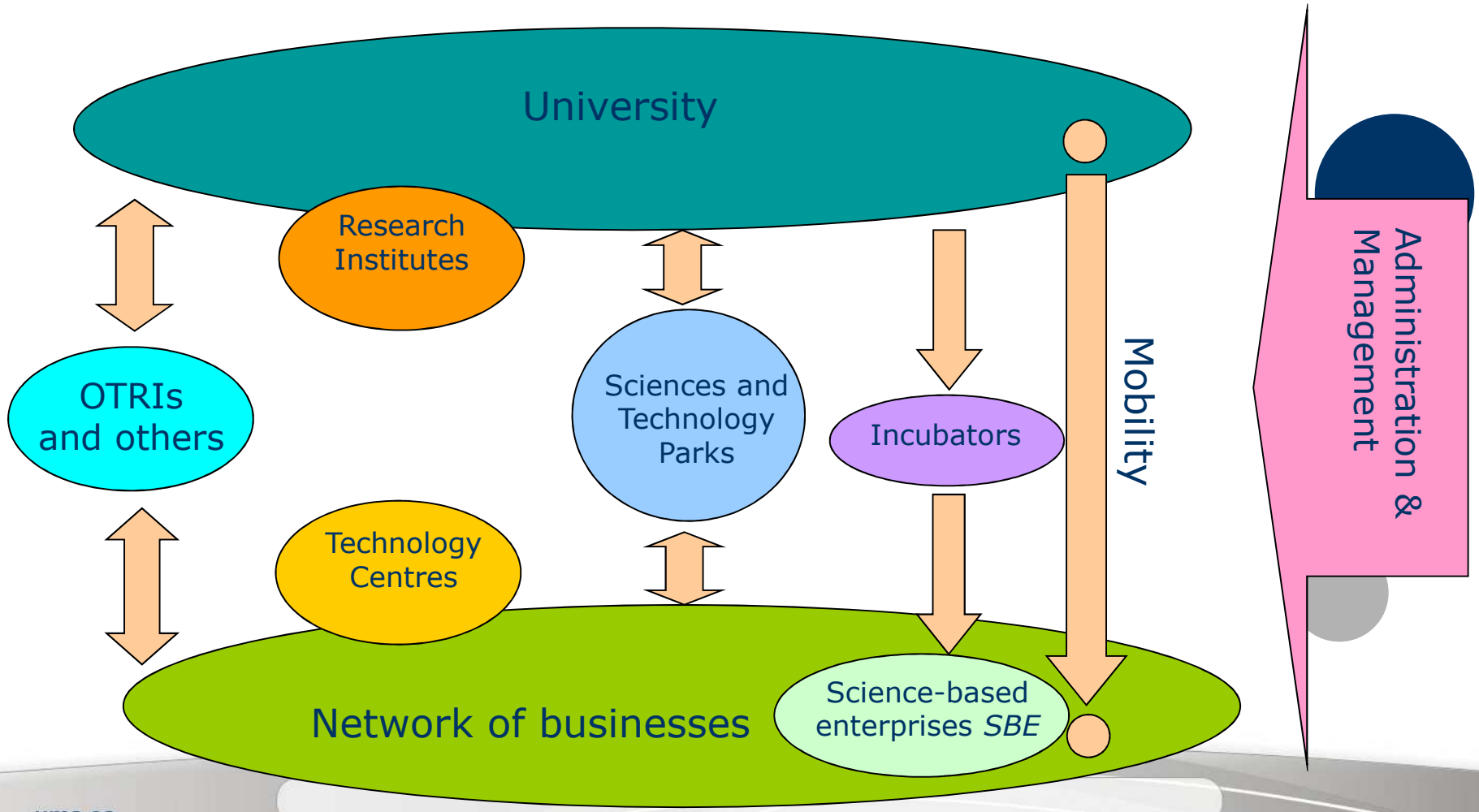
Andalucia Tech – International Campus o Excellence - Specialization Areas



Transfer of Knowledge and Technology



DYNAMIC MODEL OF TRANSFER



Technology Transfer Tools

Contracts and Agreements art. 83 of the Organic Law on Universities *L.O.U.*

Collaborative Projects

All Services are offered according to Quality Certification ISO 9001:2008

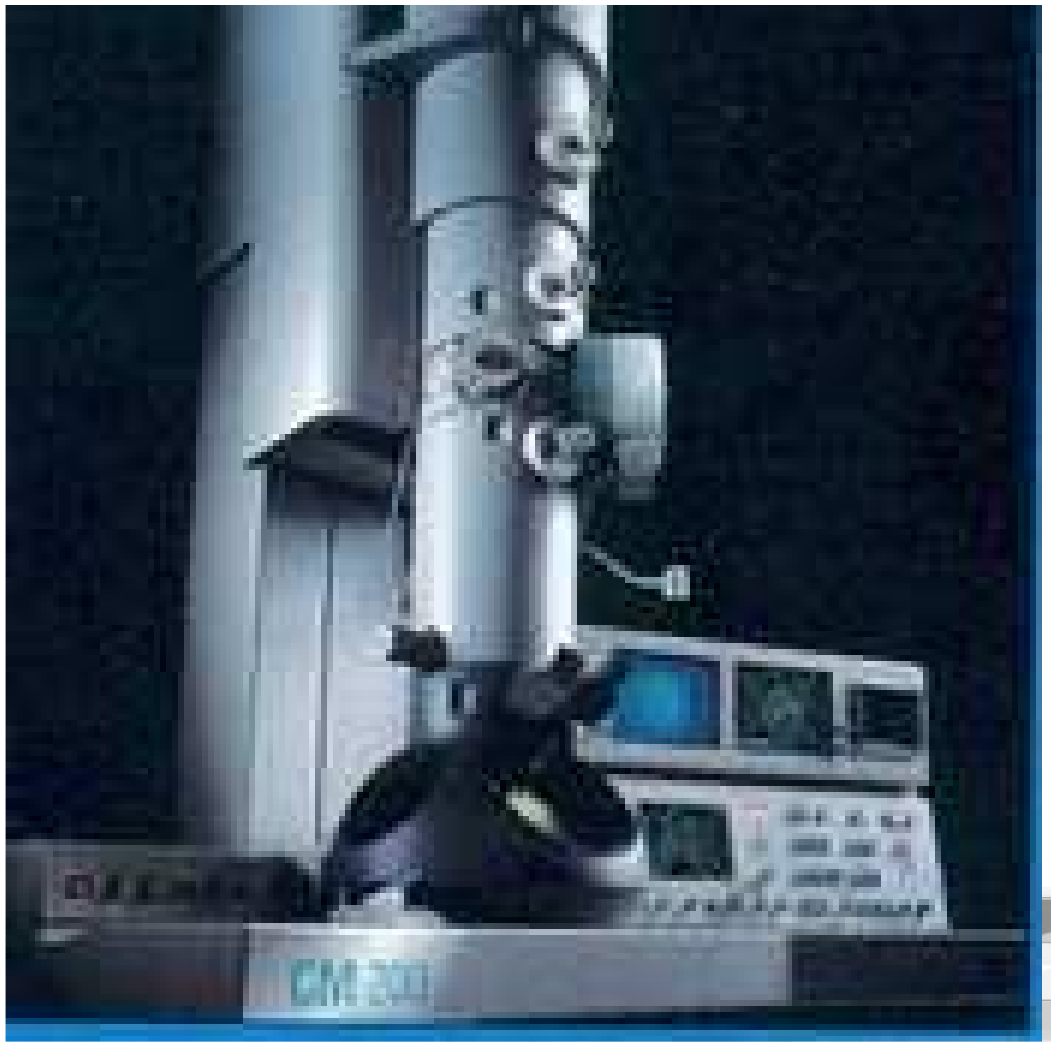
Execution of Own Projects

European Projects

Intellectual Property

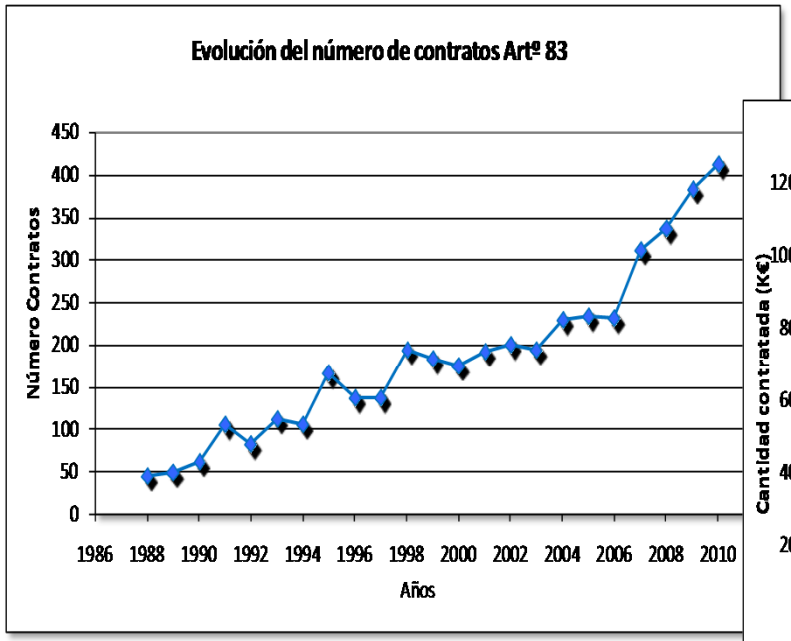
Expert monitoring of Science-based enterprises

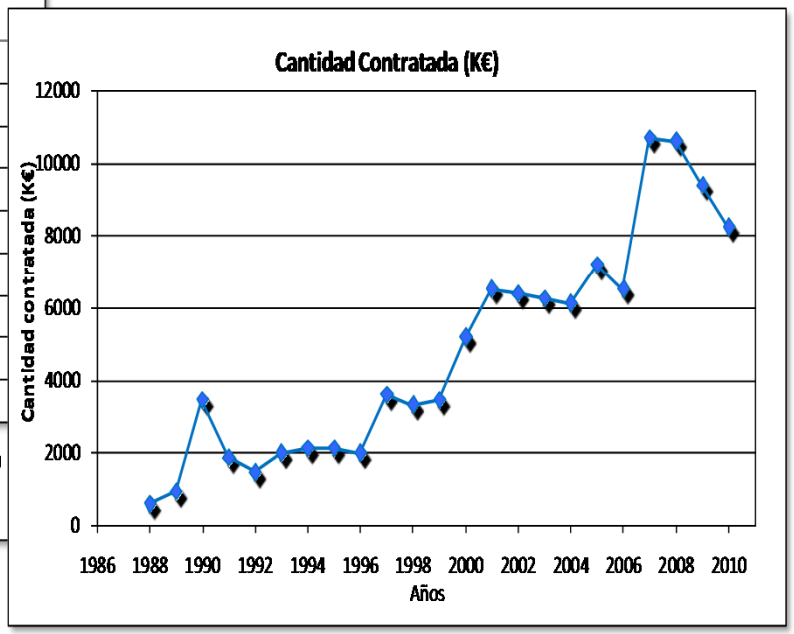
Contract Types



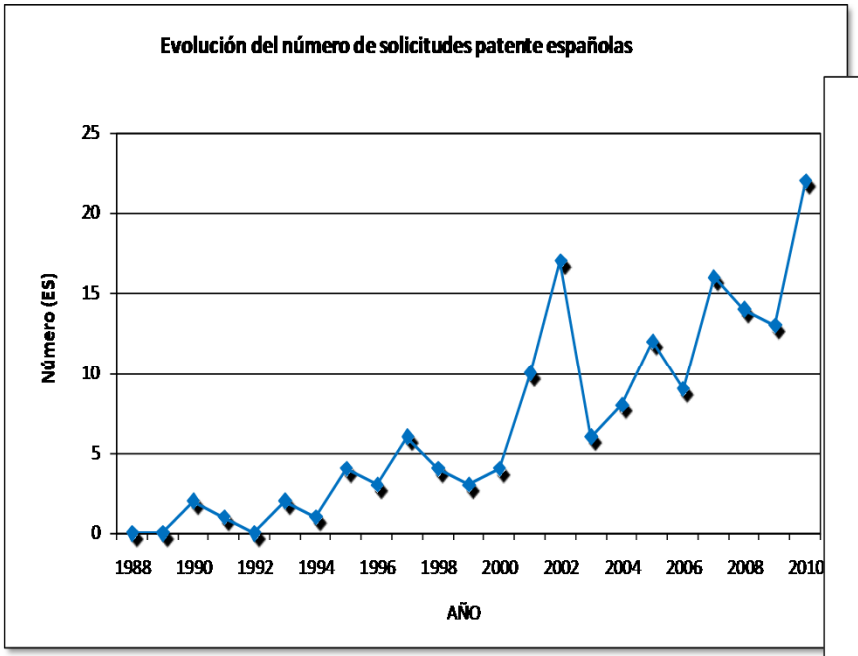
- Frame Agreement for Collaboration
- Research and Development and Innovation Projects
- Technical Support
- Execution of Patent Licensing

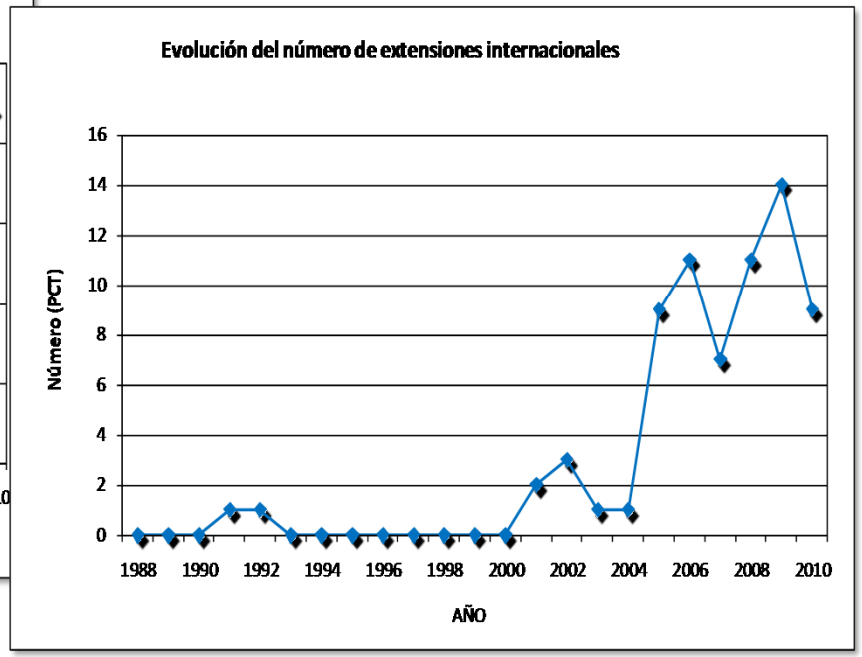
Contracts Art. 83





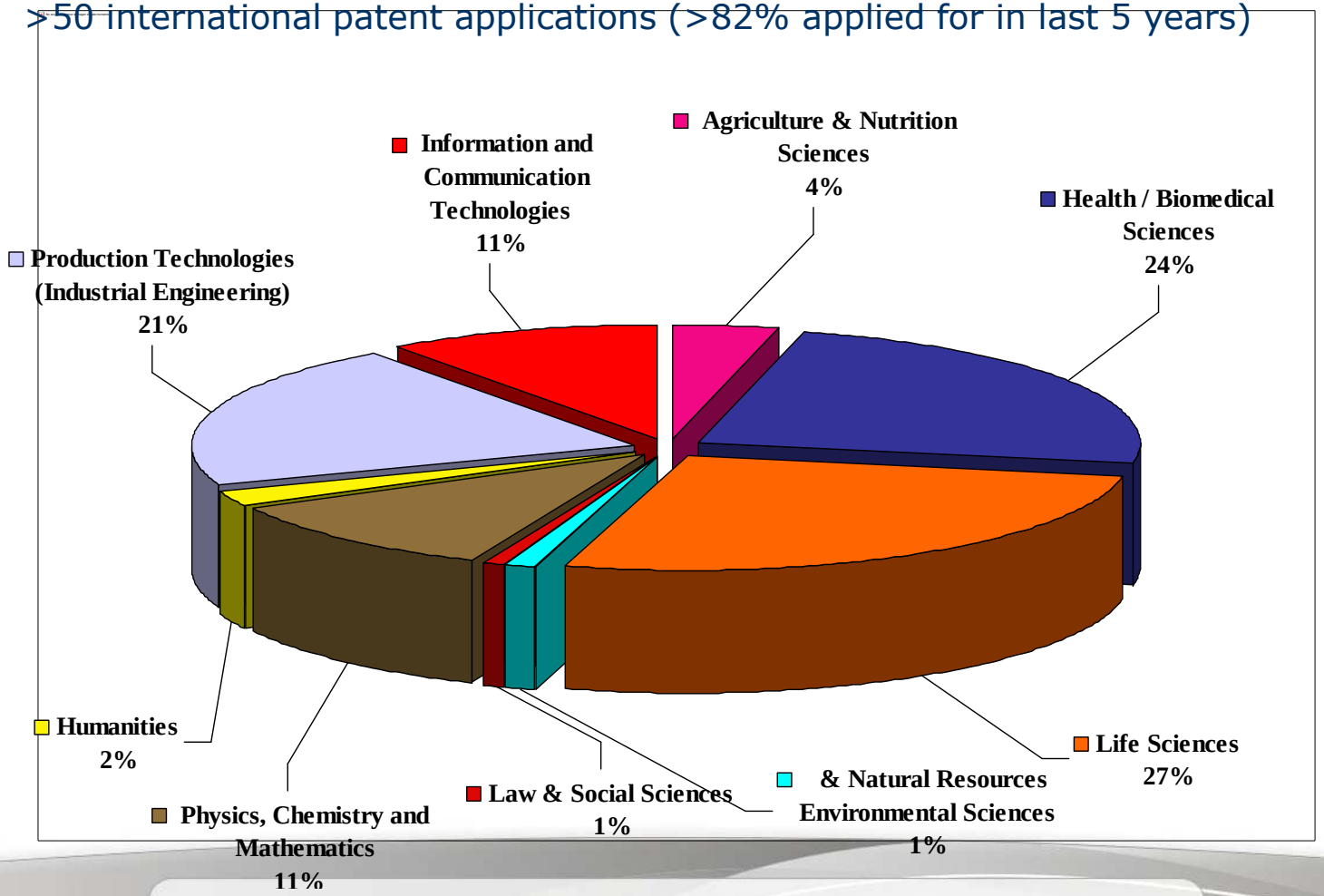
Patents at the University of Málaga





Patents distribution by research areas

- >150 national patent applications (>56% applied for in last 5 years)
- >50 international patent applications (>82% applied for in last 5 years)



Services offered to the researchers by the European Project Office

1. **Promotion of participation**
   - Information service
   - Training service

2. **Project Management**
   - Consulting services
   - Management reports
   - Incidents processing of running projects

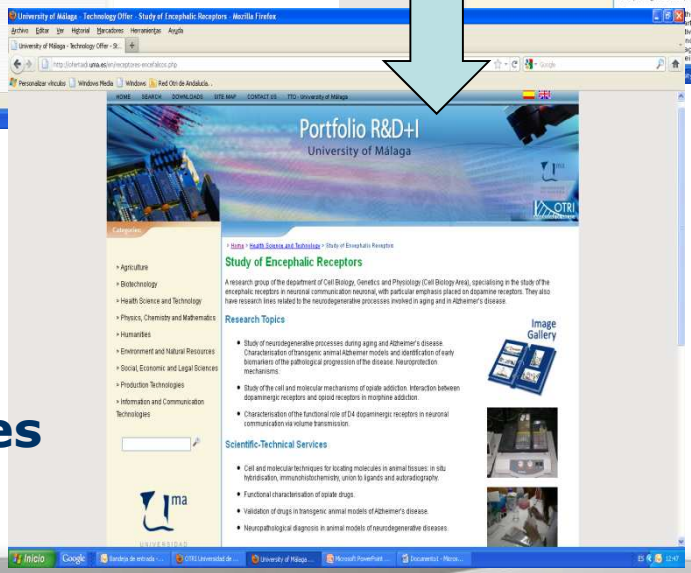
European Funds

V European Frame Programm (Period 1998-2002)		
FP Projects	8	
Other Projects	13	
TOTAL (€)		**2.271435,78€**
VI European Frame Programm (Period 2003-2006)		
FP Projects	22	
Other Projects	6	
TOTAL (€)		**5.304572,44€**
VII European Frame Programm (Period 2007-20)		
FP Projects	21	
Other Projects	8	
TOTAL (€)		**8.932.964,21€**

VII European Frame Programm (Period 2010-today)		
Financed Projects	13	3.800.181,21€

www.otri.uma.es

www.ofertaidi.uma.es



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Portfolio R&D – Research Groups

CTS161.pdf - Adobe Acrobat Professional

GRUPOS DE INVESTIGACIÓN DE LA UMA

INVESTIGACIÓN DE RECEPTORES ENCEFÁLICOS

DATOS

INVESTIGADORA RESPONSABLE
Dra. Dª. Adelaida de la Calle Martín

REFERENCIA PAI
CTS161

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DIRECCIÓN: Facultad de Ciencias. Campus Teatinos, s/n. 29071 - Málaga

MÁS INFORMACIÓN
Dpto. Biología Celular, Genética y Fisiología

PRESENTACIÓN

Grupo de investigación del Departamento de Biología Celular, Genética y Fisiología (área de Biología Celular), dedicado al estudio de los receptores encefálicos en la comunicación neuronal, con especial dedicación a la investigación de los receptores de dopamina. También tienen líneas de investigación relacionadas con los procesos neurodegenerativos involucrados en el envejecimiento y la enfermedad de Alzheimer.

LÍNEAS DE INVESTIGACIÓN

- Estudio de los procesos neurodegenerativos durante el envejecimiento y la enfermedad de Alzheimer. Caracterización de modelos animales transgénicos de Alzheimer e identificación de biomarcadores tempranos de la progresión patológica de la enfermedad. Mecanismos de neuroprotección.
- Estudio de los mecanismos celulares y moleculares de la adicción de opiáceos. Interacción entre receptores dopaminérgicos y receptores opioides en la adicción a la morfina.
- Caracterización del papel funcional de los receptores dopaminérgicos D4 en la comunicación neuronal a través de transmisión en volumen.

SERVICIOS CIENTÍFICO-TÉCNICOS

- Técnicas celulares y moleculares para la localización de moléculas en tejidos animales: hibridación in situ, inmunohistoquímica, unión a ligandos y autorradiografía.
- Caracterización funcional de fármacos opiáceos.
- Validación de fármacos en modelos animales transgénicos de la enfermedad de Alzheimer.
- Diagnóstico neuropatológico de modelos animales de enfermedades neurodegenerativas.

RESEARCH GROUPS AT THE UNIVERSITY OF MALAGA

INTRODUCTION

A research group of the Department of Cell Biology, Genetics and Physiology (Cell Biology Area), specialising in the study of the encephalic receptors in neuronal communication neuronal, with particular emphasis placed on dopamine receptors. They also have research lines related to the neurodegenerative processes involved in aging and in Alzheimer's disease.

RESEARCH TOPICS

- Study of neurodegenerative processes during aging and Alzheimer's disease. Characterisation of transgenic animal Alzheimer models and identification of early biomarkers of the pathological progression of the disease. Neuroprotection mechanisms.
- Study of the cell and molecular mechanisms of opiate addiction. Interaction between dopaminergic receptors and opioid receptors in morphine addiction.
- Characterisation of the functional role of D4 dopaminergic receptors in neuronal communication via volume transmission.

SCIENTIFIC-TECHNICAL SERVICES

- Cell and molecular techniques for locating molecules in animal tissues: in situ hybridisation, immunohistochemistry, union to ligands and autoradiography.
- Functional characterisation of opiate drugs.
- Validation of drugs in transgenic animal models of Alzheimer's disease.
- Neuropathological diagnosis in animal models of neurodegenerative diseases.

UNIVERSIDAD DE MÁLAGA

Vicerrectorado de Investigación

Thanks for your attention!

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Technology Transfer Manager
yamina@uma.es