SUCCESS STORIES

CAPSA
Leading company in the national dairy sector and the first Spanish dairy company to be awarded the AENOR Healthy Workplace Certification. The company produces milk, rendered dairy products, cream, cheeses and yoghurts.
Leadership in innovation is one of its cornerstones, working alongside other leading companies, universities and bodies to support R&D&I in projects with objectives such as discovering food products that may reduce the risk of chronic pathologies from middle age, and studying factors which influence human microbiota and its role in obesity and associated disorders.

BAYER
Multinational producer of raw materials for the pharmaceutical sector. The Bayer acetylsalicylic acid plant in Asturias is where 100% of the active ingredient for Aspirin is produced. Some 200 million units of aspirin are consumed around the world each day. Additionally, and as a result of high levels of competitiveness, experience and quality, the Bayer plant in Asturias plans to take on the worldwide production of an active ingredient for an anti-parasitic drug for pets.

IMOMA
The IMOMA is a public initiative by Corporación Masaveu, Cajastur and Medicina Asturiana to fight against cancer. Its care activities are based around three cornerstones: coordinated, relevant and personal attention towards patients, the integration of molecular biology advances in clinical protocol, and backing the very latest generation radiotherapy.

OPHTHALMOLOGY INSTITUTE FERNÁNDEZ-VEGA
The Fernández-Vega Ophthalmology Institute undertakes specialised care activity in the field of Ophthalmology, attending around 100,000 patients annually, of which some 65,000 are from outside Asturias.
Alongside this activity it carries out clinical research to assess results, with a view to continuously improve and incorporate new medical-surgical treatments, improving traditional services and offering new products in the fields of ophthalmology and vision sciences, based on its R&D&I projects.

BAYER
IMOMA
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The medicine and bio-saludary industries are strategic sectors in Asturias. With the drive of infrastructures such as the Central University Hospital of Asturias (HUCA), support for R&D projects from the University of Oviedo and the notable innovative activities undertaken by the Fernández-Vega Ophthalmology Institute, Asturias demonstrates its marked support for the development of biotechnology, bio-information and biomedicine.

**Million euros**

Sanitary transportation, electrical supply, etc. products, but also generalised service companies such as surveillance, cleaning, the hotel industry, employment positions and almost 38% of the regional budget. The SESPA is linked to over 250 companies.

**2015**

1,433

Jobs

Regional budget

250 companies

Connected to over 250 companies from various sectors

**IO PEDIATRICAL RESEARCH FOUNDATION**

Sponsored by the Fernández-Vega Ophthalmology Institute, the FIOCU develops translational research in the ocular and cornea area, the genetics of ocular diseases and ocular neurology with top-level international professionals.

**THE UNIVERSITY OF OVIEDO**

Education in Biosciences and Health at the University of Oviedo is among the most prestigious in Spain and houses numerous researches related to bio-technology, innovative activities undertaken by the Fernández-Vega Ophthalmology Institute, the UJCR (University Institute of Oncology of the Principality of Asturias) and the UJCR-IBERD (University Institute of Neurosciences of the Principality of Asturias).

The Cluster of Health and Health Business (CHAC), a project of the government of the Principality of Asturias, STAMAR-CEPE (University Institute of Biotechnology), the UJCR (University Institute of Oncology of the Principality of Asturias) and the UJCR-IBERD (University Institute of Neurosciences of the Principality of Asturias); its strategic lines are: bio-information and biomedicine. Asturias demonstrates its marked support for the development of biotechnology, bio-information and biomedicine.

**INNOVATION & TECHNOLOGY**

**THE HEALTHCARE SECTOR IN ASTURIAS**

The HUCA Central University Hospital of Asturias The HUCA was created in 1989 through an agreement between the Autonomous government and the National Health Service that regulates the management of the public healthcare, the Hospital疑问 examines the 日本問題, the Instituto National de la Salud Carlos III, which also forms part of the European biomedical R&D network. Biobanking and Biomedicine Research Infrastructure

**Bio-printing**

The Biobanco has over 60,000 human biological samples available to be used in research projects. The Bio-printing, a technological production and industrial Design Centre (PICONTEC) is a benchmark in the sector of additive technologies. The Biobanco is currently participating in the European Observatory on Health Bio-technology.

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OPHTHALMOLOGY INSTITUTE FERNÁNDEZ-VEGA
The Fernández-Vega Ophthalmology Institute undertakes specialised care activity in the field of Ophthalmology, operating around 120,000 patients annually, of which some 80,000 are from outside Asturias. Alongside this activity, it carries out clinical research to assess results, with a view to continuously improve and incorporate new medical-surgical treatments, improving traditional services and offering new products in the fields of ophthalmology and vision sciences, based on its R&D&I projects.
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Tel.: +34 985 980 020 Fax: +34 985 264 455 E-mail: investinasturias@idepa.es
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Million euros

sanitary transportation, electrical supply, etc.

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Budget

2015

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HEALTHCARE

THE

Jobs

16,000

Regional budget

36 %

Connected to over 220 companies from various sectors

Financing

250

The Principle of Asturias Health Service (SESPA), with a budget of 1,400 million euros a year in 2015, represents one of the key ‘companies’ in the Asturian Community, with 16,000 direct employment positions and at least 5,900 in the regional budget. The SESPA is linked to over 220 companies in diverse production sectors with a turnover figure of over 400 million euros. Among them are companies from the healthcare sector, for the direct purchase of sanitary and medication products, but also generalised service companies such as surveillance, cleaning, the hotel industry, sanitary transportation, electricity supply, etc.

THE UNIVERSITY OF OVIEDO

Education in Biomedicine and Health at the University of Oviedo is among the most prestigious in Spain and houses numerous research related to bio-technology, in particular at the University of Oviedo Institute of Bio- Technology, the UOR (University Institute of Oncology of the Principality of Asturias) and the IUOPA (University Institute of Ophthalmology of the Principality of Asturias).

The Cluster of Biomedicine and Health, Lange together over 75 groups that work at the forefront of current knowledge, focusing basic lines of research:

- Genomics and personalized related to cancer and ageing
- Brain development and degeneration
- Biomarker and the development of drugs
- Regenerative medicine, transplants and implants
- Research in food production and food technology

Darwinian Bio-technology, are the:

i) Biotechnology and Bio-analytical Sciences
ii) Biomedicine and the development of drugs
iii) Regenerative medicine, transplants and implants

Four degrees related to the field of health are outstanding:

Master’s Degree Bio-technology

Master’s Degree Biology and Reproductive Technology

Master’s Degree in Chemistry and Sustainable Development

The objective is to use the same additive manufacturing technologies for the production of human tissue and organs.

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EDUCATION

The University of Oviedo, with 17,000 registered students, is one of the 15% with technical degrees, completes the technical qualification of the Asturian workforce, combining theoretical training with work experience undertaken in companies.

Realisation of research projects through R&D projects through tool to roll pilot lines, thanks to over 15 years of experience in additive manufacturing technologies.

The objective is to use the same additive manufacturing technologies for the production of human tissue and organs.

CONCLUSIONS

The University of Oviedo, and its novel research centres spread throughout the different areas of knowledge. Some 15% of its over 20,000 registered students focus technical degree Bio-technology, Biomedicine, Chemistry, Physics, Mathematics, and Engineering, Research Engineering, Forestry and Natural Environment Engineering, etc.

The following University of Oviedo Master’s Degrees related to this sector are outstanding:

International Master’s Degree in Analytical and Bioanalytical Sciences

Master’s Degree in Environmental and Health Bio-technology

Master’s Degree in Food Bio-technology

Master’s Degree in Biology and Reproductive Technology

Master’s Degree in Chemistry and Sustainable Development

Bio-printing: the Asturian initiative

The Bio-ink fabricated in the Asturias Bio-ink Production and Industrial Design Centre (PRODINTEC) is benchmark in the field of additive manufacturing technologies.

PRODINTEC is a benchmark in the field of additive manufacturing technologies.

Financing

1,433

Jobs

16,000

36 %

Regional budget

250

Consecutive to over 220 companies from various sectors

The concept of biotechnology, the Asturias Bio-ink Production and Industrial Design Centre (PRODINTEC) is a benchmark in the field of additive manufacturing technologies.

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2015, has become one of the top "companies" in the Autonomous Community, with 16,000 direct

250

Connected to over 252 companies from various sectors

Million euros

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Asturias demonstrates its marked support for the development of biotechnology,

innovative activities undertaken by the Fernández-Vega Ophthalmology Institute,

has chosen

the Asturian healthcare's wealth of knowledge and promoting

research of excellence in Asturias.

The HUCA was created in 1989 through an agreement between

Research - Biomedical and Biomedical Trials Unit - Biotechnological and Biomedical Trials Unit - Research in food production and technology - Research in food production and technology

The Cluster of Biomedicine and Health, brings together over

Asturias (HUCA). Initiative led by the city council of Oviedo.

The regional government promotes these fundamental lines within the OSBA: the generation of a knowledge area about health information in Asturias; the guarantee that this information is comprehensible and that it reaches as many social representatives as possible, and finally the inclusion of health care professionals and primary community activities undertaken in the field of health that are being developed in Asturias.

It is a project undertaken in collaboration with the School of Public Health and Medicine at the University of Wisconsin, which is currently participating in the County Health ranking model in the United States.

THE UNIVERSITY OF OvIEDO

Education in Biomedics and Health at the University of Oviedo is among the most prestigious in Spain and houses numerous researches related to bio-information, technology, and medicine. At the heart of the Universidad de Oviedo Institute of Bio-Technology, the UGRO (University Institute of Oncology of the Principality of Asturias) and the UERJURO (University Institute of Neurosciences of the Principality of Asturias). The Cluster of Ophthalmology and Health - Tumour Care is the most recent initiative in this area. It is a project undertaken in collaboration with the School of Public Health and Medicine at the University of Wisconsin, which is currently participating in the County Health ranking model in the United States.

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The Principality of Asturias Healthcare Service (SESPA), with a budget of 1,433 million euros registered in bio-information and biomedicine.

SECTOR
HEALTHCARE

positions
Jobs
16,000

Regional budget
38%

250 companies
Connected to over 1000 companies

Ageing.
and Healthy
regarding Active

in innovation
Sites of Europe
Asturias as one
has chosen
Commission
Europe for active
of reference in

BUSINESS INCUBATOR FOR HEALTH SCIENCES

the Asturian healthcare's wealth of knowledge and promoting
participate either as employers or benefactors.
University of Oviedo, supported by various companies which

The organisation is

The FINBA is the body which controls the bio-medical research of excellence in Asturias. This organisation is governed by the Principality of Asturias and Asturias was supported by various companies which

FUO: FOUNDATION FOR BIOSCIENCE RESEARCH AND INNOVATION ASTURIAS

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BUSINESS INCUBATOR FOR HEALTH SCIENCES

Centre designed to accommodate RDIs in Health Sciences, very close to the Central University Hospital (CUAs), the research arm of Oviedo University.

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The Cluster of Additive Manufacturing in Asturias together with over 50 groups that work at the forefront of current knowledge, developing basic lines of research:
- Gene expression and targeted cancer and ageing
- Brain development and degeneration
- Biomimetics and the development of drugs
- Regenerative medicine, transplants and implants
- Research in food production and food technology

The scientific technical research facilities are accessible to researchers and the general public (companies and private individuals). Among these areas related to the field of health/technology are:
- Biotechnological and Biomedical Trial Unit
- Food Technology Unit
- Animal Facility and Preclinical Trials Unit
- Environmental Trials Unit

BIOPRINTING AT THE UNIVERSITARY PRODUCTION AND INDUSTRIAL DESIGN CENTRE (PRODINTEC) is a benchmark in the field of 3D bio-printing in terms of experience in R&D projects through its call to pilot line, thanks to over 15 years of experience in additive manufacturing in the technology field.

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THE UNIVERSITY OF OVIEDO

EDUCATION

The University of Oviedo has been a university admired in the European Area of Higher Education by the quality of its teaching and research in the different fields of knowledge. Some 35% of its over 20,000 regular students follow technical degrees (Biology, Biotechnology, Geology, Chemistry, Physics, Mathematics, Molecular Medicine, Psychology, and Natural Environment Engineering, etc.).

The following University of Oviedo Master’s Degrees related to the health sector are outstanding:
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Accredited Vocation Training, with 17,000 registered students in more than 30% following technical degrees, completes the technological qualification of the Asturian workforce, combining theoretical training with work experience undertaken in companies.

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