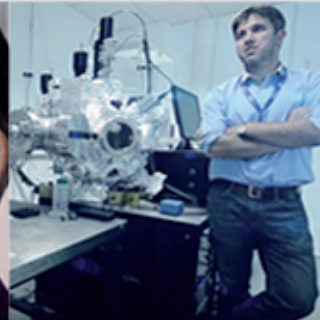
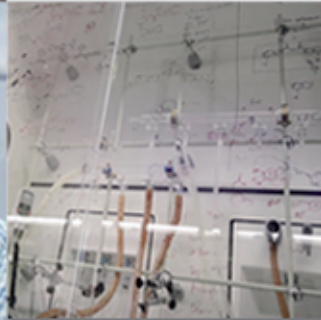




# THE VALUE OF RESEARCH

## INDICATORS DOCUMENT





## CAMPUS VIDA-USC

## THE VALUE OF RESEARCH

**Welcome to Campus Vida, the International Campus of Excellence in Life Sciences lead by the Universidade de Santiago de Compostela.**

Throughout this document, we are pleased to show you some of the figures related to what we understand as research, as well as the equipment and infrastructures that have been built to support the level of excellence together with the social and economic impact.

A collaborative ecosystem where researchers, entrepreneurs, companies and institutions work together joining forces with a common strategy that has helped us become a nationally and internationally renowned economic and social engine.

An environment of excellence with outstanding research in which talent is combined with top-class skills in addition to the valuation of research results, promoting our scientific competitiveness as well as the competitiveness of the companies that collaborate and are created in our environment.

**Our indicators endorse us and assure the profitability of sharing with us "The Value of Research".**

R&D  
EFFORT

R&D  
Internal  
Expenditure 106,093,385.00 € (\*)  
(2011)



R&D  
INVESTMENT

(\*) Source: INE (2011)



30,000 m<sup>2</sup>  
of  
Research Labs



32.4 M€  
investment  
in Scientific  
Infrastructure  
(2007-2011)



R&D  
EFFORT

R&D HR  
SUPPORT



People



1,720  
RESEARCHERS (\*)

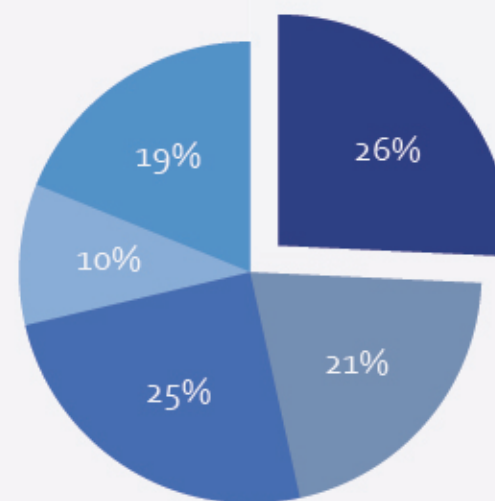
(\*) Academic Staff with  
PhD and full time contract

1,888  
SUPPORT  
STAFF (\*\*)

(\*\*) Post-doc Researchers,  
training Researchers and  
technical staff hired  
through research projects.

- Experimental Sciences (ACE)
- Health Sciences (ACS)
- Social and Legal Sciences (ACJ)
- Engineering (AIT)
- Humanities (AHU)

Distribution in  
Knowledge Areas



Gender  
distribution



49%



51%



R&D  
EFFORT

SCIENTIFIC  
PRODUCTION  
AND  
KNOWLEDGE  
GENERATION

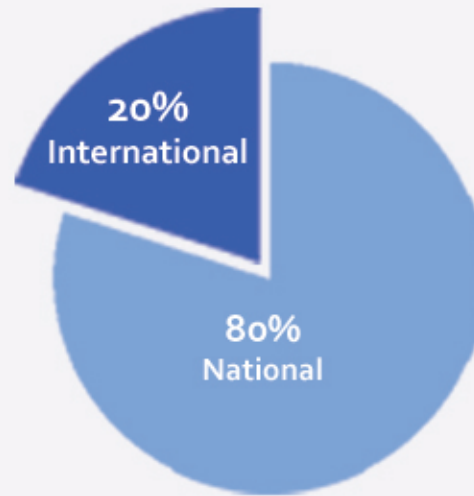
(YEAR 2011)

R&D Projects

Competitive funded  
R&D Projects (per year) **330**


  
Funding  
awarded

**36M €**



Disserted PhD Thesis



  
Generated  
knowledge

\*JCR = MAIN TOOL THAT  
PROVIDES  
INFORMATION ON THE  
IMPACT OF  
INTERNATIONAL  
PUBLICATIONS

  
45.7%  
PAPERS PUBLISHED  
IN FIRST QUARTILE  
PUBLICATIONS (%)



  
72%  
JCR ARTICLES\*

  
45%  
INTERNATIONAL  
COLLABORATION  
ARTICLES

[www.usc.es](http://www.usc.es)  
[www.campusvida.info](http://www.campusvida.info)

**7.74**  
AVERAGE NUMBER OF  
CITATIONS PER ARTICLE

**52,395**  
TOTAL CITATIONS  
(BY YEAR)

## R&D EFFORT

### SOME OF OUR SPECIALISED CENTRES



#### Biomedicine

- MOLECULAR MEDICINE AND CHRONIC DISEASES RESEARCH CENTRE (CIMUS)
- BIOLOGICAL CHEMISTRY AND MOLECULAR MATERIALS RESEARCH CENTRE (CIQUS)
- HEALTH RESEARCH INSTITUTE (USC-SERGAS)
- FORENSIC SCIENCE INSTITUTE
- MEDICINES DEVELOPMENT MIX UNIT USC-ESTEVE
- ESCHERICHIA COLI NATIONAL REFERENCE LABORATORY (LREC)
- NATIONAL CENTRE FOR GENOTYPING (NODO)
- .../...



#### ICT, Engineering and Industrial Applications

- INFORMATION TECHNOLOGY RESEARCH CENTRE (CITIUS)
- CERAMIC INSTITUTE
- GALICIAN INSTITUTE OF HIGH-ENERGY PHYSICS
- INDUSTRIAL MATHEMATICS TECHNOLOGICAL INSTITUTE
- .../...



#### Nutrition and Environment

- NUTRITIONAL RESEARCH AND ANALYSIS INSTITUTE
- AQUICULTURE INSTITUTE
- DAIRY PRODUCTS INSTITUTE
- AGRICULTURAL BIODIVERSITY AND RURAL DEVELOPMENT INSTITUTE
- WATER TECHNOLOGY CENTRE (CETAQUA)
- .../...



#### Humanities and Social Sciences

- GALICIAN STUDIES AND DEVELOPMENT INSTITUTE
- INDUSTRIAL LAW INSTITUTE
- GALICIAN LANGUAGE INSTITUTE
- EDUCATIONAL SCIENCE INSTITUTE
- CENTRE FOR HISTORICAL STUDIES OF THE CITY
- CENTRE FOR TOURISM STUDIES AND RESEARCH
- CENTRE FOR FILM STUDIES
- RESEARCH CENTRE FOR EMERGING CULTURAL PROCESSES AND PRACTICES
- GUMERSINDO BUSTO INTERDISCIPLINARY CENTRE FOR AMERICAN STUDIES
- INTERDISCIPLINARY CENTRE FOR FEMINIST RESEARCH AND GENDER STUDIES
- .../...

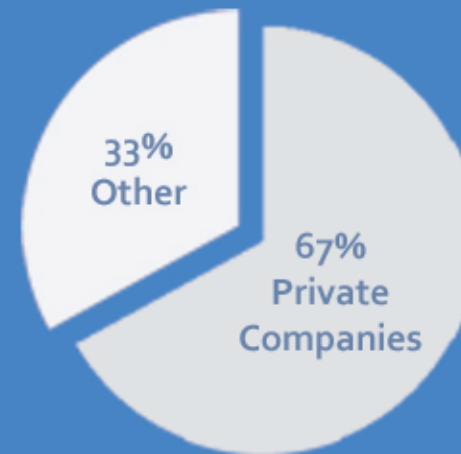
RESULTS  
AND IMPACT

OPEN  
INNOVATION  
ACTIONS AND  
COMPANY  
COLLABORATIONS

R&D Contracts Invoicing  
(2011)



14,168,000 €



> 400  
Clients with  
more  
than one  
contract



280

R&D Contracts and Services  
awarded (per year)

## EMPRESAS



FOUNDATIONS  
AND PUBLIC  
ADMINISTRATION  
BODIES

RESULTS  
AND IMPACT

SOME OF OUR  
CLIENTS AND  
PARTNERS



### Pharmaceutical

- LABORATORIOS DE DR. ESTEVE, S.A.
- ALMIRALL PRODESFARMA, S.A.
- ASTRAZENECA FARMACEUTICA SPAIN, S.A.
- BAYER HISPANIA, S.L.U.
- FAES FARMA, S.A.
- GENZIME, S.L.
- NOVARTIS FARMACEUTICA, S.A.
- PFIZER, S.A.
- PHARMAMAR
- SCHERING-PLOUGH, S.A.
- BOIRON, S.A.
- FATRO URIACH VETERINARIA, S.L.
- QUIMICA FARMACEUTICA BAYER, S.L.
- .../...



### Energy

- ENDESA GENERACION, S.A.
- ABENGOA BIOENERGIA NUEVAS TECNOLOGIAS, S.A.
- LIGNITOS DE MEIRAMA, S.A.
- GAS NATURAL-UNION FENOSA, S.A.
- EUFER RENOVABLES IBERICAS, S.A.
- ENERXIAS RENOVABLES DE GALICIA, S.A.
- BIOETANOL GALICIA, S.A.
- ALGAENERGY, S.A.
- PARQUE EOLICO DE VICEDO, S.L.
- .../...



### Nutrition

- PESCANOVA, S.A.
- CLESA, S.L.
- FEIRACO S. COOP. LTDA
- HIJOS DE RIVERA, S.A.
- INGAPAN, S.L.
- JEALSA RIANXEIRA, S.A.
- PORTO MUIÑOS
- PULEVA FOOD, S.L.
- SHIROTA FUNCTIONAL FOODS, S.L.
- QUESERIAS ENTREPINARES, S.A.
- SAN MIGUEL, FABRICAS DE CERVEZA Y MALTA, S.A.
- VEGENAT, S.A.
- .../...



### Engineering and Telecommunications

- INDRA SISTEMAS, S.A.
- TELEVES, S.A.
- LEVEL TELECOM, S.L.
- HEWLETT-PACKARD ESPAÑOLA, S.L.
- FACTORIA DE SOFTWARE E MULTIMEDIA, S.L.
- EPTISA SERVICIOS DE INGENIERIA, S.A.
- AVA SOLUCIONES TECNOLOGICAS, S.L.
- ALTAIR INGENIERIA Y APLICACIONES, S.A.
- HISPANICA DE AVIACION, S.A.
- IBM DEUTSCHLAND ENTWICKLUNG GMBH
- NOVOTEC CONSULTORES, S.A.
- SOLUZIONA INGENIERIA GENERAL, S.L.
- .../...



### Other

- INDITEX, S.A.
- EROSKI, S.COOP.
- FINANCIERA MADERERA, S.A. (FINSA)
- SIEMENS MEDICAL SOLUTIONS USA, INC
- TETRA-PAK HISPANIA, S.A.
- PLANTALIA NATURAL, S.A.
- ORYZON GENOMICS, S.A.
- NUTER FEED, S.A.U.
- ORONA, S. COOP.
- MEDIAPRODUCCION, S.L.
- J & A GARRIGUES, S.L.
- FORESA, INDUSTRIAS QUÍMICAS DEL NOROESTE, S.A.
- .../...



RESULTS  
AND IMPACT

  
Value

75%  
Annual increase  
in transfer contacts  
and licences

INVESTMENT



IN VALUATION  
PROJECTS

UNIRISCO  
(Venture Capital  
group where  
USC is a member)

VALUATION  
OF RESULTS (\*)



Place in patent  
applications nationwide

70%  
National  
Patents

45  
Patent  
applications

11  
Licences  
and  
First-look deals

(\*) Average annual figures for  
the period 2009-2011

INTERNAL  
FUND  
(PROOF OF CONCEPT)

200,000  
€/year

PRIVATE  
INVESTMENT  
FUNDS

Fundación Barrié  
F. Marcelino Botín  
.../...



Companies  
created

5<sup>TH</sup>

University in Spain in number of  
Spin-offs created.



> 400  
Jobs  
created

Invoicing > 10Million  
€/year



Valuation  
Spin-offs (total)

> 20Million €

RESULTS  
AND IMPACT

SPIN-OFFS



RESULTS AND IMPACT



Entrepreneurship



Agrifood



Agrifood



Aquaculture



New materials



Environmental consulting

SOME OF OUR SPIN-OFFS\*



Biotechnology



Multimedia and virtual reality



New materials



Biotechnology



Environment



Biocomputing



Language engineering



New materials



Aquaculture



Internet solutions



Biocomputing



Biotechnology

**RESULTS  
AND IMPACT**

**INTERNATIONAL  
COLLABORATORS**



**750**  
Active  
Agreements



**52**  
International  
R&D Projects

**200**  
institutional and  
private industry  
partners





# THE VALUE OF RESEARCH

## INDICATORS DOCUMENT

