

CSIC

Consejo Superior de
Investigaciones Científicas

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Introduction



Rafael Rodrigo
President of the CSIC

“Our mission is to generate and transfer knowledge to society”

The Spanish National Research Council (CSIC) continues working to achieve the quality science and technological development that Spain deserves.

The year 2010 saw the start of the new Action Plan 2010-13 which, like the previous Action Plan 2006-09, was fully assessed by scientists external to the institution. This time round the Action Plan includes all CSIC functional units, this being the first time it caters for a research institution with such characteristics. Furthermore, the new Action Plan includes novel elements designed to measure the achievement of objectives, such as the quality of publications, science communications and internationalization.

Within this scenario of achieving goals, which places greater emphasis on the attainment of results, our activity in scientific-technical fields rose for all performance indicators, attaining even higher values than expected. This reflects the fact that investment in research over the past years has paid off, as well as the willing endeavour of our researchers.

An institution like the CSIC, which encompasses over 130 centres and institutes, is bound to make a significant contribution to the advancement of science and to play a role in activities of both national and international relevance. Accordingly, the CSIC participates in nineteen Spanish University Campuses of International Excellence as sponsoring partner / collaborator. This verifies that our cooperation with universities is moving in the right direction, attaining actual integration and excellence.

Our century-old institution harbours a workforce committed to science, who believes in the value of continued investment in generating knowledge and transferring know-how to society, as this is a driving force of development.

Presentation

The State Agency CSIC (National Research Council) comprises 136 Centres and Institutes, which are located throughout the Autonomous Regions of Spain, apart from one based in Rome. Of these, 75 belong to the CSIC alone while 53 are joint centres, and eight are service centres (which account for several Institutes). It manages eight Singular Science and Technology Infrastructures (ICTs), including the Antarctic Research Station Juan Carlos I, the research vessels Hespérides and Sarmiento de Gamboa, the Microelectronics clean-room and the Reserva-Estación Biológica de Doñana (Doñana Biological Station).

Multidisciplinary scientific and technical research

Scientific and technical advice

Transferring research outputs to business

Contributing to the creation of technology-driven companies

Training specialised personnel

Managing infrastructure and large facilities

Promoting scientific culture

136

Research centres and institutes

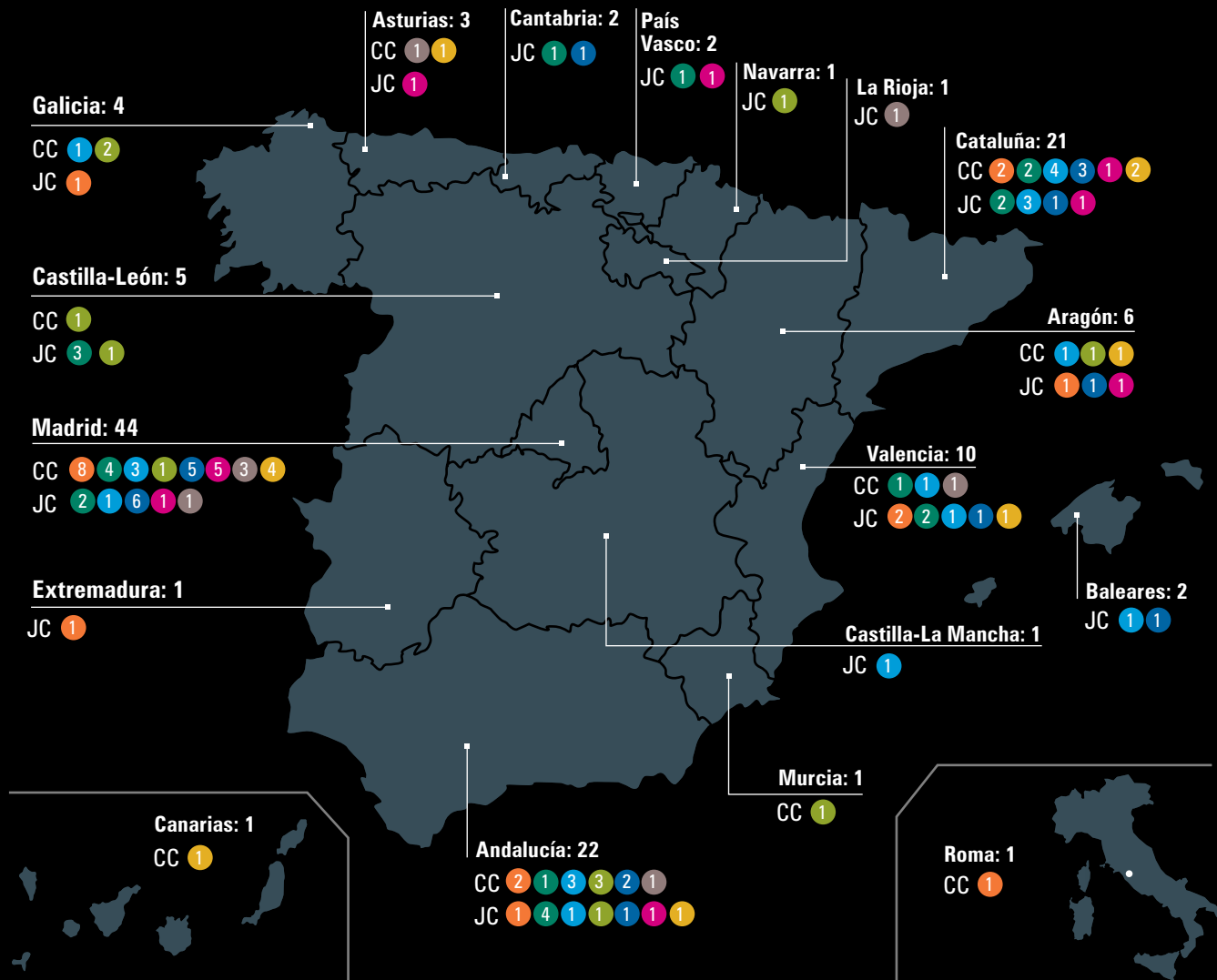
CSIC-only Centres 75

Joint Centres 53

Service Centres 8

are located throughout the Autonomous Regions of Spain, apart from one based in Rome.

- AREA 1: Humanities and Social Sciences
- AREA 2: Biology and Biomedicine
- AREA 3: Natural Resources
- AREA 4: Agricultural Sciences
- AREA 5: Physical Science and Technology
- AREA 6: Materials Science and Technology
- AREA 7: Food Science and Technology
- AREA 8: Chemical Science and Technologies



CC: CSIC-only Centres

JC: Joint Centres

Human resources

14,144 People work at the CSIC



Women and Science

The Gender Equality in Scientific Careers Plan and the CSIC's Women and Science Committee promote equality of opportunity between men and women.

4,382

Scientist
Doctors

3,116

Trainee
researchers



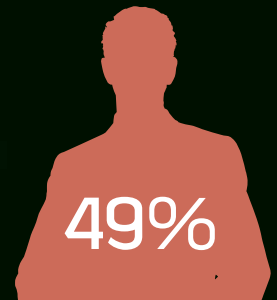
96

Postgraduate and
specialisation courses



7,246

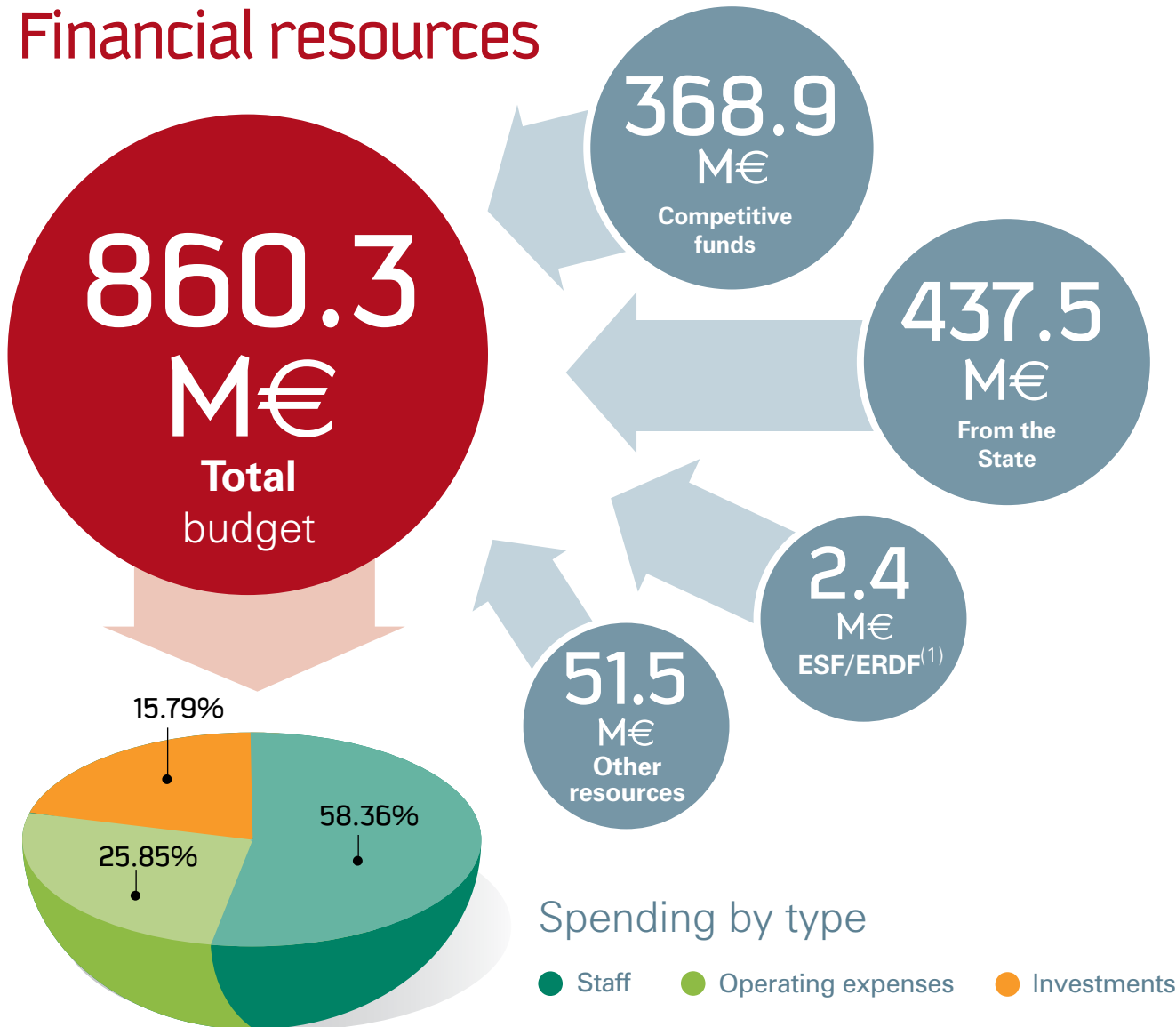
Women



6,898

Men

Financial resources



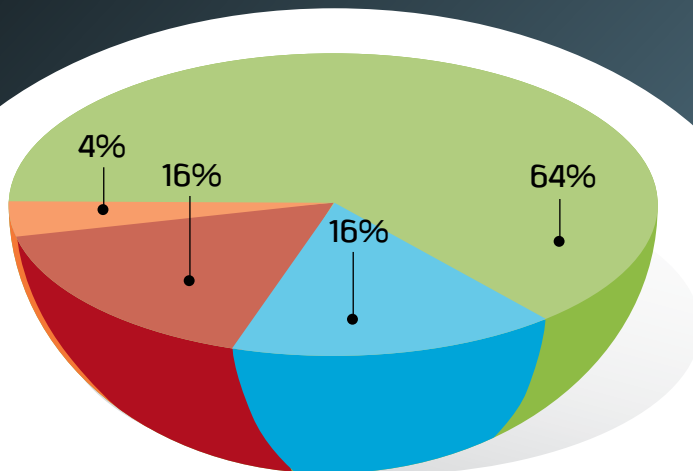
(1) ESF: European Social Fund. ERDF: European Regional Development Fund.

Research projects

2,640

Research projects

in all areas of knowledge with funding of 461.8 million euros



● 93

funded by the Health-care Research Fund

17.8 M€

● 432

funded by the European Union

107.3 M€

● 433

funded by the Autonomous Regions

58.7 M€

● 1,682

funded by national R&D programmes

278 M€

Scientific output

9,899 ISI/SCOPUS papers

1,069 No ISI/SCOPUS papers

270 Books

749 Doctoral theses

175 Patents



European projects

80

Projects funded by the **6th Framework Programme**

← 31.4 M€

282

Projects funded by the **7th Framework Programme**

← 85.2 M€

70

Projects funded by **other European programmes**

← 19 M€



Knowledge transfer

3,099

contracts and agreements with companies and institutions, with funding of

78.6 M€

175 Spanish patent applications

130 International patent applications

54 Exploitation licence contracts

Communication

29,312

Mentions on the Internet

Social media

Follow us:



11,065 Mentions in the press

558 Radio appearances

445 Television appearances

Scientific culture

Celebrations

International year of biodiversity

100th anniversary of jae centres

International women's day

Preparations for the international year of chemistry 2011

The Malaspina Expedition

Expedition 2010-2011 of the research vessels hesperides and sarmiento de gamboa

Conferences, website, exhibitions

Preparations for the 2012 universal expo in Yeosu

Movilab

Travelling laboratory to popularise science

Internationalisation

Comscience events at the museum of natural history

Scientific dissemination debating groups

Latin american states cooperation organization

Popular science publications

Fotciencia competition (csic-fecyt)

(photography competition)

Ibercivis

Distributed computing platform

International science race

Science and technology week

Science fairs

Science weekend in the MUNCYT

Madrid book fair

Murcia science fair
Empírika

Science Education and Teaching

The csic goes to school

Estalmat

Internal training courses (science popularisation and communication)

Dissemination course (advances in chemistry and impact on society)

Publications

12,000

in the publications collection



126 Titles published in paper format

54 Titles published in electronic format

120 Total collections

76 Live collections

36 Journals, which can be consulted online at:

<http://revistas.csic.es/index.html>

Library network

78

3

Databases of bibliographical records prepared in-house (ICYT, ISOC, IME)

28,800

Digital documents available for open access at Digital. CSIC, the institutional repository which keeps an archive of the intellectual output of the CSIC's research activity.

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Scientific Areas



CSIC

Scientific Areas

The CSIC is a multidisciplinary organisation, covering the whole range of fields of knowledge, from basic research through to the most advanced technology development. It is organised into eight Scientific/Technical Areas.

AREA
1

Humanities
and Social Science

AREA
2

Biology and
Biomedicine

AREA
3

Natural
Resources

AREA
4

Agricultural
Sciences

AREA
5

Physical Science
and Technology

AREA
6

Materials Science
and Technology

AREA
7

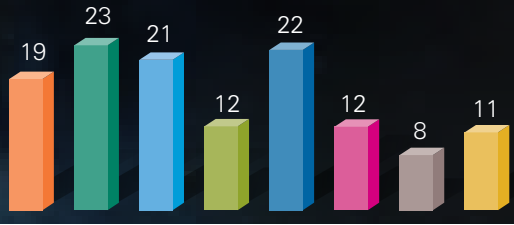
Food Science
and Technology

AREA
8

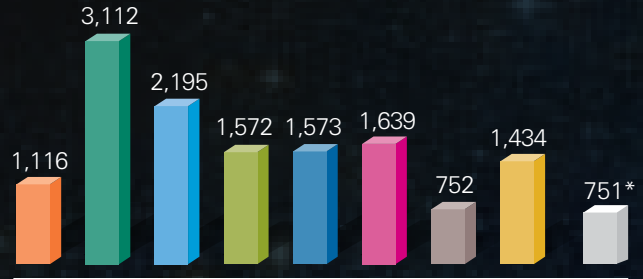
Chemical Science
and Technologies



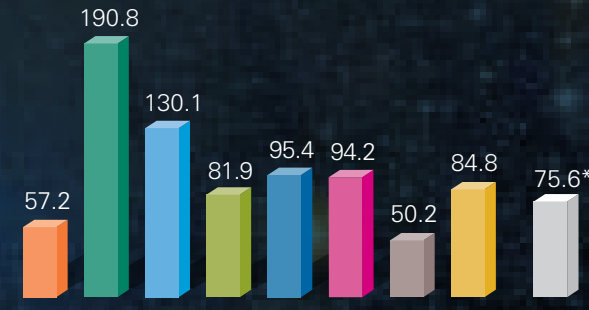
128 Institutes



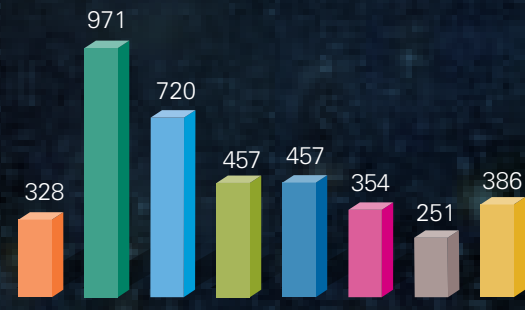
14,144 People



860.3 M€
Expenditures



3,924
International and national
research project/actions



* General administration and other expenses

AREA 1 | Humanities and Social Science



19

Institutes



1,116

People



57.2 M€

Expenditure



328

International and national research projects/actions funded, at a total cost of

24.3 M€

Scientific output

SCI/SSCI papers	333
Non-SCI/SSCI papers	415
Books	152
Doctoral theses	46
Patents	1

Knowledge transfer

137 contracts and agreements with companies and institutions, with annual funding of **5.6 million euros**.

Lines of research

Anthropology, political science, economics, philosophy, geography, history, linguistics and sociology.

AREA 2 | Biology and Biomedicine



23

Institutes



3,112

People



190.8 M€

Expenditure



971

International and national research projects/actions funded, at a total cost of

178.1 M€

Scientific output

SCI/SSCI papers	1,692
Non-SCI/SSCI papers	58
Books	5
Doctoral theses	197
Patents	36

Knowledge transfer

607 contracts and agreements with companies and institutions, with annual funding of **16.7 million euros**.

Lines of research

Structural biology, biotechnology, the molecular and cellular basis of cancer, developmental biology, plant biology, physiopathology, functional genomics and genetics, microbiology and virology, immunology, neurobiology.

AREA 3 | Natural Resources



21

Institutes



2,195

People



130.1 M€

Expenditure



720

International and national research projects/actions funded, at a total cost of

87.2 M€

Scientific output

SCI/SSCI papers	1,760
Non-SCI/SSCI papers	260
Books	41
Doctoral theses	110
Patents	8

Knowledge transfer

362 contracts and agreements with companies and institutions, with annual funding of **13.3 million euros**.

Lines of research

Biology of organisms and terrestrial systems, sciences of the earth and atmosphere, marine sciences and aquaculture, and global change.

AREA 4 | Agricultural Sciences



12

Institutes



1,572

People



81.9 M€

Expenditure



457

International and national research projects/actions funded, at a total cost of

48.7 M€

Scientific output

SCI/SSCI papers	795
Non-SCI/SSCI papers	64
Books	8
Doctoral theses	66
Patents	13

Knowledge transfer

321 contracts and agreements with companies and institutions, with annual funding of **6.0 million euros**.

Lines of research

Water in agriculture, soil quality and organic material, plant nutrition, photosynthesis, fruit growing and forestry, genetic enhancement, plant pathology and stock rearing.

AREA 5 | Physical Science and Technology



22

Institutes



1,573

People



95.4 M€

Expenditure



457

International and national research projects/actions funded, at a total cost of

87.7 M€

Scientific output

SCI/SSCI papers	1,930
Non-SCI/SSCI papers	138
Books	30
Doctoral theses	118
Patents	26

Knowledge transfer

254 contracts and agreements with companies and institutions, with annual funding of **7.4 million euros**.

Lines of research

Astrophysics, atomic and molecular physics, particle physics, nuclear physics, optics, mathematics, nano-science and nanotechnology, physical technologies, computational sciences, complex systems, integrated micro and nano systems.

AREA 6 | Materials Science and Technology



12

Institutes



1,639

People



94.2 M€

Expenditure



354

International and national research projects/actions funded, at a total cost of

52.1 M€

Scientific output

SCI/SSCI papers	1,661
Non-SCI/SSCI papers	61
Books	20
Doctoral theses	91
Patents	26

Knowledge transfer

710 contracts and agreements with companies and institutions, with annual funding of **12.1 million euros**.

Lines of research

Functional and multifunctional materials; structural materials for sectors of high industrial interest; materials and engineering for construction; theory and engineering of materials: design, modelling and simulation; new methods of synthesis and processing; properties of materials on the nanometric scale.

AREA 7 | Food Science and Technology



8

Institutes



752

People



50.2 M€

Expenditure



251

International and national research projects/actions funded, at a total cost of

24.7 M€

Scientific output

SCI/SSCI papers	560
Non-SCI/SSCI papers	15
Books	8
Doctoral theses	39
Patents	20

Knowledge transfer

274 contracts and agreements with companies and institutions, with annual funding of **4.1 million euros**.

Lines of research

Food quality and safety, development of new food production and conservation techniques, development of new active packaging and products, biotechnology of edible plants and micro-organisms of nutritional interest, and production of functional ingredients and foods.

AREA 8 | Chemical Science and Technologies



11

Institutes



1,434

People



84.8 M€

Expenditure



386

International and national research projects/actions funded, at a total cost of

50.6 M€

Scientific output

SCI/SSCI papers	1,168
Non-SCI/SSCI papers	58
Books	6
Doctoral theses	82
Patents	45

Knowledge transfer

373 contracts and agreements with companies and institutions, with annual funding of **12.1 million euros**.

Lines of research

Chemical synthesis, biological chemistry and medical chemistry, environmental chemistry and technology, organo-metallic chemistry, catalysis, physical chemistry, chemistry of materials and nanotechnology.

www.csic.es/web/guest/memorias

Consejo Superior de Investigaciones Científicas
Serrano, 117. 28006 Madrid. E-28006 (ESPAÑA).

TEL: +34 91 568 14 00. FAX: +34 91 411 30 77





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E INNOVACIÓN



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