

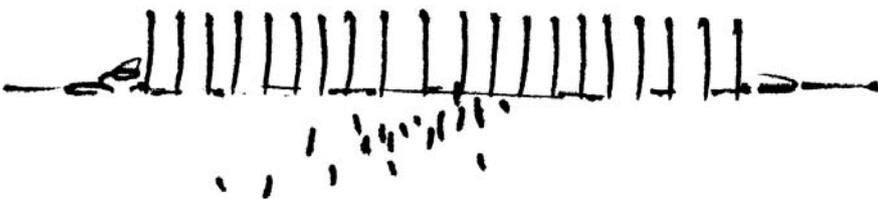


España
expone

Sociedad Estatal
para
Exposiciones
Internacionales

Spanish Pavilion

The Host Country Pavilion



media | November
2007





Pabellón de España en Expo Zaragoza 2008. El pabellón del país anfitrión

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Spanish Pavilion



Site of the Zaragoza 2008 International Exhibition

Zaragoza 2008. Water and Sustainable Development



Spain, which scored a huge international success with the World's Fair in Seville in 1992, is now to host another international Expo, with the theme 'Water and Sustainable Development', in the city of Saragossa, from 14 June until 14 September, 2008. It is the new century's first Expo in accordance with the criteria of the International Exhibitions Bureau (BIE).

Water is the topic that will inform all the contents of Expo Zaragoza 2008, participation in which has now been confirmed by 98 countries (21 in Africa, 31 in the Americas, 20 in Asia, and 26 in Europe). On the 75-hectare site on the bank of the Ebro River, the city of Saragossa will host the largest ever international exhibition and conference on the theme of water:

Sociedad Estatal para Exposiciones Internacionales (SEEI)

The SEEI is the body responsible for the concepts, design, and implementation of Spain's participation in major international exhibitions and events sanctioned by the International Exhibitions Bureau (BIE).

The SEEI was founded after Expo Hanover 2000, when it seemed advisable to have a permanent body to organise participation in such events. Consequently, in 2001 the Sociedad Estatal Hannover 2000 was transformed into the SEEI, which reports to the Dirección General de Patrimonio del Estado [National Trust Agency]. The SEEI manages Spain's image as a vehicle for cultural, technological and economic impact.

Since it was founded, the SEEI has met a series of challenges. Expo Hanover 2000 was followed by Expo Aichi 2005 (Japan), and the SEEI also fielded Spanish participation in the special events Floriade 2002 (The Netherlands), IGA 2003 (Germany) and Royal Flora Ratchapruerk 2006 (Thailand). Today, in addition to Saragossa, the SEEI is at work in preparing Spain's participation in the next World's Fair, to take place in Shanghai, China, in 2010.

On the occasion of Expo Zaragoza 2008, the SEEI is launching its new corporate image, designed by Manuel Estrada, and a new slogan: ESPAÑA EXPONE ['Spain Displays'], stressing the body's principal mission of projecting the image of Spain throughout the world.



Drawing of Spanish
Pavilion, designed by
Patxi Mangado

Spanish Pavilion. The host country pavilion

In addition to the Spanish Pavilion as such, Spain will be represented at the Saragossa event in the several theme pavilions, the pavilion of Spanish regional communities, the Aragon pavilion, etc. But it is the task of the Spanish Pavilion alone to furnish an overall vision of our country. Along with exhibitions and activities, the pavilion will host numerous institutional events, both on the National Days of the participating countries, and the Days of Honour dedicated to Spain's semi-autonomous regions, which are to receive special attention.

Science and Creativity

Under the theme 'Science and Creativity' the Spanish Pavilion at Expo Zaragoza 2008 will present a dynamic, modern, scientific and creative picture of Spain, focusing on the general theme of water; its origins, properties, evolution, uses, management, and significance. Thus the Spanish Pavilion will explain, in an entertaining and even spectacular manner, why water is one the most important factors in the future of our country and our planet.

Another aim is to place Spain in the world scientific context and to show its contributions and future directions in the response to the problems and threats of climate change. The pavilion will stress Spain's solidarity and commitment to finding solutions for environmental problems, and its strategic option for renewable energy sources.

Accordingly, the contents of the pavilion's displays are intended not only to inform about water in its global context, but also to prompt visitors to become actively involved, assuming their share of responsibility in the everyday management of this vital resource.

The design of the building itself is a revolutionary expression of these ideas, using water; ventilation, shade and the shelter of the roof and the numerous columns supporting the glassed-in exhibition spaces as an example of ecological and sustainable architecture.



State of the construction
of the Spanish Pavilion in
August, 2007

Spanish Pavilion. The building

The pavilion, designed by the Navarra architect Patxi Mangado, who was aided by bioclimatic design specialists from Spain's National Renewable Energies Centre (Cener), will be one of the most noteworthy to be erected for Expo Zaragoza, thanks to its aesthetic qualities and to the materials employed in its construction.

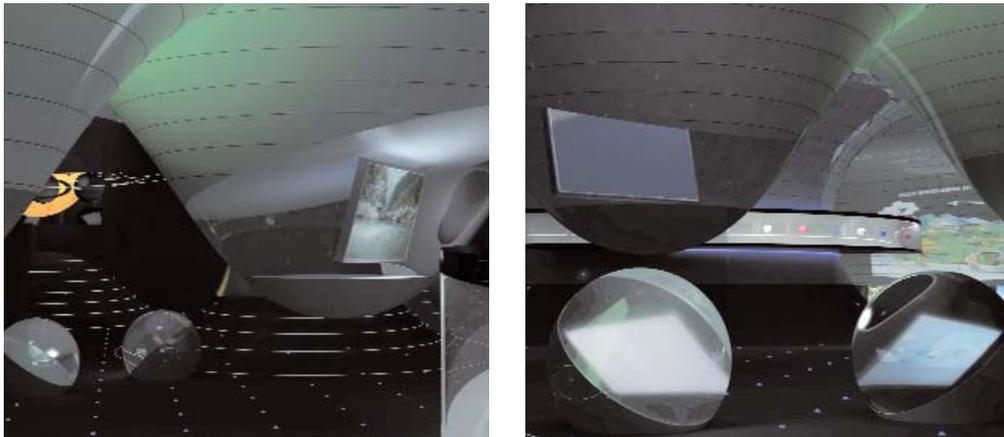
The Architecture of the Forest

The pavilion is a statement of commitment to architecture favourable to the environment and to sustainable development. It imitates a forest, which Mangado describes as 'a natural space that is both so simple and so complex, in which the light penetrates the treetops, and the sound of water transports us to an experience which today, because of environmental deterioration and urban lifestyles, is almost a luxury'.

A forest of columns that envelops the airy spaces defined by glass constitutes the base of the pavilion, designed in conformity with energy-saving criteria, under a large roof that provides shade to the building. In this way, and by using environmentally friendly building materials and renewable energy, the pavilion will have its own microclimate to shelter visitors from the often intense heat of the summer in Saragossa.

The multitude of columns, clad in terra cotta, will become the supports that generate this microclimate. The roof will be an energy container on which solar heat and rainwater collectors are deployed. The experts from Cener advised the architect in choosing building materials that help to conserve energy and can also be re-used.

Perfectly insulated and distributed, the exhibition spaces are inside the 'forest' and together take up 2,315 square metres of the Spanish Pavilion's total of about 8,000 square metres, on three floors (semi-basement, ground, and upper), on a 4,200 square metre site. Next to the Ebro River, and flanked by the pavilion of Spanish regions, the 'forest' of the Spanish Pavilion will attract visitors with its unique silhouette.



Drawing of 'Spain and Water' space.

Spanish Pavilion. Contents

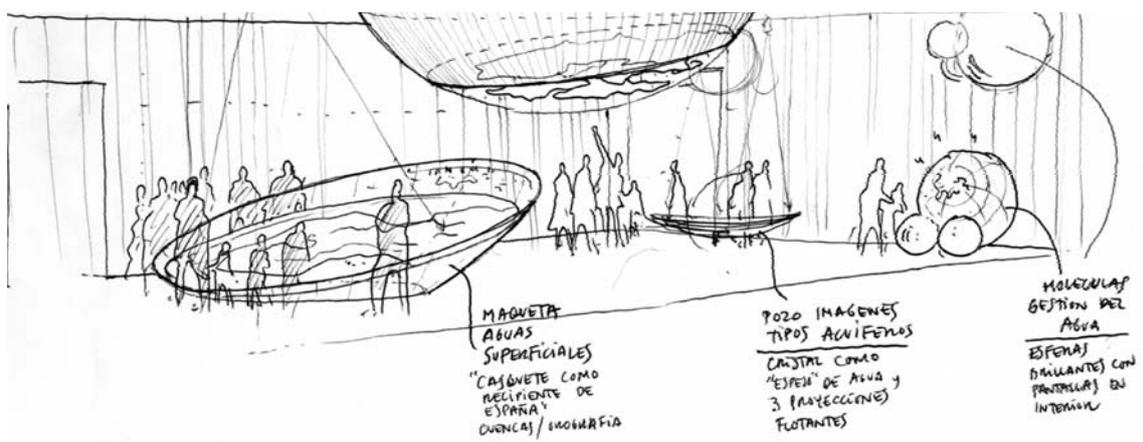
The inside of the building is structured to accommodate five show spaces. On the main floor are the spaces containing the exhibitions of 'A History of Water', 'Water on the Earth', 'Spain and Water', and 'Climate Change'. Below there will be a space dedicated to 'Architecture and Sustainable Development'.

A History of Water, Water on the Earth and Spain and Water

In 'A History of Water' an audiovisual production will be projected on a dome, addressing the appearance of water in the universe, and its importance to our planet. Produced by Mediapro on commission by the SEEI, and directed by Manel Huerga (whose film credits include *Salvador* and *Antártida*) and Franc Aleu (a member of the La Fura dels Baus theatre group), it employs the latest techniques in image and sound to build an extraordinary bridge between the real and the imaginary.

The room housing the 'Water on the Earth' display (produced by the interior design and production studio Empty, which is also producing the 'Spain and Water' and 'Architecture and Sustainable Development' exhibitions), is based on the surprising fact that the amount of water on our planet never changes, according to scientific adviser Juan Pérez Mercader, director of the Madrid Astrobiology Centre, a NASA associate. The displays in the space convey information and understanding of water and its properties, the water cycle, and the role of water in forming different ecosystems. The largest collections of gemstones in the world, on loan from Royal Collections, will also be a part of this exhibit.

In the 'Spain and Water' space, visitors will learn about the water in Spain's river basins and lakes, and also the water hidden in the different types of underground aquifers. Displays will reflect three areas in which Spain is particularly active: Water and International Cooperation –water projects of the Spanish International Cooperation Agency in Africa (Azahar project) and Latin America (Araucaria XXI project); Polar Scientific Research –Spain's 17 projects in the 4th International Polar Year, in both the Arctic and Antarctic regions; and Water Management Technology –Spain is a pioneer in the regulation of river basins, most notably that of the Ebro, and this display will also highlight the role of desalination plants, waste water treatment plants, and the modernisation of irrigation systems.



Sketch of contents of
on of the exhibition
spaces

Spanish Pavilion. Contents

Climate Change

The pavilion could hardly omit a reflection about climate change, and in collaboration with the 'la Caixa' Foundation, it presents a unique exhibition by the noted physicist Jorge Wagensberg, including the latest research findings by leading experts from all over the world.

An entertaining but rigorous examination of geological time, biological time, and human time will lead us to the fundamental laws of nature and the interactions between different types of ecosystems.

Saragossa/Kyoto. Architecture for a Sustainable Planet

In keeping with its policies, expressed consistently in all international forums, Spain is attempting to fulfil its commitments as a signatory of the Kyoto agreement on reducing greenhouse gas emissions. This implies changes in all areas that affect the environment, and one of these is construction. This is the theme of the exhibition 'Saragossa/Kyoto. Architecture for a Sustainable Planet', curated by the architect and professor at Madrid School of Architecture, Luis Fernández Galiano.

The exhibition will feature ten projects by internationally renowned Spanish architects and studios working in the sustainable design field. They are Ábalos y Herreros, Ecosistema Urbano, Thomas Herzog, Françoise Jourda, Rick Joy, Diébédo Francis Kéré, Lacaton y Vassal, Jaime Lerner, Pichy Aguilera, and Sauerbruch y Hutton.

All of them will take part in the Seminar on Sustainable Architecture organised by the SEEI to be held on 20th June, and the Madrid's Reina Sofía contemporary art centre and museum, to be presented by the British architect Sir Norman Foster.



Space for restaurant
overlooking Ebro River

Spanish Pavilion. Services

Institutional Events

As representative of the host country at Expo Zaragoza, the Spanish Pavilion will host some 100 official receptions, chiefly to mark the National Days of participating countries and the days honouring Spain's regions.

Restaurant and Reception Rooms

The pavilion's restaurant, seating up to 150 in people two dining rooms, will feature Spanish haute cuisine under the direction of Enrique Martínez, (whose internationally-acclaimed Maher restaurant has one Michelin star and two Campsa suns.) Adjoining the restaurant is a multi-purpose room also accommodating some 150 people, and which may be used by Spanish regional governments as an extension of their own pavilions for tastings, receptions, shows, or other activities.

Fair Trade Shop

In accordance with the environmental concern that inspired both the building and the contents of the pavilion, the shop is managed by the State Coordinator of Fair Trade, a body including major Spanish NGOs. Visitors can purchase ecological and ethnic products in the knowledge that profits will go to the producers in the developing world. Other goods include scientific gadgets and promotional items furnished by Spain Expone – SEEI, plus publications of the pavilion the Ministries of Agriculture, the Environment, and Education.

Other Spaces

VIP lounges, press and meeting rooms, spaces for workshops, and a 'cyber corner' round out the installations of the Spanish Pavilion.



Composer and musicologist Llorenç Barber

Spanish Pavilion. Cultural Programme

Every day visitors to Expo Zaragoza will be offered a programme of cultural activities that can be enjoyed by all types of people. The Spanish Pavilion's primary responsibility within this programme is to organise the events for Spain Day, to be held on 24th June.

Spain Day Programme

Morning Concert. Spanish National Orchestra

Auditorium of the Congress Hall at Expo Zaragoza 2008

Spain Day will begin with a selection of excerpts from Spanish operas and 'Zarzuela' light operas by soloists such as the baritones Manuel Lanza and José Bros and the soprano Mariola Cantarero, accompanied by the Spanish National Orchestra under the direction of Josep Pons.

Bell Concert by Llorenç Barber

Historic Centre of Saragossa and Expo Fairgrounds

An original and evocative performance on bells will take place in the city of Saragossa during the stately procession of the official delegation from the Conference Hall to the Spanish Pavilion. It will be a unique and moving event, as all of Saragossa's bells chime in unison, to the score composed by the bell performer and musicologist Llorenç Barber, who has rung the bells of more than 150 cities around the world.



Gala Spanish Dance
Recital

Spanish Pavilion. Cultural Programme

Gala Spanish Dance Recital

Auditorium of the Congress Hall at Expo Zaragoza 2008

A unique programme devised, choreographed and directed by Raúl Cárdenes, will bring together leading Spanish dancers –some of them soloists in the world's most outstanding dance companies—representing classical and neo-classical ballet, and Spanish classical and contemporary dance. Among them are Ana Laguna, Laura Hormigón, Lucía Lacarra, Miguel Ángel Berna, Carlos Acosta, Ángel Corella, Nacho Duato, Lola Greco, José Carlos Martínez, Goyo Montero, Nani Paños, Tamara Rojo, Óscar Torrado, Gala Vivancos, and Igor Yebra.

This Gala de Danza Española will also be performed on 26th June at the Teatro Principal in Saragossa.

The Night of Fire

Expo Fairgrounds

The special programme for Spain Day will end with an artistic fireworks display co-produced by the SEEI and Expoagua, and directed by Christophe Berthonneau. The display will traverse the Expo fairgrounds and end in the Spanish Pavilion. The spectacle is in keeping with Spain's age-old tradition of fireworks as exemplified in the Nit del Foc or St. John's Night.

Other Activities

Solidarity Concertssolidarios

Anfiteatro de Expo Zaragoza (27 de junio y 4 de julio)

Para expresar el compromiso de España con la cooperación al desarrollo y el creciente número de proyectos en el Tercer Mundo, está prevista la celebración de dos conciertos solidarios con América Latina y África en los que músicos latinoamericanos y africanos compartirán escenario con artistas españoles.

Figuras como Enrique Morente, Masters Musicians of Jajouka (Marruecos), Salif Keita (Mali), Farafina (Burkina Faso) y los mejores músicos latinoamericanos participarán de esta convocatoria de confraternización artística cuyos ingresos se destinarán a proyectos de cooperación.



El “bosque” de columnas del Pabellón de España

Pabellón de España. Programa cultural

Conferencias y debates

Además de las jornadas sobre arquitectura sostenible, que como complemento de la exposición se celebrarán en Madrid el 20 de junio, con la participación de Norman Foster, y las que la SEEI ha organizado conjuntamente con la Fundación la Caixa, el Pabellón de España organizará en Zaragoza distintos debates y conferencias, bien en colaboración con la Tribuna del Agua o en sus propias instalaciones.

En el pabellón tendrán lugar las jornadas gastronómicas *Ciencia y creatividad I+D+G (Investigación+Desarrollo+Gastronomía)* –coordinadas por Madrid Fusión–, con el objetivo de propiciar un encuentro entre profesionales de la cocina española y científicos. Las jornadas pondrán de manifiesto las estrechas relaciones que en España mantienen científicos y cocineros. También, los avances en la cocina española de vanguardia, gracias al apoyo tecnológico de determinados centros de investigación españoles, como Alcotec (alta cocina y tecnología), proyecto impulsado en el año 2000 por el Gobierno de Aragón en alianza con la Universidad de Zaragoza; o elbulltaller, laboratorio de ensayo e investigación de Ferrán Adriá. Y sobre todo, la forma en que las revolucionarias técnicas de la gastronomía española han cambiando la manera de interpretar la alta cocina en el mundo. Además, se celebrarán distintas conferencias y simposios organizados en colaboración con el Ministerio de Educación y Ciencia.

Talleres

El Pabellón de España organizará varios talleres didácticos, que contarán con acceso independiente, una duración de 50 a 60 minutos y una capacidad para 30 participantes. La inscripción será gratuita y se dirigirán a todos los públicos, con especial atención al escolar.

Las actividades que se van a desarrollar son las siguientes:

- Sala 1. Taller dedicado a la gestión del agua en España (desarrollado con la Confederación Hidrográfica del Ebro y el Ministerio de Agricultura)
- Sala 2. Talleres sobre biodiversidad ibérica y cambio climático
- Sala 3. Talleres sobre las propiedades físicas y químicas del agua



Infografías del interior del pabellón español

Pabellón de España. Arquitecto

Francisco Mangado, Architect

Architect graduated at the College of Architecture of the University of Navarra, where he holds the position of Professor of Projects. He also teaches at the Graduate School of Design at Harvard University; UTA, Texas; and at the International University of Catalunya.

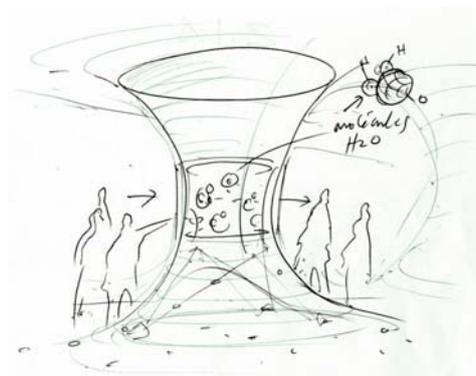
He has won numerous prizes, including the Architecture Award Andrea Palladio, the Thiene of Architecture, the Architecti Award, and the CEOE award, and most recently the First Prize at the 2007 Saloni Architecture Awards for his project of the "Nueva Balastera" Stadium in Palencia, which is also listed as one of the finalists in the upcoming 2007 FAD Awards.

The Works at Pamplona Convention Center and Auditorium and at Avila Exhibition and Convention Centre were included at the exhibition organized by the MOMA on Spanish architecture in New York and Madrid.

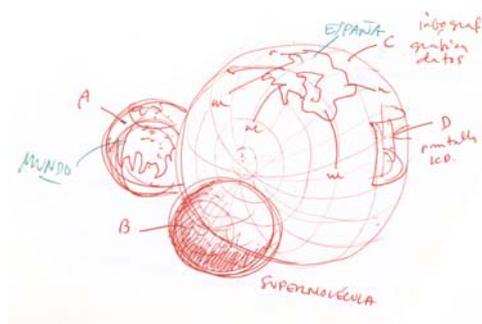
National Renewable Energies Centre (Cener)

The National Renewable Energies Centre (Cener), a part of the Cener-Ciemat Foundation, is dedicated to research, development and promotion of renewable energies in Spain.

One of the Cener's five departments is dedicated to Bioclimatic Architecture, and the announcement of the 'Water and Sustainable Development' theme of Expo Zaragoza inspired the centre to offer its help to Patxi Mangado in designing the Spanish Pavilion.



Sketch of 'Water on the Earth' and 'Spain and Water'



Spanish Pavilion. Advisors and collaborators

Juan Pérez Mercader, Astrophysicist

This expert in multi-scale physics as applied to astrophysics and cosmology is a Physical Sciences graduate of the University of Seville, with an M.S. in Mathematics and Theoretical Physics from Trinity College, Dublin, and a PhD. from City University of New York.

As research scientist at Spain's Advanced Scientific Research Institute (CSIC) since 1983, in 1990 he began to work with Spain's National Technical Aerospace Institute (INTA). In 2000 he was named director of the Astrobiology Centre associated with the NASA Astrobiology Institute which he helped to found. His research focuses on the origins and development of life in context of the evolution of the universe, in view of the similarity of self-organisational principles on the different scales. His current research focuses on the necessary theoretical-experimental basis linking the Big Bang with life, providing the understanding of the evolution of the universe.

At the Spanish Pavilion, Juan Pérez Mercader supplied advice on the content of the exhibitions of 'A History of Water' and 'Water on the Earth'.

Margarita Yela, Physicist

Ph. D. on Physics at the Complutense University of Madrid specialized on Atmospheric Physics, Margarita Yela works as researcher at INTA (National Institute on Aerospace Technology) She manages the National Subprogram of Polar Research, included on the National Plan of R & D + i. since 1993, she has acted as principal researcher for a number of projects funded by the Ministry of Education and Science and has also taken part on Monitoring Campaigns both in Antarctica and the Arctic. She currently holds the position as President of the Spanish National IPY Committee- research campaign to promote the progress on the scientific knowledge of polar areas and inform the society on the importance of the research on these areas. The International Polar Year, coordinated in Spain by the Ministry of Education and Science, includes 220 scientific projects from 69 countries.

Margarita Yela has advised on the contents of the exhibition 'Spain and Water'.



The Five Realms.
'Water on the Earth'

Spanish Pavilion. Advisors and collaborators

Jorge Wagensberg, Physicist

Jorge Wagensberg is professor of the Theory of Irreversible Processes in the physics department of the University of Barcelona. Since 2005 he has served as director of the Science and Environment Department of the 'la Caixa' Foundation.

He has more than 100 scholarly publications to his credit, and as a writer on scientific subjects for lay readers, he contributes to numerous Spanish publications. His books (in Spanish and Catalan) are entitled 'Science and Us', 'Ideas about the Complexity of the World', 'Amazonia: Illustrated Illusions', 'Introduction to the Theory of Probability and Information', 'Ideas for the Impure Imagination', 'If Nature is the Answer, What Was the Question?', and 'The Rebellion of Forms'.

Jorge Wagensberg developed the contents of the Climate Change room, which is co-produced by the 'la Caixa' Foundation.

Luis Fernández-Galiano, Professor of Architecture

Architect and Professor of Projects at Madrid School of Architecture, he edits the publications *Arquitectura Viva* and *AV Monografías*, and frequently contributes articles to the daily press about architecture and urban development. A member of Spain's Real Academia de Doctores [Royal Academy of Scholars], he has served as Cullinan Professor at Rice University in California), visiting research fellow at the Getty Center in Los Angeles, and visiting professor at Harvard, Princeton, and the Berlage Institute in The Netherlands. Fernández-Galiano has also directed courses at Spain's Complutense and Menéndez Pelayo universities. He has served as a member of the jury of the European Mies van der Rohe architecture awards and other international and Spanish architecture awards. He presided over the jury at the 9th Venice Biennale of Architecture.

Luis Fernández Galiano was commissioned by the Spanish Pavilion to curate the exhibition 'Saragossa/Kyoto: Architecture for a Sustainable Planet', along with the accompanying conference programme.



Model of the Spanish
Pavilion in Zaragoza
2008

Spanish Pavilion. Advisors and collaborators

Spanish Geological and Mining Institute (IGME)

The Spanish Geological and Mining Institute (IGME) is a publicly-funded research body reporting to the Ministry of Education and Science.

For the pavilion in Saragossa, the IGME is providing advice for the 'Water on the Earth' and 'Water in Spain' exhibitions, particularly as regards the hydrological cycles and underground water.

Public Works Study and Experiment Centre (Cedex)

The Public Works Study and Experiment Centre (Cedex) was established in 1957 as an independent agency and today it reports to the Spain's Ministries of Development and of the Environment.

Cedex has supplied valuable information and advice with regard to surface water and hydrographical demarcations in the Water in Spain show space.

Water of the Mediterranean Basins (AcuaMed)

AcuaMed is a state agency reporting to the Ministry of the Environment, and chiefly dedicated to developing and operating all types of public fresh water supply works and installations.

AcuaMed furnished advice about the desalination and watercourse control sections for the 'Spain and Water' exhibition space.

Spanish Pavilion. Cooperating Institutions

Prime Minister Office
Deputy Prime Minister Office
Second Deputy Prime Minister Office
Ministry of Foreign Affairs and Cooperation
Ministry of Education and Science
Ministry of Agriculture, Fishing and Food
Ministry of Cultural Affairs
Ministry of the Environment
Saragossa Council
Spanish International Cooperation Agency
Spain Tourism Institute (Turespaña)
Expoagua State Company
Hydrographical Confederation of the Ebro River
National Centre for Geographical Information (CNIG)
Casa Árabe
Casa Asia
International Polar Year
Spanish Fashion Designers Association
Ebro Irrigation Association
State Coordinator of Fair Trade (CEIJ)
Spain Pavilion. Sponsors



Spanish Pavilion. Partners

'la Caixa' Foundation (co-organiser of the exhibition Climate Change)

Sponsors

Electrolux

Gamesa (Solar Panels)

Opel

Renfe

Grupo Osborne (Solán de Cabras and Cinco Jotas)

Roca