

Relations with technology networks

The work in collaboration with technology networks is an essential objective for **CETaqua**, as it **increases the research potential** of our groups, **strengthens the relations** with all the agents involved in the national and international innovation processes and offers maximum dissemination for the **experiences of CETaqua**.

CETaqua participates actively on the following platforms:



CETaqua

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Water Technology Centre
Technology Centre for Excellence
in the Integral Water Cycle



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Technology Centre for Excellence in the Integral Water Cycle

CETaqua integrates, manages and implements research projects with the aim of proposing innovative solutions to companies, society and the Administrations to solve environmental and technological problems linked to the management of the integral water cycle.

The founding partners of CETaqua are:

- **Aigües de Barcelona (AGBAR).** Private company, Spanish leader in the integral water cycle, with 140 years of experience.
- **Universitat Politècnica de Catalunya (UPC).** Catalan public university of recognized prestige, specialized in the spheres of engineering, science and architecture.
- **Spanish National Research Council (CSIC).** The biggest public research body in Spain, specialized in scientific and technical areas closely related to those carried out in the centre.

Objectives

Become the **technology centre** of reference in the creation of knowledge and the development of technologies associated with the integral water cycle at regional, national and international level.

Contribute to research and development of technologies related to the integral water cycle, promoting **synergies between companies, research centres and universities.**

CETaqua participates in a portfolio of projects of 24 million euros which 9 million euros are managed directly by a team of more than 40 people.

Values

Quality Scientific rigour and contractual discipline in project execution and management.	Technology Our research focuses on projects with a strong technological component.	Sustainability Our research should facilitate the dialogue between science, technology and society on the social, economic and environmental aspects of the water cycle.
	Social responsibility Our projects focus on issues of interest.	
Innovation Link between knowledge and technology development.	Dimension We promote the development of major projects.	

Team and collaborations

CETaqua has a team which integrates experts from Agbar Group companies, researchers and technologists from academia. A team of **50 people working full time and over 100 experts** made available by the operating companies of the **Agbar Group** and collaborates with more than 30 specialist research groups belonging to the UPC and CSIC, which supposes an amount of **400 people** mobilized within the same common objective: the search for excellence in the execution of innovation projects.

CETaqua Lines of Research

Lines	The sphere of work of the line is:
1 Alternative Resources	<ul style="list-style-type: none"> • Desalination of sea and/or brackish water • Reuse of regenerated water and of rainwater • Recovery of masses of degraded water
2 Impact of the global change	<ul style="list-style-type: none"> • Management of crisis situations • Integrated water resources management (IWRM) to combat droughts • Mitigation and adaptation to global change • Environmental impact of generated water and rainwater cycle
3 Efficient infrastructures management	<ul style="list-style-type: none"> • Catchment systems and purification treatments • Distribution, sewerage and urban drainage networks • Integration and optimization of the control systems
4 Environment & Health	<ul style="list-style-type: none"> • Biological & chemical control of water quality • Control of the environmental impact • Health Risk Management
5 Energy & Water	<ul style="list-style-type: none"> • Energy efficiency in the complete water cycle • Energy appraisal of the waste • Economics of hydrogen
6 Management of the water demand	<ul style="list-style-type: none"> • Supply-demand balance • Repercussion of the real costs of water (hydronomy) • New pricing systems • Public participation (ethics of water, virtual water)

Funding Programmes

Funding programmes	Number of projects under development
International	
	1
	2
	21
National	
 	2
Regional	
	2

* Private funding

CETaqua promotes the **external funding** of its projects. Currently, **40% of CETaqua's** project budget comes from **public funding programmes.**

In 2008 it has been obtained public **funding for 28 projects** from a total of 38 under development.