

» OUR PARTNERS

- The CACG frequently works with public authorities such as water basin authorities, with water operators, water basin managers, river unions...
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- The CACG provides its support to project managers, water operators, utility managers and water consumers (irrigators) to help define and implement the best operational strategy.
- These skills are also regularly used by similar international organisations in Morocco and Senegal, for example.

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WATER

An integrated approach for innovative and sustainable solutions

ENVIRONMENT

The CACG: committed to sustainable development

ECONOMIC AND REGIONAL DEVELOPMENT

Moving forward through innovation and development

www.cacg.fr

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Document imprimé avec des encres végétales.
 Papier issu de forêts gérées durablement.

Conception graphique : Horemse de Montlau - h2m@wanadoo.fr - Crédits photos : Frank Chevallier - frank.chevallier@gmail.com - Impression : imprimerie Ecombat - 81

Integrated water resource management



The CACG has developed conceptual and operational approaches to implement balanced and integrated resource management on basins. Our teams can provide the methods and tools needed to satisfy the water requirements within the available resources in the catchment area where you operate.

» THE CHALLENGES

As a public or private operator, you are involved in water management and you would like to...

- Know more about the quantities of water transiting through your area,
- List the water users so as to define current and future requirements (drinking water supply, industrial, irrigation or leisure uses, hydroelectricity...),
- Have a global vision of the water balance and the evolution in water resources and requirements,
- Anticipate risks of drought or flood, limit crisis situations,
- Mediate between users to share resources as best as possible, implement control measures...,
- Define the organisation of water management operators,
- Establish your water management operational strategy.

...The CACG provides answers based on dialogue, using its extensive scientific expertise and recognised experience in studies and operational water management.



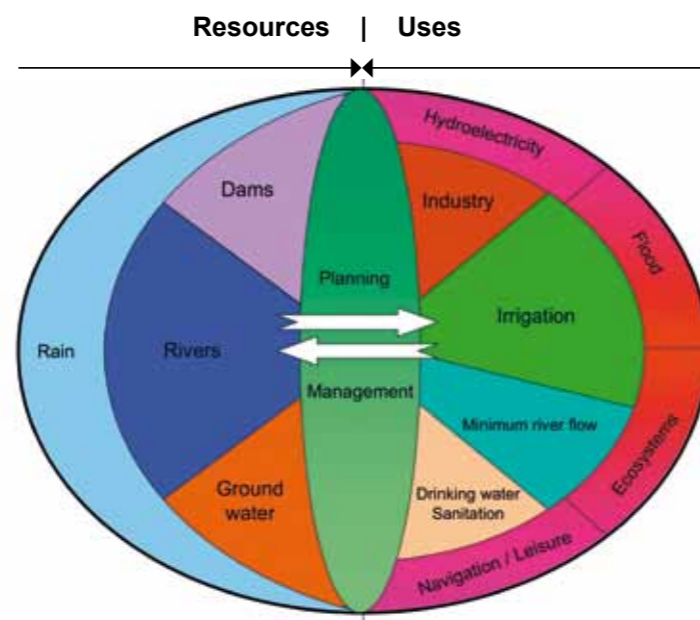
Integrated water resource management



With its exhaustive knowledge of water resources and requirements, the CACG can help you to draw up development plans and management scenarios guaranteeing a sustainable balance between water demand and availability.

» THE CACG PROVIDES

- **Targeted studies** on requirements and surface and groundwater resources ;
- **Modelling tools** to study the water balances on a catchment area and to simulate integrated water management resulting from selected scenarios;
- **Pinpoint evaluations** of your resources management strategy, of your monitoring system;
- **Advice for hydraulic works planning** : design and planning of new works, changes to water consumption practices
- **Water Management advice** : improvement in management practices, dialogue development, legislation expertise.



» OUR ADDED VALUE

Fifty years of operational management experience

- The CACG manages dams and canals with an average water supply representing 300 millions of m³ per year.
- Management tools are developed and run every year on real catchment areas ; methods and software are regularly adjusted and implemented taking into account the feed-back of on-field experience.

» A RANGE OF PRODUCTS TO MEET YOUR EXPECTATIONS

We adapt our services to meet your specific expectation : we adjust the geographical or temporal scale of our models but with a reliable result so as to regard your deadline and price. In every case, we guarantee a global and integrated approach to suit the catchment area.

We can:

- Draw up an annual water resource-requirement balance for a large catchment area;
- Produce detailed analysis of such a balance with daily calculations and taking into account the exact locations of the withdrawals and supplies ;
- Simulate the management of stored resources to highlight any water deficit;
- Evaluate the economic and environmental benefits of planned hydraulic works and the relevance of their management strategy...
- Provide visual results using GIS softwares (mapping, dashboards, web-sites...);
- Design real-time decision-making tools: softwares for supply and requirements forecasting, hydraulic regulation and automation, monitoring of the hydrographic system...

