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Multipurpose water provider & regional developer

Consulting engineer in hydraulic infrastructures and water management

# Societe du Canal de Provence





## SCP, ITS TWIN VOCATION

**Multipurpose water provider & regional developer :**
Our prime vocation is to contribute to the improvement, equipment and economic development of South-eastern France.

**Consulting engineer in hydraulic infrastructures and water management :**
We offer to the French and International markets our considerable know-how to state or private organisations wishing to create or develop hydraulic infrastructures projects.



## SCP'S COMMITMENTS :

**Striking a perfect balance in its operating accounts so that water pays for itself. No more, no less.**
The company systematically reinvests what it earns in the renovation of existing infrastructures or in new projects to improve water services and facilitate environmentally-friendly regional development.

**Serving the general interest by ensuring a fair balance between different water uses.**



**Turnover 2011**
**90 millions euros**

**Workforce**
**470 staff members**

## SCP'S BACKGROUND AND STATUS

The Société du Canal de Provence (SCP) is a regional development company operating underprivate business laws. Its majority shareholders are regional public authorities. In spite of its private operating structure, the company's mission is to serve the general public. In 1963, SCP was granted a concession by the French Government for the purpose of harnessing and managing the water resources of South-eastern France in order to provide water for irrigation, industries, and domestic usages.
On 30th of September 2008, the conceding authority of the Canal de Provence facility was transferred from the French Government to the PACA region.

To fulfil this mission, SCP designs, implements and operates a range of infrastructures,and notably the Canal de Provence facility. The SCP board of directors is made up of representatives from the Provence-Alps-Côte d'Azur (PACA) local authorities, together with minority shareholders from the private business world (private banks and Chambers of Agriculture).




# SCP, DEVELOPER AND PROVIDER

**In order to fulfil its assignment, SCP designs, implements and operates for the past 50 years a large scale hydraulic infrastructures over a territory of 31 400 km² with a population of 4,9 millions inhabitants.**
**Today, the assets constituted by this major scheme amounts to a total of 2,4 billions euros.**

| **Volumes** | |
|---|---|
| Storage | 260 Mcum |
| Annual volume transported | 200 Mcum |
| **Conveyance system** | **810 km** |
| Main canals | 70 km |
| Galeries & aqueducts | 140 km |
| Pipes ≥ 500 mm | 600 km |
| **Civil structures** | |
| Proximity reserves and storages | 82 |
| Bridges | 14 |

| **Distribution system** | **5000 km** |
|---|---|
| Pipes < 500 mm | 4 700 km |
| Surface irrigation canals | 300 km |
| **Equipments** | |
| Pumping & Booster stations | 83 |
| Treatment stations | 4 |
| Potability stations | 18 |
| Delivry points | 56 400 |
| Micro hydroelectric plants | 7 |
| **Dynamic Regulation (SCADA)** | |
| Main regulation structures | 30 |
| Regulation stations | 400 |

# SCP, A MULTIPURPOSE WATER PROVIDER

By providing water for agriculture, industry, urban zones and rural individual users, the multipurpose development implemented by SCP has been for the past 50 years a vital contributing factor for economic development and quality of life in south-eastern France.

**6 000** irrigated agricultural properties

**80 000 ha** of irrigable land

**800** industries and small business supplying

**110** municipalities totalling 2 millions inhabitants

Over **1000** fire posts and hydrants

# Water and environment, a recognized know-how for long-term solutions

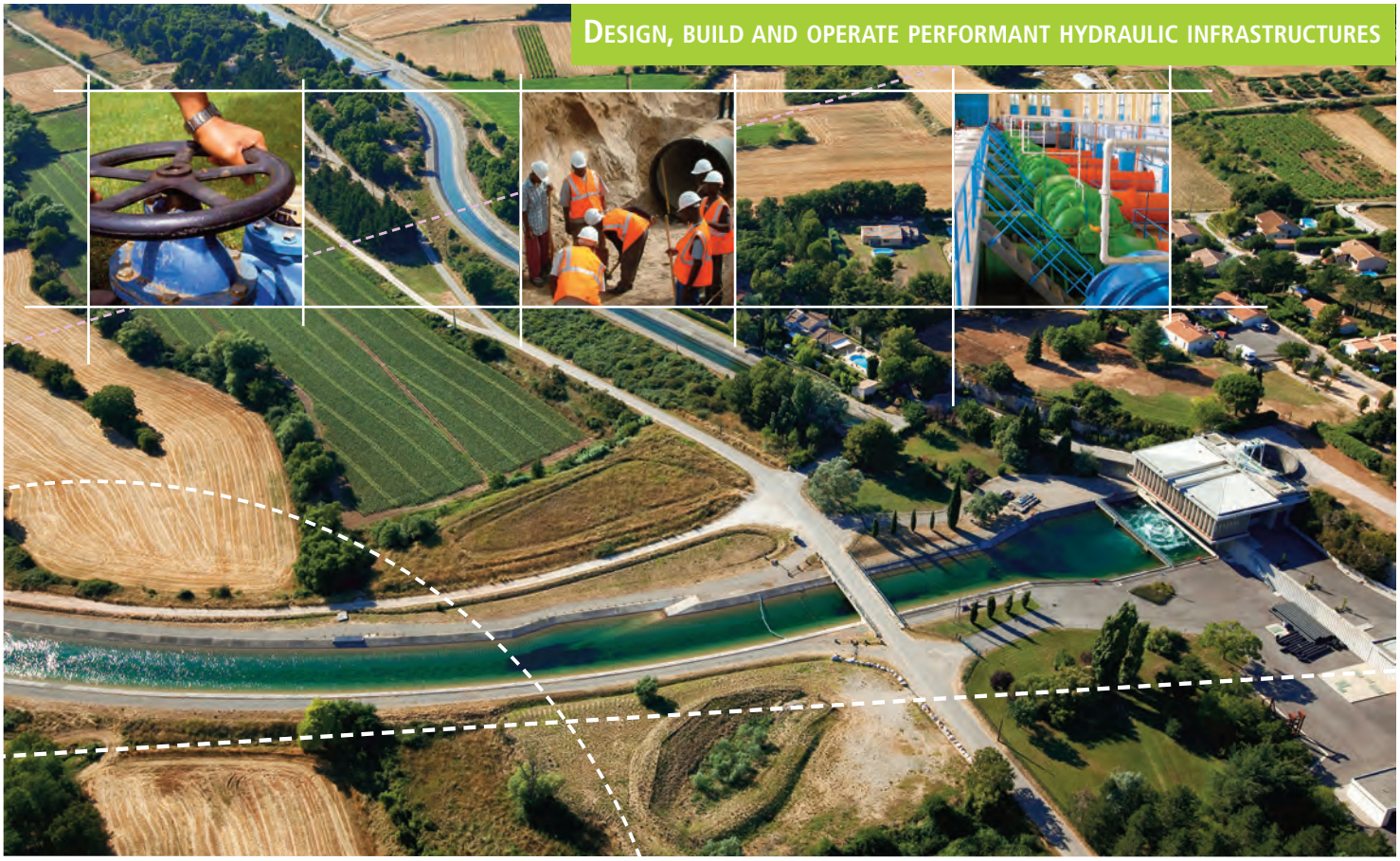


Long term protection and efficient water resources management



Control the quality of water for industries and cities

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## Design, build and operate performant hydraulic infrastructures



- Professionnalism
- Proximity
- Responsible development

## Promote efficient irrigation and water saving

# SCP, AN INTERNATIONAL CONSULTING ENGINEER

SCP has been providing worldwide and for the past 40 years, a comprehensive range of engineering consulting services to public or private organisations, wishing to create or develop their hydraulic infrastructure projects.

To provide a quality response to customers, SCP is forging partnerships with consulting firms that have complementary skills and experience to his own. SCP emphasizes collaborations with partners operating in the country or region of intervention.

## A complete range of consulting services

### Studies

- Master plans
- Feasibility studies
- Economic studies
- Cost-Benefit analyses
- Agronomic and soil studies
- Regulatory studies
- technical and project management studies

### Tests, analyses and measurements

- Physical chemistry and biology of water
- Geotechnics and concrete
- Metering and flow measurement
- Topography
- Hydrometry
- Physical models
- Digital modelling

### Project management support

- Project Management Support
- Conduct of operations
- Delegated project management

## In all areas related to




- Integrated management of water resources
- Development plans and water management
- Hydraulic system governance
- Water demand management and pricing policies
- Catchment areas and forest management
- River, canal and water table contracts




- Production, storage, transportation and distribution of water :
  - Hydraulic infrastructures : Dams, dikes, canals, aqueducts, pipes, networks, pumping stations, water treatment plants, hydroelectric micro-power stations, etc.
  - Regulation, remote management and supervision
- Flood prevention and mitigation
- Environmental engineering
- Treatment and reclamation of waste water




- Operation
- Maintenance
- Geographic Information System (GIS)
- Commercial and financial management of water services
- Delegated management of water services
- Irrigation planning
- Management of flood-protection systems




- Water Analysis Laboratory
- Geotechnical and Concrete Laboratory
- Hydraulic Measurements Laboratory

# Dynamic regulation

With this concept, only the volumes of water needed are introduced into the hydraulic system. It is a fully automated, real time-operation system.

The IT program, which includes a module for forecasting demand based on historical data, continuously checks the volumes transported and distributed.

This process highlights faults and thus detects any water loss. Based on real-time water movement monitoring, the dynamic regulation system allows optimal management of the volumes delivered.

SCP has developed expertise in advanced SCADA (Supervisory Control And Data Acquisition) technology applied to long-distance water transport.

Today, SCP is a recognised world leader in managing centralised automatic hydraulic structures

**International references for SCADA applications :**

- *Jordan : King Abdullah Canal*
- *Morocco : Haouz Canal*
- *China : South-North Grand Canal*
- *Sri Lanka : Colombo water distribution system*
- *India : Narmada Canals & Irrigation networks*



# Project development support

Numerous clients benefit from SCP's know-how as a multi-purpose water provider and regional developer. Both in France and abroad, the company is chosen to work on technical, legal, institutional and financial support projects.

In the institutional field, this involves working on international water management charters, which are agreements between riparian countries.

These charters define the rules for allocating the water resources, fining the polluters and taxing the water use.

Eventually, they also regulate the construction of common facilities according to the expected economic benefits, impacts and consequences for the regions.

They are usually the first step in the definition of Integrated Water Resource Management (IWRM) and development of master plans.

The aim of such plans is to set out guidelines for land use and water management, and develop an action program.

**References :**

- *Water charter study of the Niger basin*
- *Integrated water resource project and development master plan for the Senegal basin*
- *Master plan for the development and management of water resources in Martinique*

# Dams and dikes

Over the past 30 years, SCP has built and/or operated 68 dams and reserves for its own account, and has contributed to more than 120 projects for different clients, both in France and around the world. It is worth bearing in mind that, on account of our reference portfoliio, the Ministry of Ecology, Sustainable Development, Transport and Housing has granted SCP all five accreditations for the management and inspection of dikes and dams. Since 29 March 2011, SCP has been authorised to design dikes and dams of all classes, supervise their construction in the capacity of Project manager, and handle all statutory procedures.

**References :**

- *Ponds and dams on behalf of the ITER agency (France)*
- *Monitoring and auscultation for the La Verne dam (Var – France)*
- *Red River dikes and Yon Zen dam in Vietnam on behalf of the Ministry of Agriculture and Rural Development*

# SCP, structured to maintain long-lasting facilities.

SCP has developed an effective organisation based on corrective and preventive maintenance operations, and Computer-Aided Operational Management and Maintenance.

Preventive maintenance is performed according to a program of actions based on SCP's exclusive criteria :

- Analysis of failure modes, effects and criticality (FMECA)
- Production line utilisation factors (UF)
- Degree of network utilisation
- Hydraulic efficiency





## SCP, A UNIQUE PARTNER FOR YOUR PROJECTS :

Owner, designer, developer and operator of a major hydraulic system, SCP provides its clients a practical and constant updated know-how based on a day to day experience built up over 50 years.



## 50 YEARS OF WORLDWIDE ACHIEVEMENTS :

SCP provides a comprehensive range of expertise due to its competence as developer and operator of a regional hydraulic infrastructure. For its international activities, SCP relies on over 100 qualified engineers and technicians. SCP has an extensive range of international achievements in more than 40 countries : Albania, Algeria, Argentina, Bolivia, Brazil, Comoros, Cambodia, Cameroon, China, Colombia, Egypt, Greece, Guinea, Haiti, India, Indonesia, Iraq, Italy, Jordan, Kazakhstan, Kirghizstan, Kosovo, Lao, Lebanon, Libya, Malaysia, Mali, Mauritania, Morocco, Niger, Oman, Palestinian Territories, Portugal, Democratic Republic of Congo, Senegal, Spain, Sri Lanka, Syria, Tadjikistan, Thailand, Tunisia, Ukraine, USA, Uzbekistan, Vietnam.

SCP is also present in France's overseas department and territories.

## LABORATORIES

**Water analysis laboratory**
The laboratory, certified by COFRAC (French accreditation committee) and also by the Ministry of the Environment, realises water analyses (soft water and waste water) and soil analyses.

**Geotechnical and concrete laboratory**
The laboratory possesses high-technology equipment that allows geotechnical tests and controls to be performed on aggregates, cement and concrete.




**Hydraulic measurements laboratory**
The laboratory, certified by COFRAC (French accreditation committee), provides high capacity calibration for flow meters and water meters.
It also performs hydraulic scale models on this site.

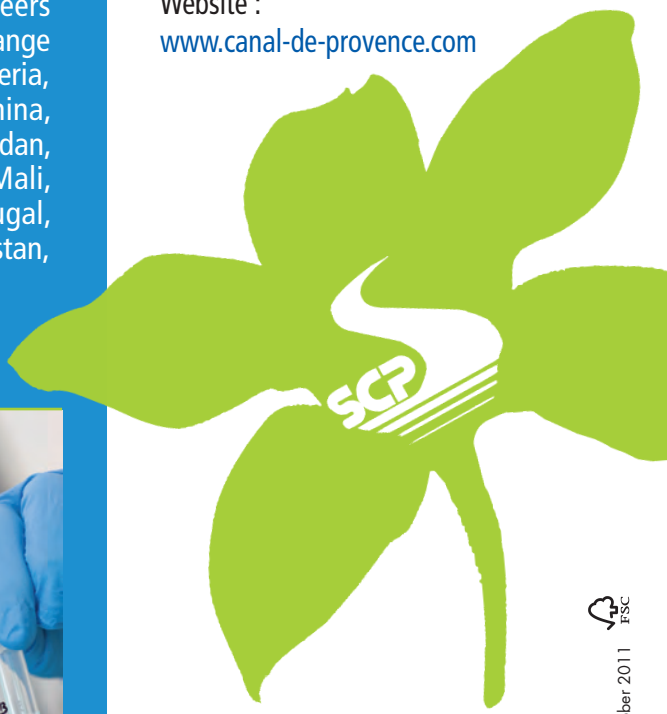
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**WATER AND ENVIRONMENT,**
**A RECOGNIZED KNOW-HOW FOR LONG-TERM SOLUTIONS**

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