

Who we are.

The **authority of interregional basins of the river Sele** has been constituted in execution of the art. 13 of the law of on May 18, 1989, n. 183, by a specific interregional "agreement" undersigned in 1993 between the two Regions **Campania** and **Basilicata**.

The registered office of the authority of basins is located in Naples because is Campania the region to greater venue (70 %).

The catchment basins of the interregional authority are extended on a surface of 3.350 km², with a population of 400.000 inhabitants about and a housing density of 120 inhabitants/km². It understands altogether 88 communes, of which 62 belonging to the province of Salerno, 5 to the province of Avellino and the remainders 21 to the province of Potenza.

the oceans of particular consequence of the interregional catchment basins is the Sele, that is born in the commune of Caposele (Av), and his principal tributaries Tanagro and heat shine, that they have origin in Basilicata.

it is interesting to underline that the interregional basins are considered, it is at national level that community, a complex ecosystem and of elevated naturalistic value. In fact, the tall valley and the mouth of the Sele river has been inserted in the list of sites identified by the Italian state like sites of community importance (S.I.C.), according to the art.4 of the 92/43/CEE directive "habitat" for the constitution of the European net nature 2000. More specifically, in the territory of competence of this authority, it has been individual 22 S.I.C. and 6 2.P.S. (zones of special protection). Furthermore, the confluence of rivers if it and Tanagro, for the geomorphic, faunal characteristics, vegetazionali| and naturalistic-ambiententali|, it has been considered by the Campania region territory to protect by the institution of the " reserves mouth natural Sele Tanagro " (reads regional 1° September 1993, n. 33). To boot, the office of the environment, in implementation of the 78/659/CE directive, with decree of on November 19, 1997, has recognized the whole course of the Sele river as " *water body that requires particular protection and improvement to be fit in the life of the fish* ", classifying the as salmonicolo| feature.

The technical-operational **reception office (S.T.O.)** of the **authority of interregional basins of the Sele river it** has begun its efficacy the 1° October 1997, devoting continually to studies to update, in their progress report, the methods of evaluation and management of situations of risk idrogeologico| and of the water resources.

Studies of updating are supported also from an incessant cognitive exercise, realized on the territory of the catchment basins. The institutional more meaningful activities, effected by the technical-operational reception office, have been:

- the predisposition and the editing of the extraordinary plan for the idrogeologico| emergency, for the individualization and perimetrazione| of areas to very elevated risk (according to the law 267/98 and s.m.i.), whose measures of safeguard have been published is on the B.U.R. of the Campania and Basilicata regions, that on the extraordinary supplement to the official gazette n. 91 of on April 18, 2000;
- the editing of the plan take off for the protection from the idrogeologico| risk, published on the ordinary supplement to the G.U. n. 287 of the 11 dic. 2001-- serious general;
- the concrete expression of the project idea "Silarus", by a study of feasibility for the mitigation of the idrogeologico| risk with structural interventions and no;
- the conceptual definition of the "deflusso minimizes vital " and of criterions of evaluation, as well as expectation from the L. 36/1994 and from the D. Lgs. 152/1999 and s.m.i.

PROJECT MO.RI.CA.

The technical operating reception office of the authority of interregional basin of the River Sele has arranged from the 01/01/04 a preliminary project to realize a computer model of management of the water resource of communes belonging to the regional park of the "Picentini Mountains" under the jurisdiction of the ABI Sele.

The regional resolution n. 1790 on September the 30th, 2004 admitted to financing, in the circle of the P.I.T. " park regional of the of Picentini mountains ", the project " MO.RI.CA " to avail of the funds of the Measure 1.9 of the P.O.R. Campania 2000-- 2006 for a total amount corresponding to 400.000.00 Euro.

The target of the project is the safeguard of the correct use of the water resource, concentrated in the circle of territories of communes of

- 1 Caposele
- 2 Calabritto
- 3 Bagnoli Irpino
- 4 Oliveto Citra
- 5 Campagna
- 6 Eboli
- 7 Senerchia
- 8 Lioni

It also imposes a careful and detailed study on the quantization of volume of the available water in comparison with the volumes transferred to other regions.

The project therefore foresees the arrangement of a monitoring network both qualitative and quantitative in telemeter, with the target to quantize:

- 1 Water resources available
- 2 Water resources transferred to other regions
- 3 The safeguard of the [idrogeological] and hydrodynamic equilibrium of the water resource
- 4 The safeguard of sites of spring areas
- 5 Realization of a computer territorial model of acquisition and management of information on the water local resources].

In brief, the MO.RI.CA project intends to acquire the knowledge and the necessary elements to implement the courses for the protection of the water resources in the respect LOWEST LIFE OUTFLOW (DSL's 15 2/99).XXXX

The project provides for an initial stage of activities directed to the critical analysis, to the organization of the available knowledge, to the respect of the anthropic impact and to the definition of the integrated budget of water availabilities followed by a proposal stage oriented to the definition of sceneries and to the sustainable objective of improvement correlated to proposals, intervention lines and actions.

Ended the phase of realization, implementation and update and after a phase of organization of the acquired information, we will proceed to the publication of the results.

Methods of publication:

- 1 Web-GIS dedicated entire and definitive
- 2 Realization of multimedia medium of diffusion (CD, DVD, presentations)
- 3 Printing of popular material
- 4 Realization of demonstrations to spread the results of the MO.RI.CA project.

The GIS will be updated simultaneously to the evolution of the studies, such as articulated in the |crono-program| of the MO.RI.CA project. Specifications of adjustment will be specified contextually to the definition of the activity of study both they made by the county clerks of the ABI Sele and from external advisors.

SILARUS PROJECT

Referring to the planning of interventions on the territory, the authority of interregional basins of the Sele River presented to the CIPE, in 1999, according to the resolution 70/98, an idea-plan, called "**Silarus**" for the realization of a study of feasibility finalized to the organic idrogeological setup of the basins of the Sele river.

The CIPE, with the resolution n. 106/1999, approved the co-financing of such study of feasibility and allocated 774.685 Euro to the programme (of which 50% in charge of the authority of basins and the remainder 50 % in charge of the CIPE). The study of "Silarus" feasibility, won with European competition by a temporary grouping venture and realized in the twelve months stated by the CIPE, got (decree n. 317 of the 23/11/2002) "the certification of consistency " from the Region Campania. For this certification the Study could have been inserted in a data bank instituted on purpose by the CIPE (deliberates Cipe 89/2002, "feasibility studies and their planning development"), for financing only the interventions already individuates among the studies of feasibility positively certified.

The study "Silarus" acknowledges the appeals and the demands of the local authority so they undersigned a specific protocol of agreement with the authority of basins of River Sele, on November 9, 2001,. In such a way the authority of basins of the Sele intended to sustain the development of a series of initiatives for the retraining and safeguard of the naturalistic, environmental, archaeological patrimony and historian of their own catchment basin. The study identified the need to realize interventions both of mitigation of the hydraulic and the landslides risk, and of expansion of the monitoring net and of the informative system. The realization of these interventions requires about 390.000.000 Euro.

WATER RESOURCE

Concerning to the management of the water resource, with particular attention to the critical-economic situation induced on the territory of competence, the deepening of the knowledge led the Apulia waterworks to the detection of Sele river-head and to the use, for hydroelectric purpose, of the Tanagro river waters, which is completely dried up in its stretch crossing Pertosa, and including the fall, an environmental symbol of the "caves", perverting the nature of the landscape, historically lived by the local population in symbiosis with the river.

Such collection of water is still regulated by grant and dispensation *legibus| naturae| solutis|*, which unbalance the anthropic and functional system of the basins.

All the emergencies can only be approached with political interventions, sustained from the monitoring of the territory and from studies on the administrative procedures.

For such reasons, in 1999, the authority of basins of the Sele constituted a special technical-legislative commission of study and investigation, with the participation of representatives of the Apulia Waterworks, which faced the problems concerning the great picking ups of water, with particular reference to river-heads of Caposele, and formulated operating solutions, of which the institutional committee took note with the resolution n. 2 of July 4th, 2003.

In terms of normative, it is important to underline that this authority of basins has to face considerable difficulty in the enforcement because the D.Lvo 152/99 and s.m.i, while renewing the regulation of the collecting and of restitutions of water and qualifying the authority of basins as body with the greater competence on management of the water resource, it is devoid of the necessary instrument of definition and application, chiefly relating to the "minimum vital outflow".

LIFE PROJECTS

Also in this centre it is important to remember that, due to the vast territorial extension, the financial resource aren't adequate to complete the studies and the activities. To overcome the evident difficulty connected to the fulfilment of institutionally imposed tasks has been necessary to seek alternative source of finance, undertaking the technical-operational reception office in the editing of project proposals. Two projects, elaborated to take part in the backing of the community program **LIFE**, result particularly interesting. The first one relating to the financial line Life-nature, is entitled "**Trota Macrostigma**" and intends to experiment an integrated qualitative and quantitative methodology to define both the minimum flow and the quality of the waters, according to the natural maintenance of the habitat and to allow the protection of the "macro stigma| salmotrutta| trout, today endangered species (estimated cost 620.000 Euro).

The other project, relating to the financial line **Life-environment**, has been elaborated in partnership with the University of Naples - planning and science territory department. It proposes the application, for demonstrative purpose and to scale of basins, of an innovative methodology to **oppose the process of desertification in action**. It is also foreseen, , the individualization, in the territory of competence of the authority, of water supplies which could be used in the event of natural catastrophes (cost expectation 1.000.000 of Euro).

ARCHIMED PROJECTS

Project "S.S.O.D."

"Strategic Survival over Desertification"

(Strategic survival to the desertification)

Total cost of the Euro project 1.065.000

The S.T.O. of the authority of interregional basins of the Sele River disposed jointly with the University Federico II of Naples (department of planning and science of the territory) a preliminary project titled S.S.O.D. (Strategic Survival over Desertification) (strategic survival to the desertification) which foresees the application to scale of basins hydrographical of an innovative methodology to locate **and exploit** water supplies in **the Sele** River basins. In particular, the project wants to individualize strategic reserves of pure water in the deep water-

bearing to be used only in the event of a that natural catastrophe or of terrorist outrage and however in the respect of the ethical dimension.

If the project gets the European financing, must be carried out in cooperation with international partners|: Greece (European partner)-- (external partner) international Palestinian authority.

The project has been proposed as a candidate to take part in the **P.I.C. proclamation (program of community initiative) INTERREG III "Archimed" b.** it was approved by the **nucleus of "Interregional" evaluation of the Region Campania on 28th of June 2005** and transmitted for the participation to the European financing.

IMOS PROJECT

Project " I.M.o.S."

infrastructures of underground monitoring

Total cost of the project: Euro 1.527.700

The technical operational reception office of the authority of interregional basins of the Sele river disposed a preliminary project denominated " **I.M.o.S** " for the realization of an **infrastructural net of monitoring for the correct use of the water underground resources of the water-bearing of Cervialto , Polveracchio and Rainone mountains.** In particular, the project aims to guarantee the environmental supportability of the water collection to safeguard the naturalistic value of the regional park of "Monti Picentini".

Since this project is in the territorial ambit of the regional park of the Picentini mountains, on April the 27th 2005, it was presented to the P.I.T. institutional table of the park, and was approved unanimously.

Later on the project was transmitted to '**Unità all| plan integrated authority of management of the P.O.R for the participation to the exam proclamation of premialità| to regional sketch, of which to the point 1.2, lett.b, of the CIPE deliberation n. 20/04 of the 29/9/04.**

At the moment we are waiting for the publishing of the list of the sponsored projects.

DMV - least vital outflow

The institutional committee of the authority of basins of the Sele , with deliberating **n°1 of on July the 4th 2003**, adopted the " **Definition and criterions of evaluation of the minimum river outflow in the catchment basins of the Sele river** ", to aim the technical operational *reception office* and the Competent Authorities, in the difficult task of establishing the minimum water requirements necessary to the environmental safeguard and to the river landscape.

HYDROS PROJECT

To strengthen the working synergy with corporate body on the territory, the S.T.O. predisposed, jointly with the technicians of Civil Engineers of Salerno, a project denominated " **Hydros - level of valorization of the hydraulic function of the submergible areas** ", that has been already presented in the circle of the P.O.R. Campania 2000-2006 measures 1.5 actions d).

The project foresees the integrated management of a system of boxes of expansion to locate in the territory of basins belonging to the province of Salerno. Boxes of expansion, besides having good capacity to reduce the risks of flood, can also be used for purifying processes and of artificial recharge of the underlying stratum, to benefit of the quality and of the quantity of water resources by destine to the human consumption (190.000 euro total cost).

TANAGRO PROJECT

"HYDRAULICS SETUP OF THE TANAGRO"

Total cost of works: € 3.000.000, 00

The technical operational reception office of the **authority of interregional basins of the Sele**

river predisposed a definitive project for the hydraulic environmental **setup of the Tanagro river - 1° intervention on the bad weather ditch in the commune of spring (SA).**

The project has been entrusted to the technical operational reception office by the regional addition of the Campania, with reference to the agreement of framework programme (APQ) " **defended of the ground** " and to when deliberated with **D.G.R. n° 630 of the 21.4.2005.**

The **Tanagro river**, in the feature that crosses the commune of **spring**, it is currently embanked by a building spondale| system in armed concrete.

Such works of hydraulic **defence** have been carried out fifty fifty of '90 years of the last century and currently it results be to boot stung, insufficiently tall, give up or strongly deform.

The purpose of the project (**1° intervention**) is that to *mitigate the alluvial risk currently present in the zone on account of the bad state of maintenance of the spondale| system of the river.*

Anticipated interventions are substantially interventions of maintenance, and in particular concern:

1. the hydraulic adjustment of the feature of river to guarantee the outflow of the course of flood;
2. the remaking of bank walls by the realization of walls to shelf in c.a. on poles;
3. the harvest and the putting in a steady state of surface runoffs;
4. it sow it and the mass to abode of autochthonous essences.
5. interventions for the containment of the banks, realized with gabionades grow green again, while the walls in concrete will be dressed with calcareous local heap of stones.

In consideration of the nature of works to perform himself can think that the techniques of naturalistic **engineering** that is adopted, they **will give a remarkable contribution to the stability of the system embanks it, in the full respect of the environmental context.**

INTERVENTIONS ON GROUND DEFENCE FOR THE QUADRENNIUM 2000-2003

according to the article 31 of the law 183/89 and following changes and integrations, this **authority of basins** has provided to the updating of the anticipatory and programmatic **schemes**, compiling the triennial programs of intervention, according to the **articles 21-22** of the **L. 183/89**, taking account of the addresses and finality of the plan it take off, to come true on the basis of the rivenienti availabilities by national laws of sector. following the **D.P.R. 9th May 2001, n° 331**, published in the **G.U. 18 August 2001, n° 213/I**, " **division of funds finalized to the financing of interventions on defended ground for the quadriennium 2000-2003** ", the institutional committee, with **deliberating n. 4 of on March 11, 2002**, has approved the program of priority interventions by finance in the quadriennium 2000-2003, according to the **comma1, art. 3**, of the cite d.p.r. in the territorial circle of competence (**Campania - Basilicata**).