CONCERT'EAU

Newsletter n°1

Concert'Eau Objectives

Concert'Eau is financed by the European Program Life Environment and by the Watere Agency of Adour-Garonne, steered by the partners and coordinated by ADERA-ECOBAG. The objectives are to demonstrate a Collaborative Technological Platform (CTP) as a decision support for actors of water and agriculture in the choice of scenarios of changes of agricultural practices. The decision support is based on :

- The definition of several scenarios of changes of agricultural practices by the actors ;
- The economic, social and environmental simulations and evaluations of the scenarios ;
- The visual comparison of the scenarios regarding their economic, social and environmental efficiency.

Context

At the European level, pollution of drinking water by pesticides and nitrates is important for most of the European member States ([1]). The stake the compliance of the Water Framework Directive and the Common Agricutural Policy by diminishing the impact of agricultural pressures on environment without decreasing the sustainability of farming.

Within the Adour-Garonne River Basin District, in 2015, 39% of surface water bodies of the Adour-Garonne basin risk not to reach the Good Satus defined by the Water Frame Work Directive. Nitrate and persticides are on eof the most important issues.

An area of demonstration. Within the Adour-Garonne RBD, " Gascogne Rivers" area that is of 6 800 km² (6 % of Adour-Garonne RBD) with 263 000 habitants, has been one of the Pilot River Basins (PRB) in the 2005-2006 period for the common implementation strategy (CIS) group for WFD implementation ([2]).
Within Gascogne Rivers PRB, 60 to 80% of the area are agricultural zones (maïs, sunflower, soya and breeding). 87% of nitrate pollution is originating from agriculture. According to the water basins, nitrogen surplus range from 30 to 80 kilograms of Nitrogen per year par an. Other origins of nitrogen are wasted waters from cities (6%), villages (4%) and industries (3%) (article 5 of WFD reporting for Adour-Garonne RBD, 2004).
According to the regional policy in the Région Midi-Pyrénées for pesticides, most of the territories of the Gascogne Rivers PRB have been classified as priority zones for reducing surface water pollutions 2005.

Within Gascogne Rivers PRB, actors of the upstream part of the River Gers basin (entitled zone "Gers Amont") (http://www.gers-gascogne.com), have been mobilized for several years to face the degradation of the quality of surface waters. Quality of drinking water is one of the main stakes for 30 000 inhabitants.
Within "Gers Amont, 65% of Water quality controls present at least one molecule with concentration higher than 0.1 microgrammes per liter. Total concentration of all the molecules are higher than 0.5

---

[1] Report of the Pilot River Basin Group on Agriculture - Phase II- period seeptember 2005 - December 2006. - 2007- Experience in Analysis of Pressures and Impacts from Agriculture on Water Resources and Developing a relaed Programme of Measures. Edited by M. Cherlet - Insitute for Environment and Sustainability.217 pages.

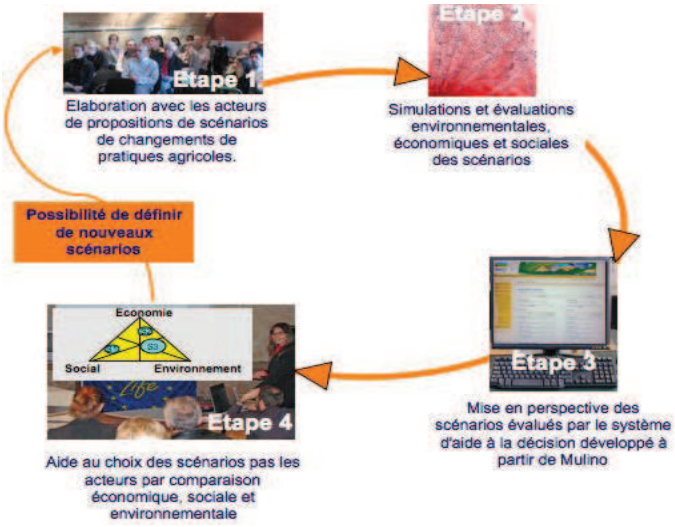
[2] The aim of the Common Implementation Strategy (CIS) is to allow, as far as possible, the coherent implementation of the Water Framework Directive, whilst focusing on methodological questions relating to achieving a common understanding of the technical and scientific implications of the Directive.

microgrammes per liter. This usptream Gers area is located within vulnerable zones for the nitrates.

Concert'Eau : A collaborative, iterative and transferable process.

Concert'eau allows to provide different levels of expertise during the process of concertation between the actors (Figure) :

- To elaborate several scenarios of changes of agricultural practices ;
- To simulate and assess the economical, social and environmental dimensions of theses scenarios ;
- To help the actors to choice among these scenarios.



Concert'Eau that is demonstrated within the "Gers Amont" area has to be developed in a way that guarantee the potential implementation in other territories. The potential of transfer will be evaluated by the partners of Navarre.

Partners

Agence de l'Eau Adour-Garonne : Martine Gaeckler (martine.gaeckler@eau-adour-garonne.fr)
CEMAGREF : Paul Bordenave (Paul.Bordenave@bordeaux.cemagref.fr)
CNRS : José-Miguel Sanchez Perez (sanchez@cict.fr)
CRANA : Eva Garcia Balaguer (eva@crana.org)
ENFA : Aris kephaliacos (kepha@educagri.fr)
Infoterra : Philippe Duthil (Philippe.Duthil@infoterra.fr)
INPT – ENSAT : Jean-Luc Probst (jean-luc.probst@ensat.fr)
INRA : Gilles Allaire (allaire@toulouse.inra.fr)
IRH : Georges Pottecher (georges.pottecher@irh.fr)
Silogic : Thierry Deltheil (thierry.deltheil@silogic.fr)
UT1 : Claude Vautier (claude.vautier@univ-tlse1.fr)

Contact : http://concerteau.ecobag.org.

Responsible of the Project : Philippe Vervier
Project manager : Jérôme Depasse (jerome.depasse@ecobag.org)
ECOBAG (secretariat@ecobag.org)
BP - 15 rue Michel Labrousse, 31 023 Toulouse cedex 1 FRANCE
Tel. : 33 (0) 5.34.63.78.33 ; Fax : 33 (0) 5.61.41.15.42