

A living project

The Ministry of Ecology and Sustainable Development and Spatial planning wishes that **ACTIF** finds its place among transport authorities and operators and has therefore set 3 main objectives for the **ACTIF** team :

- ▶ Spread the approach among contracting authorities
- ▶ Develop all **ACTIF** components
- ▶ Maintain optimal coordination with European architectures

Spread the approach:

17 preliminary studies have been realized during the two last year to help contracting authorities launch an urbanization approach of their transport systems.

These studies enable to map systems, partners, functions, to indicate potential deficiency and repetition, and to identify norms, standards and recommendations that should be applied.

Each study ends with organisational and technical recommendations to be implemented and with specifications concerning the future steps of the project.

Each study report is published on the web site. The contributions of **ACTIF** to different projects are presented in separate leaflets

Develop ACTIF

According to the feedback and proposals of different transport authorities, technical designers and suppliers, made particularly at the end of studies that have been done, **ACTIF** will be upgraded periodically :

- ▶ The method : the capitalization of experiences enables to improve the writing of methodological guidelines.
- ▶ The model : **ACTIF** version 5 has just been published in October 2007. Future versions will be regularly proposed in order to take into account the updating of technology and software and the evolution of services.
- ▶ The tools : the version 3 of OSCAR is available free of charge on the **ACTIF** website. This tool has been modified and improved so as to make it more user-friendly and to enable efficient team work.

Training and information tools are constantly updated. A sensitization unit is now on-line on the **ACTIF** website : www.its-actif.org

Maintain optimal coordination with European architectures:

ACTIF works closely on different projects in the world, in order to make the most of the foreign experiences and to enable the improvement and coordination of methods, models and tools, namely concerning cross-border transport.

There is thus a real partnership with the European architecture **FRAME**(www.frame-online.net) and the Italian Architecture for ITS, **ARTIST** (www.its-artist.org)

ACTIF Trainings : Where and how ?

There are regular **ACTIF** trainings: 2 or 3 sessions per year are organised according to demand, needs, projects in progress and upcoming projects.

The courses are in french. An english version of a lot of documents is available on the web site.

For more information

In order to enable the project participants to use **ACTIF** in better conditions, the Ministry of Public Works has set up the following services :

Web site : All the documents, tools, training support and references are available on the **ACTIF** website.

<http://www.its-actif.org/>

The **ACTIF**-team can help you work on your project and studies :

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The world of transport is changing, the work methods as well, implying the necessity to depend on a method in order to ask oneself the good questions and to organise projects (pg 1.)

This is the aim of ACTIF whose use is presented on pages 2-3: the contributions of **ACTIF** in Franche-Comté are in a separate leaflet.

ACTIF is also a project turned towards three main objectives defined by the Ministry of transport : the constant distribution and evolution of the model, and the coordination between European partners (pg 4.)

The world of transport is changing, the work methods as well.

The world of transport calls for more and more advanced new technologies in order to offer more diversified services and to answer the important needs for safety and sustainable mobility:

- ▶ Optimization of the transport infrastructures
- ▶ Regulation enforcement
- ▶ Multimodal traveller information
- ▶ Intermodality of transportation,
- ▶ Emergency management
- ▶ Comodale management of freight

These technologies rely on complex information systems whose upgradeability and durability must be guaranteed.

Moreover, the inter-modality issue brings the actors of different means of transport to work together. These evolutions in the world of transport require a new approach in project piloting and management in order to avoid the deployment of systems that are not compatible and difficult to upgrade.

The upstream management and organization of transport systems is therefore an essential key to interoperability and durability of the systems and related investments.



Photo RATP

It is vital to provide the contracting authorities, and generally-speaking the participants of a project, with a method, a model and simple tools enabling quick and efficient thinking.

Aware of these stakes, the Ministry of Ecology, together with the actors of the world of transport, has launched a project whose aim is to encourage interoperability of transport systems via an approach of urbanization and architecture of the information systems.

This is how **ACTIF** was born (Aide à la Conception de systèmes de Transports Interopérables en France). Today, **ACTIF** is already used for the urbanization approach of the travel management system in Montpellier of the coordinated road information in Brittany, of the maritime motorway between St Nazaire and Bilbao, etc.

A method to ask yourself the good questions and... to organise your projects

ACTIF thus encourages the transport contracting authorities to build an architecture approach for their projects that will enable the organization of sustainable systems which will be able to communicate more easily between themselves. **ACTIF** offers transport contracting authorities:

- ▶ A **method** to run their projects in a complex context in which several partners and systems need to communicate (urbanization of information systems and interface).



- ▶ A **model**, backing this method, nowadays restricted to eight fields of activity interesting surface transport. It capitalizes on the joint experience of functional modelling of transport systems and their interfaces with other modes.

- ▶ **Tools**, free from rights, enabling the simple application of the method and utilization of the knowledge given in the model.

Using ACTIF

As from now on, the following are available and can be exploited:

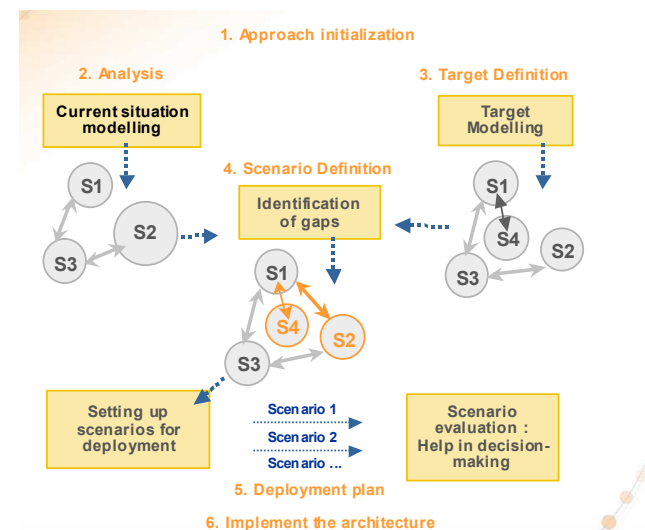
- ▶ A method of urbanization and conception of transport systems
- ▶ Functional models explained and documented
- ▶ Simple and free from rights tools to be used on each project

Method

ACTIF has formalized the transport systems' urbanization approach in a methodology guide. This document, meant for contracting authorities and transport systems' designers describes in detail the different steps of the urbanization process with the tools to be used and the resulting products.

This method of running projects quickly allows, before the technical design of the project, to ask oneself the good questions and to see how to answer them:

- ▶ Identification of the environment of the project, with the systems and partners as interface
- ▶ Identification of the needs and constraints of each partner
- ▶ Functional description of the system : responsibilities and functions of each partner.
- ▶ Description of information exchanges between partners and systems



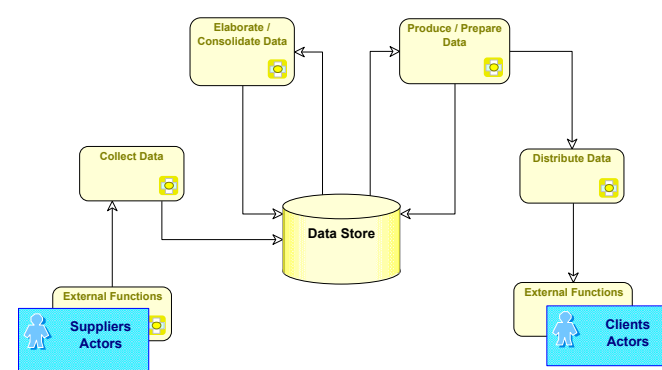
Model

This is a transport profession repository. It proposed simplified representation of each professions from an information system angle (data collection, processing, storage and dissemination functions).

Transport professions have been split into nine functional areas that may be found in all similar projects in Europe :

- 1: Provide electronic facilities payment
- 2: Manage emergency and safety services
- 3: Manage transport infrastructures and their traffic
- 4: Operate public transport
- 5: Provide drivers' assistance systems
- 6: Manage transportation coordination and inform on journey
- 7: Enforcement regulations
- 8: Manage freight and fleet operations
- 9: Manage shared data (between domains)

The modelling of each field has been the subject of an important consultation and stems from the experience of partners of different sectors. It also results from feedbacks of the different ACTIF application



Generic Architecture Model

Each diagram offers a simplified representation of the working logic of different sectors and interfaces to ensure, between them and their environment. The current version of the ACTIF model is, since October 2007, the version 5.

Model (continued)



Photo DDE 69

The model is available on the **ACTIF** website via several diagrams..

Functional views

They present the functions, the exchanged messages and the interfaces to be guaranteed (namely with the other means of transport)

Thematic views

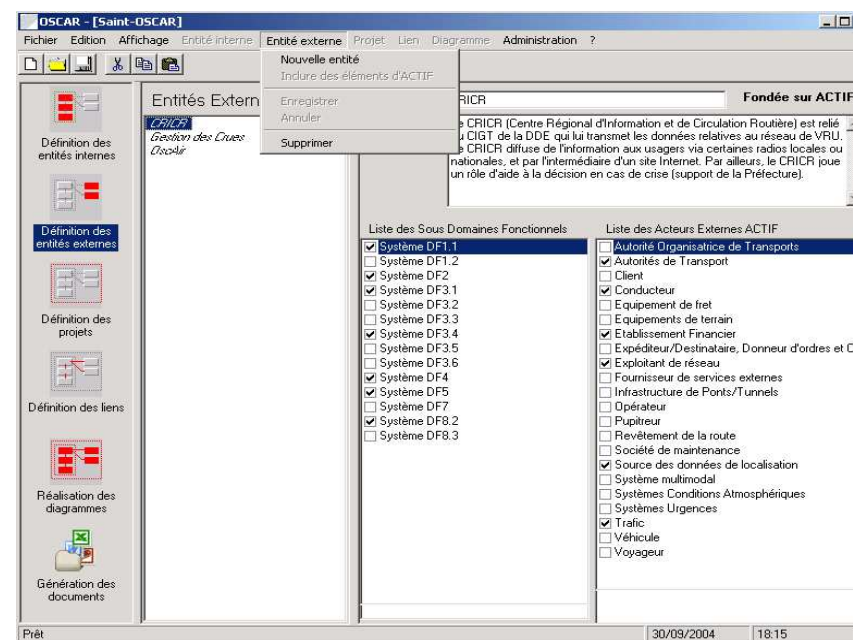
They present all the functions, messages, norms and recommendations for a given process.

The modelled objects are characterized by:

- ▶ The collection, treatment and spreading of information, to be done
- ▶ External partners with whom information must be exchanged
- ▶ Information exchange with external partners and between functions
- ▶ The data stock enabling to save information
- ▶ The norms and standards applicable to each object

A set of documents describes the general logic of modelling and the application of each logic to each profession, and the possible use of the model.

Tools



OSCAR screen

Several tools are available free of charge to facilitate the use of **ACTIF**.

The Ministry of Ecology and Sustainable Development and Spatial planning has created a simple and free from rights software. This application tool named OSCAR (for Outil Simplifié de Creation d'Architecture - Simplified tool for Architecture creation) enable to design a first layout of the functional and organizational architectures of transport systems projects : diagrams show clearly the information exchanges which must be insured.

The third version of OSCAR is available since October 2007 on the website : <http://www.its-actif.org/>

This website also allows one to navigate in the model, to have access to the **ACTIF** documents (guides and applications) and to some training tools.