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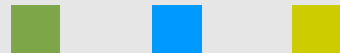
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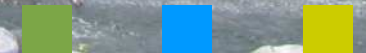
### Main partners

Sandre is working together with public and private contributors



French National Service for Water Data and Reference Datasets Management

**A common framework to share water and aquatic environment knowledge**

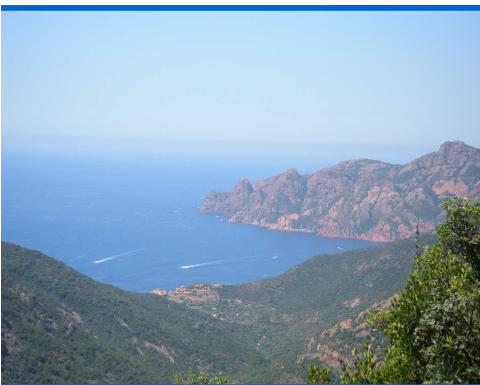
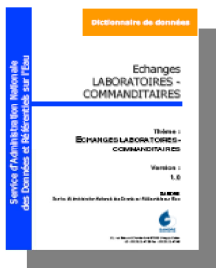




The Sandre establishes the common water data language of the French Water Information System and is lead by the « Office National de l'Eau et des Milieux Aquatiques ». Its technical secretariat is entrusted to International Office for Water/ Office International de l'Eau declared as public utility association.



More than 3000 pages of unrestricted use specifications



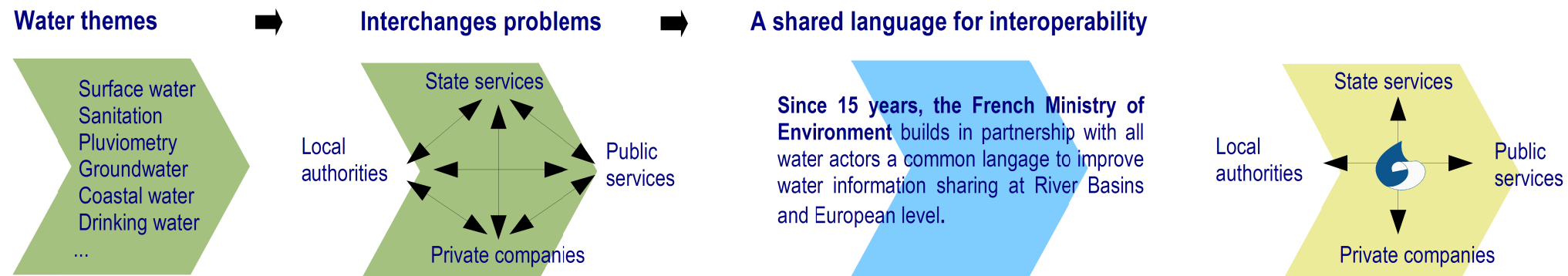
More than 15 years of experience in data management

## Knowledge as a backbone for action

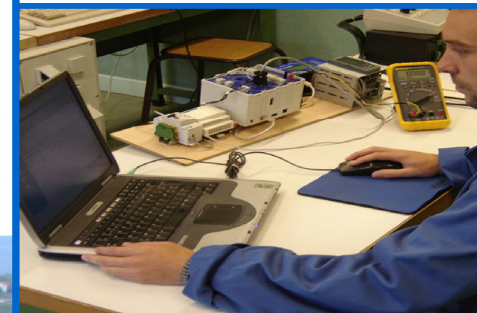
Without a shared knowledge, we can't understand, decide and act. To build such a knowledge many stakeholders acquire data and organise them in information systems. How can this information be shared and understood by everyone the same way ?

## The Sandre establishes the common water data language

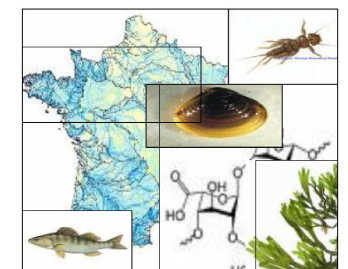
The Sandre provides water stakeholders conceptual and technical tools enabling them to make their information systems interoperable.



More than 10 000 users some of which are audited and labelled



More than 30 000 elements (taxa, substances, methods ...) codified and with unrestricted use



### Let's speak of the same things

Depending on water themes and water uses, experts use a specific technical vocabulary. For example, the « basin » concept has not the same meaning for an hydrologist or for the public authorities. In a data interchange context, the concepts have to be precisely defined and understood by everyone in the same manner.

### Let's use common reference lists

Experts use different technical terms to represent the same objects. For instance, a same chemical substance or a same fish can have different name depending on the expert and its field of expertise or the region. In a data interchange context, these information have to be rigorously codified to be uniquely interpreted.

### Let's put the data at their appropriate place

Many information are geolocalised (by their coordinates) and interpreted in regards to well known geographical objects (relief, routes, dams, etc.). In a data interchange context, these information have to be based on common models and geographical reference datasets. Moreover, to correctly use these data, it is necessary to have information on these datasets: the « metadata ».

### Sandre Products

#### Specification documents

Sandre specification documents are *data dictionaries* describing the information used in the French Water Information System (SIE), *exchange protocols* to share and disseminate datasets. They are used to building databases, data interchanges files, webservices, etc.

#### Reference datasets

Datasets managed by the Sandre are core information, alphanumeric (ex : chemical substances codes and water living organisms) or geographical (ex : waterbodies), necessary for the interoperability of SIE compounds (softwares, databases, etc).

#### A helpdesk for specifications implementation

The Sandre provides technical support for the use of its specifications and reference datasets. The team makes regular audits of computer systems (softwares, databases, etc) to check their compliance and deliver a label.

Sandre Specification documents and datasets have unrestricted use

### Sandre activities

The Sandre describes water data and defines technical scenarios allowing data interchanges between producers, users and databanks. Sandre manages reference core datasets, basis for data interchanges. Sandre disseminates these specifications and datasets under Free Content License. Sandre is doing audits and delivers a compliance label.

#### Method

The Sandre works in partnership with public and private contributors and submit its documents and datasets before their dissemination to expert groups in charge of their implementation.

#### French Water information system (SIE)

SIE is designed to answer stakeholders' needs (including the general public) as regards public environment information in the water field. It collects, store and disseminate water and aquatic environment use data and indicators. The entry point is [www.eaufrance.fr](http://www.eaufrance.fr).