



Extrait du OIEau

<http://www.oieau.fr/iowater/our-projects-news-and-update/article/sandre-technical-secretariat>

"SANDRE" Technical Secretariat

- IOWater - Our projects : news and update -

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OIEau

Establishing a common language

Given the proliferation of the information systems used and the growing need for data, the "SANDRE" was created in 1992 to simplify the exchange of these data between the various French public and private stakeholders. It thus offers a unique exchange interface and addresses the need to establish a common language between partners from the water world.

Through "SANDRE", many tools are then developed to allow the stakeholders concerned to make their information systems interoperable : dictionaries and exchange scenarios and web services, reference data, a cartographic atlas, a metadata catalogue, audits of computer systems, compliance labels, etc.

"SANDRE" is proposing more than 20,000 pages of technical specifications. It establishes compliance labels for over 15,000 files per year and more than 30,000 interventions (taxons, substances, etc.). Its website receives more than 817,000 visitors a year.

IOWater was entrusted with "SANDRE" Technical Secretariat since its establishment in 1992 and, now, with the support of the National Agency for Water and Aquatic Environments (ONEMA).

As "SANDRE" Technical Secretariat, IOWater especially intervenes for :

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INSPIRE

Under the European INSPIRE Directive, IOWater is a contributing member to the writing of specifications on the interchange of water data.

An approximating of SANDRE and INSPIRE models is updated on the "SANDRE" website.

The new "SANDRE" data dictionaries related to the administrative repository and to sections for flood monitoring are now compatible with this European Directive.

The new "SANDRE" data dictionaries related to the administrative repository and to sections for flood monitoring are now compatible with this European Directive. The result of this "SANDRE" / INSPIRE approximation is materialized by a new "SANDRE" product. This is a new specification document named "SANDRE" -> INSPIRE transformation scenario.

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INTEROPERABILITY

IOWater participated in the "Hydrology" Sub-Working Group of the Open Geospatial Consortium (OGC). This international sub-group is interested in describing and sharing geographic data on hydrology. It produces OGC standards that IOWater uses for the dissemination of "SANDRE" reference frames.

As part of the implementation of a "data Web", IOWater has established a catalogue of "SANDRE" resources. As a bar code of a product, each "SANDRE" resource is identified by a URI (Uniform Resource Identifier) and is accessible through the address id.eaufrance.fr. As a logical continuation, IOWater developed its Master Data Management (MDM) to manage and disseminate "SANDRE" reference frames, according to this new semantic model. Very soon, the whole web will be able to link almost automatically to "SANDRE" references frames.

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Data quality

About 12,000 "SANDRE" certificates were issued to stakeholders producing data on "**Self-monitoring of wastewater treatment plants and collection systems**".

A "SANDRE" scenario defines the modalities of exchanging self-monitoring data between the different stakeholders involved : Contracting Authorities and operators of wastewater collection and treatment systems, Water Agencies, technical assistance services, Water Police Services, etc.

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Flood forecasting

With the French **Central Hydrometeorology and Flood Forecasting Support Service (Schapi)**, IOWater modeled the flood forecasting data that are based on the notion of potential flood-prone area.

The latter represents the flooded surface or the possible flooding area with a water depth measured on a limnimetric scale at the nearest or most representative gauging station.

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Monitoring Stations for inland surface water quality

The repository of the French stations monitoring inland surface water quality, administered by the Water Agencies for continental France and the Water Offices for Overseas, currently consists of nearly 23,000 monitoring stations and of their 73,000 sampling points.

Constituting the reference information for many WIS applications, this repository is regularly updated by IOWater on SANDRE website.