



# "Regards Croisés" sur l'Influenza aviaire



15-19 / 12 / 2008 • Montpellier • France

Rencontres scientifiques autour de deux projets de recherche :  
Scientific meeting around two research projects:

GRIPAVI (CIRAD, MAEE) & ARDIGRIP (AIRD)

## *SIST overview*



*Regards croisés sur  
l'Influenza Aviaire*

*December 2008*

*Montpellier*

-

*Thierry Helmer*

*CIRAD*

*Thierry.helmer@cirad.fr*



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**SIST project**

### A project from the French Ministry of Foreign Affairs (Priority Solidarity Fund)

- 9 african countries (Algeria, Benin, Burkina-Faso, Cameroon, Ghana, Madagascar, Nigeria, Senegal, Tunisia)
- 3 millions EUROS
- Started on january 2004, end on may 2009
- [www.sist-sciencesdev.net](http://www.sist-sciencesdev.net)



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### **Main functions of SIST**

## **Main features of the SIST**

- **A powerfull access to all kind of scientific and technical informations avialable on the Web**

A search engine able to query most of STI sources

- **A collaborative workspace**

A set of tools to create and to exchange and to share and to disseminate informations

- **A web sites builder**

A contents managment system for no computer specialists to publish information on Internet



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**Scientific and technical information available today on  
the Web**

**-Thierry Helmer – In charge of SIST project - Technical and scientific information system -**



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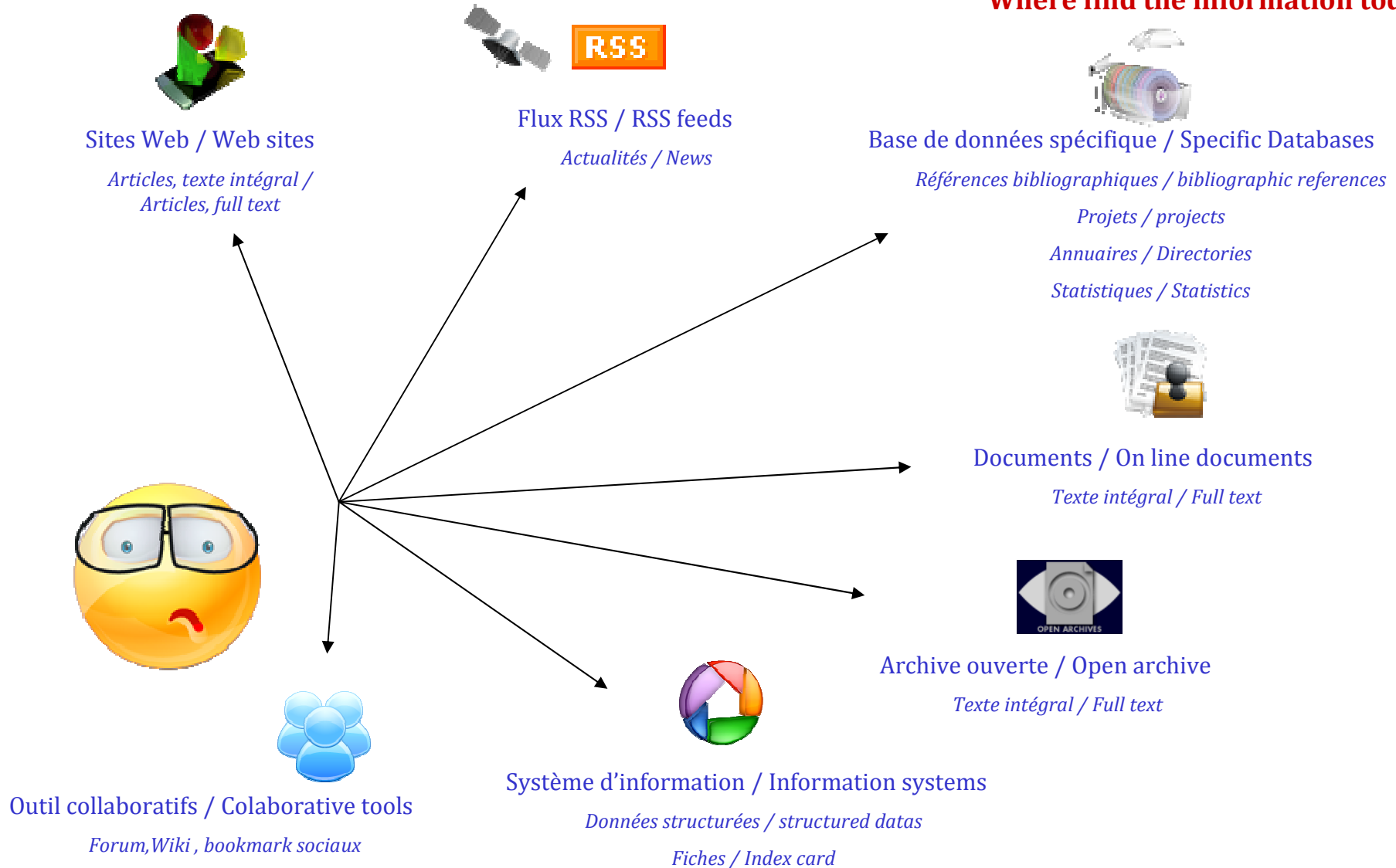
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## Where find the information today ?



**-Thierry Helmer - In charge of SIST project - Technical and scientific information system -**



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***Where find the information today ?***

### A great diversity of STI available on the Web ::

- Bibliographic databases (<http://www.fao.org/AGRIS/>)
- Thematic databases (projects, training, results ...) (<http://www.gefonline.org/>)
- Experts or organizations directories ([http://www.cirad.fr/fr/pg\\_recherche/index.php](http://www.cirad.fr/fr/pg_recherche/index.php))
- Full text repositories ([http://www.bondy.ird.fr/pleins\\_textes/](http://www.bondy.ird.fr/pleins_textes/))
- On line journals (<http://www.ajol.info>)
- Open Archives (Open Archive Initiative) (<http://oai.revues.org/>)
- News (RSS feeds) (<http://www.sciencedaily.com/rss/>)
- Forum (<http://forums.futura-sciences.com/forum20.html>)
- Wiki (<http://fr.wikipedia.org/wiki/Accueil>)
- Articles on Websites (<http://www.jeuneafrique.com/>)
- Electronic documents repositories
- Information system on line (<http://www.infosysplus.org/>)
- Blogs, social bookmarks .. (<http://delicious.com/>)



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### **Due to a lack of knowledge, lot of scientists limit thier search possibilities by using only few tools :**

- Web search engine (Google, altavista, Yahoo ...)

Only are concerned : website articles and some full text documents. On line data bases aren't indexed by this kind of tools

#### **Bibliographic databases (dialog)**

Not free information as bibliographic references of full text documents

- RSS feeds

Some scientists recieve Rss feeds in thier mailbox but they don't have any time to select interesting news

- Colaborative work tools (Forum, Wiki, Blog, Socials Bookmark)

Few scientists exchange information thank to colaborative work tools

**Informations stored in the « deep web » are ignored (dynamic web pages, web forms, attached documents whose the format is not supported by the indexing engine) and those informations are yet the most important and relevant.**



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Sites Web / Web sites  
*Articles, texte intégral /  
Articles, full text*

Google, Yahoo,  
Altavista ....




Flux RSS / RSS feeds  
*Actualités / News*

Firefox ...



Base de données spécifique / Specific Databases  
*Références bibliographiques / bibliographic references*

Projets / projects  
Annuaire / Directories  
Statistiques / Statistics




Documents / On line documents  
*Texte intégral / Full text*

Google scholar




Delicious ...

Outil collaboratifs / Collaborative tools  
*Forum, Wiki, bookmark sociaux*



Système d'information / Information systems  
*Données structurées / structured datas*

Fiches / Index card



Archive ouverte / Open archive  
*Texte intégral / Full text*

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### **Difficulties to exploit datas**

## **It's difficult to find the righth information**

- **Where find information ?**
  - It's not possible today to know all URL of relevant ressources on the Web
- **How to manage a search ?**
  - It's difficult to learn functioning of all the sources querying interface
  - Each kind of ressource has her own search interface
- **May we trust in results ?**
  - How to be sure about the scientific validity of gathered datas ?
- **How to find quickly relevant information ?**
  - Each kind of information use a different way to display result (how to compare a directory index card with a bibliographic reference for instance ?)
- **How to keep informed ?**
  - New kinds of electronic information appear periodically (full text, RSS feeds, open archives ...)
  - New ressource locations, new querying interface, new tools to experiment



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### *SIST's approach main principles*

## SIST's project approach :

- **Take directly information from her source**

SIST doesn't copy information on a central database, SIST reads directly information at the source in the partner environment

- **Don't worry about data's supports and formats**

SIST looks for information whatever the resource's format. SIST uses a full text search.

- **Don't limit STI at databases only**

SIST is able to access most of STI forms available on the Web : websites ,specific web pages, RSS feeds, on line databases, webforms, open archives , documents's repositories ...

- **No work necessary for resource's owner to include a new resource in the SIST**

Adding a new resource in he SIST doesn't produce work for the resource's owner but just a small work for the SIST's administrator

- **Complete and not compete with existing systems**

SIST doesn't store information, SIST federates access between set of resources. May be those resources were never before displayed together. SIST valorizes existing systems

- **Do easier user's work**

SIST hides to users the resources' location, specific querying interfaces and data's formats. SIST transforms heterogeneous results into homogeneous results

- **Ensure technical perennity of the device after the end of the project**

SIST is an open source software, open to the whole computer's scientists community

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### The SIST solution : A meta search engine

*SIST meta search engine*

[Link](#)

#### A unique query to search :

- Databases on the Web (bibliographic databases, projects databases, directories, Electronic documents, Statistic databases, full text repositories ...)
  - Open archives repositories (OAI)
  - Web sites selected (like a Google interface)
  - Documents directories (local or distant)
  - Rss feeds (scientific news)
  - Structured MySQL databases without a Web interface but accessible through the network
  - Local (hosted by SIST) Fora or Wiki's contents
  - Electronic resources of SIST's partners (specific protocol)
  - Others SISTs
- **An unique format to display results**
    - RSS format (title, author, date, description and link)
  - **Always a link to the original resource**
    - Not a copy of the resource but just a direct link



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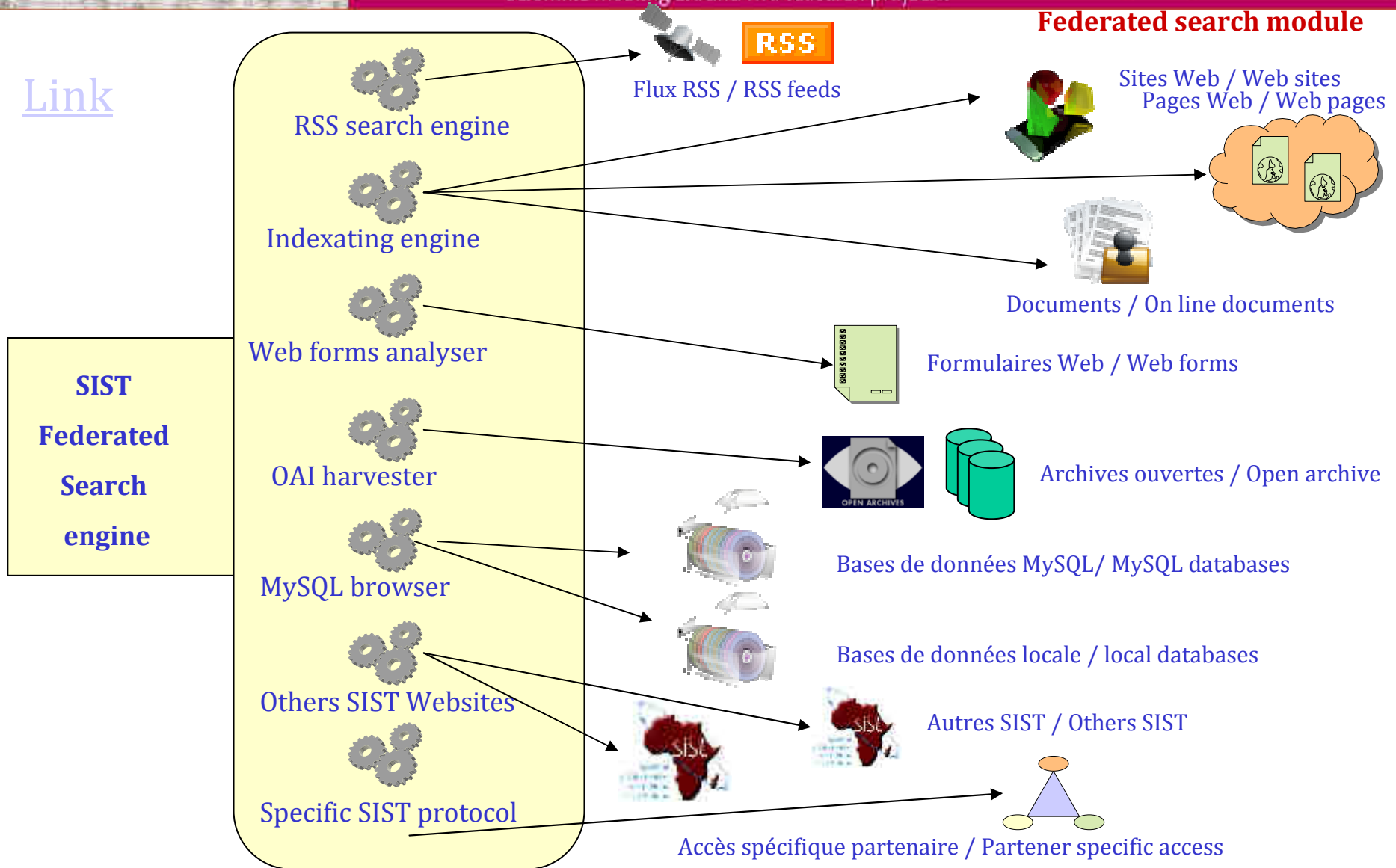
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Link



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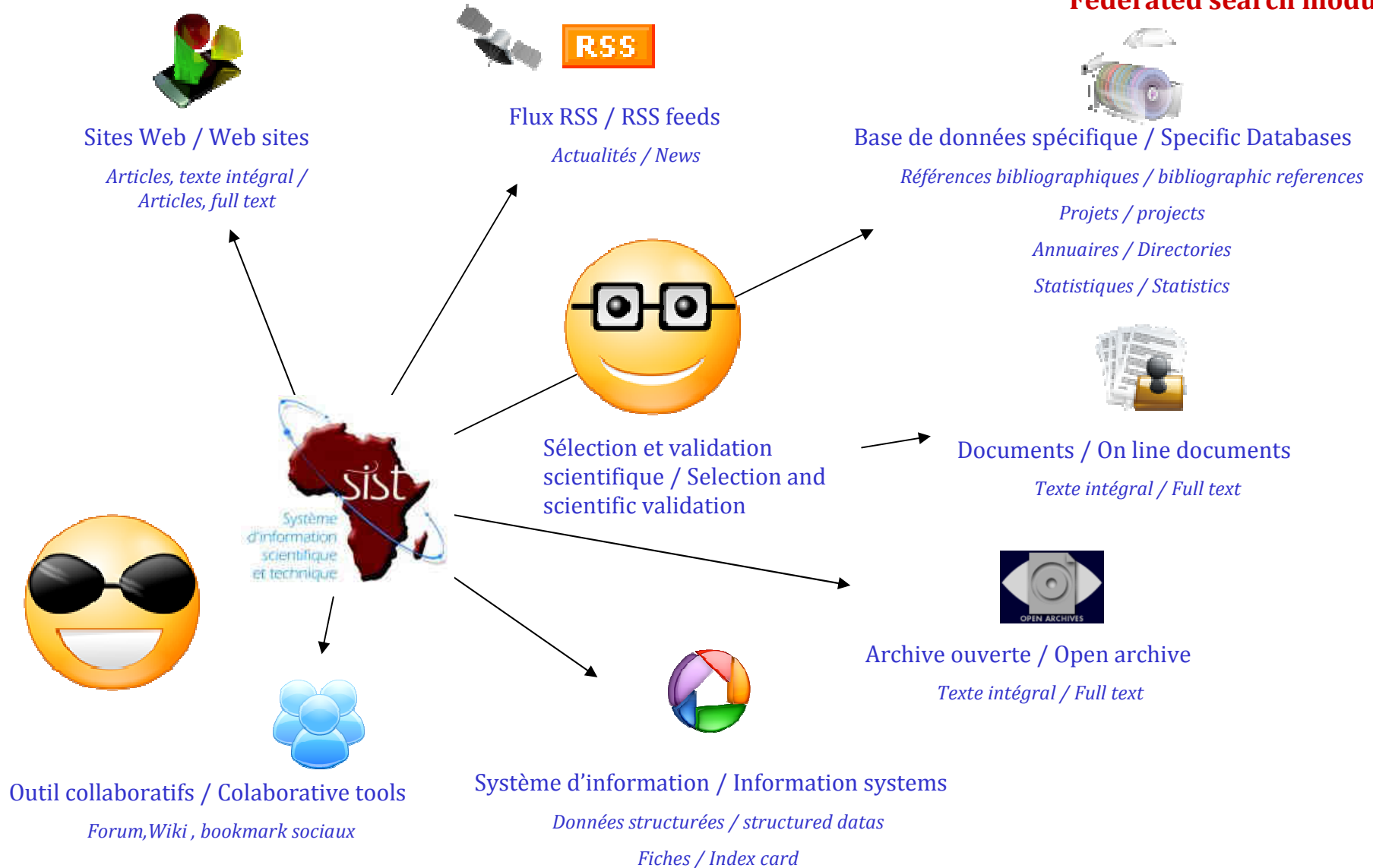
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## Federated search module



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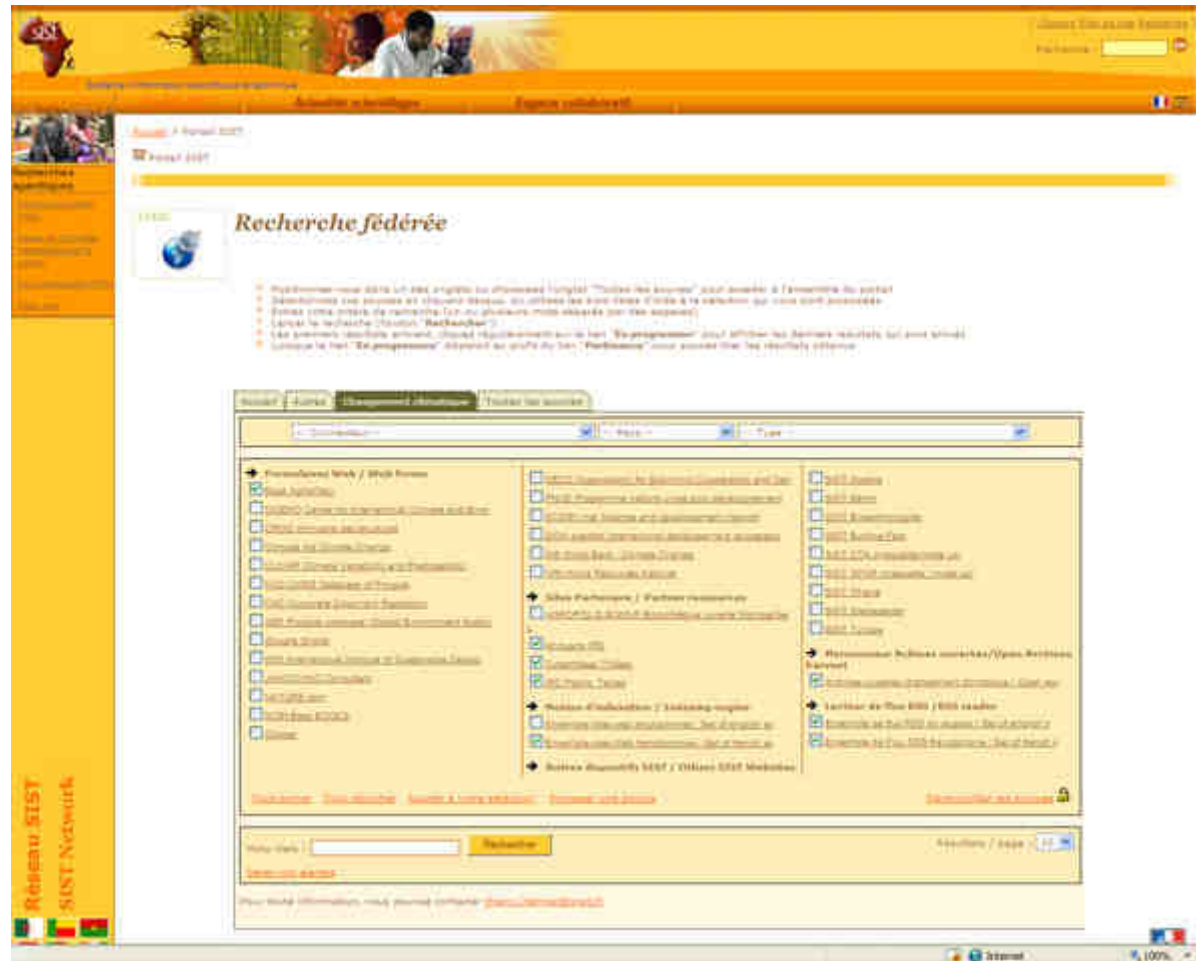
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*Querying ressources*



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## Results

The screenshot shows a web browser window displaying search results for the keyword "carbon". The search bar at the top contains the text "carbon" and a "Rechercher" button. Below the search bar, the results are listed with the following details:

- Number of results:** 777
- Terminé:** 7 / 7
- Page:** 128 de 1 à 10

The search results list includes the following entries:

- Jean-Marc Jancovici : climate change - Can't we put the carbon dioxide in a big hole and just ?** (5 stars)
- Marché du carbone** (5 stars)
- Jean-Marc Jancovici : climate change - how much more expensive with a carbon tax ?** (5 stars)
- Jean-Marc Jancovici : A tool for measuring the greenhouse gases emissions : the "carbon in** (5 stars)

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*A specific result consultation*

The screenshot shows a web browser window displaying a CIRAD website. The browser's address bar shows the URL: [http://dmat.cirad.fr/attenuation/actualites/marche\\_du\\_carbone](http://dmat.cirad.fr/attenuation/actualites/marche_du_carbone). The page title is "Changement climatique - Marché du carbone / Actualités / Atténuation - Windows Internet Explorer".

The website content includes a header with the CIRAD logo and the text "CHANGEMENT CLIMATIQUE". Below the header, there is a navigation menu and a main article titled "Marché du carbone". The article text reads: "Une coalition internationale dessine le futur marché mondial du carbone. Un mois avant la conférence de Bali sur le climat, une coalition internationale réunissant plusieurs pays européens, la Nouvelle Zélande et la Norvège, a été annoncée à Lisbonne. Le Partenariat international carbone (International Carbon Action Partnership) veut dessiner les contours du futur marché mondial des q. 2013."

The browser window also shows a sidebar with the CIRAD logo and the text "Information Annuaire des sites". The browser's status bar at the bottom indicates "Internet" and "100%".

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*Documentary watch*

### Broadcasting automatically datas from SIST : the Selective diffusion of information

[Link](#)

- A subscription system with personal profiles by subscriber
- Storage of search statement (query criteria + list of sources to be queried)
- An automatic rerun of searches on the meta search engine and on the selected syndicated Web sites at a frequency chosen by the subscriber
- Results are directly sent to the subscriber mailbox and/or sent as a RSS feed (in order to feed automatically a part of a Web site for instance)

**Remark :** Useful to set up a individual and simple alert system or to provide a solution to scientists with a not efficient communication network (asynchronous use of the SIST)



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## User's alerts

**Gestion des alertes**

Identification :

Email :

Mot de passe :

(A remplir uniquement pour changer de mot de passe)

Alertes en cours : [Afficher module "Module de recherche fédérée"](#)

N°	Module	Sources	Critères
1	Module de recherche fédérée	RSS GeneRef Bioéthique,RSS GeneRef Clonage,RSS GeneRef Génétique,RSS Checkbiotech Biovalley,RSS Checkbiotech Green,RSS Checkbiotech Orphan,RSS GeneRef Agriculture,Actualités AgBios,Journal AJOL,RSS GeneRef Génomique,RSS GeneRef Grippe aviaire,RSS GeneRef Nanotechnologies,RSS GeneRef Process,RSS ScienceDaily,Bouquet sites Web Biotech générales	Critères = 'biocarburant'
2	Module de gestion des flux d'actualité RSS	Actualité Avian Influenza USDA-NAL,Actualité santé animale USDA-NAL,Actualités Checkbiotech Orphan,Actualités GeneRef Génétique,Actualités ScienceDaily	Critères = 'virus'
3	Module de veille sur les sites Web	Site AAB,Site AfricaBio,Site Beca,Site Bic,Site Biopad,Site Biosciences Africa,Site ILRI,Site NABDA,Site Pub,Site AGBIOS,Site Agra-Net.com,Site Agrobiotech,Site Bioveg,Site Bioberh,Site Usda-nal,Site OJD,Site Bioworld Online,Site Checkbiotech,Site WhyBiotech,Site ESRC,Site FAOBioDeC,Site Genref,Site	Critères = 'biofuel', Thématique = 'Biotechnologies générales'

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**Extract of an alert's result**

Un conseil Solvay de physique doit réunir l'élite mondiale sur le modèle de ceux qui ont bouleversé la science du XXe siècle.  
 Date : Wed, 30 Nov 2005 12:58:43 GMT  
<http://www.lemonde.fr/web/article/0,1-0@2-3244,36-715861,0.html>

**Site : NASA Science**

**Shadows of Venus**  
 > The planet Venus is growing so bright, it's actually casting shadows. You may be able to see them this week.

**Thanksgiving Skies**  
 > There are some things you can only see from the window of an airplane.

**Mesmerized by Moondust**  
 > Using laser beams and electric fields, NASA researchers are catching individual grains of moondust and studying the curious way they behave.

**Radiation Resistant Computers**  
 > Researchers are developing advanced computers that can think clearly even when they're bombarded by space radiation.

**Space-time Vortex**  
 > NASA's Gravity Probe B spacecraft has gathered all the data physicists need to check a bizarre prediction of Einstein's relativity.

## REQUETES HUBBLE

Requête : zébu

Sources : OAIster, Entrepôts OAI moissonnés

**Julie PELLIZZONE Souvenirs I (1787-1815) et II (1815-1824) Transcription d'Hélène Echinard. Présentés et annotés par Pierre et Hélène Echinard et Georges Reynaud. Préfaces de Michel Vovelle (I) et**

Revue Scientifiques

> Ce sont deux forts et beaux volumes que nous donne l'érudition régionale dans sa qu'elle a de meilleur. Ces Souvenirs offrent un témoignage rare, celui d'une femme, en des temps troublés ; un texte foisonnant, éclairci par des notes multiples ; une avalanche de détails éclairants sur le passé de la cité phocéenne, ses travaux et ses jours ; des analyses politiques par une femme attentive aux événements de sa ville et d'ailleurs. Le deuxième volume apporte de surcroît des pièces complémentaires au dossier, qui éclaircit certains silences de Julie, réoit intime, décrivant ses relations conjugales sous un jour inattendu, Jeanne Julie Pellizzone, bourgeoise marseillaise née Mouligneux en 1768, déol idé en 1811, d'écrite ses souvenirs, ils couvrirent, jusqu'en 1838, année précédant sa mort, un millier de pages, en seize cahiers. Prenant pour modèle d'illustres devandières (Mmes de Caylus, de Genlis et Kotzebue, Julie veut raconter tout ce qu'elle a vu, pour que cela ne se perde pas. Elle affirme ne pas prétendre à la notoriété, mais vouloir entretenir sa mémoire, et faire part à ses amis comme à ses descendants de ses expériences de voyageuse et des femme soojable ». Ce n'est pas un journal destiné à l'introspection, mais le compendium d'une femme mûre, consciente des qualités de son esprit d'observation. On y trouve aussi l'exhibition d'un capital culturel : fille d'un peintre reconnu, Etienne.

> Auteur : MARAND-FOUQUET, Catherine;

> Date : 21/03/2003.

**Relaciones filogenéticas dentro del género Lagothrix "mono choro" (Primates: Atelidae)**

Portail Francophone des Thèses électroniques

> Los menos del género Lagothrix (Primates: Atelidae) conocidos como "choro común" incluyen 4 especies y 5 subespecies (Groves 2000). Estos están distribuidos en la cuenca amazónica y a lo largo de los andes centrales y del sur en Sudamérica. Sus relaciones evolutivas han permanecido por mucho tiempo inciertas. Usando el programa PAUP\* (Swofford 1998, versión 4.0b1) se llevó a cabo un análisis cladístico de dichos taxa con base en 54 caracteres de pelaje, craneales y dentales. Los caracteres fueron polarizados por comparación con el grupo externo, representados por Aotus seniculus, Ateles belzebuth, Ateles chamek y Oreanorhina vaucaudi.

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# SIST tools-summary

A meta search engine

A Open archive harvester

A Web sites and documents indexing engine

A Web interface builder for querying MySQL databases

An RSS feeds contents search engine

A customized alerts' system

A contents managment system

A lists of discussions (Forum)

Wiki ...

**An access to a wide range of scientific and technical  
information**



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# SIST

***Any questions ?***

Sist's example : <http://sist-reference.cirad.fr>  
SIST's project website : [www.sist-sciencesdev.net](http://www.sist-sciencesdev.net)  
[Projet-sist.dgcid@diplomatie.gouv.fr](mailto:Projet-sist.dgcid@diplomatie.gouv.fr)  
[Thierry.helmer@cirad.fr](mailto:Thierry.helmer@cirad.fr)



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