

Promoting the Open science culture in university libraries of developing countries: *case studies of the French-speaking universities of Belgium cooperation programs in the Global South.*

Dr **Frédéric Brodtkom**, Library Manager, Invited Lecturer,
UCL - Université catholique de Louvain
BST Library and learning center of sciences and technologies

Dr **Bernard Pochet**, Library Manager, Invited Lecturer,
U Liège - Université de Liège
Gembloux Agro Bio-Tech Library

for
ARES-CCD

*Fédération Wallonie-Bruxelles – Académie de recherche et d'enseignement supérieur
Commission de la coopération au développement*

Université catholique de Louvain

since 1425, ... at Leuven
and since 1973, at Louvain-la-Neuve and Brussel Woluwe
more recently in other locations

Six campuses in Belgium



Louvain-la-Neuve

Université catholique de Louvain (Belgium) : 14 faculties

(2015-2016)



> Human Sciences (15 773 students)

Law and criminology
Economic, Social, Political Sciences and Communication
Louvain School of Management
Philosophy, Arts and Letters
Psychology and Educational Sciences
Theology



> Health Sciences (7 753 students)

Medicine and Dentistry
Pharmaceutical and Biomedical Sciences
Public Health
Motor Sciences
Veterinary Medicine



> Science and Technology (5 330 students)

Sciences
Louvain School of Engineering
Architecture, Architectural Engineering and Urbanism
Biological, Agricultural and Environmental Engineering

UCL Library and learning center of sciences and technologies New building since sept.-2014



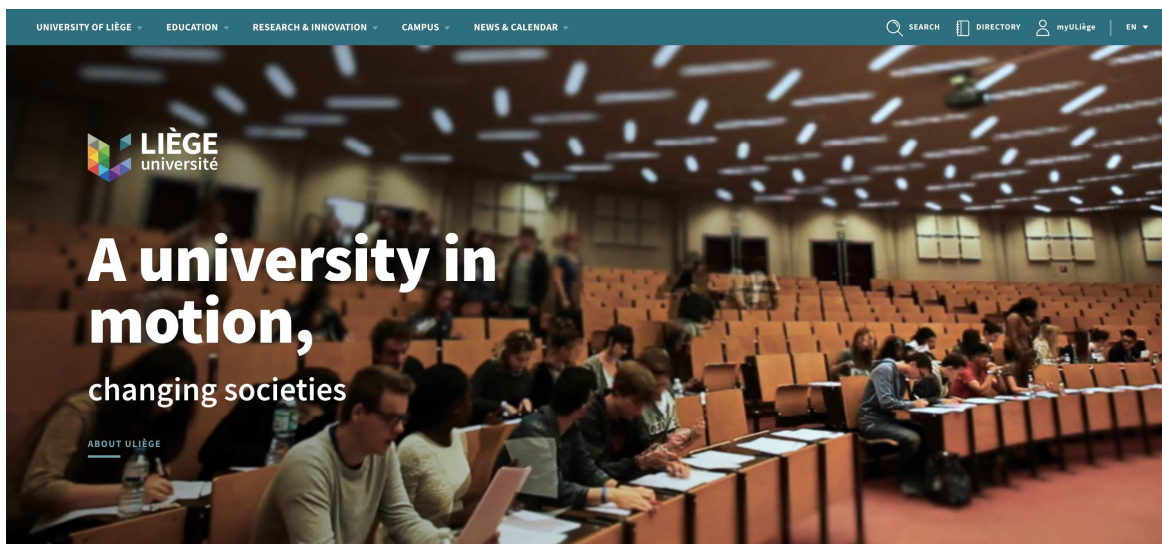
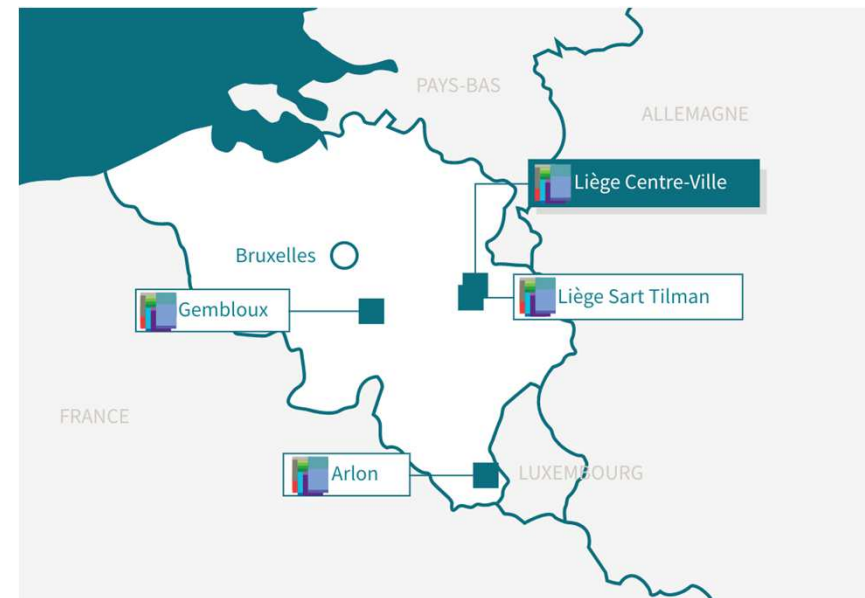


Université de Liège

since 1817, ... at Liège

1 university, 3 cities, 4 campuses

Liège city center, Liège Sart Tilman, Gembloux, Arlon



Université de Liège (Belgium) : 11 faculties - 23,758 students

- > **Human Science**
 - Architecture
 - HEC Liège, School of Management
 - Law, Political Science and Criminology
 - Philosophy and Letters
 - Psychology, Speech Therapy and Education Sciences
 - Social Sciences

- > **Health Sciences**
 - Medicine
 - Veterinary Medicine

- > **Sciences and Technology**
 - Applied Science
 - Gembloux Agro-bio Tech
 - Science



ULiège Library – The library as a service !

Five sub-libraries :



ALPHA



BSA



BST



BSV



Graulich



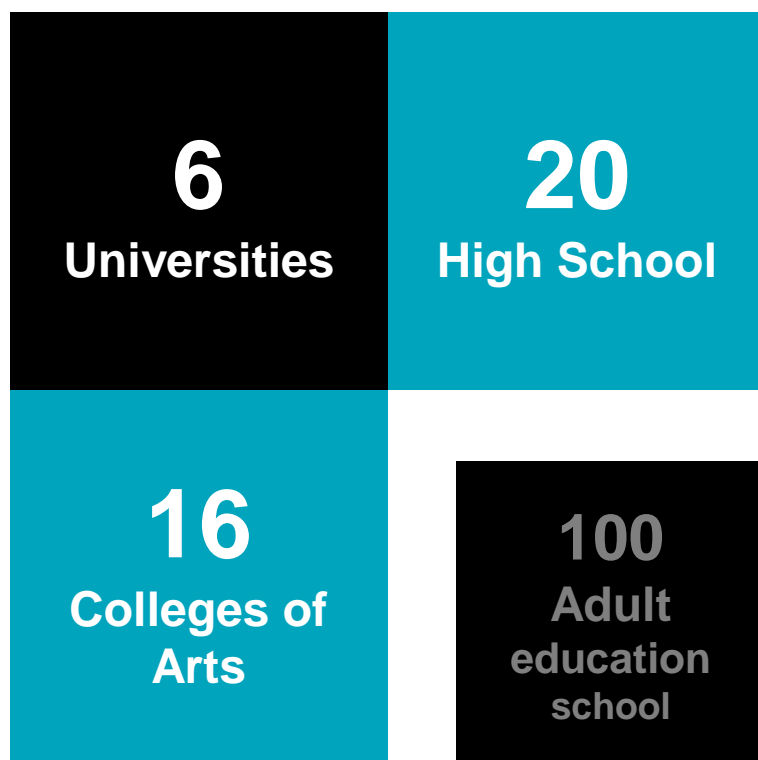
Then years of Open Access :



- ✓ Orbi : Open repository and bibliography
- ✓ PoPuPs : the publication portal for scientific periodicals
- ✓ MatheO : Master Thesis Online
- ✓ DONum : Deposit of Digitized Objects



ARES, the Academy for Research and Higher Education (07-11-2013)



- » Public interest body
- » Brings together the **42 French-speaking higher education institutions** of Belgium
- » And 100 adult education school
- » Carries out **general coordination** while preserving autonomy & specificities
- » Organises the **dialogue** & promotes **collaborations** at national & international level
- » Supports HEIs in their **Teaching, Research & Community service** missions
- » Strengthen **visibility**

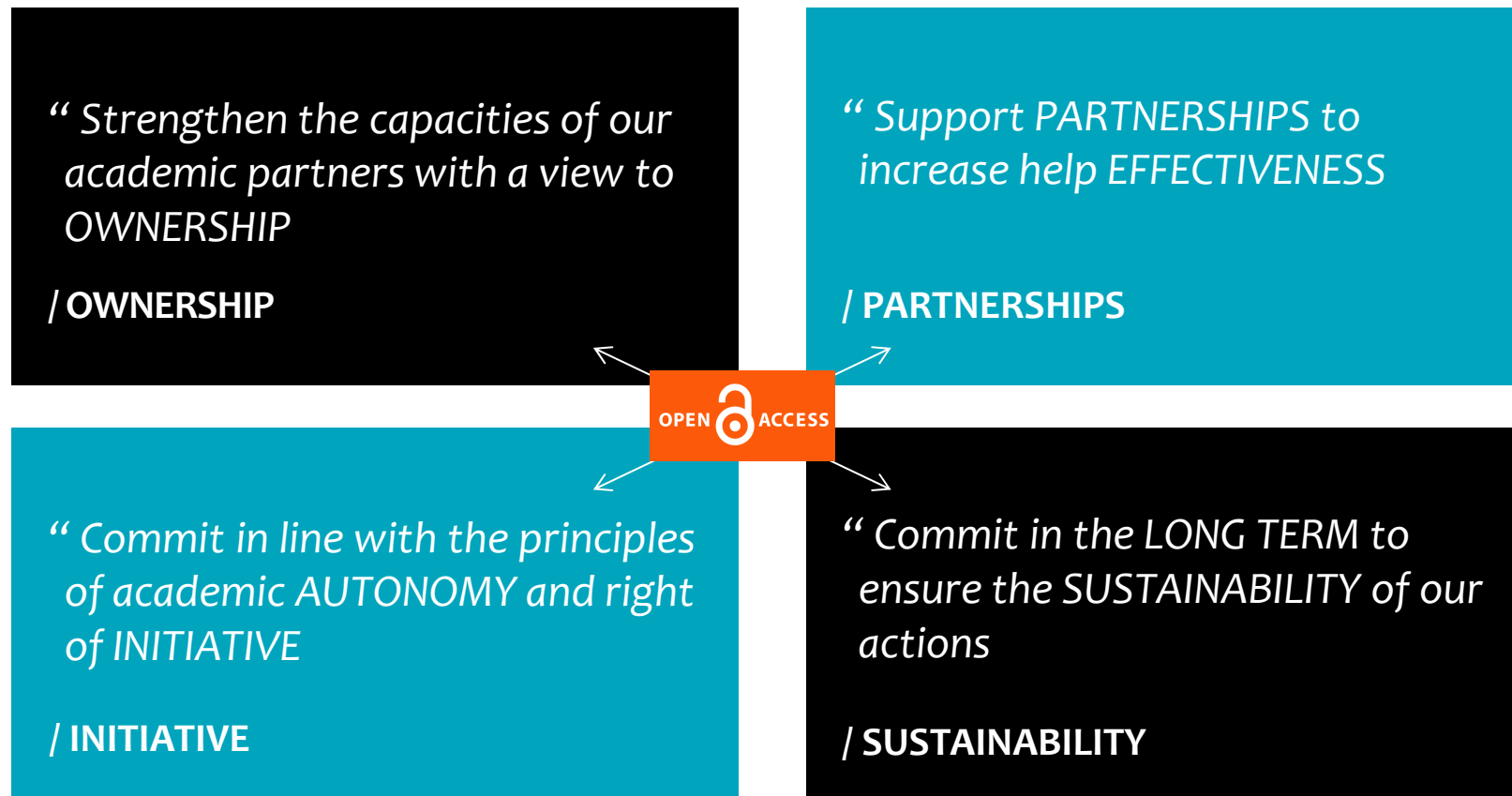
12(+3) Standing committees

Mobility	Information on studies	Success
Development Cooperation	International Relations	Student Life
Sustainable development	Quality	Research Valorisation
Statistics	Libraries & common services	Lifelong Learning

- » Prepare the **deliberations** on the topics they are dedicated to
- » Members chosen for their **expertise**: academics, teaching & research staff, technical & administrative staff, students...
- » **Students** comprise **50%** of 2 of them (Success & Student Life)



The ARES-CCD approach



31 M€

Annual budget for academic development cooperation / funding by the Belgian Federal Government

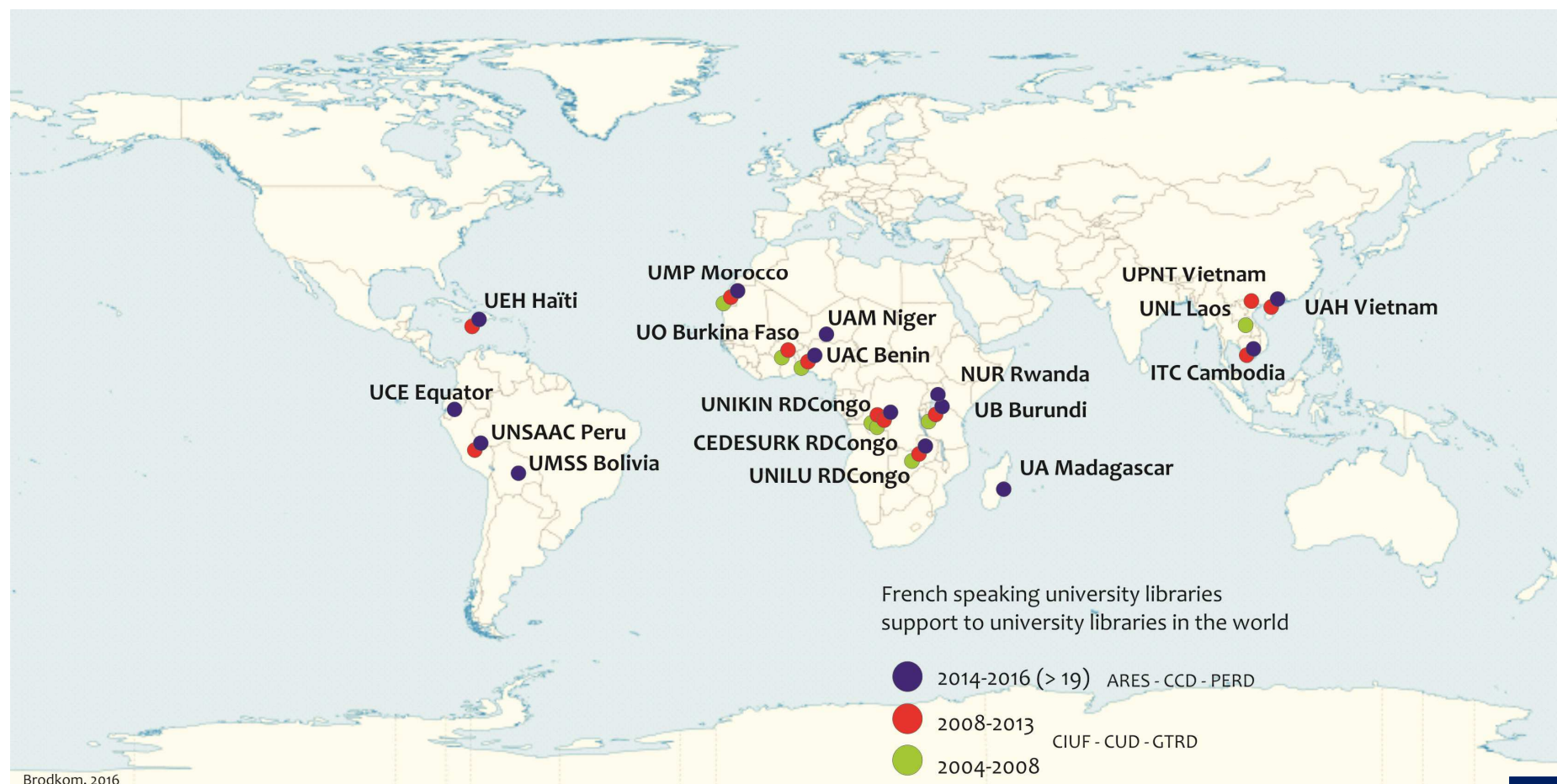
= 13.5% Belgian non-governmental budget for Development Cooperation



ARES-CCD-PERD : Group of experts in **documentary resources**





Actually (only volunteers !) : 12 librarians or library managers from 5 Universities and 1 Higher school and 1 representative of the ARES permanent staff.

B. Pochet and Fr. Brodtkom manage the group since 2013



Subresults expected for library activities

Before 2013 :

1. the number of **information resources** is increased 
2. the **services** to users are improved
3. the **quality** of libraries management is improved
4. the skill and **qualification** of staff are improved 
5. the **user's awareness** to digital and information literacy is improved 
6. the **spaces**, infrastructures and furniture in libraries are improved
7. the computer and **IT equipment** are increased 
8. the **network** and the collaborations between libraries are organized

After 2013 :

1 > 8

9. specialized courses to develop the **information literacy** of partners 
10. specific services for research are developed : **ILL**, supply of scientific papers, etc. 
11. scientific staff is formed to scientific writing and **bibliographic tools** (Zotero,)

			11. Institutional repository, University press,	
			10. Scientific writing	
			9. Interlibrary loan service	
			8. Access to specialized resources (OA) : AGORA, Hinari, JSTOR, DOAJ, BASE, ...	
			7. Methodology of documentary research	
			6. Good practices in the use of libraries	
			5. Good practices in the support of users	
			4. Organisation of library spaces and learning center	
			3. Electronic resources (OA or non-recurring resources : e-book, ...)	
			2. Catalog and ILS	
			1. Printed resources (books and manuals)	
BAC	MASTER	DOC		

The budget :

Actually, a budget for libraries and resources of ~ **40,000 EUR / year** is open for **each partner**.

Allowable expenses :

Investment budget

- > Computers, scanner, photocopiers,
- > Shelves, tables, chairs,
- > Small infrastructures : group rooms, reception desk,

Operating budget

- > Books (included expedition if purchased in Belgium)
- > Stationery, toner cartridge, pre-payment cards for cellular, ...
- > Learning sessions : lunch, location of materials,
- > Subscription to particular resources (Hinari, etc.)

Mobility expenses

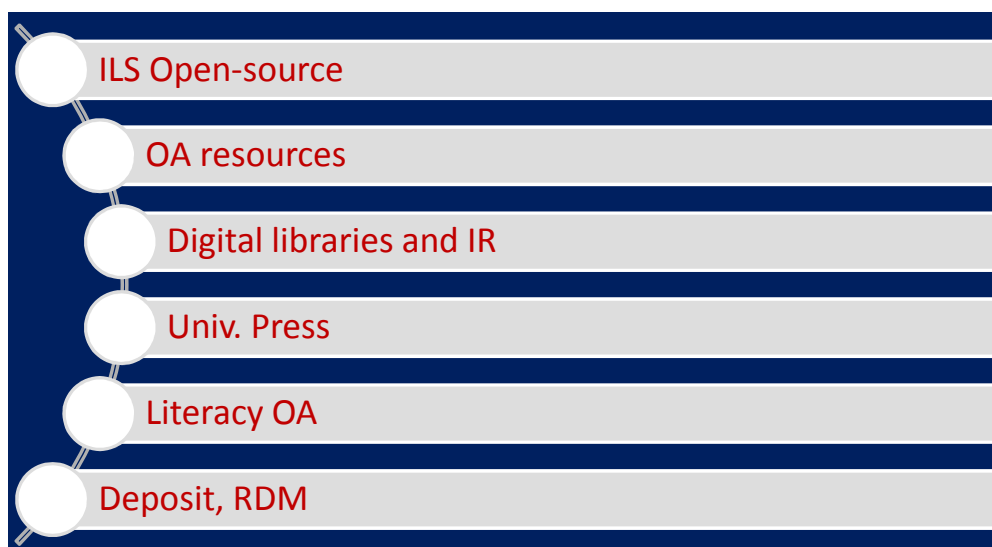
- > N/S missions (1 > 3 /year for 5 > 10 days)
- > S/N missions (2 missions/year of 1 – 2 librarians for 10 days)

Grant/awards for studies and training courses

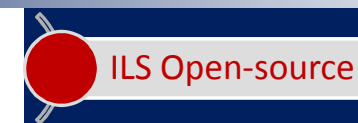
And what we do not accept to pay : recurring cost for journals, buildings, staff costs, ...

Promoting the Open Access :

- Installation, development and support of Open source ILS – PMB and KOHA
- Harvesting and promotion of OA resources (training session, PERD web site, ...)
- Development of Digital Libraries and Institutional Repositories (DSpace, Omeka, ...)
- Support to the development of university press to reduce/ abolish costs for students
- Training and awareness-raising of library trainers for OA use in the information literacy courses
- Promotion of the deposit of the research papers and results of cooperation programs in IRs



Installation, development and support of Open source ILS



In the years 2004-5, the PERD has paid a trainee to conduct a survey about the **Open Source ILS** available on the market. The situation of the catalogues and access to information was particularly problematic in some countries



The goal was :

- to identify which one of them will be the best suited to the needs and means (*particularly in human resources and capabilities*) of the university libraries in partnership with our cooperation.
- to develop the skill of some of our librarians (*because we use commercial ILS in our universities*) in order to ensure the sustainability of the implementation of free ILS in the partner libraries.

Two products have been selected :





version 17.05.01 of
KOHA on Debian 8.7

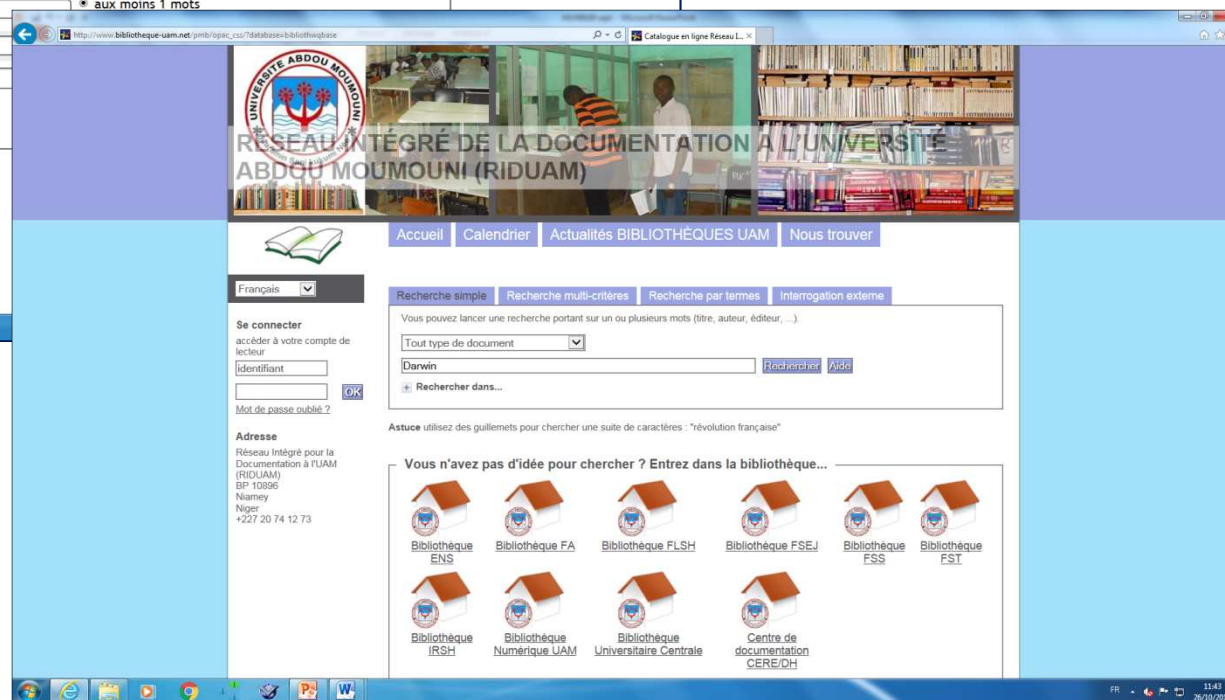
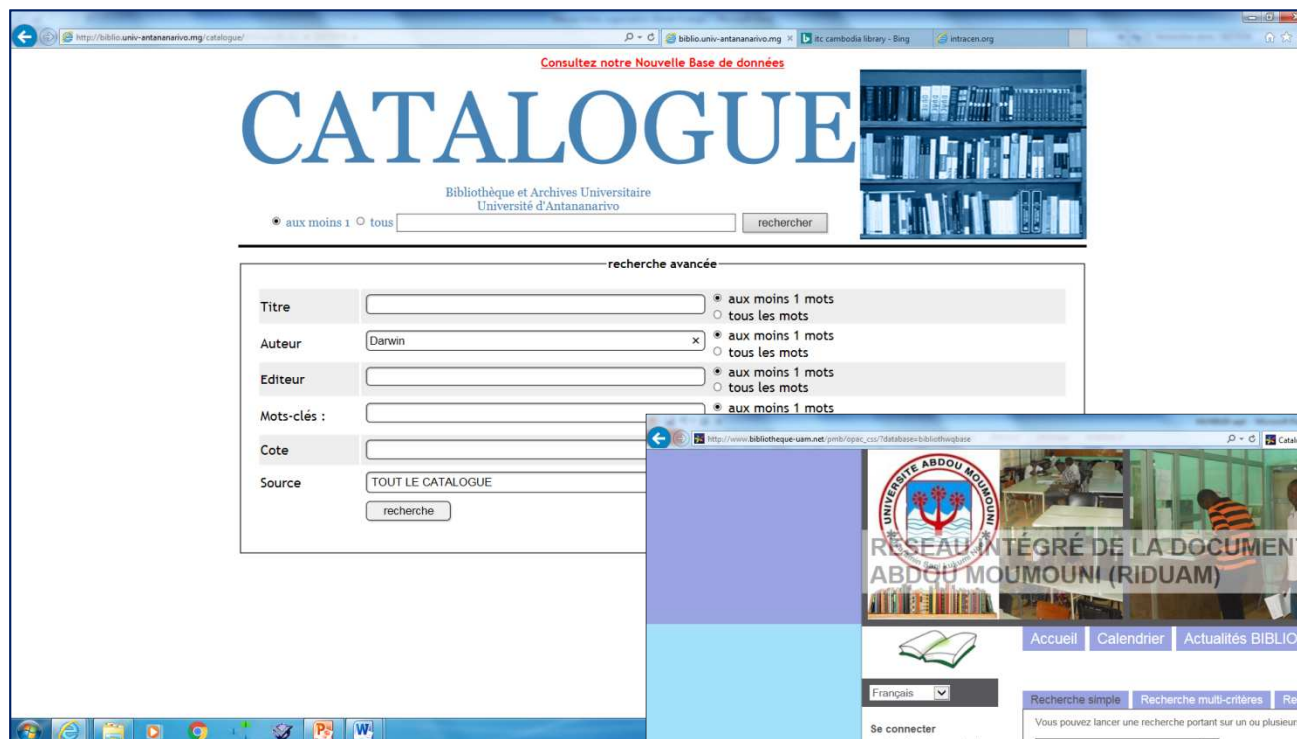
CEDESURK RD Congo
UAC Benin
UA Madagascar
UB Burundi
UNIKIN RD Congo
UNSAAC Peru

Libol : UAH Vietnam
ABC : UMSS Bolivia

...



ITC Cambodia (> 2015)
UAM Niger
UEH Haiti
UMP Morocco
UNILU RD Congo



<http://biblio.univ-antananarivo.mg/catalogue/>
http://www.bibliotheque-uam.net/pmb/opac_css/?database=bibliothwqbase

Activities :

Create local WG of cataloguers

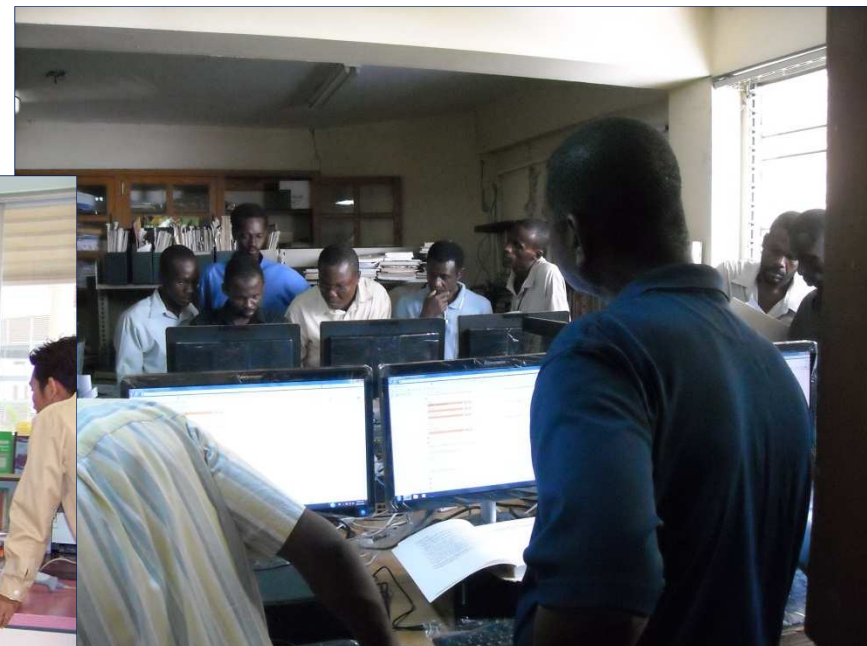
Financial support to installation (server, PC's, ...)

Training (in Belgium) of IT team dedicated to libraries

Training (in local libraries) of librarians to cataloguing

Manuals and Wiki

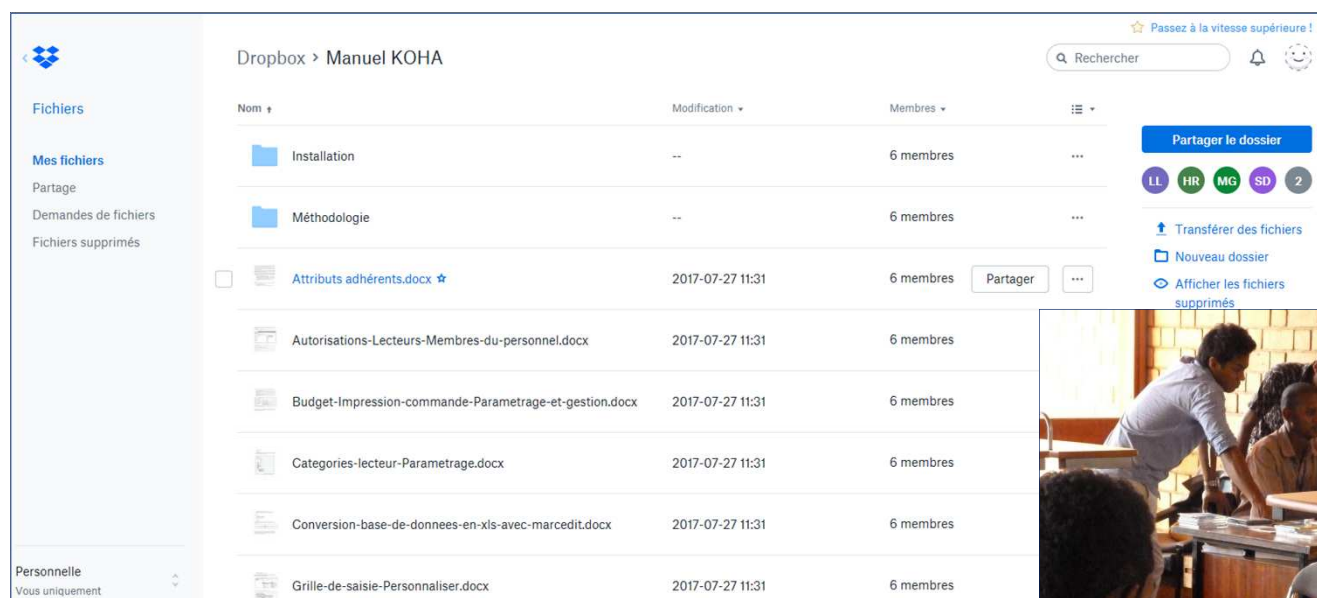
Meeting of users



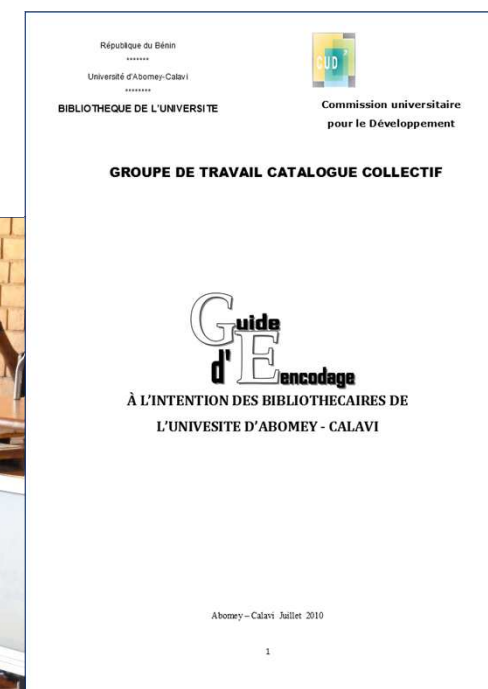
In 2018 the PERD will organize an intl' meeting with KOHA users. Participants come from Peru (UNSAAC), Benin (UAC), Madagascar (UA) and Belgium (UCL, UMONS).

The goal is the writing of a "KOHA manual for dummies" for current and future partners.

A collaborative platform was created on Dropbox to prepare the meeting.



Nom	Modification	Membres
Installation	--	6 membres
Méthodologie	--	6 membres
Attributs adhérents.docx	2017-07-27 11:31	6 membres
Autorisations-Lecteurs-Membres-du-personnel.docx	2017-07-27 11:31	6 membres
Budget-Impression-commande-Parametrage-et-gestion.docx	2017-07-27 11:31	6 membres
Categories-lecteur-Parametrage.docx	2017-07-27 11:31	6 membres
Conversion-base-de-donnees-en-xls-avec-marcedit.docx	2017-07-27 11:31	6 membres
Grille-de-saisie-Personnaliser.docx	2017-07-27 11:31	6 membres



République du Bénin
.....
Université d'Abomey-Calavi
.....
BIBLIOTHEQUE DE L'UNIVERSITE
Commission universitaire
pour le Développement

GROUPE DE TRAVAIL CATALOGUE COLLECTIF

**Guide
d'Encodage**

À L'INTENTION DES BIBLIOTHECAIRES DE
L'UNIVERSITE D'ABOMEY - CALAVI

Abomey - Calavi Juillet 2010

1

Harvesting and promotion of existing OA resources



- (CUD) ARES Portal of OA validated resources
- Support to subscription at UN alternative resources and research platforms (*even if all there content are not only from OA sources*) with a financial support to Group B countries with a low-cost access
 - HINARI of WHO
 - AGORA (FAO)
 -
- Learning sessions of presentation and demonstration of OA resources : for librarians and for academic and scientific staffs
- Participation to initiatives to increase the use of resources in OA

http://www.bsa.ulg.ac.be/cud/resource/

<http://www.bsa.ulg.ac.be/cud/resource/>

<http://www.who.int/hinari/eligibility/en/>

OA resources

WHO | Hinari Eligibility

English Français Русский Español

Log in

Search

Hinari

About Hinari

Access the content

Eligibility

Partners

Training materials

Promoting Hinari

Contributions

Hinari Eligibility

Hinari Core Offer includes two groups of countries, areas, or territories (Group A and Group B)

Local, not-for-profit institutions in two groups of countries, areas, or territories may register for access to the publications through the Core Offer of Hinari. The country lists are based on five factors: Total GNI (World Bank figures), GNI per capita (World Bank figures), United Nations Least Developed Country (LDCs) List, Human Development Index (HDI) and Healthy Life Expectancy (HALE).

— Details about the criteria by which countries, areas, or territories are categorized for the core offer

- Eligible categories of institutions are: national universities, professional schools (medicine, nursing, pharmacy, public health, dentistry), research institutes, teaching hospitals and healthcare centers, government offices, national medical libraries and local non-governmental organizations. All staff members and students are entitled to access the information resources.
- If your institution is in a Group A (free access) country, area, or territory, then Hinari is free. If your institution is in a Group B (low-cost access) country, area, or territory, Hinari costs US\$ 1500 per institution per calendar year (from January through December). All eligible institutions registering from Group B countries, areas, or territories will receive a six month trial without payment.
- If your institution is in a Group B (low-cost access) country, area, or territory, and cannot or chooses not to pay the annual fee, the institution will still be eligible for free access to a small number of information resources.

— Free Access in Group B countries, areas and territories for some information resources

Core Offer countries, areas and territories

Hinari em Português

Treinamento

Hinari : Novos procedimentos para login (4 Julho, 2017) pdf, 487kb

Contact Hinari

World Health Organization
Hinari
20, Avenue Appia
CH-1211 Geneva 27
Switzerland
Fax: +41 22 791 4150
hinari@who.int

Acceso abierto :
1^{era} subdivisión basada en el **modelo económico** y la **revisión**
o no por los pares > P. Suber Trad. M. Lebert

[OA archivo físico](#)

Archivos
abiertos

[PLOS biología](#)

Revistas
abiertas

Acceso abierto :
2^a subdivisión de acuerdo con el tipo de contenido (diversificación)

Revistas

Banco de
datos

Open
Research
Platform

Vinculo Web,
herramientas

Libros

Recursos de
la comunidad

Otros
materiales

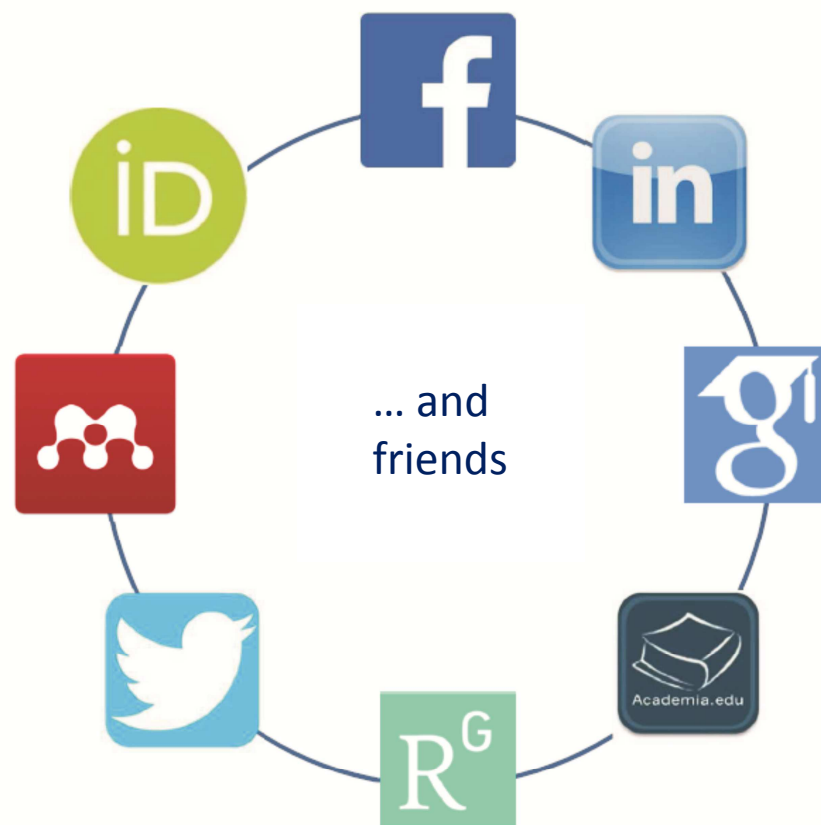
Repertorios
institucionales

Frédéric Brodtkom (UCL), Bernard Pochet (U Liège) : 12th Munin Conference, 23-23 November 2017, Tromsø UiT.
 Promoting the Open Science culture in university libraries of developing countries: case studies of the French-speaking universities of Belgium cooperation programs in the Global South.



OA resources

Learning sessions of the use of social networks and how they can be an efficient sources of documents



Contribution to other international projects :
For example with the Canadian project SOHA in Haïti

OA resources

Open science as a collective tool of empowerment and cognitive justice in Haiti and French-speaking Africa : building the roadmap.

The screenshot shows the website for the SOHA project. The header features the SOHA logo (science ouverte haïti afrique) and the title "La science ouverte comme outil de développement du pouvoir d'agir et de la justice cognitive en Haïti et en Afrique francophone". A navigation menu includes ACCUEIL, À PROPOS, BLOG, PARTICIPER, OUTILS DE FORMATION, ÉVÉNEMENTS, and CONTACT. The main content area is titled "Le projet SOHA" and contains the following text:

Le titre complet de ce projet de recherche-action est : **La science ouverte comme outil collectif de développement du pouvoir d'agir et de la justice cognitive en Haïti et en Afrique francophone : vers une feuille de route** / *Open science as a collective tool of empowerment and cognitive justice in Haiti and French-speaking Africa : building the roadmap.*

La **science ouverte** est un cadre normatif alternatif à celui de la science conventionnelle. Orientée vers l'idéal du libre partage des connaissances, du travail collaboratif, de la justice cognitive, du rapprochement entre la science et la société, en bref de la science comme « commun », elle regroupe des pratiques variées et parfois hétérogènes qui vont du libre accès aux publications scientifiques (par le biais des revues ou des dépôts institutionnels) à la recherche-action participative et à la démocratie scientifique, en passant par la création de lieux alternatifs de recherche (tels les laboratoires vivants, les laboratoires ouverts et les boutiques de sciences), l'ouverture et le partage des données de recherche et bibliographiques, l'écriture scientifique collaborative, le recours au web 2.0 et aux réseaux sociaux pour valoriser les recherches, l'intérêt pour les savoirs locaux, les sciences citoyennes et participatives, la critique des pratiques conventionnelles d'évaluation par les pairs et la priorité accordée aux logiciels libres et aux licences ouvertes.

Né de rencontres au sein de l'Association science et bien commun, le projet de recherche-action SOHA considère que la

On the right side of the page, there are links for "Pour devenir membre de l'APSOHA" and "Qu'est-ce que la science ouverte?".

And also with Spanish AECID, French AUF, ...

Development of policies to develop Institutional Repositories

Dig. Lib and local IR

Development of Institutional repositories :

1. Define a global policy for the University partner
2. Legal obligation of deposit for actual and further publications, thesis, ...
3. Identify and help a dedicated IT team
4. Choice of the open source solution
5. Local, equipment, scanner, ...
6. Continuous support (eventually with other cooperation)





http://www.unsaac.edu.pe/actualidad/2/repositorio-institucional-de-la-unsaac-lanzado-oficialmente.html

Repositorio Institucional de la UNSAAC

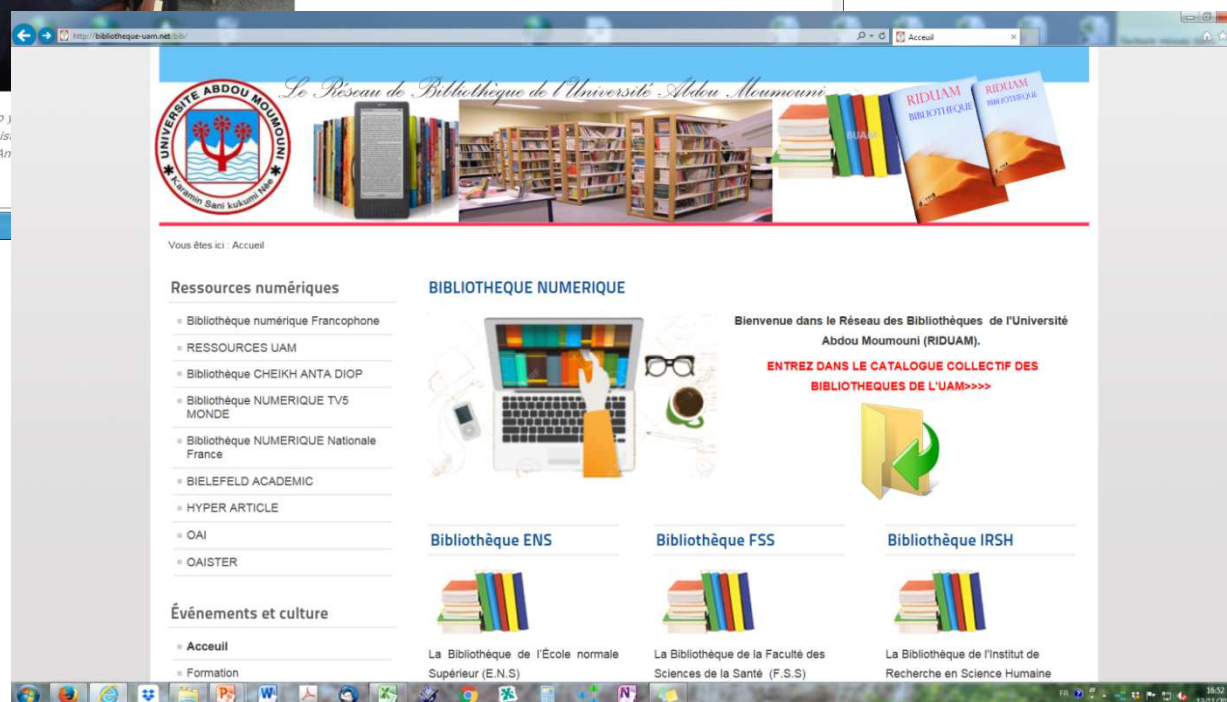
VICERRECTORADO DE INVESTIGACIÓN UNSAAC

YACHAYNINCHIS WIÑARINANPAQ
para que nuestro conocimiento crezca

Repositorio Institucional de la UNSAAC lanzado oficialmente



Luego de varios meses de trabajo coordinado y a través de la Red de Comunicaciones; consistorio institucional, la Universidad Nacional de San Antonio



http://bibliotheque-uam.net/accueil

Accueil

Le Réseau de Bibliothèques de l'Université Abdou Moumouni

Vous êtes ici : Accueil

Ressources numériques




- Bibliothèque numérique Francophone
- RESSOURCES UAM
- Bibliothèque CHEIKH ANTA DIOP
- Bibliothèque NUMERIQUE TV5 MONDE
- Bibliothèque NUMERIQUE Nationale France
- BIELEFELD ACADEMIC
- HYPER ARTICLE
- OAI
- OAISTER

Événements et culture

- Accueil
- Formation

BIBLIOTHEQUE NUMERIQUE

Bienvenue dans le Réseau des Bibliothèques de l'Université Abdou Moumouni (RIDUAM).
ENTREZ DANS LE CATALOGUE COLLECTIF DES BIBLIOTHEQUES DE L'UAM>>>>

Bibliothèque ENS	Bibliothèque FSS	Bibliothèque IRSH
 La Bibliothèque de l'École normale Supérieur (E.N.S.)	 La Bibliothèque de la Faculté des Sciences de la Santé (F.S.S.)	 La Bibliothèque de l'Institut de Recherche en Science Humaine

Support to the development of University press



Activities :

- Financial support to creation of University press (equipment, offices, staff, ...)
- S/N missions of designers, executives, commercials in our universities
- Budget for material and equipment
- Contribution to publishing costs (translation, etc.)

Final objectives :

- Facilitate the access (for students) to books and manuals at free or reduced costs
- Increase the number of local publications in the Institutional repositories



Peru (UNSAAC) Translation of OA book

Référence : Leer y escribir la literatura científica

Type de document : Ouvrages : Ouvrage publié en tant qu'auteur, traducteur, etc.
Discipline(s) : Sciences sociales & comportementales, psychologie : Education & enseignement
 Sciences sociales & comportementales, psychologie : Bibliothéconomie & sciences de l'information
Pour citer cette référence : <http://hdl.handle.net/2268/204655>

Titre : Leer y escribir la literatura científica
Langue du document : espagnol
Titre traduit : [fr] Lire et écrire la littérature scientifique
Auteur, co-auteur : Pochet, Bernard [Université de Liège > Bibliothèque et Centre de Documentation (GxABT) >]
Traducteur : Durand, F.M. []
Date de publication : 2016
Maison d'édition : Fundación universitaria para la investigación, desarrollo, ciencia y cultura San Antonio Abad del Cusco (FUNSAAC)
Nombre de pages : 143
Ville : Cusco
Pays : Pérou
Mots-clés : [en] information literacy ; textbook ; scientific writing
Résumé : [es] Esta obra (traducido por F. M. Durand del francés "Lire et écrire la littérature scientifique" el 2012, incluye actualizaciones posteriores) no es una guía de empleo de internet o de diversas herramientas documentales. Es una herramienta de formación científica con un enfoque resueltamente metodológico.
 Sirve de soporte a los cursos de metodología documental y de literatura científica de Gemblooux Agro-Bio Tech (ULg). Puede ampliamente ser utilizado en todas las enseñanzas y las formaciones que tocan a la literatura científica exactas y aplicadas.
 Basada en más de veinte años de experiencia y redactado en un estilo simple y directo, esta obra aborda los diferentes aspectos de la búsqueda de informaciones científicas y de la utilización de esta información así como los de la producción de artículos publicados en revistas con comité de lectura.
 El lector por tanto es considerado como lector y usuario de la información científica, y como productor de esta información. Es este enfoque global de la comunicación científica que justifica la elección del título.

Organisme(s) subsidiant(s) : ARES - CCD
Public cible : Chercheurs ; Professionnels du domaine ; Etudiants
URL permanente : <http://hdl.handle.net/2268/204655>

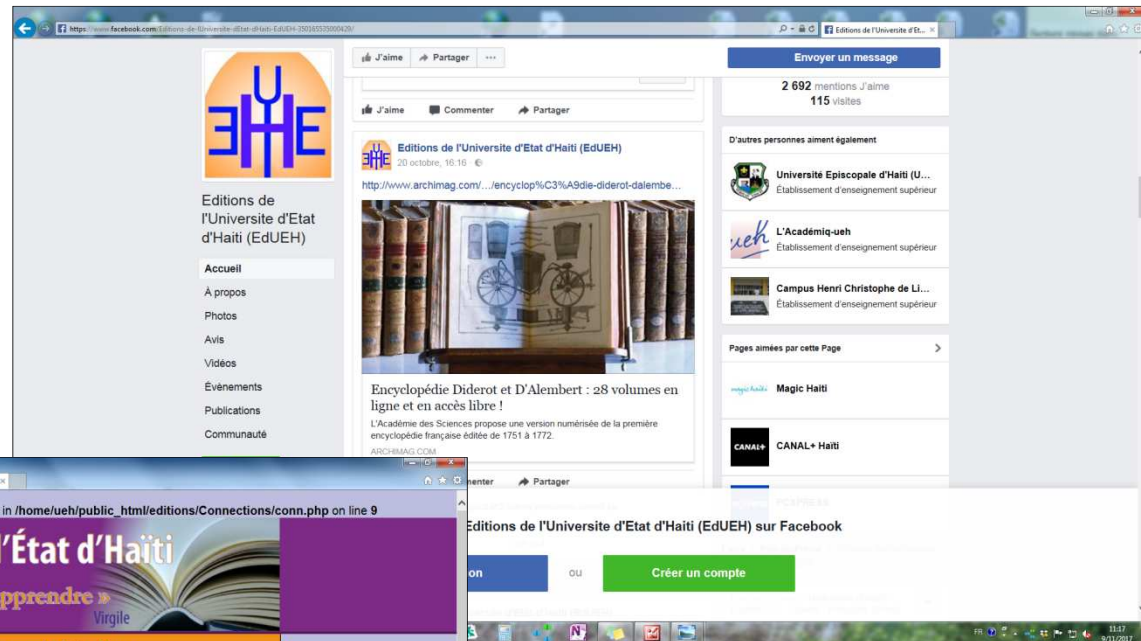
Document(s) associé(s) à cette référence :

Document(s) en texte intégral :

Fichier	Commentaire	Versión	Taille	Accès
leer_y_escribir.pdf		Postprint éditeur	3.07 MB	Voir/Ouvrir

Haiti (UEH) : University press Approximately 12 titles each year since 2009

Univ. Press



CEDESURK (RD Congo) :
Unité de Reproduction des documents pédagogiques
Scientific writing workshops
OA journal : Congo-Sciences (9 issues online, > 10/2017)



RECHERCHE ET PUBLICATION EN RDC

Le CEDESURK, les ateliers d'écriture scientifique pour jeunes chercheurs et la création de la revue *Congo Sciences*

De la documentation à la publication, le CEDESURK élargit son champ d'action et encourage les chercheurs congolais à publier les résultats de leurs recherches. En organisant chaque année plusieurs ateliers de rédaction scientifique à l'attention des jeunes chercheurs des universités et des centres de recherche du pays et en initiant un projet de revue scientifique interuniversitaire, la bibliothèque participe à la relance d'un programme de publication et d'édition universitaires.

11:00
10/11/2017

Training of library trainers for OA use in the IL courses



International session of courses and exchange of good practices for library trainers and managers of libraries from our ...

- French-speaking partners : 10 days in June-July (each 2 years : 14 participants in 2016)
- Spanish-speaking partners : 7 days in November-December (actually 4 participants each year)



Each participant has to prepare (before) a project generally linked to the access of documentary resources. The goal of session in Belgium is to share it with the others, to receive help from Belgian librarians and ... to finalise the project.

**The 2018 session at the University of Liege
will be specifically dedicated to Open science
and Open access projects**



Promotion of the deposit in Be IR of research papers and data



ACADÉMIE
DE RECHERCHE ET
D'ENSEIGNEMENT
SUPÉRIEUR

60 projects of multidisciplinary and collaborative research or courses focused on development or innovation :

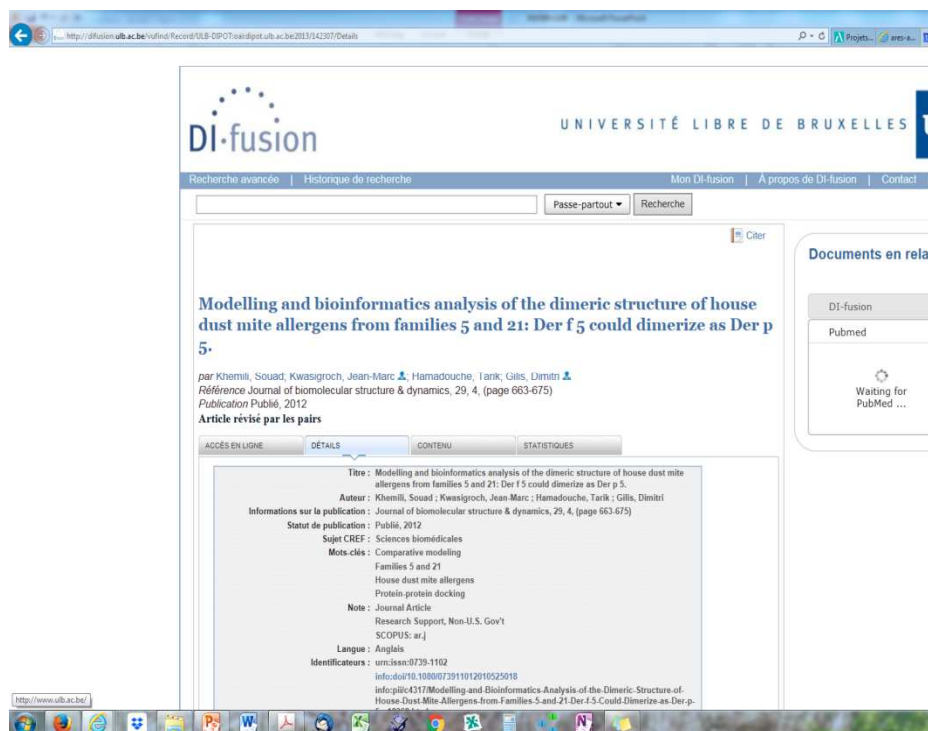
https://www.ares-ac.be/images/prd-pfs/rapports/ARES-PRD_Rapport-de-resultats-des-programmes-2008-2009.pdf

En savoir plus

Khemili S., Kwasiroch J.M., Hamagrouche T. & Gilis D. Modelling and bioinformatics analysis of the dimeric structure of house dust mite allergens from families 5 and 21: Der f 5 could dimerize as Der p 5. J. Biomol.Struct.Dyn., 29 (2012)663-675
DOI: 10.1080/073911012010525018

Carte d'identité du projet

Nom du projet	Création d'un pôle de compétence en biologie moléculaire et biotechnologie à l'université de Boumerdès
Pays	Algérie
Promoteur Nord	Dimitri Gilis
Unité de Recherche	Unité de Bioinformatique génomique et structurale
Institution partenaire Nord	Université Libre de Bruxelles
Promoteur Sud	Aïcha Refoufi
Unité de Recherche	Département de Biologie, Faculté des Sciences
Institution partenaire Sud	Université M'Hamed Bougara de Boumerdès
Autres institutions partenaires	ULg, Institut Pasteur (Algérie), Direction de la Santé et de la population de la Wilaya de Boumerdès, CHU Mustapha Bacha
Durée totale	5 ans (1/09/2008 – 31/08/2013)
Discipline	Sciences appliquées et sciences de la santé
Code CAD	43081 (Éducation et formation plurisectorielles) – 43082 (Institutions scientifiques et de recherche)
Objectifs	Améliorer la formation dans le domaine de la biologie moléculaire et des biotechnologies à l'université de Boumerdès et ainsi renforcer les compétences recherchées entre autres par le secteur pharmaceutique, le secteur biomédical et les services de santé, le secteur agro-alimentaire ou la police scientifique



The screenshot shows the BASE search engine interface. The search query is 'CUD CIUF' with 'Document entier' selected. The results list includes:

- 1. Lutte académique mode d'emploi. Crises des universités africaines ; Student fight in...**
 - Accès libre
 - Auteur: Poncelet, Marc [claim]
 - Description: The live of university students is not only due to poverty but deeply affected by insti...
 - Contributeurs: CUD:CIUF sponsor ; Pôle-Sud research center
 - Année de publication: 2003-06
 - Source: Lutte académique mode d'emploi. Crises des universités africaines. In CUD (CIUF) S... développement (pp. 23-35). Bruxelles, BelgiqueCUD:CIUF. (2003).
 - Type de document: info:eu-repo/semantics/bookPart
 - Langue: en
 - Sujets: african university ; student ; elite ; Social & behavioral sciences ; psychology :: Socio comportementales ; psychologie :: Sociologie & sciences sociales [H10]
 - URL: http://orbi.ulg.ac.be/handle/2268/214675
 - Fournisseur de contenu: University of Liège: ORBi (Open Repository and Bibliography)
- 2. Appui à la création d'une formation pluridisciplinaire en tourisme et au développ...**
 - Titre: Appui à la création d'une formation pluridisciplinaire en tourisme et au développemen

The screenshot shows the Congo Sciences journal website. The header includes the logo for 'aedesurk' and 'ACASTI' (Association congolaise pour l'Avancement de la Technologie et de l'Industrie). The main navigation menu includes: Accueil, A Propos, Contact, Guide des auteurs, Journal, Partenaires, Sommaire. The 'Accueil' page features a search bar and a list of journal volumes:

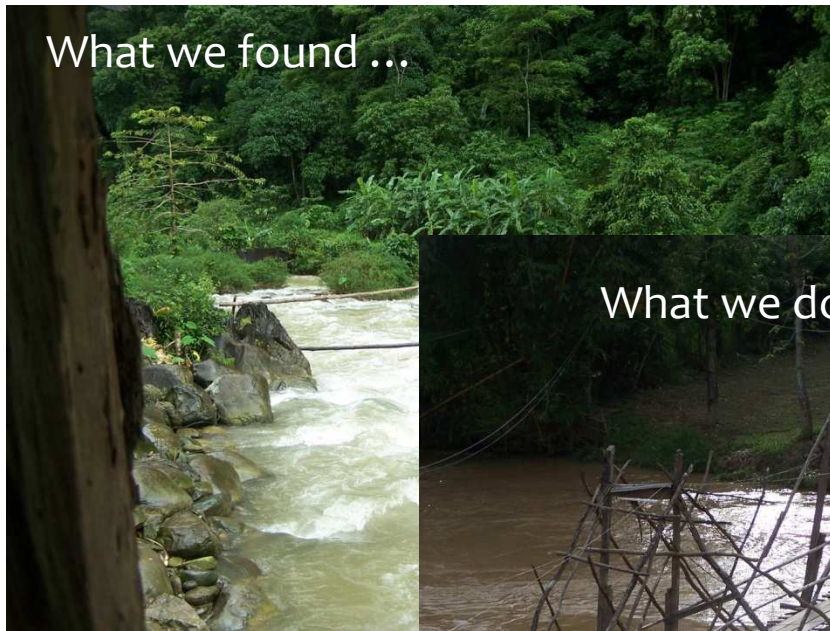
- Volume 5, Numéro 2, Octobre 2017
- Volume 5, Numéro 1, Mars 2017
- Volume 4, Numéro 2, Septembre 2016
- Volume 4, Numéro 1, Mars 2016
- Volume 3, Numéro 2, Septembre 2015
- Volume 3, Numéro 1, Mars 2015
- Volume 2, Numéro 1, MARS 2014

The main problems, *we have to overcome*, to promote the use of Open Access

1. the lack of qualified human resources and IT skill
 2. the weight of habits and traditions in the use of documentary resources
 3. the lack of power grid stability and Internet bandwidth too low
 4. the fear of teachers that they are no longer alone in possessing knowledge
 5. the power games and the bad governance
 6. the poor quality of the information flows between librarians and users
 7. the misunderstanding of the digital world and digital libraries
 8. the poor understanding of the copyright rules
- ...

But ... the collaboration between our libraries and libraries of developing countries allows nevertheless to building **bridges** connecting peoples, cultures, education and research practices, ... and with the Open science culture of today, the passage on this bridge is more and more free and easy

What we found ...



What they expect...



What we do together



Thank you for your attention

Frédéric Brodtkom

Library manager

UCL Université catholique de Louvain
BST - Bibliothèque et learning center des sciences et technologies
1348 Louvain-la-Neuve, Belgique

frederic.brodtkom@uclouvain.be
<http://www.uclouvain.be/bst>



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Bernard Pochet

Library Manager

Université de Liège
BSA - Bibliothèque des sciences agronomiques
5030 Gembloux, Belgique

bernard.pochet@uliege.be
<http://lib.ulg.ac.be/libraries/bsa>

... and thank you Aysa, Lars, Jan, Stein, Leif, Lene for this organisation