

Open Repository and Bibliography

ORBi in orbit

## a user-oriented IR for multiple wins: why scholars take a real part in the success story...

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Library Network of the University of Liège (Belgium)



### Open Repository and Bibliography University of Liège (http://www.ulg.ac.be)

. LONDON

• PARIS

BERL

One of the 3 main universities of the French-speaking part of Belgium

Public and pluralist

Complete university (8 Faculties, 1 School, 1 Institute)

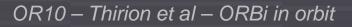
- 38 bachelor degrees
- 178 master degrees (21% of which are unique in French-speaking Belgium)
- 67 complementary master degrees

### 18,000 students (97 nationalities)

4,300 staff (2,800 professors and researchers)

- 530 research units
- 3,000 to 3,500 publications/ year ?







# OA @ ULg: a longstanding story...

### Based on a real conviction shared by

- authorities
  - The well-known blog of Rector Bernard Rentier an active advocate for OA <u>http://recteur.blogs.ulg.ac.be/?cat=10</u>



EOS (*Enabling Open Scholarship*): launched in 2007 (Liege Convention <u>http://recteur.blogs.ulg.ac.be/?p=151</u>) A membership organisation for universities and research institutions whose one of the top priorities is to help universities adopt effective OA policies <u>http://www.openscholarship.org</u>



- and librarians:



*Continuing to serve users in the future with effectiveness?* No other choice than to be deeply involved in the development of OA!





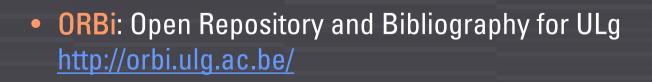
OR10 – Thirion et al – ORBi in orbit



# OA @ ULg: a longstanding story...

## And concrete initiatives of the ULg Library Network:

- PoPuPs: a portal and toolbox for diffusion of open access journals published by ULg members (since 2004) <u>http://popups.ulg.ac.be</u>
- **BICTEL/e**: a repository for PhD theses (since 2006) <u>http://bictel.ulg.ac.be</u>









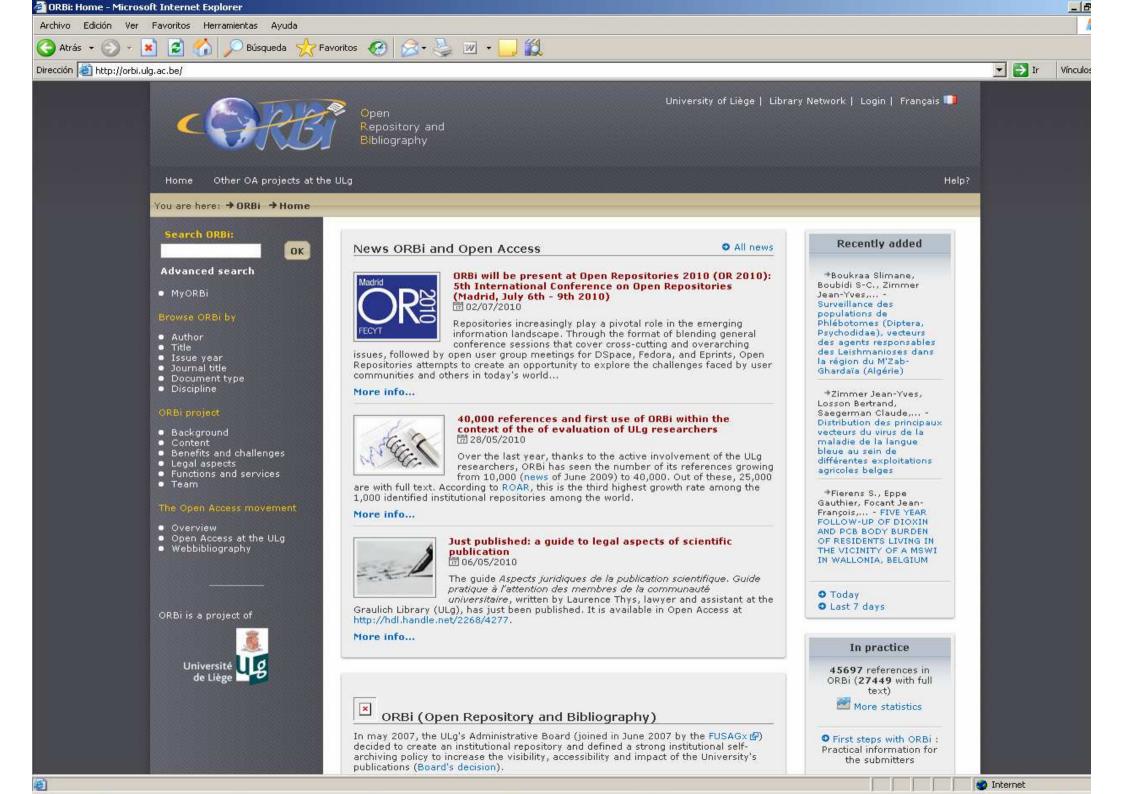




L'objectif de la communauté scientifique n'est en effet pas de parantir des revenus financiers à des éditeurs commerciaux, mais de permettre une diffusion rapide et large des recherches réalisées, tout en



page suivante





# Specificities of ORBi

### • One system for two purposes : combines

- Open repository
- AND institutional bibliography
- Deposit totally made by ULg authors themselves (maybe helped by representatives)

### Libraries (ORBi staff)

- develop and improve the system
- add functionalities to help authors
- inform authors, organize formations, promote ORBi internaly and externaly

### BUT

### - Don't archive ANY reference or full text in ORBi





OR10 – Thirion et al – ORBi in orbit



# The ORBi adventure ...

- Step 1: groundwork (2005 June 2008) (analyse of the specificities of ULg publications in various disciplines, main strategic choices, development of the system, initial communication...)
   with pilot groups (not randomly choosen... but strategically selected)
- Step 2: kickoff (July 2008 November 25 2008): volontaries
- Step 3: generalization : official launch: November 26 2008 (November 2008 – February 2009)
- Step 4: consolidation (March 2009 July? 2010) (retrospective deposit of a large part of publications since 2002)
- Step 5: routine (August 2010? ) (essentially deposit or current publications: +- 10/day?)



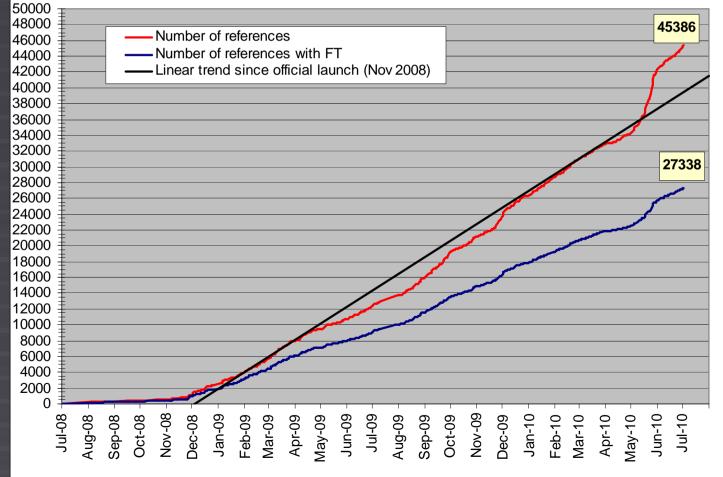


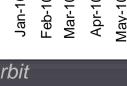
Université de Liège



## • Yes! Far beyond our most optimistic expectations!

#### Evolution of deposits on ORBi











### More than 45,000 references

- 75.6 references added /calendar day
- Extreme peak with 700 references added on a single day!
- Far beyond 10/day expected for routine!

### According to ROAR (<u>http://roar.eprints.org</u> ), ORBi is

- 37th out of 1042 research institutional or departmental repositories regarding the total number of records
- 3rd in high activity level (number of days in the last year with more than 100 deposits a day)

Open

Access

46.5%

Madrid

Restricted

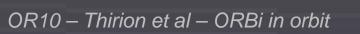
Access

53.5%

### What about FT and OA?

- More than 27,000 with Full Text (60.5%)
- More than 12,500 OA (46.5% of FT)

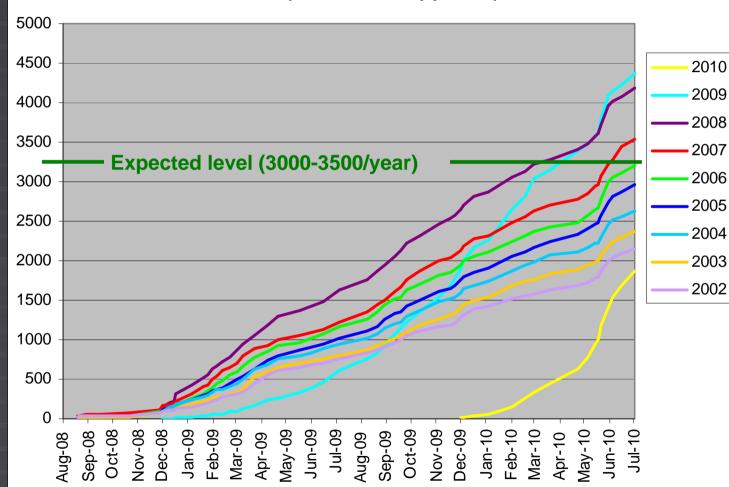








Evolution of deposits on ORBi by year of publication



- ULg members publish more than expected
- Max/year not yet reached
- For previous years, the job is far from over...









## • At least, a combination of 3 factors:

first of all: a strong institutional policy





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....The day when everything happened....

November 2005 : "OK, we'll do it!"

## A strong mandate ("ULg mandate")

- All scholarly publications since 2002 of all ULg members HAVE to be deposited into ORBi
- All scholarly articles of all ULg members since 2002 HAVE to be deposited WITH full text (open or restricted access, according to the publisher's policy: ID/OA immediate deposit – optional access)

## A strong incentive for the scholars

Some months after the official launch of ORBi only those references archived in ORBi were to be taken into account for evaluations, appointments, promotions, budget allocations, grant application etc.!

Madrid

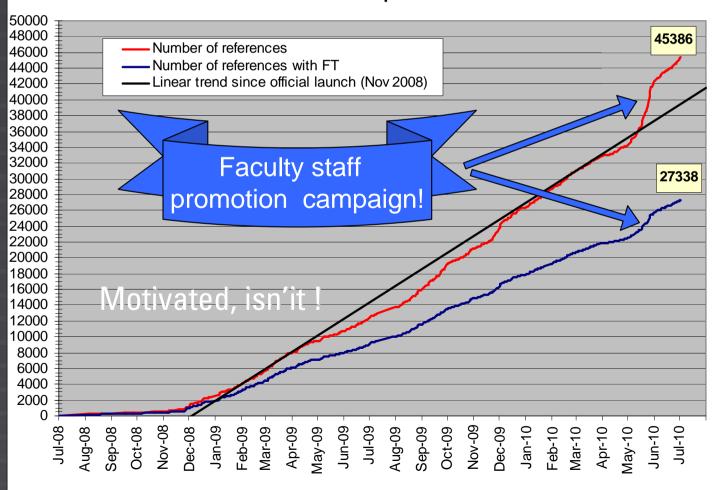




Université <u>de L</u>iège



### Look at the deposit graphic during the recent promotion campaign...



**Evolution of deposits on ORBi** 



Madrid

Fecvt



# Enough to explain?

## No!

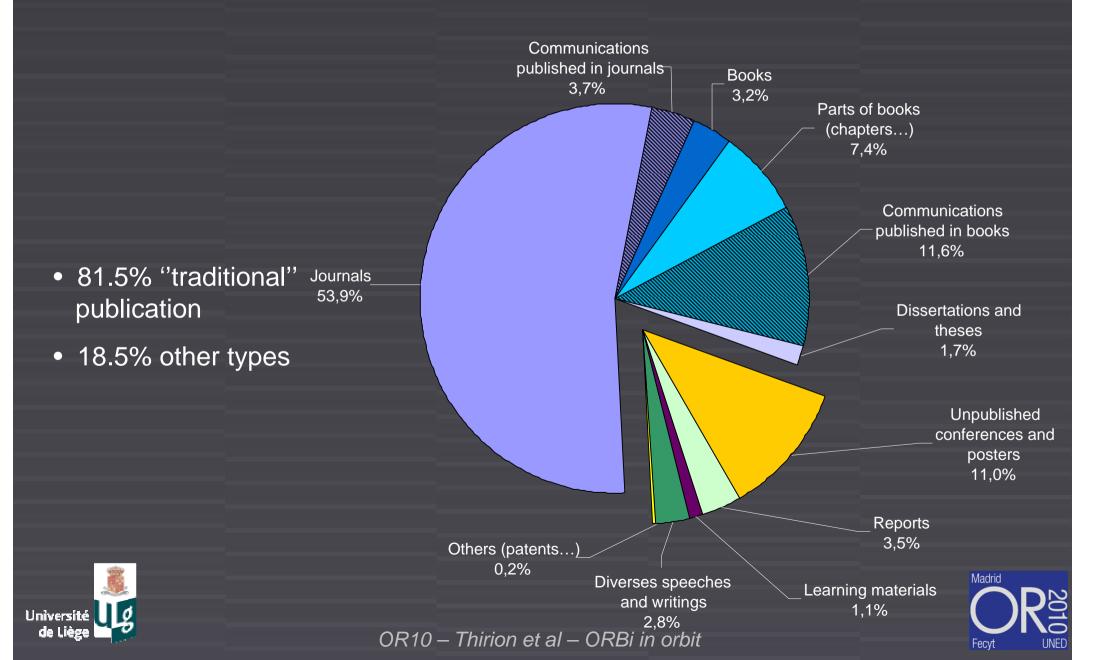
- Many more references than required:
  - 38.2% of archived references older than mandated (2002)
  - Many authors understand "scholarly publication" in a very broad sense
    - Not only "traditional publications"
    - But also unpublished conferences, internal and external reports, learning materials, discourses and speeches...
  - Scholars ask us to let them add references of colleagues who no longer belong to ULg (retired, dead...)
- Many more FT than required:
  - 48.8% of articles older than 2002 with full text!
  - 40.4% of "non articles" with full text!







# Document types in ORBi







## • At least, a combination of 3 factors:

- first of all: a strong institutional policy
- the multi-players characteristics of ORBi







# A play with specific characters...

- 1. Leading role: authors
  - Role: adding all the references

Keep back your paternity! It's your job and nobody can do it better than yourself!

For us, the most important for a scholar is to teach and to search. The academic output of searching is scholarly publication. It's just as their children. Thus scholars can't continue to abandon their children just after publication! They have to take care or them in their whole life. No more orphans among publications!

- Shared and collaborative work
  - The task is shared publications by several ULg authors are introduced only once. Each of them can see and modify what is being done by the co-authors

➡ spare time!

 And the responsability too! One makes a mistake? All will suffer! So, feel concerned by the quality!







# A play with specific characters...

# 2. Academic librarians: well placed to carry out such a project

- Specific skills in touch with
  - bibliographic databases and structure of information
  - specificities of scholarly communication in the different disciplines
- Main concern for us

Thus ORBi project team directly put under the leadership of the head librarian, daily involved in the project

- Sign of the importance for the Institution
- Large freedom of action (strategic choices...) => coherence & effectiveness

## Roles:

 $\bullet$ 

- Whole development of the tool (conceptualization, designing the architecture, workflow definition, functionalities development, integration with internal and external tools, defining typology and classification, layout...)
- Referencing
- Promotion and training sessions
  - ...and daily monitoring of deposits. All the job behind the scenes...





# A play with specific characters...

## 3. ULg authorities

Roles:

- define and promote the ULg mandate
  - externally and internally
  - effectively
  - actively
  - consistently
  - ... and without any exception for a "dear colleague..."
- trust the Library Network

...and let the ORBi team a large freedom of action









## • At least, a combination of 3 factors:

- first of all: a strong institutional policy
- the multi-players characteristics of ORBi
- the user-oriented improvement of the repository (focus on needs)
  - User-friendliness of submission
  - Added values
  - Sweat once, win many times...







# User-friendliness of submission

### • The challenge:

- improve the standard submission process of DSpace
- to an easy, quick (5-10 minutes) but also powerful process, meaningful for scholars from various disciplines

in touch with the needs and wants of scholars and of the institution

- Some improvements made:
  - Creating of groups of submissions according to their status (submissions in progress by the authors, submissions in progress by co-authors, submissions to be signed...)
  - Standard DSpace submission steps reduced and reorganized logically in 4 steps (bibliographic elements – additional info – full text – validation)
  - Dynamic form adapting to document types (book, chapter, article...) avoiding non pertinent fields
  - Unambigous distinction between **mandatory** and **optional** fields
  - Context sensitive help







Submission(s)	in progress [2]:					
Author(s)	<sup>9</sup> Title	Year	<sup>†</sup> Publication type	Peer reviewed	Submitter	Actions
Thirion Paul	L'impact des formations à la maîtrise de l'information sur la performance scolaire des étudiants :	2004	Scientific journals - Article	~	Paul Thirion	<u> </u>
Thirion Paul	Elaboration d'un plan de formation	1997	Scientific journals - Other		Paul Thirion	2 Q 🗙

Submission(s) in progress by another author [1]:						
Author(s)	🕆 Title	Year	<sup>©</sup> Publication type	Peer reviewed	<sup>†</sup> Submitter	Actions
Renaville François, Thirion Paul	From Liber to Aleph: The migration story	2011	Scientific journals - Article		François Renaville	٩

Submissions in pro	gress for signature or va	lidation [1	]:			
Author(s)	🤋 Title	* Year	<sup>©</sup> Publication type	Peer reviewed	<sup>©</sup> Submitter	Actions
Thirion Paul, Renaville François, Bastin Myriam	ORBi in orbit, a user-oriented IR for multiple wins: why scholars take a real part in the success	7-Jul-2010	Scientific congresses and symposiums - Unpublished conference	~	Paul Thirion	٩

Imported referen	ce(s)[1]:					
Author(s)	🕆 Title	Year	Publication type	Peer reviewed	<sup>©</sup> Submitter	Actions
Thirion Paul, Grofu Helen	An introduction to the Web 2.0 for libraries.	2006	Scientific journals - Article	4	Paul Thirion	٩

Archived referen	ce(s)[23]:		a contractor de la contractor de			73
Author(s)	Title	Year	Publication type	Peer reviewed	Submitter	Actions
Renaville François, Thirion Paul	Conversion from Excel into Aleph sequential	8-Sep-2009	Scientific congresses and symposiums - Poster		Paul Thirion	a 🗠

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	Last nam	Learning materials Patent	Function	
Authors* :	1.	Cartographic materials Computer developments	Author, co-author 💌	× 🛨
	Affiliation	Diverses speeches and writings		
Communication title* :	ORBi in orbit,	a user-oriented IR for multiple wins: why scholars take a real part in	1	
Alternative title :			English 💌	×
Speech/lecture date* :	Year: 2010	Month: July 💽 Day: 7	=	
Page number :				
Peer reviewed* :	○ No ④ Ye	5	<b>ad</b> 	
By request :	⊙ No OYe	5		
Audience :	O National	International		
Event name :	OR2010 - Th	e 5th international conference on Open Repositories		
Event organizer :	FECYT (Fund	ación Española para la Ciencia y la Tecnología),		× 🛨
Event place (city) :	Madrid			× 🛨
Event country :	Spain			×
Event date :	July 6 - 9 20	10		



## User-friendliness of submission

- Dynamic drop down lists for assisted encoding fields linked to:
  - <u>LDAP</u> for adding ULg authors (with email, affiliation...) and managing different forms of names (husband's name...)
  - a local developped database with 40,000 serial titles with abbreviated title, ISSN, E-ISSN, publisher, peer reviewing status...)
  - SHERPA/RoMEO database
  - specific home-made databases (funders, research centers...)





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Alternative title :	AEE : Orientation universitaire > ] - THIRION Carine (Epse HOCKERS) -	c055165 - Carine. <b>Thirio</b> n@chu.ulg.a	ic.be -[ Université de Liège - ULg > > Sa	lle de médecine interne infectiologie -
Special issue title :	1C > ] - THIRION Jocelyne (Epse FOURNAUX			
Publication date* : Yea	- Thirion Laurence - u029212 - Laure	nce.Thirion@ulg.ac.be -[ Université	de Liège - ULg > Département de pharm iège - ULg > Département de droit > Dro	
2.000 B	- Thirion Paul - u013783 - Paul.Thirid		ULg > CARE "Le Réseau des bibliothèqu	
Volume :			ge - ULg > Dép. d'électric., électron. et in	format. (Inst.Montefiore) >
Journal title* : 📃	Exploitation des signaux et images >			
Abbreviated title :	Next >			
ISSN :	ULg/CHU members Stude	ents		
Publisher :	City :	Country :		



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  - a local developped database with 40,000 serial titles with abbreviated title, ISSN, E-ISSN, publisher, peer reviewing status...)
  - SHERPA/RoMEO database
  - specific home-made databases (funders, research centers...)
- Legal assistance
  - home-made legal guide, detailed and didactic: legal questions about publishing and deposit in institutional repositories
  - support by a lawyer (member of the ULg Library Network)
  - tool box with templates available
    - IR amendment to the usually "one-way" agreement author publisher
    - mail templates to get authorization of publishers for OA





ORBi: Reference under signature

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Bastin, Myriam 🖾 [Université de Liège - ULg > CARE "Le Réseau des bibliothèques de l'ULg" > CARE "Réseau des Bibl. ULg" : Direction générale >]
Chalono, Dominique 🖾 [Université de Liège - ULg > CARE "Le Réseau des bibliothèques de l'ULg" > CARE "Réseau des Bibl. ULg" : Direction générale >]
7-Jul-2010
Yes
No
International
OR2010 - The 5th international conference on Open Repositories
July 6 - 9 2010
FECVT (Fundación Española para la Ciencia y la Tecnología),
Madrid
Spain
[en] Institutional repository ; open access
[fr] répertoire institutionnel ; accès ouvert ; archives ouvertes
Researchers ; Professionals

#### File(s) associated to this reference

#### Fulltext file(s):

File	Commentary	Version	Size	Format	Access
Comm Madrid 2010_abstract.pdf		Author postprint	61.82 kB	Adobe PDF	View/Open

For Open Access documents (with or without embargo), an automatic e-mail is sent to all co-authors with a cited e-mail address inviting them to sign an Open Access diffusion license.

Without any reaction within 30 days, it is supposed that the author consents to the online diffusion.





## User-friendliness of submission

- Import tool for PubMed, WOS, SAO/NASA, EndNote X, BibTeX (references to be verified, improved and validated by the author)
- A very reactive "hot line":
  - Any question (\*)?
  - ORBi staff tries to give you an effective response in maximum 1 day!
  - (\*) including stupid, naive, repetitive, fallacious...





OR10 – Thirion et al – ORBi in orbit



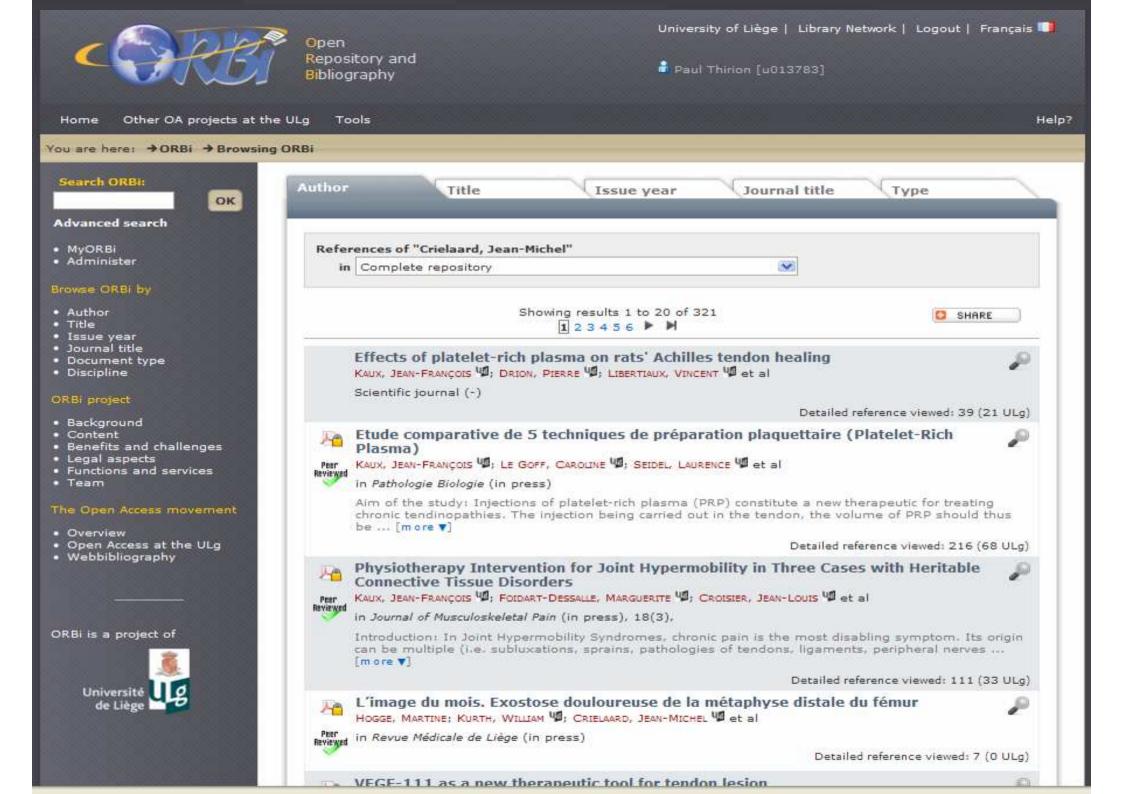
# Added useful values for scholars

## • Long term preservation

- No more necessary to keep in mind on wich computers are stored the latest versions of all papers published by my laboratory (computer change, mobility...)
- They are on ORBi! And they will remain there and be preserved in the future
- Automated bibliometrics & statistics
  - <u>ORBi statistics</u> number of views and downloads (updated daily)
    - from or outside ULg
    - only human accesses (exluding access from more than 20,000 spiders)
    - by reference, by author, globally, by month, by country, top 20...







#### **ORBi** : General Statistics



Only the hits/downloads carried out by individuals are considered. The hits/downloads carried out by the tens of thousand of search engine robots (crawlers) have been ruled out.

The statistics are updated every night. Last update: 06/07/2010 0:5

Evolution

Use

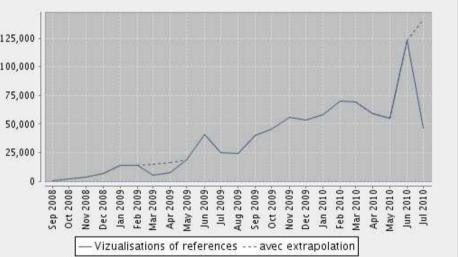
Global Top 20

Last 30 days

#### Number of visualizations

Number of visualizations by month

Month	Vizualisations of references
September 2008	85
October 2008	1727
November 2008	3705
December 2008	6623
January 2009	13665
February 2009	14050
March 2009	5153
April 2009	7630
May 2009	19025
June 2009	40917
July 2009	24959
August 2009	23819
September 2009	39973
October 2009	45549
November 2009	55719
December 2009	53541
January 2010	57993
February 2010	70312
March 2010	68932
April 2010	58990
May 2010	54819
June 2010	123007
July 2010	46422
	836615

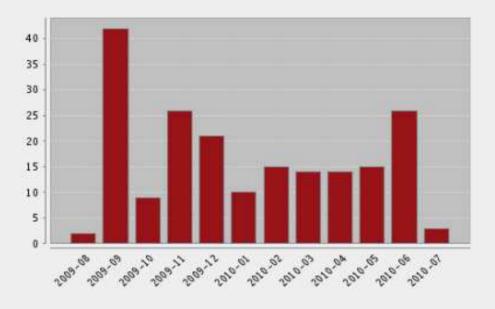


#### Number of visualizations by country

Origin	Vizualisations	Percentage		
United States	227056	27.14	225,000	

#### Number of downloads by month

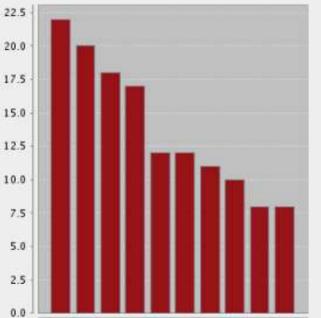
Month	Downloads
August 2009	2
September 2009	42
October 2009	9
November 2009	26
December 2009	21
January 2010	10
February 2010	15
March 2010	14
April 2010	14
May 2010	15
June 2010	26
July 2010	3
	197
Files	Downloads
poster_igelu2009.pdf	118
poster_igelu2009.pptx	37
handout_igelu2009.pdf	42



#### Number of downloads by country

Origin	Downloads	Percentage
Italy	22	11,17
Germany	20	10.15
United States	18	9,14
Belgium	17	8.63
E Finland	12	6.09
ULg ULg	12	6.09
🕙 Canada	11	5,58
• Japan	10	5.08
Romania	8	4.06
Poland	8	4.06
Switzerland	7	3.55
🗢 Israel	7	3.55
France	6	3.05
📀 Brazil	6	3,05

197



#### **Statistics for Paul Thirion**



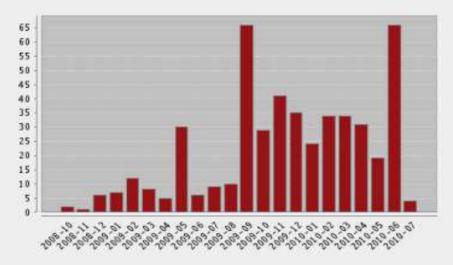
Only the hits/downloads carried out by individuals are considered. The hits/downloads carried out by the tens of thousand of search engine robots (crawlers) have been ruled out,

The statistics are updated every night. Last update: 04/07/2010 0:7

#### Number of downloads

#### Number of downloads by month

Month	Downloads	
October 2008	2	
November 2008	1	
December 2008	6	
January 2009	7	
February 2009	12	
March 2009	8	
April 2009	5	
May 2009	30	
June 2009	6	
July 2009	9	
August 2009	10	
September 2009	66	
October 2009	29	
November 2009	41	
December 2009	35	
January 2010	24	
February 2010	34	
March 2010	34	
April 2010	31	
May 2010	19	
June 2010	66	
July 2010	4	
	479	



479		
References	Downloads	
Renaville (2009) - Conversion from Excel into Aleph sequential	197	
Cuvelier (2008) - Le Réseau des Bibliothèques de l'ULg	58	
Thys (2008) - Aspects juridiques de la publication scientifique : Guide pratique à l'attention des membres de la communauté universitaire	52	
Naedts (2009) - Aléas de la conservation en bibliothèque : Prévenir et guérir	41	

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# Added useful values for scholars

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- Automated bibliometrics & statistics
  - ORBi statistics number of views and downloads (updated daily)
    - from or outside ULg
    - only human accesses (exluding access from more than 20,000 spiders)
    - by reference, by author, globally, by month, by country, top 20...
  - Impact factor (current and from the year of publication), IF5, Eigenfactor, article Influence (updated daily for new references)
  - Citations (updated weekly)
    - Google scholars citations



• Web of Science citations





## Added useful values for scholars

## • **Referencing!** Be more visible!

Not sure everybody in the world will think : "There is a beautiful university in a little country named Belgium with a fantastic ORBi system. Let see if somebody there has published something interesting!"

### Active referencing to be visible

- On large harversters (OAIster, Driver, Scientific Commons, Base...)
- Google Scholars

 $\bullet$ 

• Popular search engines







# Sweat once, win many times...

## Automated tool for generation of <u>publications report</u>

- with
  - Different output formats (PDF, HTML, DOC, XML)
  - Neat layout
  - Personalizations options
    - Specific requests
    - Different presentation models defined in collaboration with different faculties (STM, law, humanities...)
    - Different international bibliographic formats (APA, Chicago)
    - Optional elements (abstract, peer review status, bibliometrics...)
    - Sorting facilities, personalized report title...
- Usable for
  - applying for appointments, promotions or budget allocations in ULg
  - adding a dynamic link to publications from a personal or service WWW page
  - generating a personal Curriculum vitae
  - submitting a file to the national scientific research fund (FNRS/FRS) (they CAN use it in 2010 - they HAVE TO DO since 2011)
  - preparing an external funding call (EU...)







### 3. Articles in peer reviewed academic journals

### 3.a. With an international target audience

#### As first or last author

Rentier, B., & Gershon, A. A. (2004). The Oka varicella vaccines are more equal than different. Vaccine, 22(25-26), 3225-3226.

http://hdl.handle.net/2268/3120

Peer reviewed (verified by ORBi) √

ORBi viewed: 24 (5 ULg) ; downloaded: 5 (1 ULg) — Google Scholar cit.: 4 — WOS: 2 IF 2004: 2.824; last: 3.616; IF5: 3.508 — EigenF 2004: 0.0543; last: 0.0692 — Article Infl. 2004: 0.7957; last: 0.8158

Rentier, B., & Gershon, A. A. (2004). Consensus : Varicella vaccination of healthy children - A challenge for Europe. Pediatric Infectious Disease Journal, 23(5), 379-389.

http://hdl.handle.net/2268/3121

#### Peer reviewed (verified by ORBi) 🖋

ORBi viewed: 22 (5 ULg); downloaded: 0 — Google Scholar cit.: 69 — WOS: 43 IF 2004: 2.735; last: 2.854; IF5: 3.312 — EigenF 2004: 0.0315; last: 0.0307 — Article Infl. 2004: 0.8825; last: 1.0766

The seriousness of varicella-zoster virus (VZV) infection as a public health issue is becoming clearer as country-specific epidemiologic and pharmacoeconomic data become available. In Germany, for example, studies have shown that >5.5% of immunologically healthy individuals develop varicella-related complications such as bacterial superinfections, acute neurologic disorders, pneumonia, bronchitis ...

Stouvenakers, N., Sadzot-Delvaux, C., & Rentier, B. (2001). Current issues : varicella. Vaccines : Children and Practice, 4, 20-22.

http://hdl.handle.net/2268/3558

Peer reviewed ORBi viewed: 26 (4 ULg) — Google Scholar cit.: -

Rentier, B., & Sadzot-Delvaux, C. (2000). Le virus de la varicelle et du zona dans le système nerveux : retraite silencieuse ou guérilla permanente ? Virologie, 4(3), 207-216.

http://hdl.handle.net/2268/4164

#### Peer reviewed 🖌

ORBi viewed: 98 (4 ULg) ; downloaded: 4 - Google Scholar cit.: -

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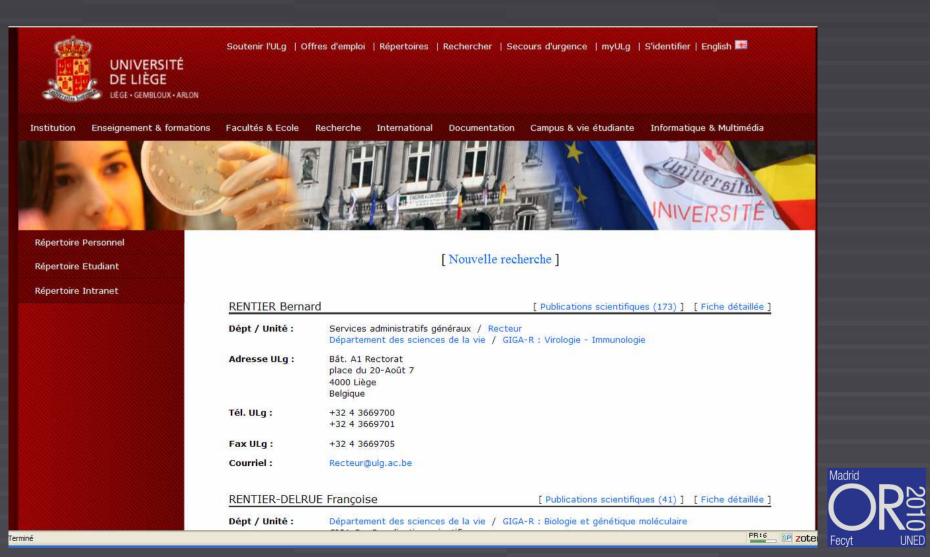


Université

de Liège

# Sweat once, win many times ...

## • Automatic link from the staff directory (phonebook) of ULg







## • At least, a combination of 3 factors:

- first of all: a strong institutional policy
- the multi-players characteristics of ORBi
- the user-oriented improvement of the repository
  - User-friendliness of submission
  - Added values
  - Sweat once, win many times...
- And maybe an additional one: the "buzz effect"
   With so many emails generated by ORBi and sent to co-authors: impossible to say "I didn't know..."
   "Oh! My colleague does it? So, I have to do it too!"









# All positive? ORBi in orbit ?

## **Certainly Not!**

### So many things to do, so many problems to resolve, so many challenges!

- some duplicates (<1%) and encoding errors</li>
- some middle-sized or small publishers don't understand what is OA and IR
- some author's fears: lake of knowlegde about their rights. Too many restricted access
- some authors reluctant : "No time" ; "Not my job" …
- improve and improve the tool and add new functionalities and links
- collaborate with nearby institutions to promote IR and realize large harvesting
- communicate, communicate and communicate again to convince about OA!

ORBi is still young and keep growing and changing... The road to maturity is still long!

This will be the coming episodes of the ORBi adventure...

Madrid







epository and Bibliography

### ORBi: <u>http://orbi.ulg.ac.be</u>

"ORBi in orbit" abstract and slides (in a few days) http://hdl.handle.net/2268/65254 http://orbi.ulg.ac.be/handle/2268/65254

### **Contacts:**

ORBi staff: orbi@misc.ulg.ac.be Paul.Thirion@ulg.ac.be (head of ULg Library Network)

... Thank you for your attention!





OR10 – Thirion et al – ORBi in orbit