



 **@ ULg...**

**An exciting self archiving  
adventure...**



*Paul Thirion  
Head librarian ULg*

*October 19, 2010*

# ...University of Liège (ULg)

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

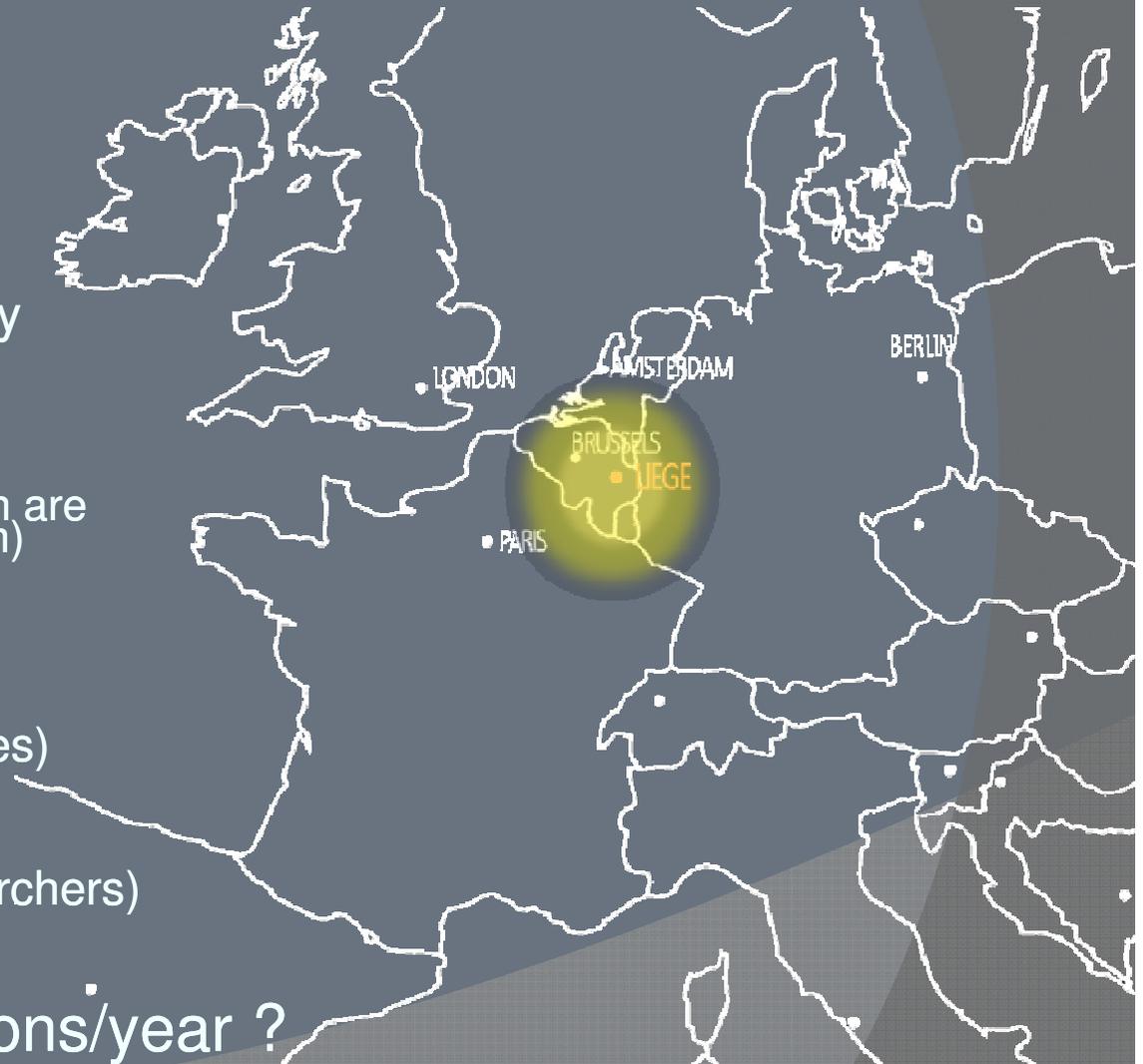
Public and pluralist complete university (8 colleges, 1 school, 1 Institute)

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

Nearby 20,000 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  
<http://recteur.blogs.ulg.ac.be/?cat=10>
  - ❑ **EOS** (*Enabling Open Scholarship*): launched in 2007 ([Liege Convention](#))  
A membership organisation for universities and research institutions whose one of the top priorities is to help universities adopt effective OA policies  
<http://www.openscholarship.org>



- and librarians:
  - ❑ The serial price crisis!
  - ❑ A "open" philosophy
  - ❑ A new vision of the role of librarians: "knowledge facilitators"

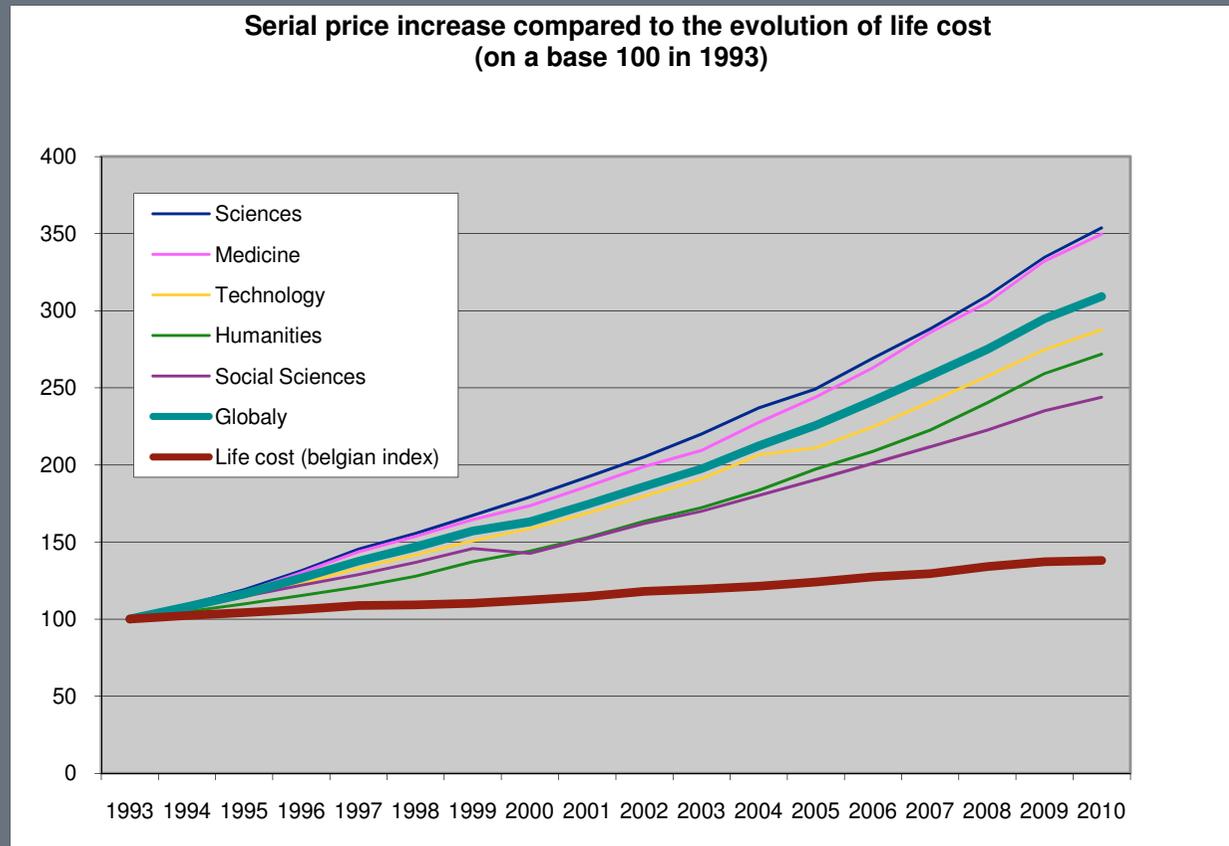
Yes, we can !



**Continuing to serve users in the future with effectiveness?**

**No other choice than to be deeply involved in the development of OA!**

# Serial price crisis



Source : Swets

- Based on 70.000 titles (profit and non profit publishers)
- Since 1993 : price increased three fold while the life cost increased by only 38% during the same period!
- Dramatic for natural and biomedical sciences!
- But humanities and social sciences are not spared...

# Just an example...

Serials cost for ULg :

**Scientific information:  
luxury? ... or vital!**

More than

= a new Porsche every



# An almost perfect balance...

## Scientific community

- Conceive
- Search
- Find
- Write articles
- Correct them
- Pay to be published
- Play the role of editors
- Review and validate articles
- Buy serials
- Read articles
- ...

## Publishers

- Print
- Sale
- ... and make money!

Publisher



Adapted from *Nemo* (Walt Disney's)

# Open Access... two major ways

## Publishing directly in "Open Access" (the gold way)

Real alternative to the traditional business model



- "e-prints" (documents never published before)
- "Open access" serials (with same quality control: peer reviewing)
  - Old titles as *Nucleic Acids Research* (IF: 7.48)  
New titles as *Genome Biology* (IF: 6.62), *PLOS Biology* (IF: 12.92)...
  - See **DOAJ** (<http://www.doaj.org/>) or **Open J-Gate** (<http://www.openj-gate.com/>)
    - 60.2% are peer reviewed (39.1% for all scientific serials)
    - 10.8% already have an IF (11% for all scientific serials)
  - Not only "author-pay model" as Biomed or PLOS!

## Self-archiving (the green way)

- Thematic or institutional repositories
- More than 1,650 in the world. **Interoperability!**  
(see <http://www.openoar.org/>)
- 62% of the 788 "biggest" publishers formally **allow** some form of self-archiving  
(see <http://www.sherpa.ac.uk/romeo/statistics.php>)



20% of scholarly publications available in OA!  
• 15% by the green way  
• 5% by the gold way

Publicly funded research  
**have to be freely accessible!**

# OA @ ULg: a longstanding story...

And concrete initiatives of the ULg Library Network:

- Gold way:  
**PoPuPS**: a portal and toolbox for diffusion of open access journals published by ULg members (since 2005) <http://popups.ulg.ac.be>
  
- Green way:
  - **BICTEL/e**: a repository for PhD theses (since 2006) <http://bictel.ulg.ac.be>
  
  - **ORBi**: Open Repository and Bibliography for ULg <http://orbi.ulg.ac.be/>

# PoPuPS



- Portail de Publication de Périodiques Scientifiques of ULg (since 2005)
- **Objective:** to enable each ULg member to publish OA serials, freely, easily, without technical constraints and world-wide

13 titles

- New ones
- Or published before in another business model

- XML and/or pdf
- 4,000 articles available
- More than 400 downloads/day (regardless of spiders/bots...)
- Source: 68% Google
- One acquired an Impact factor since it has been published thru PoPuPS (Geologica Belgica)



# BICTEL/e - ULg

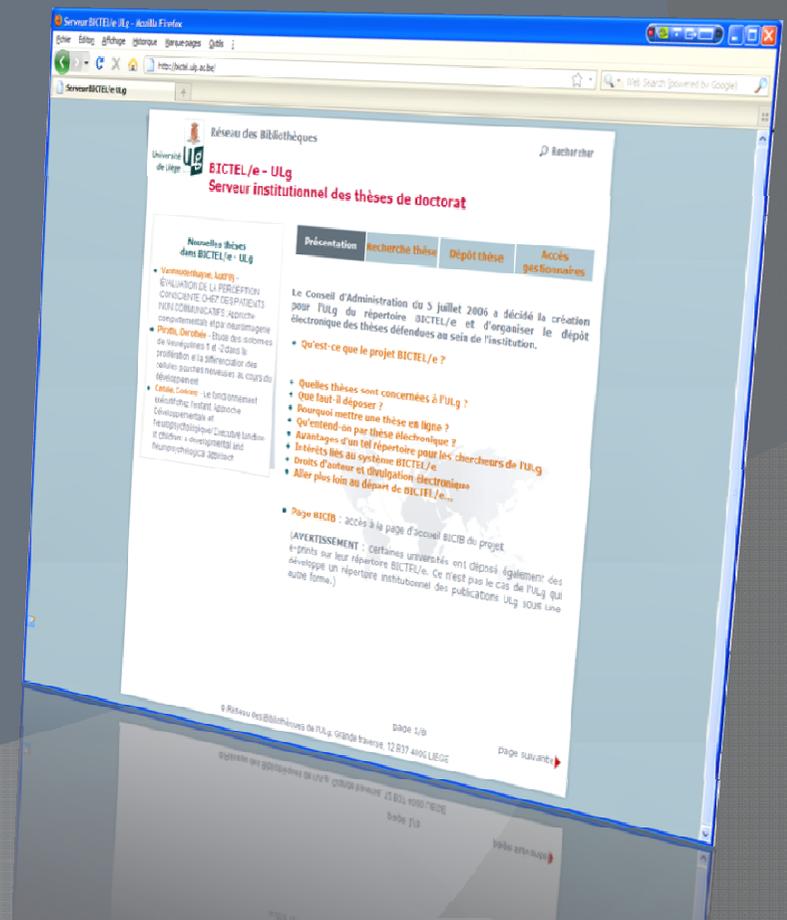
## Institutional repository for PhD theses



- Mandatory since 2006 for all ULg PhD theses
- Largely harvested:
  - ND LTD (Network Digital Library of Theses and Dissertation)
  - DART-Europe E-theses Portal (more than 178,000 European e-theses from 300 universities)
  - ...

- 450 ULg PhD theses on BICTEL/e (63% with full content accessible for free)

- ...Massive access
  - More than **1,500** downloads/week (= 80,000/year)
  - Average downloads by file 11/week
  - Source: 70.6% Google





# Open Repository and Bibliography



One system, two purposes:

- Complete institutional bibliography
- Open access repository

Deposit completely made by ULg authors themselves (\*)

- ORBi staff develops, improves the system, adds functionalities, informs, instructs, promotes...
- **BUT doesn't archive ANY reference**

**Main specificities**

*(\*) maybe helped by representatives*

Respect of each player (author, publisher, institution)

- Open Access
- Restricted Access 

→ request a print

"ULg Mandate"

*...or how to go beyond the anecdotal...*

# The ULg policy



- ... The day when everything happened... (November 2005) ...

*"OK! We'll do it!"*

- A strong mandate ( "ULg mandat", May 2007)

- **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

- And a strong incentive for the scholars...

**Only references archived in ORBi were to be taken into account** for evaluations, appointments, promotions, budget allocations, grant applications etc.!

# The adventure...

Step 1

- **Groundwork** (2005 – June 2008)  
(analysis of the specificities of ULg publications in various disciplines, main strategic choices, development of the system, initial communication...)  
With pilot groups strategically selected

Step 2

- **Kickoff** (July 2008 – November 25, 2008)  
With voluntaries

Step 3

- **Generalization** (November 2008 – February 2009)  
Official launch: November 26, 2008

Step 4

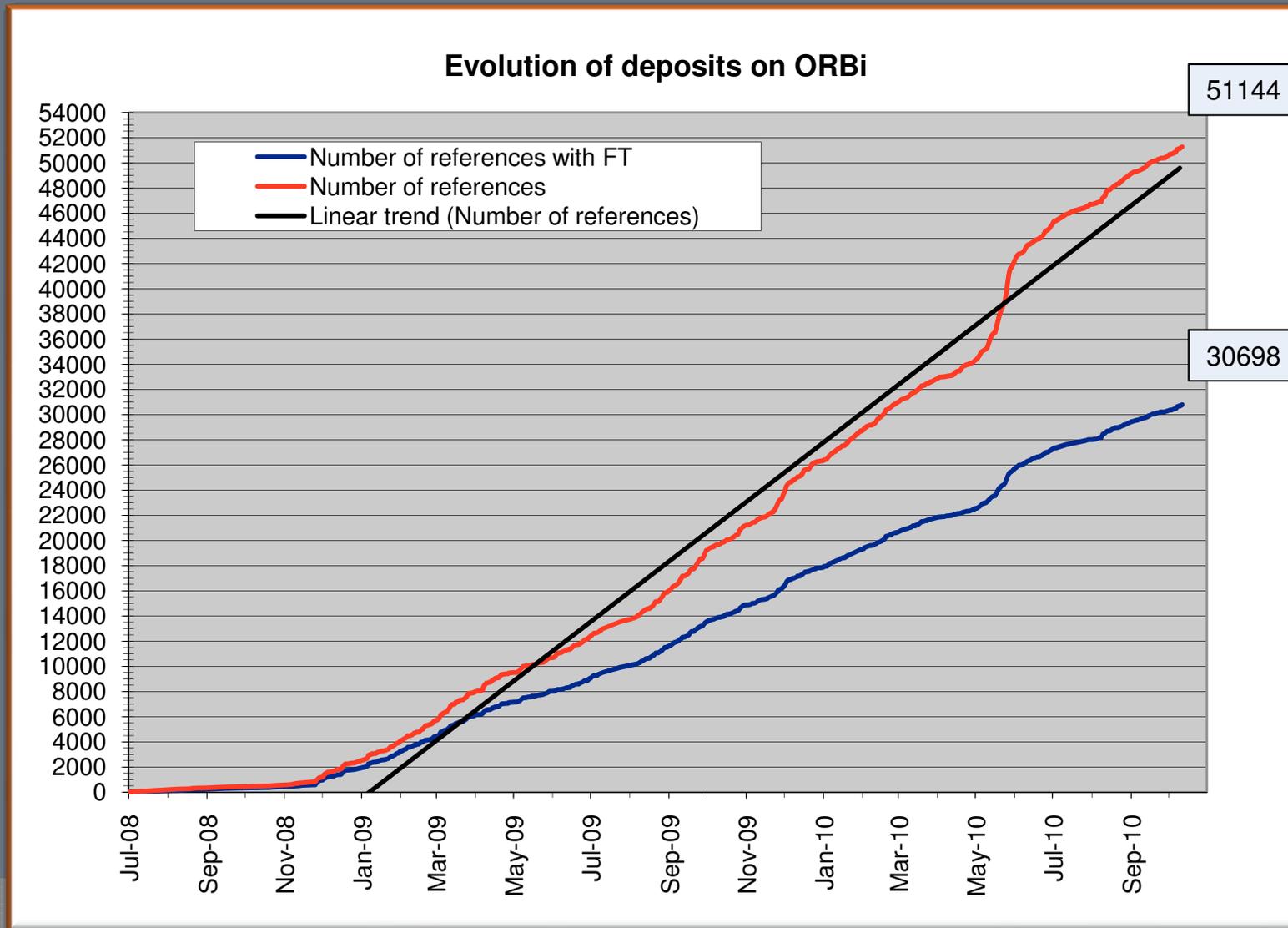
- **Consolidation** (March 2009 – **September 2010?**)  
Retrospective deposit of a large part of publications since 2002

Step 5

- **Routine** (**October 2010? –** )  
Mostly the deposit of current publications( $\pm 10/\text{day?}$ )

# Success?

Yes! Far beyond our most optimistic expectations!



# Success!

Passed the landmark of 50,000 references

- 73.7 added each day  
(May 25, 2010: 700 references added on a single day!)
- Far beyond the expected 10/day for routine phase...
- 4,701 ULg authors have references on ORBi

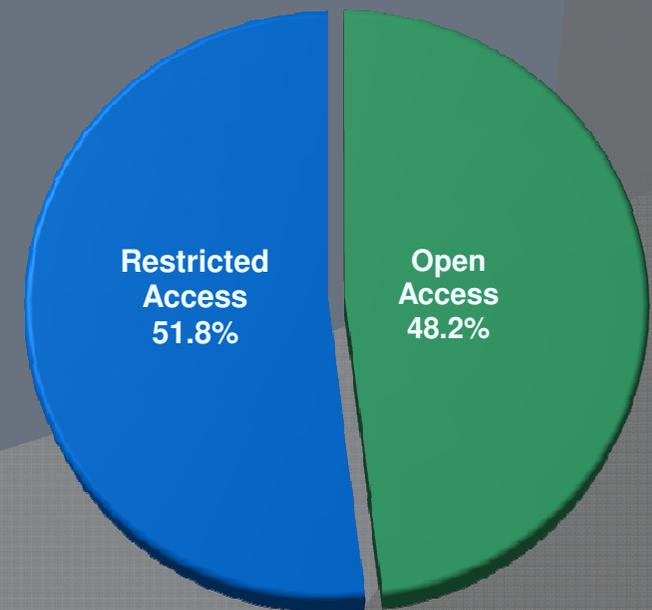
According to ROAR (<http://roar.eprints.org>), compared to 1,127 research or institutional repositories in the world

- 35<sup>th</sup> regarding the total number of references
- 3<sup>rd</sup> in "high activity level" (number of days in one year with more than 100 deposits/day)

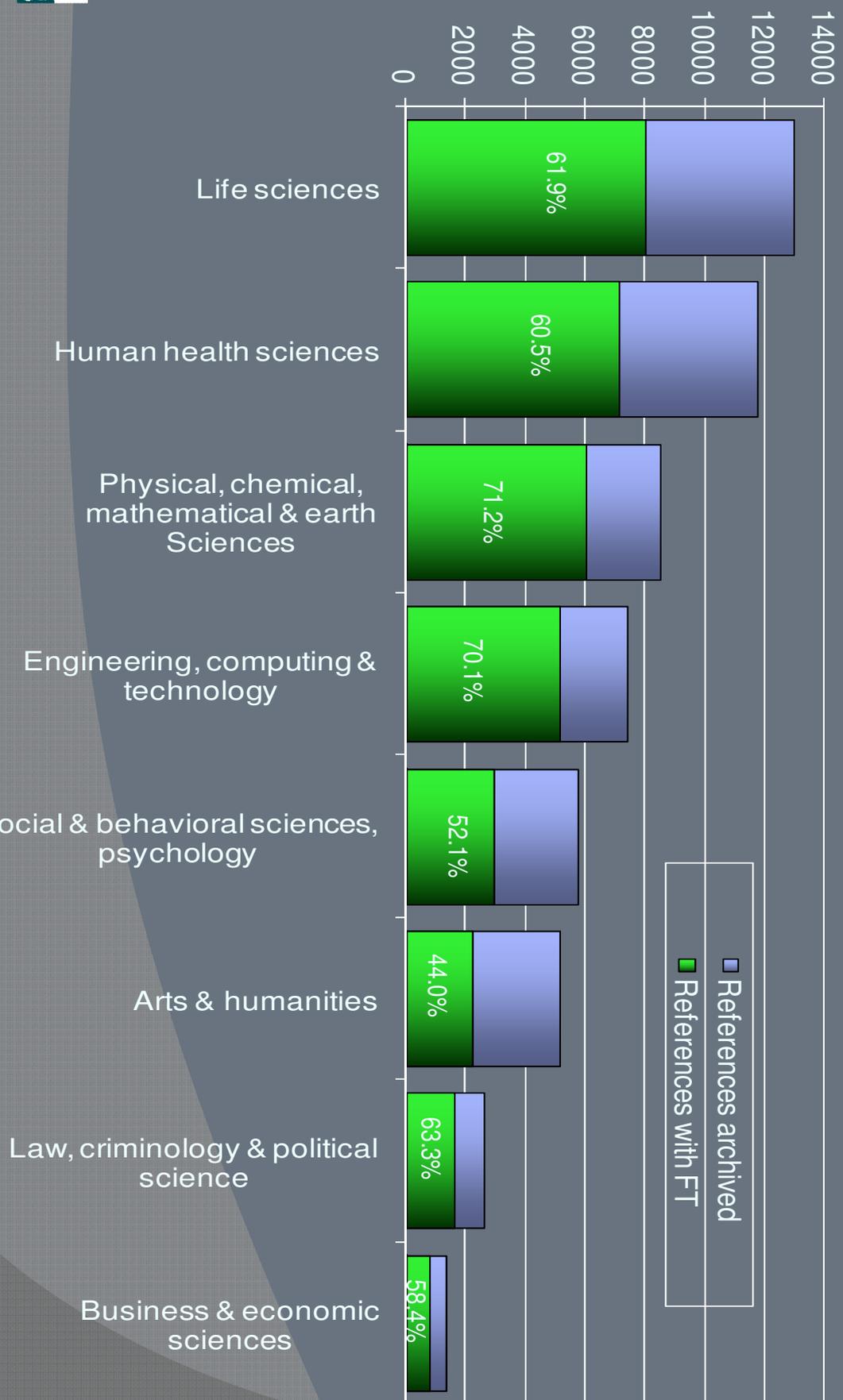
Open Access or Restricted Access ?

- 30,000 with Full Text (60.1%)
- Nearby 15,000 OA (48.2% of Full Text)

Full Text in ORBi



# References by discipline

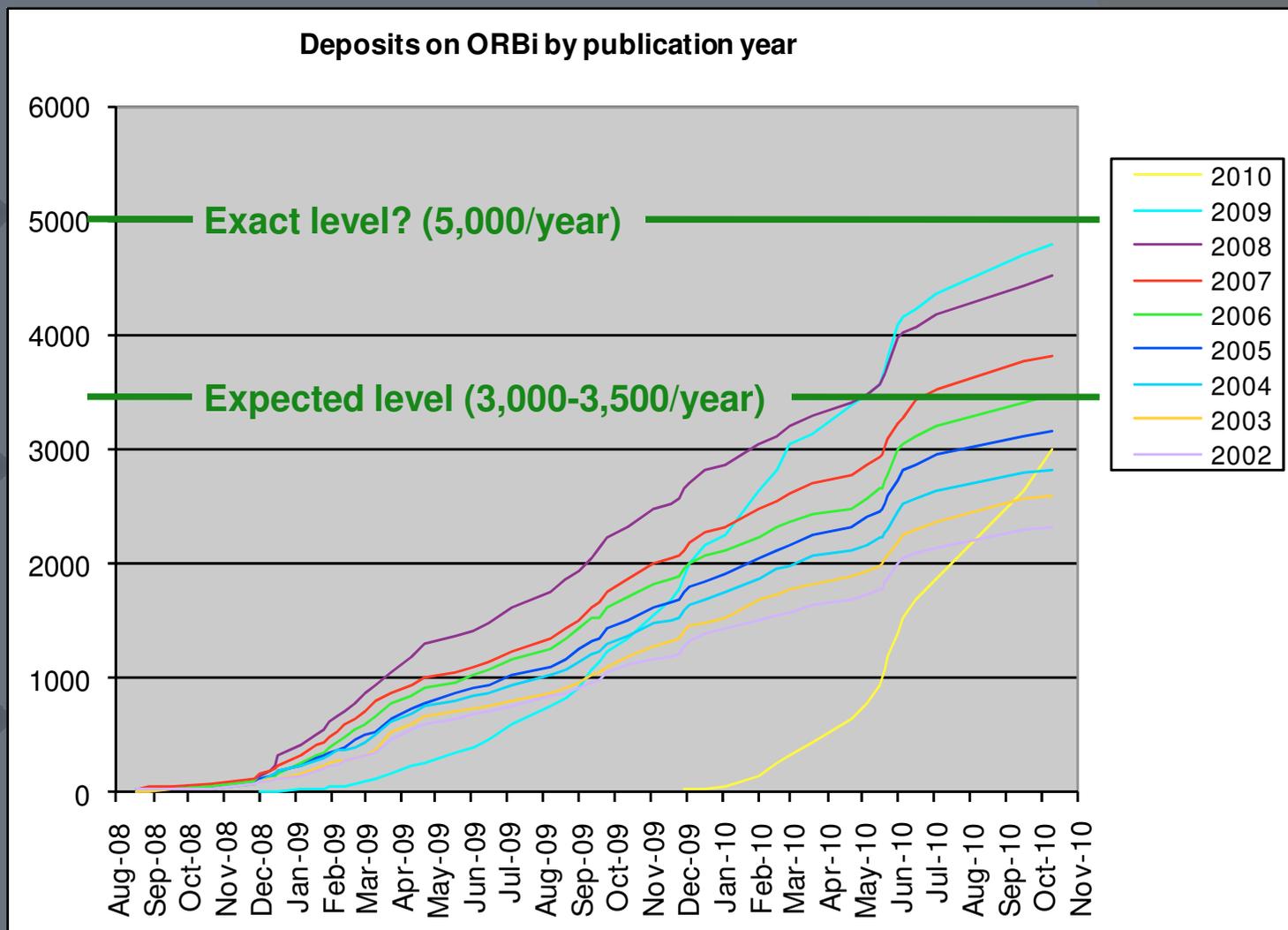


# Success!

ULg scholars  
publish more  
than estimated

The  
maximum/year  
not yet reached

For previous  
years, the work  
is far from  
complete...

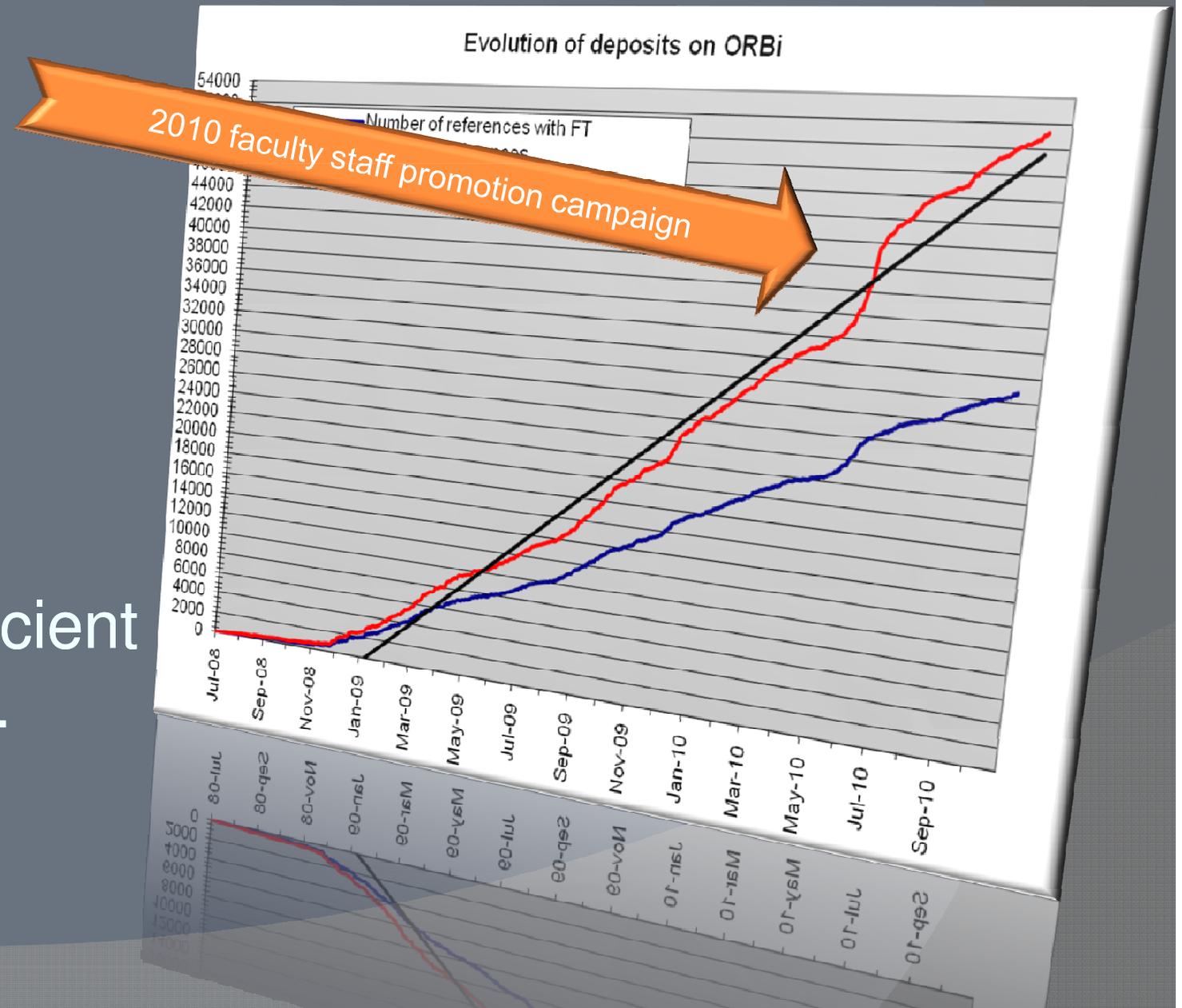


For 2009, more than 60% of ULg references available on  
Web of Science are already archived on ORBi

# Why? The ULg policy?

Sure!

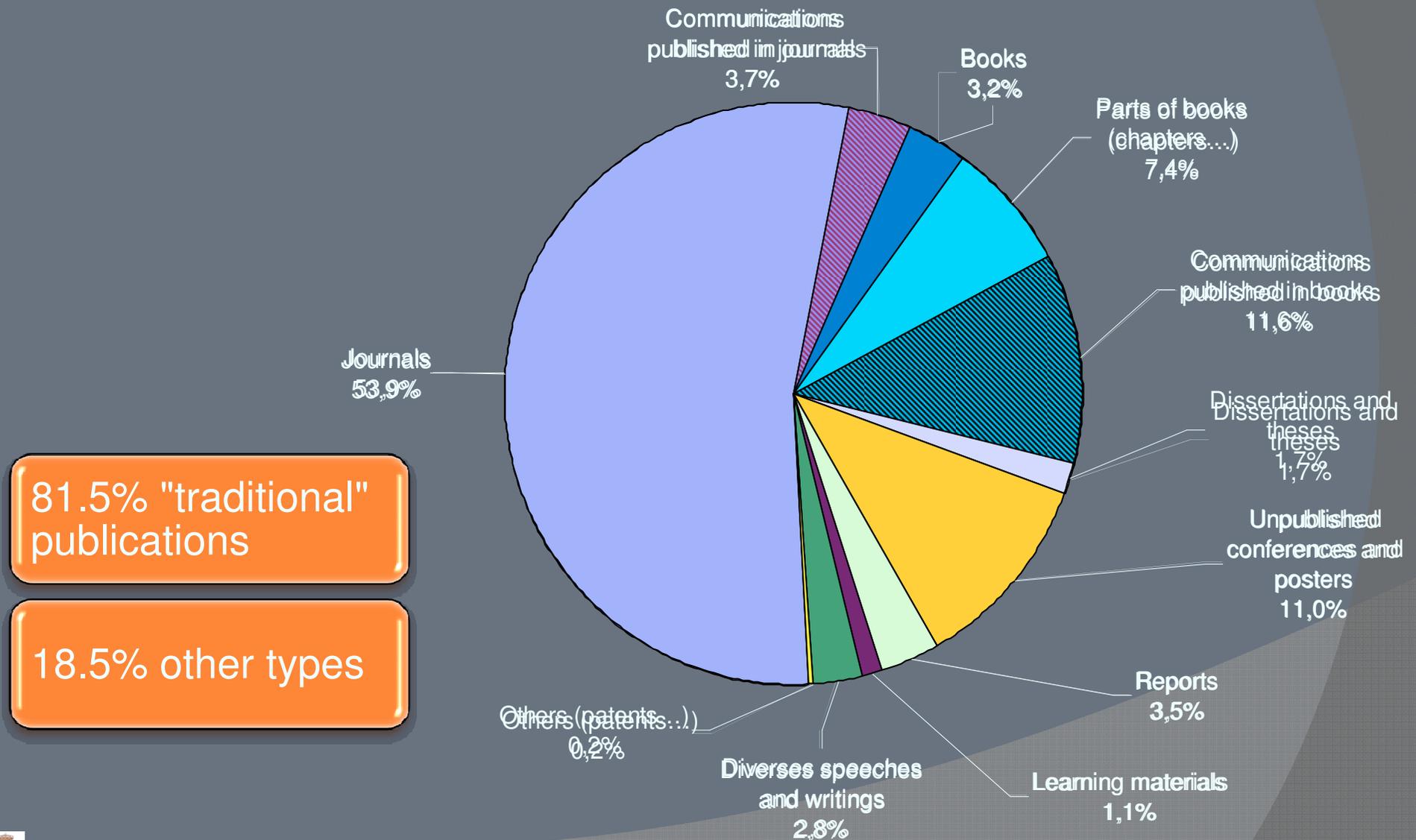
...but not sufficient to explain...



# The ULg policy: not sufficient to explain

- Many more references than required
  - 39.3% 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...

# Distribution by document type



# The ULg policy: not sufficient to explain

## ○ Many more references than required

- 39.5% 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!

# Other pieces of explanation?

Multiple winners: institution AND scholars

Authors: the leading role

- Your job? To teach AND to publish! Be aware of your responsibilities!

***Protect your paternity!** It's your job and nobody can do it better than yourself!*

*Scholars can't continue to abandon their children just after publication! They have to take care of them throughout 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 responsibility too!** One makes a mistake? All will suffer!

So, be concerned by the quality!

Not a librarian or computer scientist oriented tool but a "user-oriented" tool!

# User-oriented

## Improve the standard submission forms to be more user friendly

- Goal: easy, quick, powerful and meaningful for scholars from various disciplines ...in touch with the needs and wants of scholars and the institution
  - Grouping of submissions according to their status
  - Dynamics auto-adapting forms
  - Dynamic drop down lists for assisted encoding fields (LDAP, local database of more than 40,000 serials...)
  - Context sensitive help
  - Import tools (PubMed, WOS, SAO/NASA, EndNote X, BibTeX ...)

## Legal assistance

- Home-made legal guide, detailed and didactic
- Dynamic links to [Sherpa/ROMEO](#) (publishers' policies regarding IR)
- Tool box with templates available (IR amendment to the usual author – publisher “one-way” agreement; mail templates to get authorization of publishers for OA)

## Very reactive "Hot line"

- Any question? (...including stupid, naive, repetitive, fallacious...)

ORBi staff tries to give you an effective response in maximum 1 day!

# Added useful values for scholars

## Long-term preservation

- How many times have you already said "*But where did I put this paper?*" (computer changes, mobility, multiple versions...)
- No longer necessary to keep that in mind: they are on ORBi! And they will remain there and be preserved for the future

## Automated bibliometrics & statistics

- Views and downloads from ORBi
  - Excluding 20,000 spiders...
  - Distinction between "From ULg" and "Outside ULg"
    - by reference, by author, globally, by month, by country, top 20...
- Impact factor (current and publication year), IF5, Eigenfactor, article Influence
- Citations
  - Google Scholars
  - Web of Science
- h-Index

## Referencing! Be more visible!

- Large harvesters (OAIster, Driver, Scientific Commons, Base...)
- Google Scholars
- SciVerse (Elsevier)...
- Popular search engines

# Visibility



# "Sweat once, win many times..."

## Automated tool for generation of publication report

- Multiple usages
  - Applying for appointments, promotions, budget allocations... in ULg
  - Generating personal curriculum vitae
  - National scientific research fund
  - Preparing an external funding call (EU...)
  - Adding a dynamic link to publications from a personal or service WWW page
  - ...
- Different output formats (PDF, HTML, DOC, XML...)
- Different presentation models defined in collaboration with colleges (STM, law, humanities...)
- Personalization options (bibliographic formats APA or Chicago; optional elements...)

## Widget

- Dynamic integration of references from ORBi into a personal WWW page

## Automatic link from staff directory (phonebook)



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DE LIÈGE  
LIÈGE • GEMBLoux • ARLON

Soutenir l'ULg | Offres d'emploi | Répertoires | Rechercher | myULg | S'identifier | English

Institution

Enseignement & formations

Facultés & Ecole

Recherche

International

Documentation

Campus & vie étudiante

Informatique & Multimédia



Répertoire Personnel

Répertoire Etudiant

Répertoire Intranet

## [ Nouvelle recherche ]

### RENTIER Bernard

[ Publications scientifiques (173) ]

[ Fiche détaillée ]

#### Dépt / Unité :

Services administratifs généraux / Recteur

[Département des sciences de la vie](#) / [GIGA-R : Virologie - Immunologie](#)

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### RENTIER-DELRUE Françoise

[ Publications scientifiques (41) ] [ Fiche détaillée ]

#### Dépt / Unité :

[Département des sciences de la vie](#) / [GIGA-R : Biologie et génétique moléculaire](#)

# But also...

## "Buzz effect"

- With so many emails (more than 12,000/month!) generated by ORBi and sent to co-authors
  - Impossible to say *"I didn't know..."*
  - But also *"Oh! My colleague does it? So, I have to do it too!"*

## ULg authorities role: institutional consistency

- Define and promote the "ULg mandate"
  - Externally and internally
  - Effectively, actively, consistently, without any favoritism...
- ORBi-project team directly put under the leadership of the head librarian
  - Symbol of the importance for the Institution: main concerns
  - Trusted by the authorities: large freedom of action (strategic choices... )  
=> coherence & effectiveness

# More read?

- On Google one hour after deposit
- 35<sup>th</sup> (out of 988) in the Ranking Web of World Repositories 2010 (<http://repositories.webometrics.info/>)

- Usage statistics:

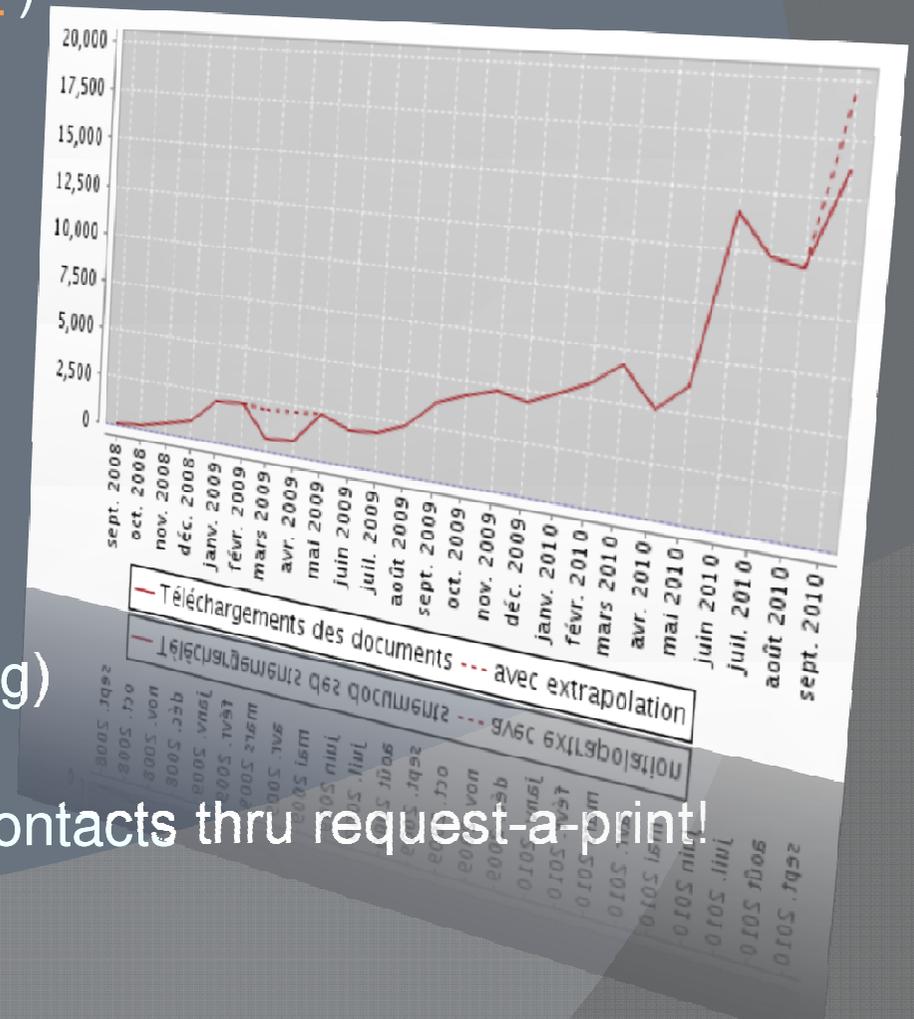
- 800,000 view!
  - USA: 11.2%
  - France : 17.2 %
- More than 140,000 downloads (Since September: +850/day)

- More cited?

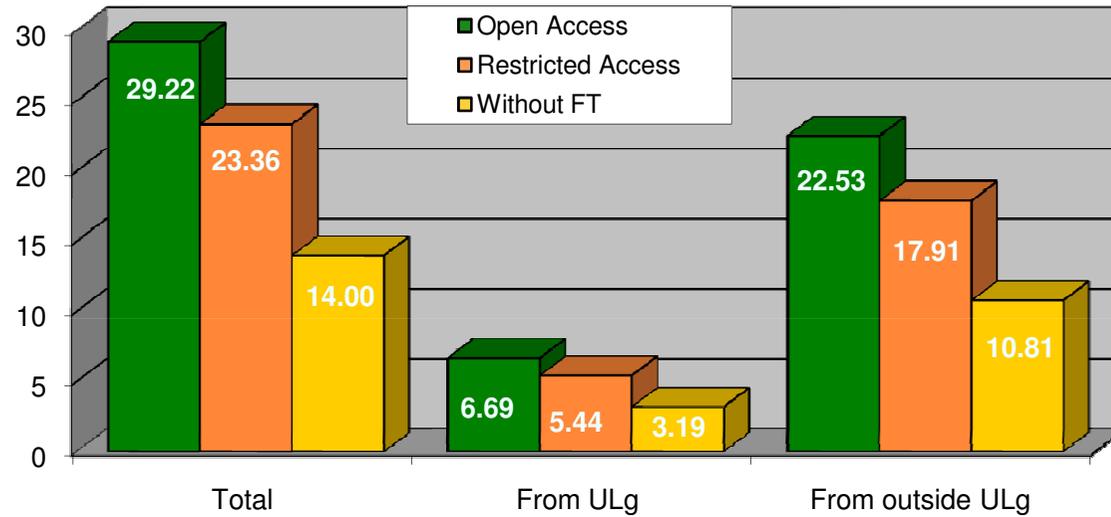
To be studied (ORBi is too young)

- What authors say:

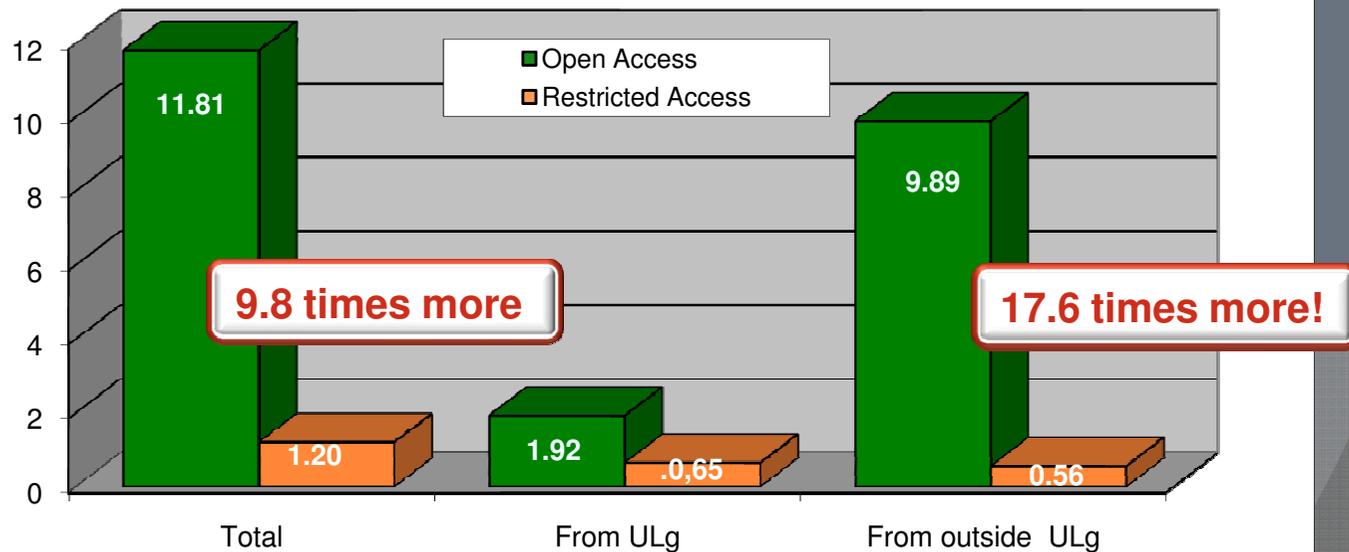
Very happy: new international contacts thru request-a-print!



**Mean number of visualizations for 2008-2010 references**  
 (measured 9/17/2010 on 272,470 visualizations of 11,814 references)



**Mean number of downloads for 2008-2010 references**  
 (measured 9/17/2010 on 54,476 downloads of 11,814 references)



# Our champions...

Reference  
most viewed

**Bernard Pochet**  
(2009). *La rédaction  
d'un article  
scientifique*

**1,601**  
visualisations

Author most  
downloaded

**Christian Hanzen**  
(veterinary)

**4,702**  
downloads

Author with  
the greatest  
number of  
references

**Robert Jérôme**  
(chemistry)

**791**  
references

The most  
popular serial

**Revue Médicale de  
Liège**

**1,250**  
References  
archived

# The future...

## Improve the submission process

- Easier
- More assisted
- Solution to reduce double encoding

## Improve the tool

- New fonctionnalités & added values
- Automatic content enrichment (links...)
- Push ORBi in the heart of scientific writing process (no longer peripheral)

## Convince

- Some reluctant scholars (*"No time"; "Not my job"...*)
- Help authors to convince smallest publishers

## Improve visibility

- Improve referencing (United States, Australia...)
- Contribute to the development of large regional or thematic harvesters

## Promote: "Snowball effet"

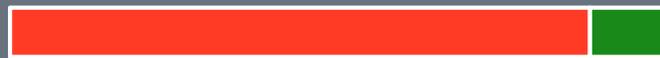
- 1,000 universities with an IR as ORBi? Then 30,000,000 references with free FT!
- Claim for a European mandate...

# In short

## Many IR

■ Perceived workload

■ Perceived benefits



Author  
Department  
Institution

## ORBi now



Author  
Department  
Institution

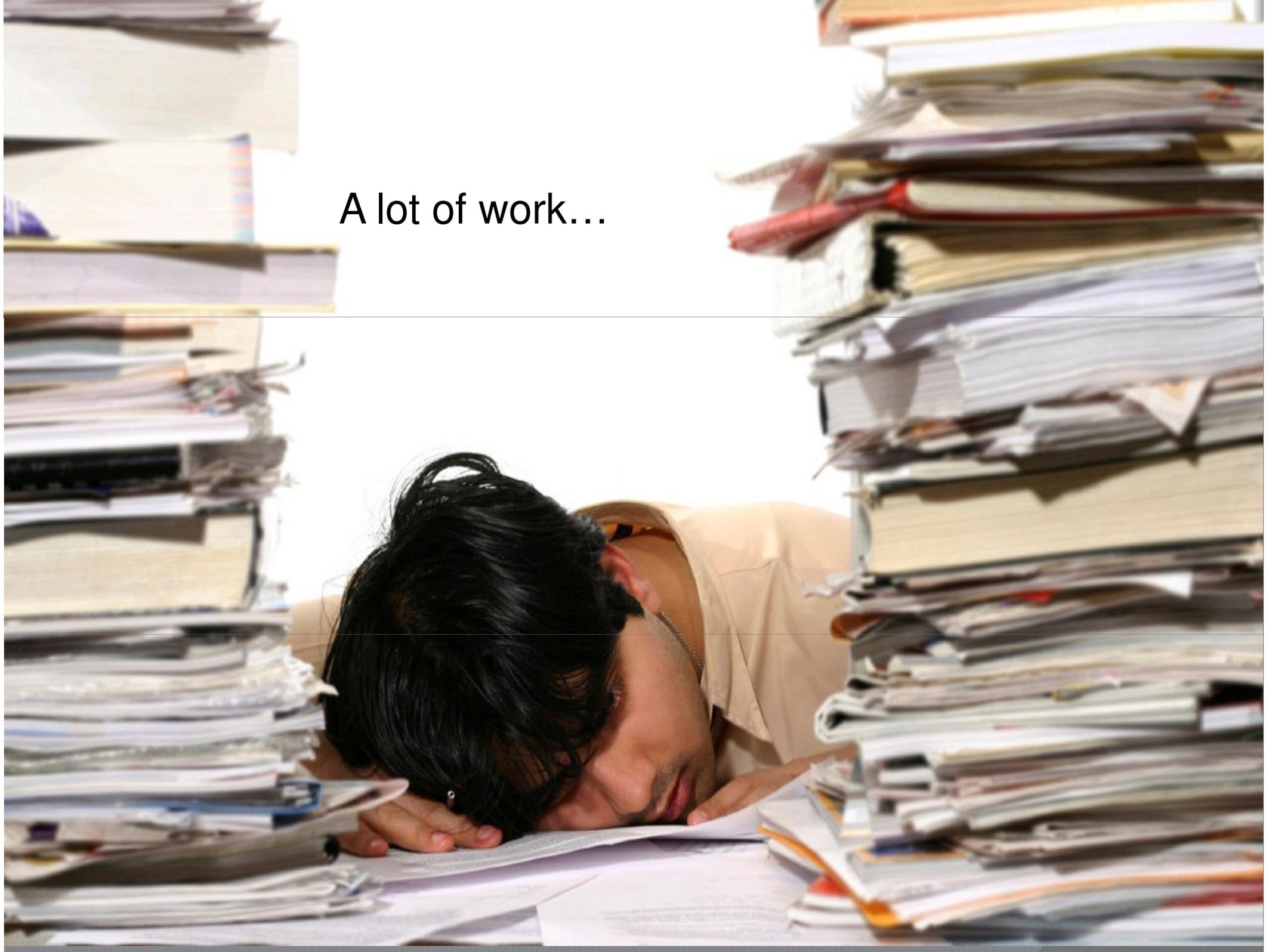
## ORBi tomorrow...



Author  
Department  
Institution

Scientific community

A lot of work...



Let's go to a short live demonstration...

# ...Thank you for your attention

ORBi

<http://orbi.ulg.ac.be>

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