

# OPENNESS IN HIGHER EDUCATION: OPEN EDUCATIONAL RESOURCES (OER)

Cox, G.;

;

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*IDRC Grant/ Subvention du CRDI: 107311-001-Research into Open Educational Resources for Development*



# Openness in Higher Education: Open Educational Resources (OER)

Glenda Cox

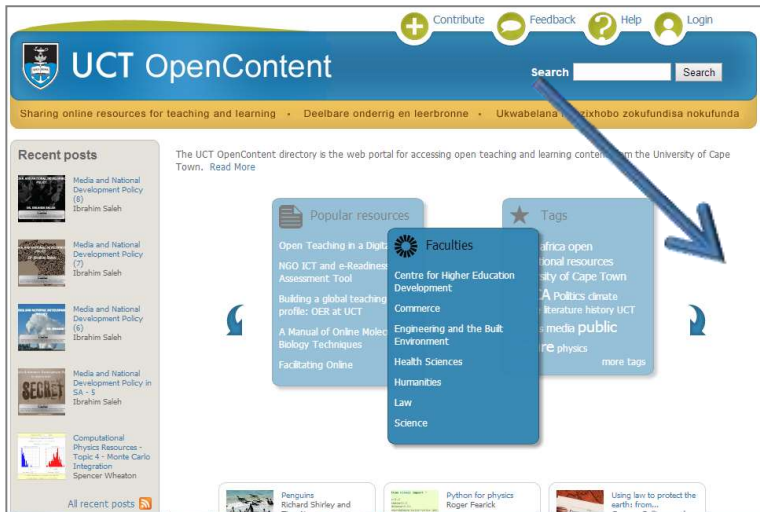
University of South Africa (UNISA) : 17 March 2015



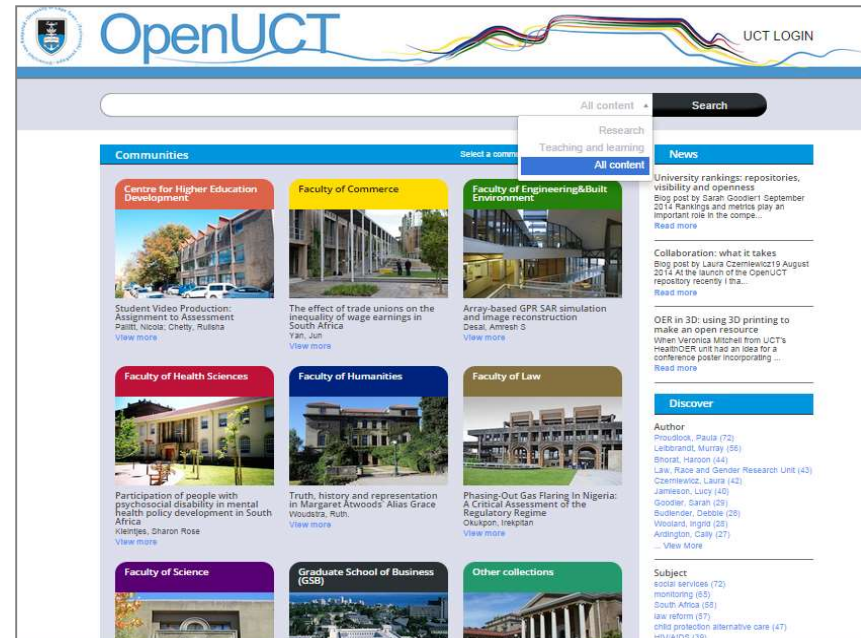
# A little about me: Glenda Cox



## Management



## Transition to Library-Training Advocacy Support



# ROER4D OER Adoption & Impact Studies

## GENERAL OBJECTIVE:

IMPROVE EDUCATIONAL POLICY, PRACTICE and RESEARCH in developing countries by better understanding the use and impact of OER

### PROJECT CLUSTERS

August 2013 - February 2017

OER  
Desktop Review

OER Survey

Academics'  
adoption of OER

Teacher educators'  
adoption of OER

OER  
adoption in one  
country

OER impact  
studies

Baseline  
educational  
expenditure



[roer4d.org](http://roer4d.org)

[facebook.com/  
ResearchOERforDevelopment](https://facebook.com/ResearchOERforDevelopment)  
[twitter.com/roer4d](https://twitter.com/roer4d)

 **ROER4D**  
Research on Open Educational Resources for Development  
/roer4d/ - ROER-for-DEE



  
**wawasan  
open UNIVERSITY**  
the people's university

**IDRC**  
International Development  
Research Centre



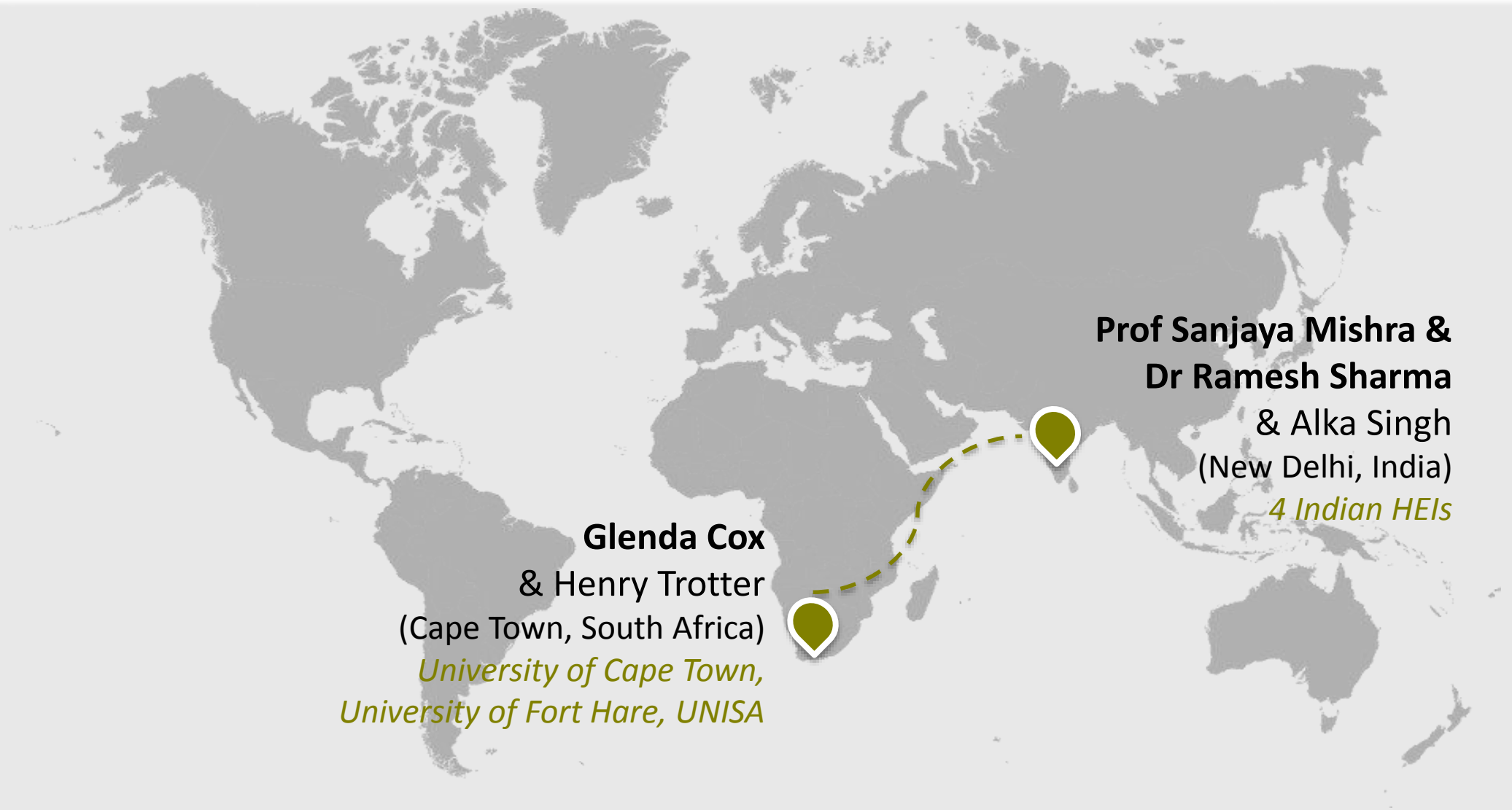
**CRDI**  
Centre de recherches pour le  
développement international

  
**UKaid**  
United Kingdom

created by Rondine Carstens and the ROER4D team



## Sub-Projects 3 & 4: Academics' adoption of OER



# Openness



Massive  
Open  
Online  
Course

<http://www.moddou.com/>

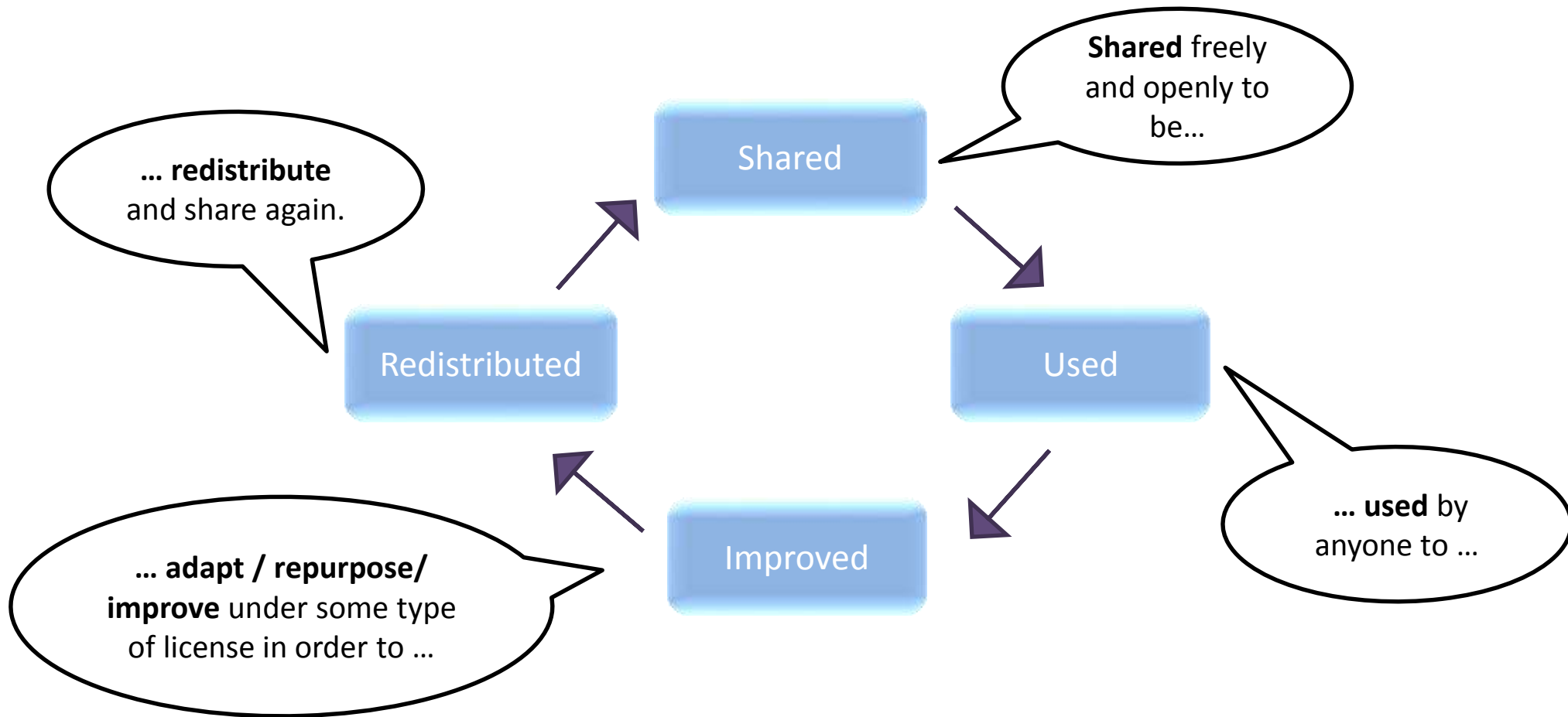


No cost

Degrees of openness depends on rights of the licence that the creator of content has granted to the user.

# Open Educational Resources (OER)

**Open Content / Open educational resources (OER) / Open Courseware** are educational materials which are **discoverable** online and **openly licensed** that can be:



# The Commons Movement





# The OER Movement Internationally



# Open Courseware

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MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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## Action Learning in Global Health

» 15.S07 GlobalHealth Lab

Photo Credit: Courtesy of TheEndia on Flickr.

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"I am contributing to a great project that  
will help many others improve their  
lives, materially, intellectually and  
spiritually."



**Carlos**  
Independent Learner  
Italy

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FEATURED COURSES

» [View All Courses](#)

OCW makes the materials used in the



# Some members of the Open Education Consortium



The Open University



The University of Nottingham



UNIVERSITY OF CAPE TOWN  
IYUNIVESITHI YASEKAPA • UNIVERSITEIT VAN KAAPSTAD



UNIVERSITY of the  
WESTERN CAPE



<http://www.oeconsortium.org/>



OER Africa

BROWSE ALL RESOURCES

*Building African education capacity through openness*

HOME UNDERSTAND OER FIND OER THEMES & PROJECTS ABOUT US NEWS

OER Africa works with African and other agricultural anchor partners to build the foundation of AgShare OER collaboration

[Learn More about Agriculture OER](#)

NEW RESOURCES

WHAT IS OER?

THEMES & PROJECTS

ABOUT OER AF

» Lessons Learned About





[Home](#) / [Browse All](#) / [My OER](#) / [Connect](#) / [Contribute](#)

## Experts Curate for You

The OER Commons Team designs custom tools and environments to support OER networks.

OER SUPPORT SERVICES

$$1+2=3$$

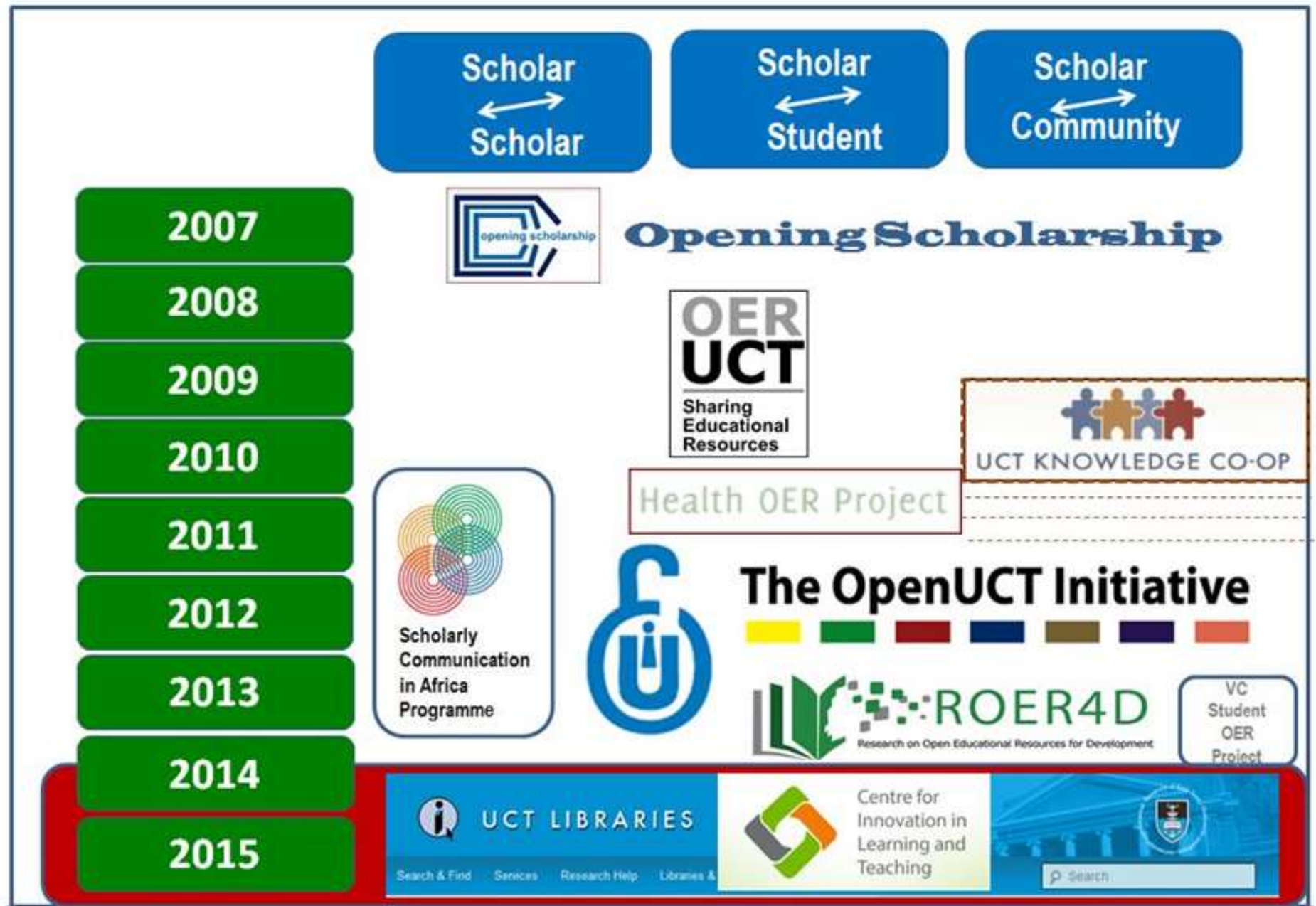


*What do you want to search for today?*






# OER at UCT



# OER from UCT: OpenContent (all content moved to OpenUCT)




# UCT OpenContent

[+ Contribute](#) [Feedback](#) [? Help](#) [Login](#)


Search  [Search](#)

Sharing online resources for teaching and learning • Deelbare onderrig en leerbronne • Ukwabelana ngezixhobo zokufundisa nokufunda


## Recent posts




Media and National Development Policy (8)  
Ibrahim Saleh




Media and National Development Policy (7)  
Ibrahim Saleh




Media and National Development Policy (6)  
Ibrahim Saleh




Media and National Development Policy in SA - 5  
Ibrahim Saleh



Computational Physics Resources - Topic 4 - Monte Carlo Integration  
Spencer Wheaton


[All recent posts](#) 

The UCT OpenContent directory is the web portal for accessing open teaching and learning content from the University of Cape Town. [Read More](#)




### Popular resources

- Open Teaching in a Digital World
- NGO ICT and e-Readiness Assessment Tool
- Building a global teaching profile: OER at UCT
- A Manual of Online Molecular Biology Techniques
- Facilitating Online Learning




### Faculties

- Centre for Higher Education Development
- Commerce
- Engineering and the Built Environment
- Health Sciences
- Humanities
- Law
- Science




### Tags


- africa open
- national resources
- University of Cape Town
- A Politics climate
- literature history UCT
- media public
- re physics
- [more tags](#)



Penguins  
Richard Shirley and

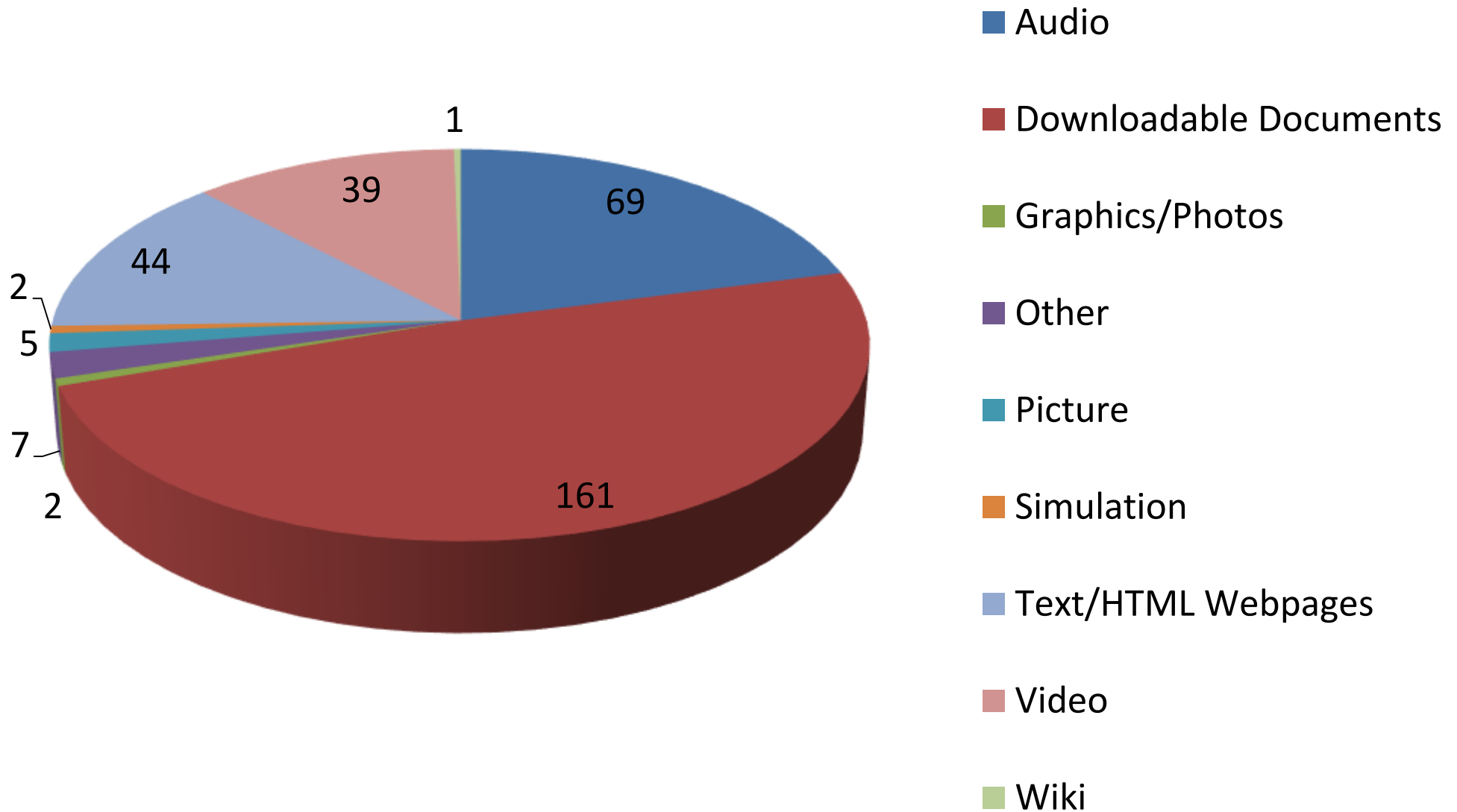


Python for physics  
Roger Fearick

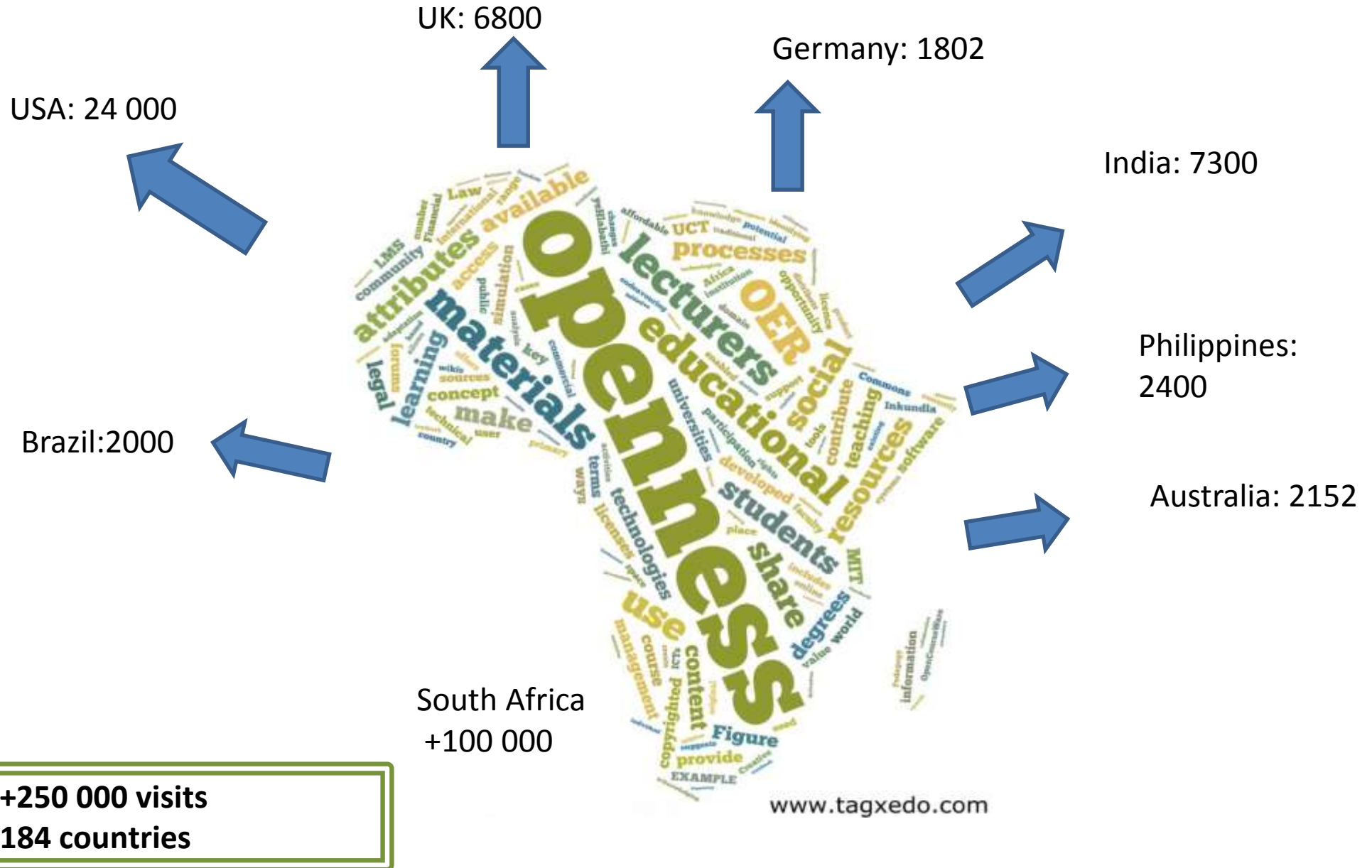


Using law to protect the earth: from...

## OER from UCT: Resources by Media type (June 2014)



# OER from UCT: OpenContent (June 2014)



# Feedback

Dear Course Moderator,  
Thank you so much for considering to provide Initial French Lessons through this medium. I found it very useful for my pursuit towards learning French language.

.....

Hi Ms. Cox,  
Greetings!

I am in India. The usefulness of online media is this, you have students from all over the globe. Thanks for asking.  
Loveson

this site is priceless  
this is my first visit, and i'm very impressed.  
i really appreciate the idea of the site as i'm Syrian ENT fresh graduated doctor, and it's not that easy to get and afford the textbooks that you need.  
i've already shared your site with colleagues in order to spread the knowledge.  
thanks again

yours sincerely  
Helal Alsaleh

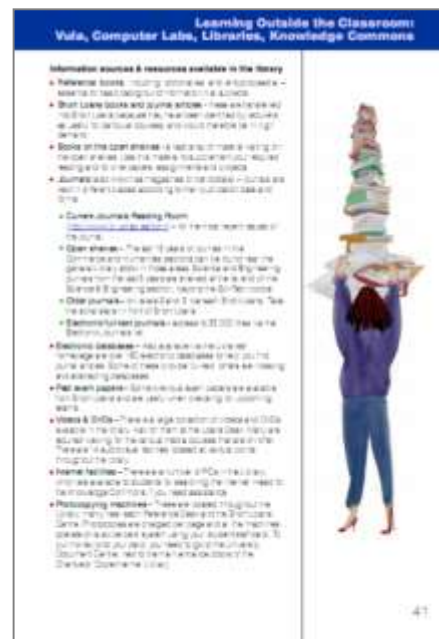
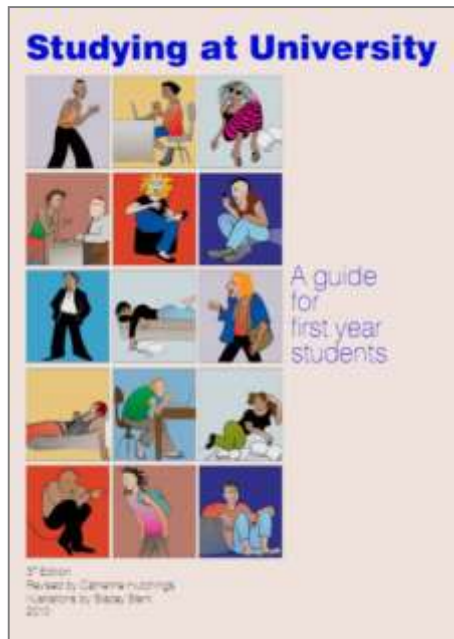


# Studying at University: A guide for first year students

Used by Venda University and the University of the Western Cape with new students

Stellenbosch University uses some of the illustrations

The guide has been **accessed over 6,500 times** via the directory and over 600 physical printed guides have been sold!



# OpenContent becomes a journal article



## New Stories for 2010



### *From Cape Town OER to Spanish Journal Article (Matumo Ramafikeng)*

- **Occupation Focused Conceptual Framework** Matumo's materials on the UCT OER directory
- **Blog post of this story from the OER@UCT blog**
- **"Found in Translation"** University of Cape Town News item

Materials published as OER on OpenContent selected for **publishing** in the *Journal of Occupational Therapy of Galicia*, an open access journal for occupational therapists in the Spanish speaking world

<http://blogs.uct.ac.za/blog/oer-uct/2010/12/06/sharing-knowledge-leads-to-opportunities>

# Incentives for academics: OER Grants

Faculties and areas	2011-2014
Centre for Higher Education Development	5
Commerce	6
Engineering	8
Health Science	18
Humanities	15
Science	6
Law	3
Library	1
Vice Chancellor's office	1
Other (undefined)	1
<b>TOTAL</b>	<b>64</b>

15 grants still being worked on. So far 55 resources have been added.





[All content](#)
[Search](#)
[Research](#)
[Teaching and learning](#)
[All content](#)

## Communities

[Select a community](#)

## News

### Centre for Higher Education Development



Student Video Production:  
Assignment to Assessment  
Pallitt, Nicola; Chetty, Rulisha  
[View more](#)

### Faculty of Commerce



The effect of trade unions on the  
inequality of wage earnings in  
South Africa  
Yan, Jun  
[View more](#)

### Faculty of Engineering&Built Environment



Array-based GPR SAR simulation  
and image reconstruction  
Desai, Amresh S  
[View more](#)

### Faculty of Health Sciences



Participation of people with  
psychosocial disability in mental  
health policy development in South  
Africa  
Kleintjes, Sharon Rose  
[View more](#)

### Faculty of Humanities



Truth, history and representation  
in Margaret Atwoods' Alias Grace  
Woudstra, Ruth  
[View more](#)

### Faculty of Law



Phasing-Out Gas Flaring In Nigeria:  
A Critical Assessment of the  
Regulatory Regime  
Okukpon, Irekpitani  
[View more](#)

### Faculty of Science



### Graduate School of Business (GSB)



### Other collections



University rankings: repositories,  
visibility and openness  
Blog post by Sarah Goodier1 September  
2014 Rankings and metrics play an  
important role in the compe...  
[Read more](#)

Collaboration: what it takes  
Blog post by Laura Czemlewicz19 August  
2014 At the launch of the OpenUCT  
repository recently I tha...  
[Read more](#)

OER in 3D: using 3D printing to  
make an open resource  
When Veronica Mitchell from UCT's  
HealthOER unit had an idea for a  
conference poster incorporating ...  
[Read more](#)

## Discover

### Author

Proudlock, Paula (72)  
Leibbrandt, Murray (56)  
Bhorat, Haroon (44)  
Law, Race and Gender Research Unit (43)  
Czemlewicz, Laura (42)  
Jamieson, Lucy (40)  
Goodier, Sarah (29)  
Budlender, Debbie (26)  
Woodard, Ingrid (25)  
Ardington, Cally (27)  
... [View More](#)

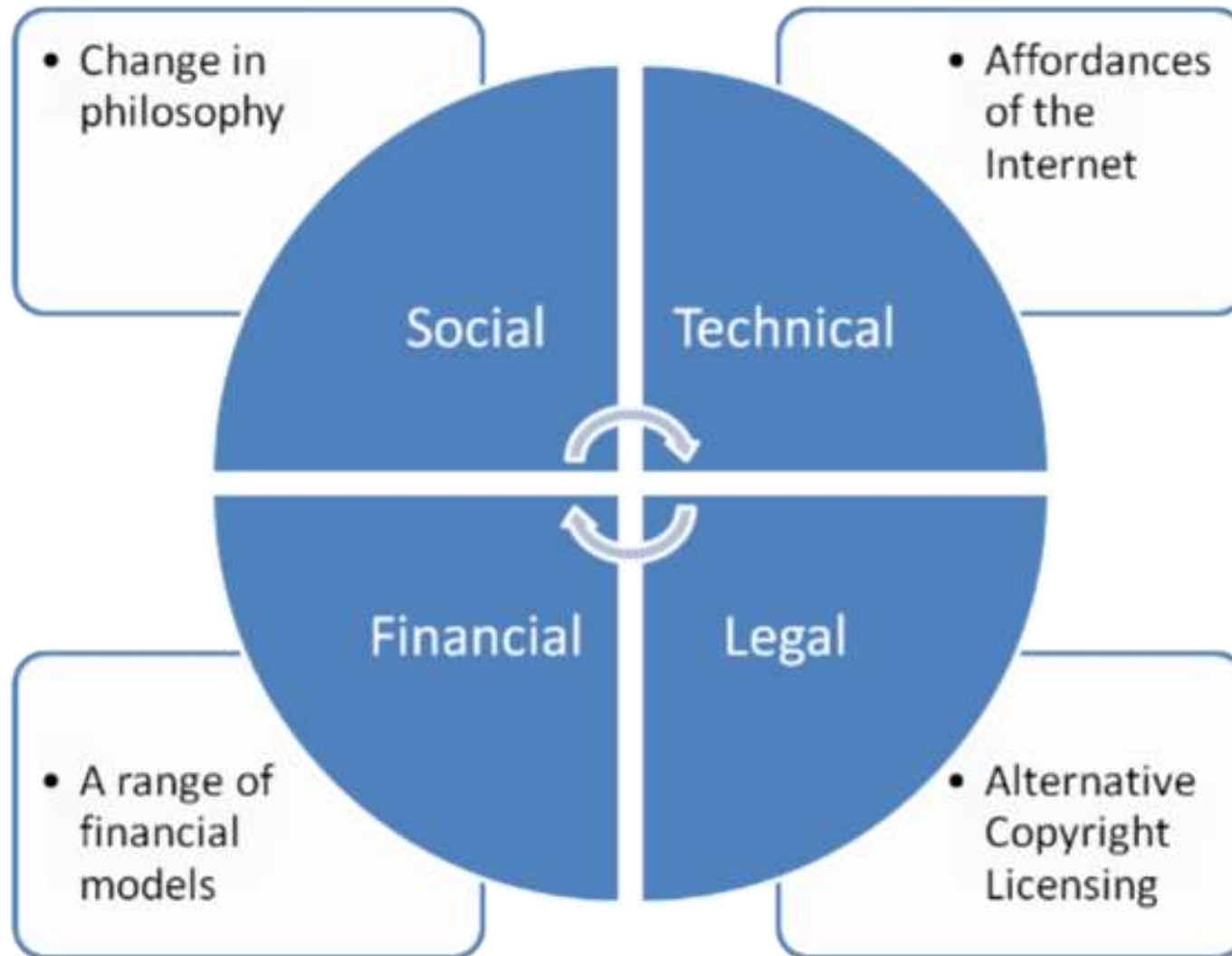
### Subject

social services (72)  
monitoring (65)  
South Africa (68)  
law reform (57)  
child protection alternative care (47)

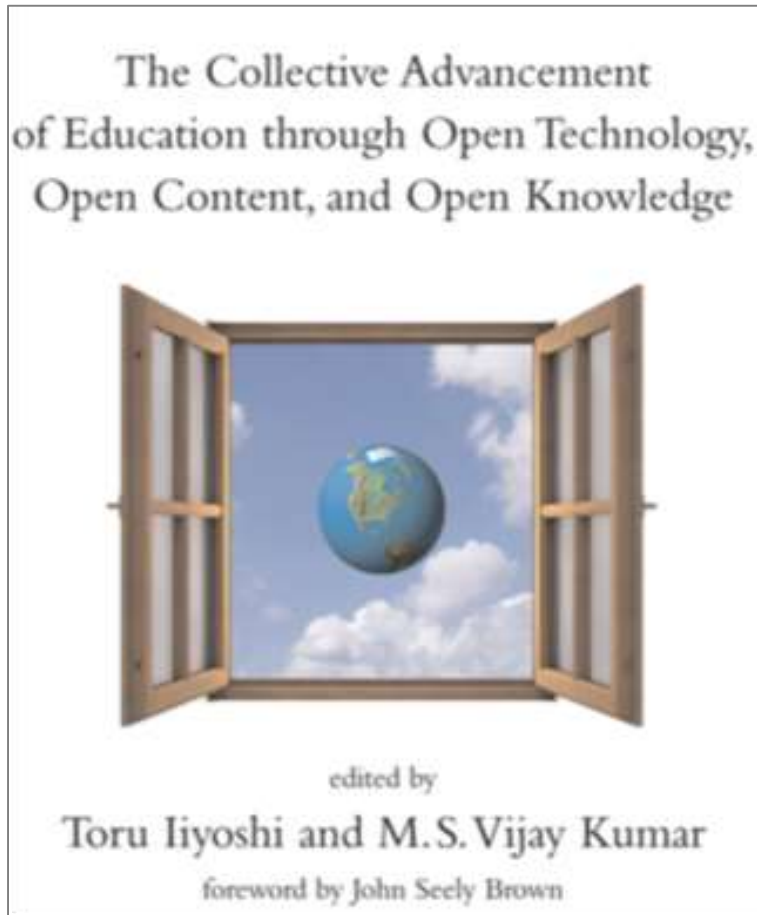
What ENABLERS and  
BARRIERS to OER can  
you think of?



# What are the enablers of OER?



## Enabler



## Barrier

- Lack of awareness
- Institutions are not always supportive of sharing
- Individual academics need to believe in the value of sharing

## Enabler



<http://en.wikipedia.org/wiki/File:Internet1.jpg>

## Barrier

- Not everyone has access
- Digital divide between Global South and North
- Lack of ability and skills

## Enabler



<http://www.flickr.com/photos/59937401@N07/5856660723/>

## Barrier

- Support from external funders like Shuttleworth and Mellon is temporary
- After seed funding institutions must then take over



## Enabler

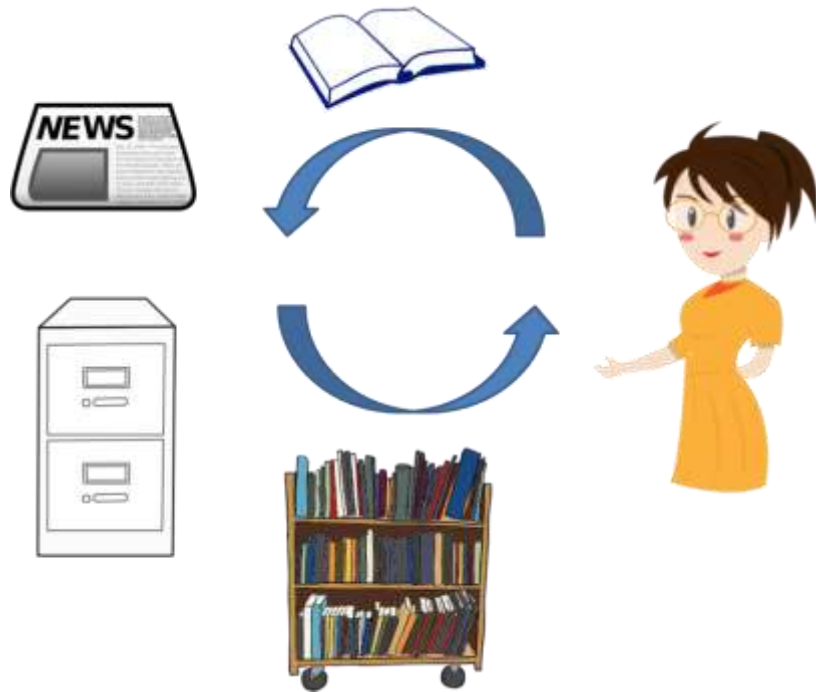


“So actually I think you’re more protected if you make something legitimately an OER and then somebody else uses it.”

## Barrier

- Academics are not aware of Creative Commons or how Creative Commons works
- They are not that concerned about their Intellectual property (although they do want attribution) but they are very concerned about infringing the copyright of others

## Enabler



## Barrier

- Creation: interactive teaching styles do not always result in online materials
- Use: difficult to find relevant OER

## Enabler

“.. I think it will make everyone go over it two or three times, ya.”

“If they’re ready for students to see, then they’re as ready as they’re going to get.”

“I think that each individual preparing their materials must be sure that their material is substantively correct, sound or critical.”

## Barrier

“They don’t look good enough to put out there.”

“But I would love to be able to give what I had to somebody and say does it... it’s sort of like is there cohesion, does it make sense”.

What are the potential  
benefits of OER?



# Global challenges of higher education

Increasing demand for  
education and  
insufficient institutions

Increasing cost of  
higher education and  
text books

Increasing competition

Variable quality in  
teaching

Asymmetries of power  
and wealth and  
curriculum from the  
Global North favoured  
over the Global south

# Challenges for South Africa

Crisis in Basic education

Skills shortage/"persistent human Capital gap" (Taylor, 2011)



Higher education: high school graduates of varied ability

Higher education institutions quality variable

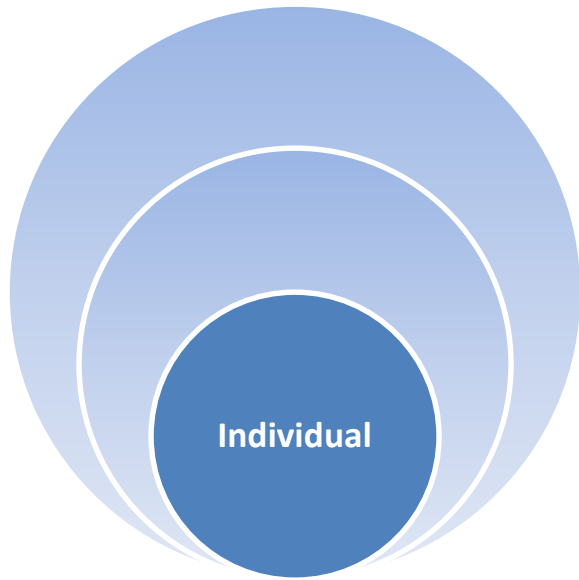


Free Courseware Project  
University of the Western Cape

# Why OER now for academic departments?

- Increase institutional **visibility**, advancing competitiveness, attracting students and resources
- Promote effective **social responsiveness**
- Improve **learning experience** by selecting materials in pedagogically sound and innovative ways
- Improve **recruitment** by helping the right students find the right programmes
- Enhance teaching **coherence across courses**
- Ensure better long-term **archiving, curation and reuse** of teaching materials
- Attract alumni as **life-long learners**

# Why OER now - individually?



- **Profile teaching** and **pedagogical** idea sharing
- Create **record of teaching** for teaching portfolio
- **Foster connections** between other colleagues, departments and even other universities (especially cross-disciplinary studies)
- **Increase impact** of teaching materials
- **Extend use** of teaching materials to high school learners and life-long learners



# Increasing Visibility

[Advanced Search](#)Search: ☒ the web ☐ pages from South AfricaWeb [+ Show options...](#)Results 1 - 10 of about 8,120 for **introduction of molecular virology**. (0.25 seconds)Did you mean: [introduction to molecular virology](#) Top 2 results shown

## [Introduction to Molecular Virology](#)

Prepared by **virologist** Ed Rybicki of the Department of Microbiology at the University of Cape Town, South Africa.

[opencontent.uct.ac.za/weblinks/goto/22](http://opencontent.uct.ac.za/weblinks/goto/22) - [Cached](#)

### [Contents](#)

Mirrored **Virology** Course From University of Leicester ... This was originally written as a supplement to my **Introduction to Virology** 7-lecture course to second-year ... course (**Molecular** and General **Virology**) given to 3rd year students. ...

[www.uct.ac.za/microbiology/tutorial/tutcontents.htm](http://www.uct.ac.za/microbiology/tutorial/tutcontents.htm) - [Cached](#)

Results for: **introduction of molecular virology**[\[PPT\] Introduction to molecular biology...](#) ☆

File Format: Microsoft Powerpoint - [View as HTML](#)

'Biology', Campbell and Reece (6th Ed.), Very readable general biology textbook;

[www.ebi.ac.uk/2can](http://www.ebi.ac.uk/2can), good **introduction** to bioinformatics and **molecular** ...

[groups.inf.ed.ac.uk/bionlp/links/bio-intro.ppt](http://groups.inf.ed.ac.uk/bionlp/links/bio-intro.ppt) - [Similar](#)

[UCT OpenContent | Occupation Focused Conceptual Frameworks](#) ☆

This **OT**-focused module is therefore aimed at such users and occupational therapy training institutions ... **Introduction to Molecular Virology**. Ed Rybicki ...

[opencontent.uct.ac.za/.../Occupation-Focused-Conceptual-Frameworks](http://opencontent.uct.ac.za/.../Occupation-Focused-Conceptual-Frameworks) - [Cached](#)

[Introduction to Molecular Biology | 2can Support Portal | EBI](#) ☆

**Introduction to Molecular** Biology for the 2Can Support Portal, which provides short and concise introductions to basic concepts in **molecular** and cell ...

[www.ebi.ac.uk/2can/biology/](http://www.ebi.ac.uk/2can/biology/) - [Cached](#) - [Similar](#)

[Virology Journal | Full text | First introduction of highly ...](#) ☆

by K Bragstad - 2007 - [Cited by 19](#) - [Related articles](#)

## Conclusion

- Amazing work globally (e.g. Commonwealth of Learning, UNESCO)
- OER repositories, networks and research continues to grow
- Opportunity to use OER's in MOOCs
- Opportunity to share resources across the world across the Global South, North to South and also South to North

## Creators and Contacts

**Prepared by:**

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Some slides were created by **Michael Paskevicius** - [mike.vicious@gmail.com](mailto:mike.vicious@gmail.com)

**OpenUCT repository**  
<https://open.uct.ac.za/>

**CILT website**  
<http://www.cilt.uct.ac.za/>

**ROER4D website:**  
<http://roer4d.org/>



[www.tagxedo.com](http://www.tagxedo.com)



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