

Libre Learning

OER and Equality

Kim Tucker



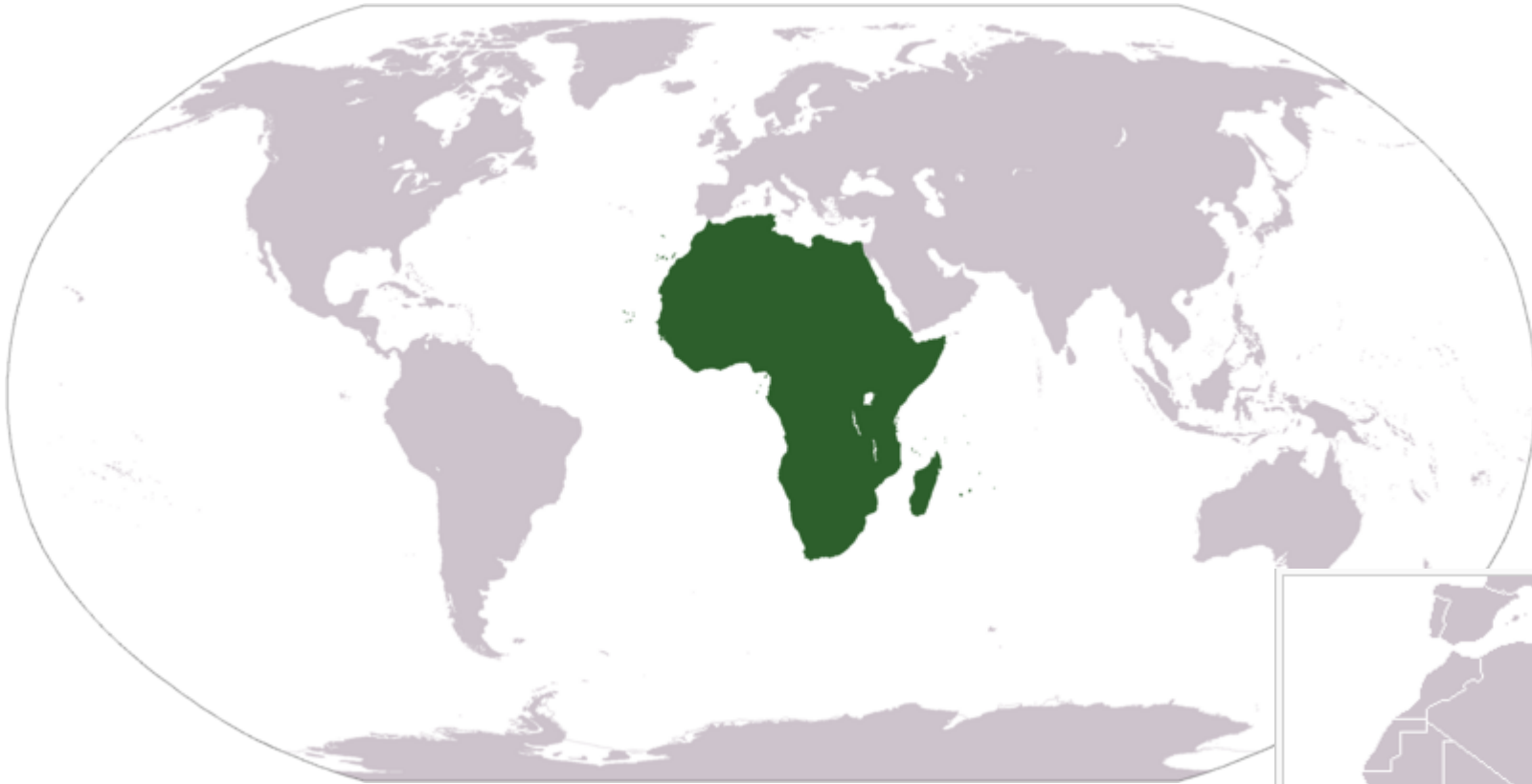
(managed by the CISR in South Africa)

presented at

Open Education 2007

Localizing and Learning

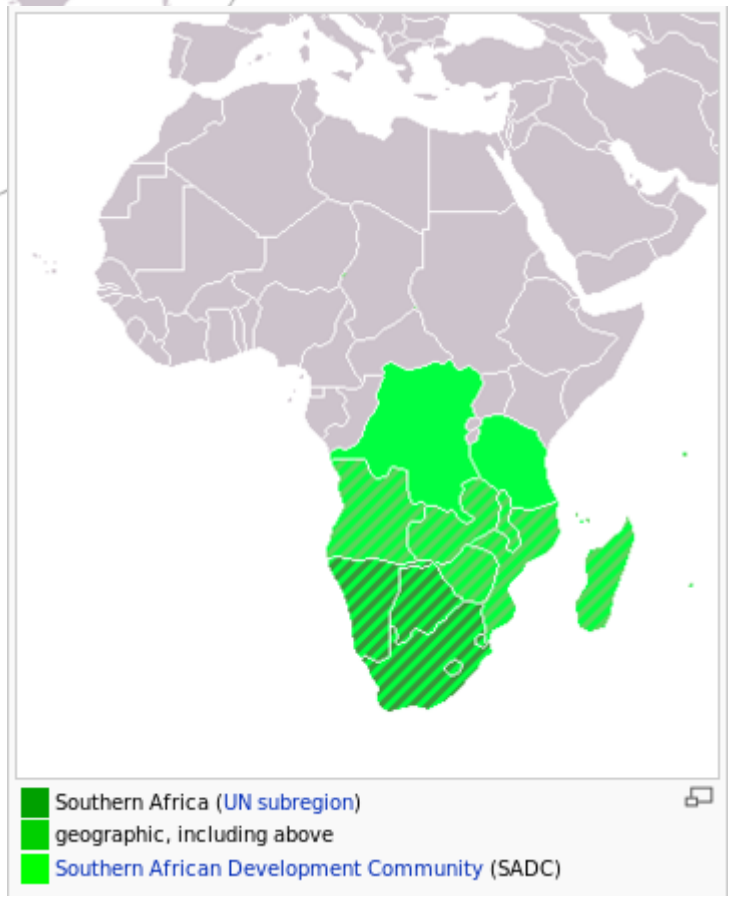
September 26-28, 2007



<http://en.wikipedia.org/wiki/Image:LocationAfrica.png>

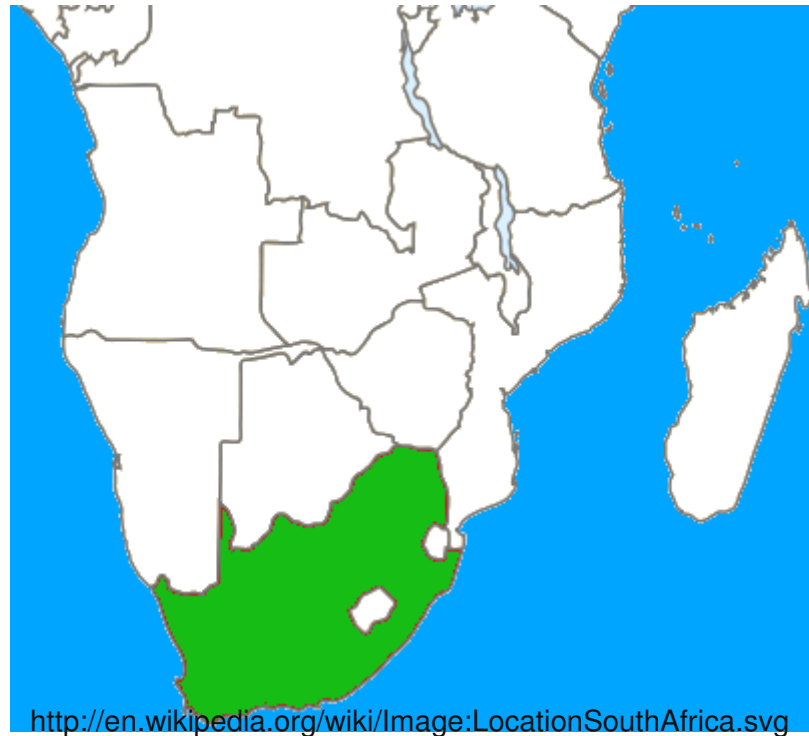
Perspectives

Towards collective understanding



<http://en.wikipedia.org/wiki/Image:LocationSouthernAfrica.png>

South Africa



a “developing” country

<http://www.ted.com/talks/view/id/92>



a world in one country



http://commons.wikimedia.org/wiki/Image:Landscape_kruger-park.jpg

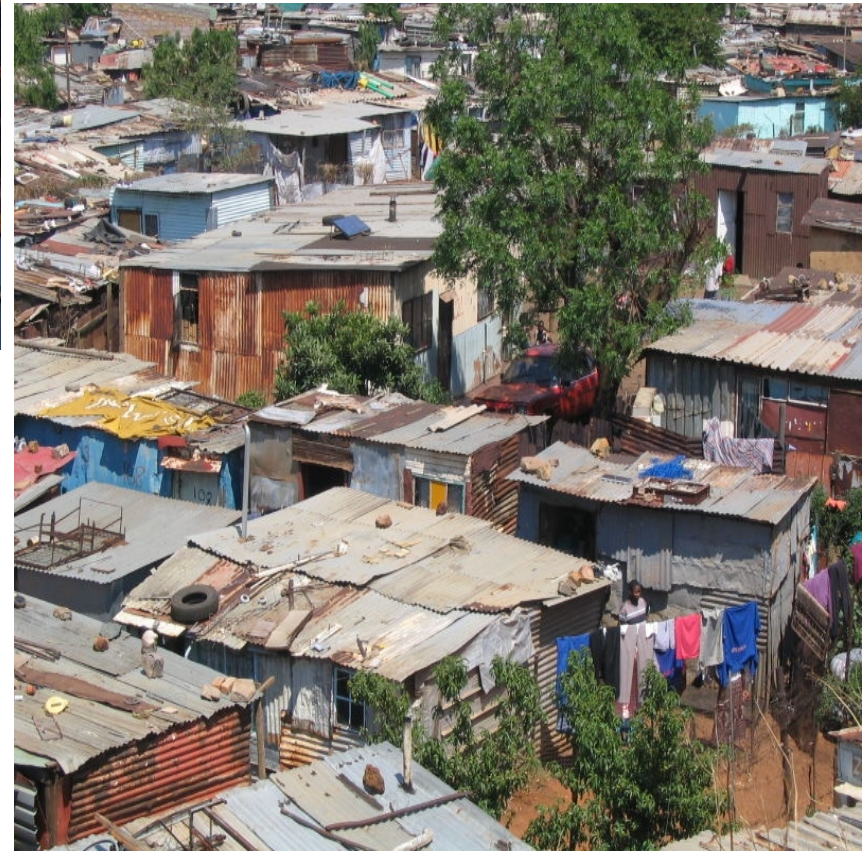
From developed
to pristine





http://en.wikipedia.org/wiki/Image:Sandton_home_01.jpg

a country of contrasts



Township in Soweto

Matt-80

http://commons.wikimedia.org/wiki/Image:Soweto_township.jpg

Diversity - resilience

Bluefin Trevally and Coral
<http://flickr.com/photos/rling/438035973/>
CC BY SA Richard Ling



flickr.com/people/rling



fynbos
Uploaded on August 24, 2007
by chenlondon
<http://www.flickr.com/photos/chen06/1221866029/>



Welwitschia plant
<http://flickr.com/photos/squeakymarmot/134394329/>
CC BY - squeakymarmot

Global (bio) Diversity



Wildebeest
<http://flickr.com/photos/angela7/294703313/>
CC BY wayfaring stranger (Angela7)



Dune 45, Sossusvlei, Namibia
<http://flickr.com/photos/ibeatty/60086818/>
CC BY SA ibeatty





Black rhinos at Animal Kingdom safari
Uploaded on August 28, 2006
CC BY-SA by SolGrundy
<http://www.flickr.com/photos/solgrundy/227893557/>



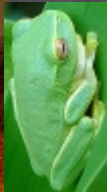
Dolphin Crest
<http://flickr.com/photos/jurvetson/336157/>
CC BY jurvetson



Impala
<http://flickr.com/photos/zest-pk/924783392/>
CC BY zest-pk



The Kings
http://flickr.com/photo_zoom.gne?id=435343670&size=l
CC BY - Ben Tubby



Spot the frog
Uploaded on March 22, 2006
CC BY by nellring
<http://www.flickr.com/photos/80415664@N00/116285264/>

Global (bio) Diversity



Nepal Eagle Pokhara
Uploaded on July 2, 2007
BY SA by sluj78
<http://www.flickr.com/photos/juls78/695107250/>



Elephant
<http://flickr.com/photos/mister-e/394312384/>
CC BY mister-e



Giraffe -
<http://flickr.com/photos/mister-e/394306482/>
CC BY mister-e





All of this is under threat



EPA Documerica:
U.S. Steel Plants in Birmingham by Leroy Woodson, 1972
(NARA/EPA)

<http://flickr.com/photos/pingnews/450243888/>

CC BY SA, Uploaded on April 7, 2007

by pingnews.com

for one reason or another



Pilsen and Pollution

http://flickr.com/photos/senor_codo/352250460/

CC BY SA

Uploaded on January 9, 2007 by Señor Codo

industrial waste

<http://flickr.com/photos/inquire/351889812/>

CC BY

inquirer



We are all connected

and collective wisdom
via local and global knowledge sharing
is required
for sustainability

[Economic – Social - Environmental]

Think global, act local

Equality and Education

Equal treatment – regardless of

- gender
- colour
- religion
- health
- physical condition
- age
- etc.



Tibetan Girl near Mount Everest
Uploaded on June 26, 2007
CC BY by star_trooper
http://www.flickr.com/photos/star_trooper/625951603/



Dazaifu Tenmangu priest
Uploaded on September 8, 2006
CC BY by MShades
<http://www.flickr.com/photos/mshades/238157702/>



Uploaded on January 13, 2007
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<http://www.flickr.com/photos/farshadebrahimi/355404902/>



Uploaded on June 29, 2007
CC BY-SA by openDemocracy
<http://www.flickr.com/photos/opendemocracy/660469007/>



Priests at Santa Croce
Uploaded on April 15, 2007
CC BY-SA by yanivba
<http://www.flickr.com/photos/yanivba/459716051/>

Equal access to ...

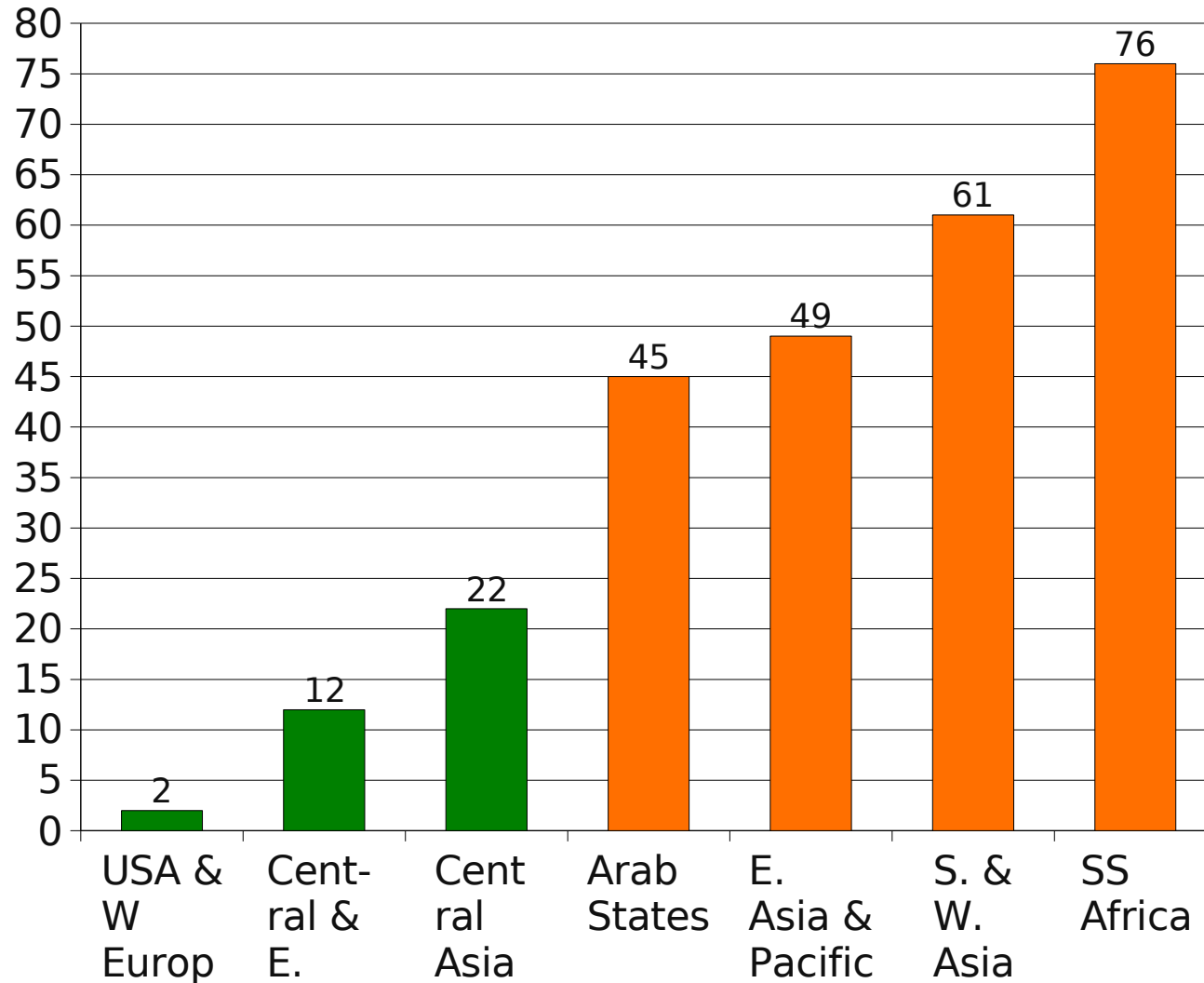
- Education
 - learning resources
 - ... quality
 - ... relevance
 - learning opportunities
 - knowledge



From slides of Wayne Mackintosh (COL)
presented at DEASA 42nd Regional Meeting
Swaziland, September 2007.



Kids who won't be going to school



Wayne Mackintosh (COL): Keynote address. 42nd DEASA Regional Conference and Workshop. Institute of Distance Education, University of Swaziland, Mbabane, 14 September 2007.

Equal access to ...

- water
- food
- sanitation
- health
- welfare services
- security
- etc.



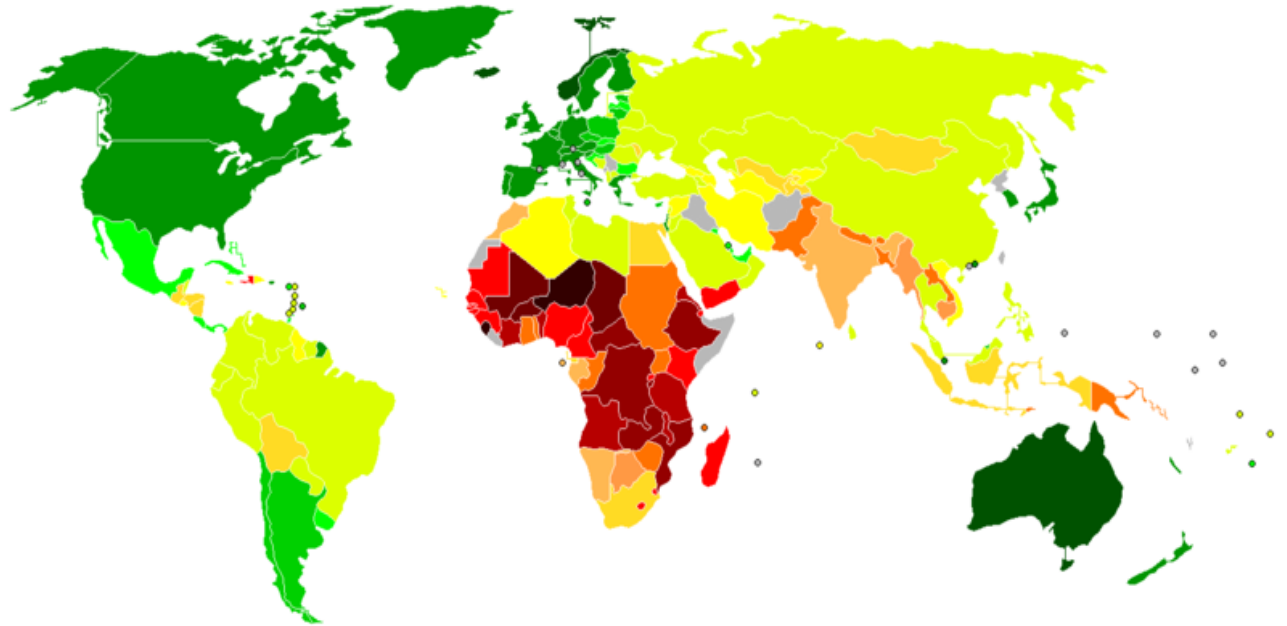
P1010245
Uploaded on November 14, 2005
CC BY by Larsz
<http://www.flickr.com/photos/criminalintent/>



Inequalities

Human Development Index

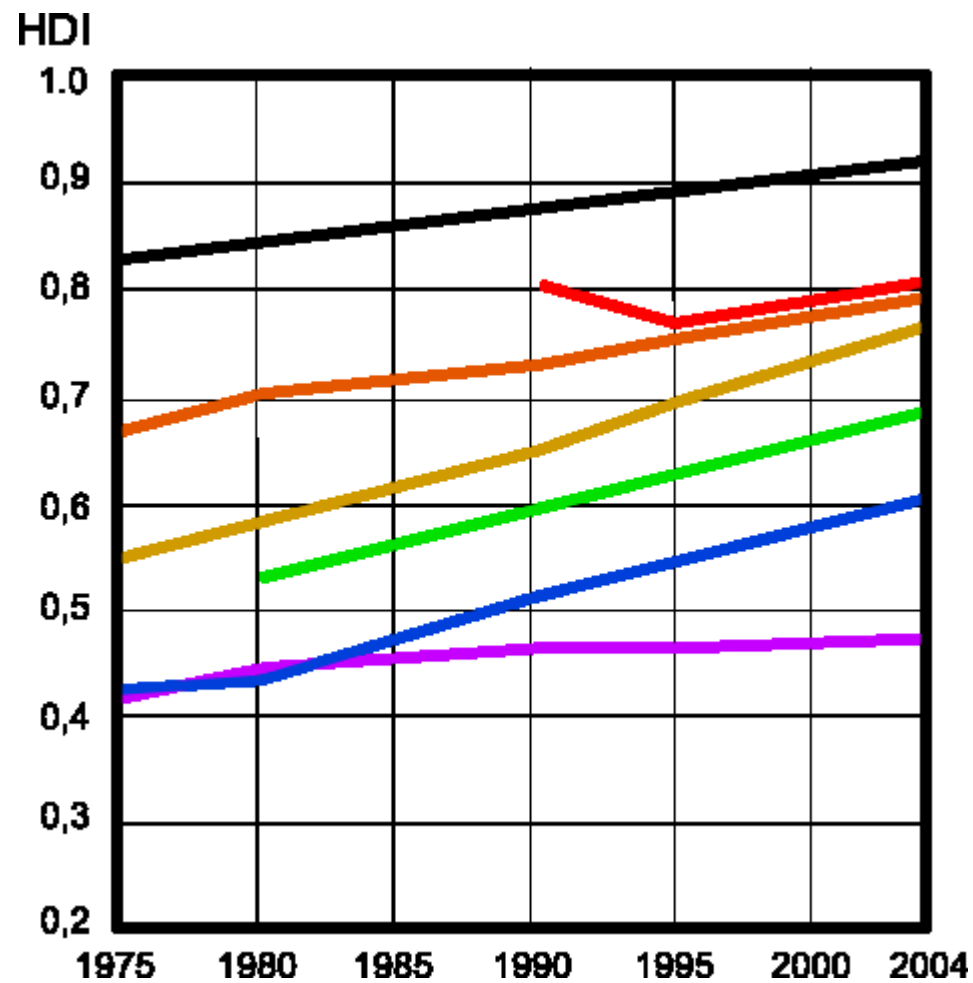
- poverty
- literacy
- education
- life expectancy
- childbirth
- and other factors for countries worldwide.



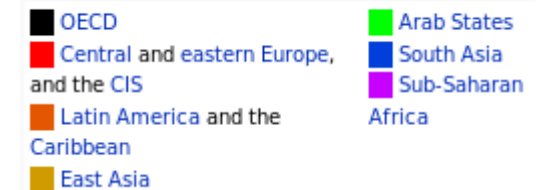
–

http://en.wikipedia.org/wiki/Human_Development_Index

Trends



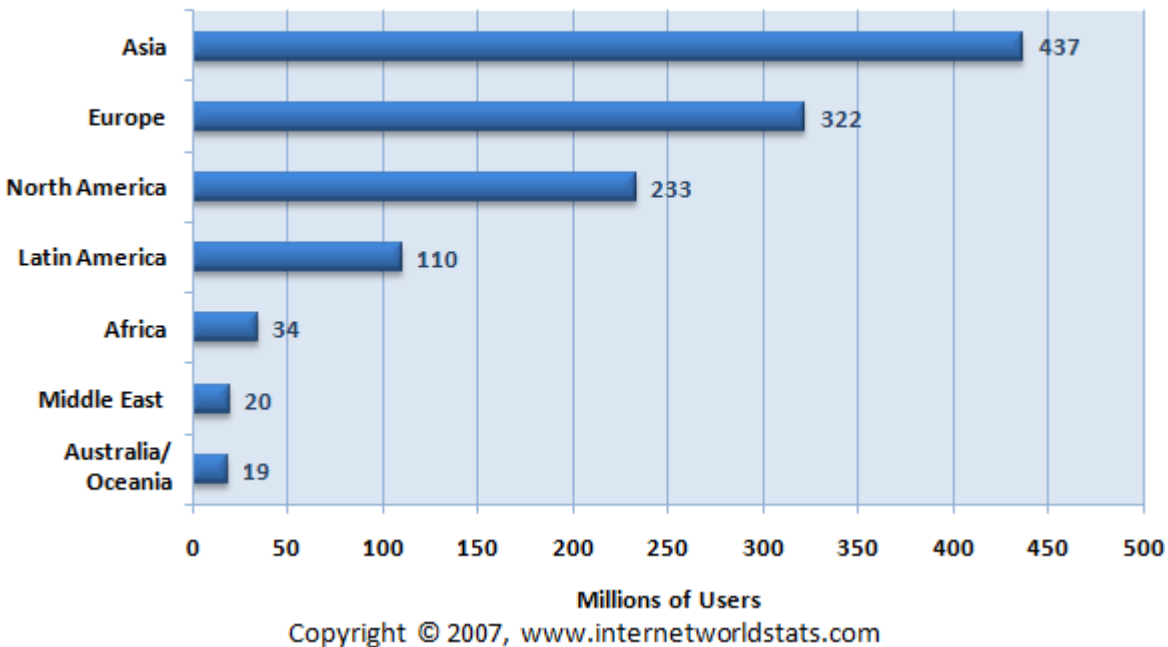
HDI trends between 1975 and 2004



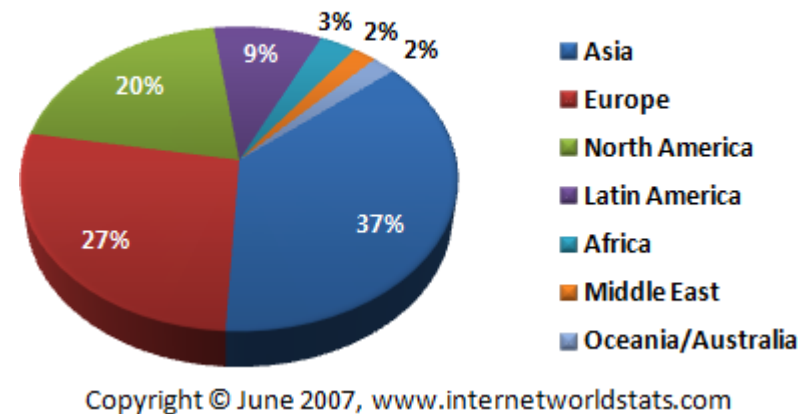
The marginalization of African knowledge

- Africa produces around 3% of books published, but consumes around 12%.
- Africa produced 0.2% of online content in 2002 – if South Africa is excluded, 0.02%.
- The major Northern scholarly journals account for 80% of articles in the Thomson indexes.
163 developing countries produce just 2.5%.
- Africa has 0.3% of the journals in the TS indexes. 65% of African research in local, non-indexed journals

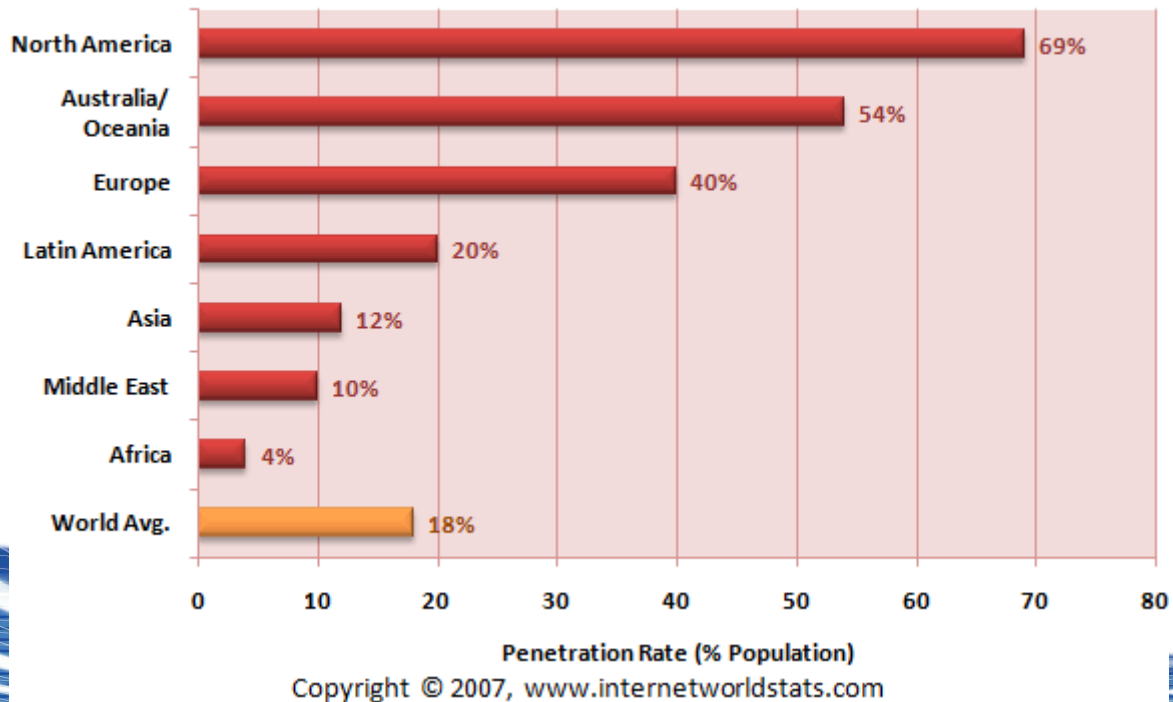
Internet Usage by World Region



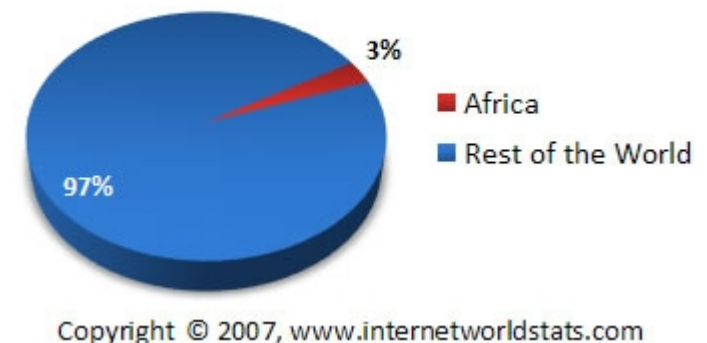
World Internet Users



Internet Penetration by World Region



Africa Internet Users



Reproduced with permission from:
<http://www.internetworldstats.com/>
 accessed on 26 September 2007.
<http://www.internetworldstats.com/stats.htm>
 and
<http://www.internetworldstats.com/stats1.htm>

Is the OER movement part of the solution?

Can we enhance the impact?

Building Blocks towards inclusion

- Literacy
- Access to Technology (TV, PCs, phones, ...)
- ICT Literacy
- Access to Knowledge and Learning resources
- Ability to
 - use the resources – localisation
 - contribute and participate in co-generation of knowledge
 - Participate meaningfully in the knowledge society and decision making.

Local Solutions

leveraging global knowledge

Acting local

some examples

Singazenzela

“we can do things for ourselves”

a relatively new project

and a general principle

<http://wiki.singazenzela.org/>

WirelessAfrica.meraka.org.za



Digital Doorway



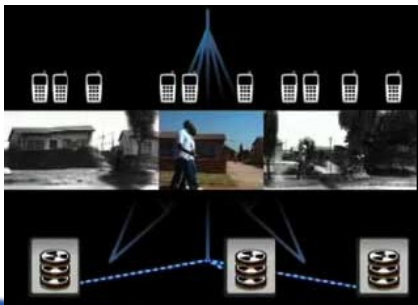
<http://www.digitaldoorway.org.za/>



MobilED.uiah.fi

The MobilED (mobile education) initiative is aimed at designing learning and teaching environments that are meaningfully enhanced with mobile technologies and services.

Technology



- Mobile devices: GSM phones, multimedia/smart phones, Internet tablets
- Wireless networks: GSM, 3G, WLAN
- Voice, speech and language technologies: speech interfaces, audio information systems etc.
- Social software: Mediawiki, blogs, Knowledge Building tools.
- Wikipedia: The Free Encyclopaedia.

Pedagogy

- Student and group-centred learning
- Project-based learning
- Problem solving
- Inquiry learning



Pilot 1

Stage 1

- A mobile audio wikipedia can be accessed by sending an SMS with a key word.



- The service calls back and plays the information, making use of text to speech conversion.

Pilot 1

Stage 2

- Learners could make their own audio castings on related topics.
- This information is added to the audio wikipedia for other people to listen to.



Pilot 2

- Similar lesson about HIV/AIDS, different approach, building in the results of Pilot 1 (also Grade 8)
 - More time for learners to experiment (with the phones and technology)
 - Printouts of a Wikipedia webpage
- Improvement of the technology
 - Improved speakers
 - Different text-speech system
 - Fewer bugs



Note the relevance of the content localisation

Some results from Pilot 2

- Enthusiastic support from learners (once again)
- Issues like language a “non-issue”
- Learners happy to share the cell phones in the group
- Learners comfortable with the technology in a short period of time
- Spontaneous use of audio wikipedia for other learning areas



Next Steps

- Future
 - Multimedia interaction
 - the free software is already designed for this
 - “Street Memory”
 - wider application
 - e.g. communication for disaster management
 - etc.
- Similar pilots in Finland, Brazil, Colombia, India

etc.

- Dr Math - http://l07.cgpublisher.com/proposals/848/index_html
- Human Language Technologies
 - <http://www.meraka.org.za/humanLanguage.htm>
- Intelligent Environments for Independent Living
 - <http://www.meraka.org.za/nap>
- Earth observation
 - <http://ict4eo.meraka.csir.co.za/>
- Fab Lab, ... intelligent toys, ..., etc.

Some great things are happening ...

- ICT in schools
 - Schoolnet Namibia: <http://www.schoolnet.na/>
 - tuXlabs: <http://www.tuxlabs.org.za/>
 - NetDay: <http://www.netday.org.za/>
- efforts towards Open Access in Universities, etc.:
 - http://blogs.uct.ac.za/blog/gray_area
- efforts towards connectivity and access:
 - South African Research Network:
<http://www.meraka.org.za/sanren.htm>



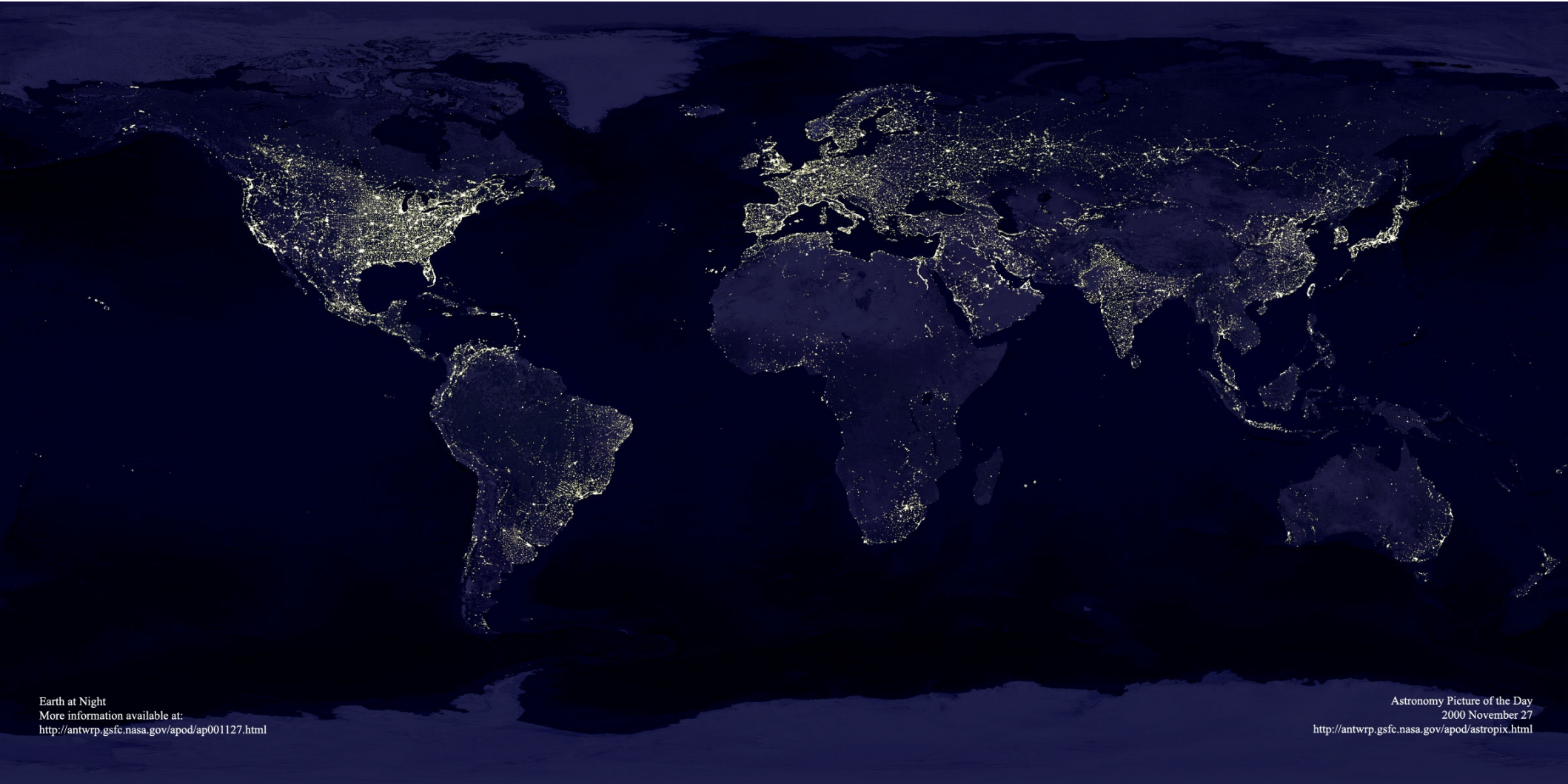
Crimping tutorial
Uploaded on February 19, 2006
CC BY-SA by neajjean
<http://www.flickr.com/photos/25205534@N00/101566675/>

etc.

- Educational Wikis:
 - FLOSS4Edu: <http://wikieducator.org/FLOSS4Edu>
 - FLOSSLit: <http://wikieducator.org/FLOSSLit>
- ICT4D initiatives, etc.
 - OLPC pilots
 - <http://www.translate.org.za> - translation of FLOSS
 - ... in Africa
 - ... and other “developing” countries.

Digital Inclusion

Hope and opportunity
in a changing world

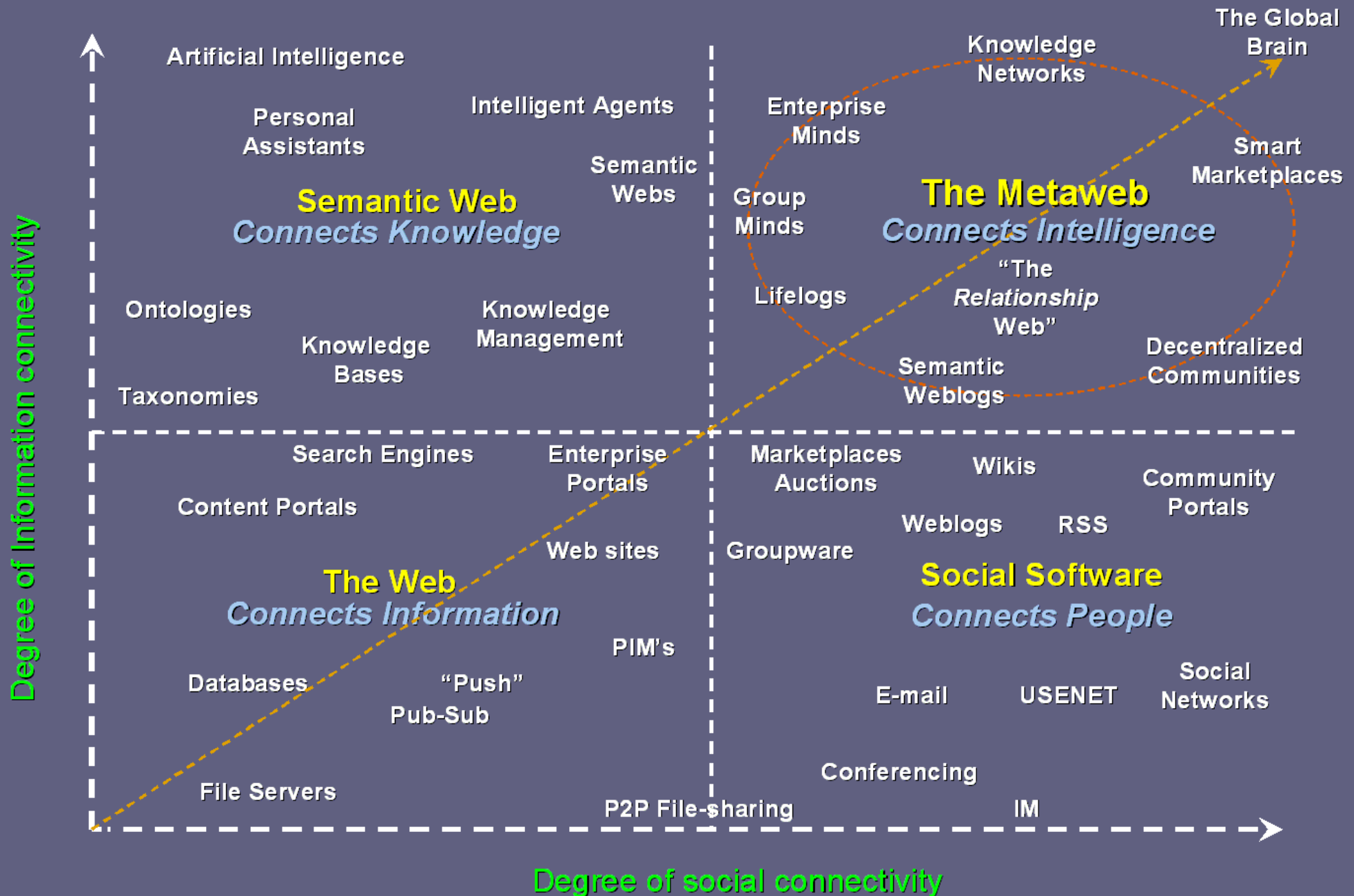


Earth at Night
More information available at:
<http://antwrp.gsfc.nasa.gov/apod/ap001127.html>

Astronomy Picture of the Day
2000 November 27
<http://antwrp.gsfc.nasa.gov/apod/astropix.html>



We can help each other – by sharing knowledge



Educational Technology



Blackboards

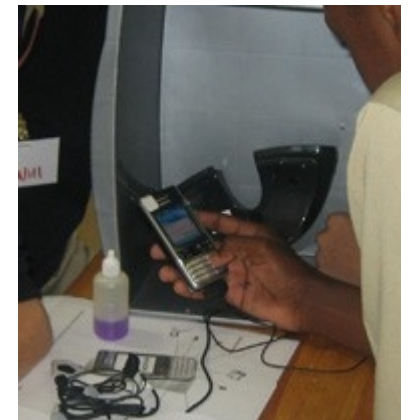


Motion pictures



Television

Personal computers



Mobile phones

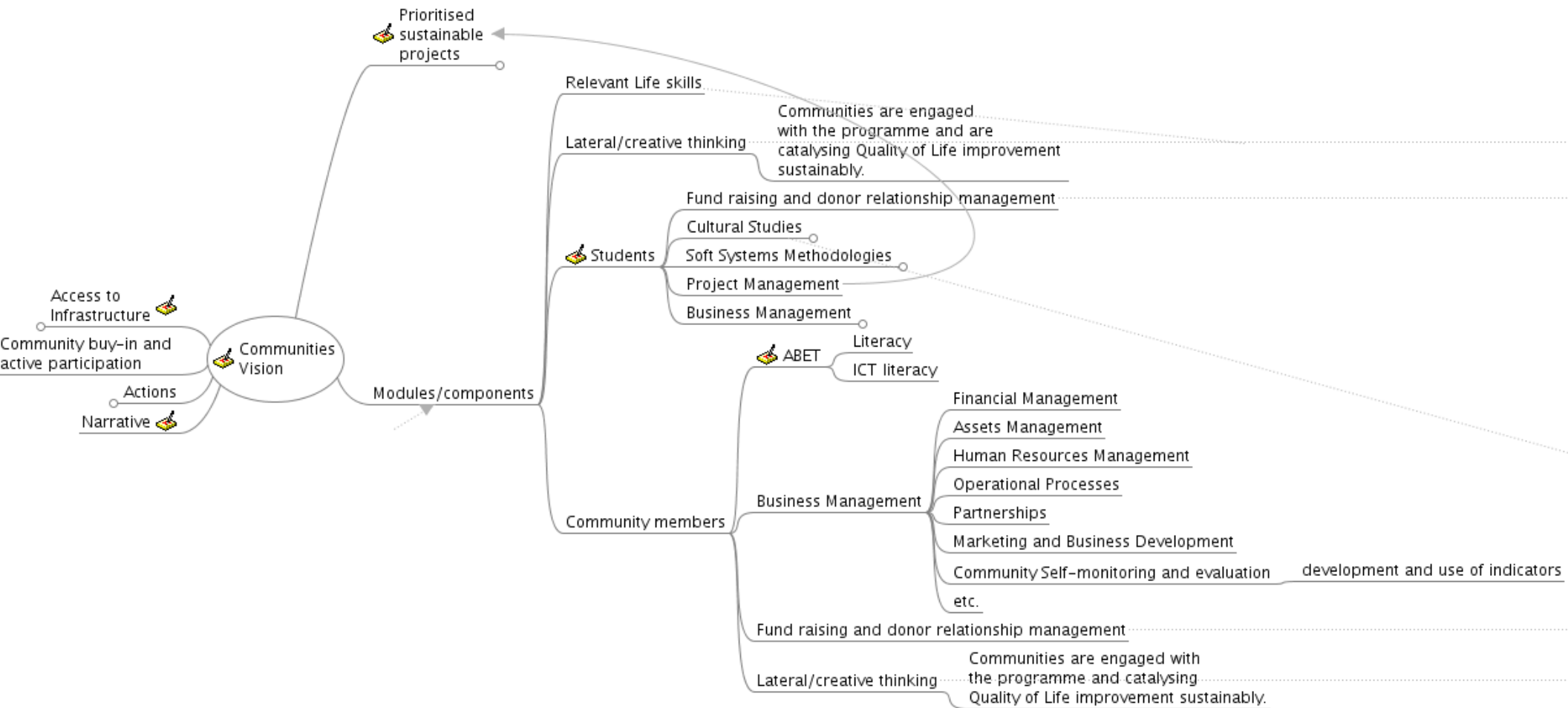


From slides of Wayne Mackintosh (COL)
presented at DEASA 42nd Regional Meeting
Swaziland, September 2007.

OLPC

Reaching out ...

Social Entrepreneurship



Early days:

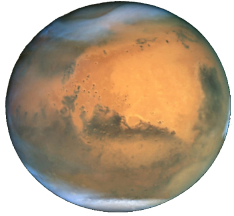
http://en.wikiversity.org/wiki/Portal:Social_Entrepreneurship_Network

and previously though still there:

http://wikieducator.org/Portal:Social_Entrepreneurship

speaking of inclusion ...

What kind of world do we want?



and who decides?



City Lights 3
http://flickr.com/photos/wandering_angel/775133154/
CC BY - The Wandering Angel



Masiphumelele
<http://flickr.com/photos/framesofmind/544388629/>
CC BY Uploaded on June 13, 2007 by Frames-of-Mind



Rain forest
<http://flickr.com/photos/mscheltgen/63623530/>
CC BY - Michael Scheltgen

Conclusions

Localisation is always required.

Quality

can only be defined in local terms

... relevance and appropriateness

Free agency of people is required
for sustainable development

... equality as freedom

critical success factors:

- Keeping the vision in mind
 - Knowledge for all, freedom to learn, towards collective wisdom
- Process
 - Enabling communities to empower themselves with knowledge

[Libre Comunities vision - <http://communities.libre.org>]

Libre Knowledge

<http://communities.libre.org/>

<http://communities.libre.org/philosophy/saylibre>

or for participation:

http://wikieducator.org/Say_Libre

Acknowledgements

- MobileED Slides:
 - MerryI Ford: mford@csir.co.za
- Globe icon via:
<http://antwrrp.gsfc.nasa.gov/apod/ap960819.html>
- Wayne Mackintosh (COL) – as indicated
- The team back home in the Meraka Institute
- The William and Flora Hewlett Foundation

- Mars in opposition.
 - <http://heritage.stsci.edu/2001/24/index.html>
- and many others referred to on the slides, etc.

Thank you

Contact

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ktucker@csir.co.za

<http://aliens.csir.co.za/~ktucker>



<http://www.meraka.org.za>

The End

Extras

More on Libre Knowledge

Libre

- Shifts the focus towards the learners
 - freedom to learn ... social construction
 - away from “IP” - avoid this term ... eg “copyright”
- Highlights a vision to keep us focussed
- Acknowledges the need for collective wisdom
 - for a sustainable world
- Suggests the *Development as Freedom*

perspective - Sen, A. 1999. *Development as Freedom*, Anchor Books, New York.

Development as Freedom

viewing development in terms of expanding
substantive freedoms

directs attention towards the ends that
make development important

rather than merely to some of the means

[means] such as increases in personal income,
social modernisation, technological advance,
industrialisation (and its hidden costs), etc.

Sources of unfreedom

- poverty
- tyranny
- poor economic opportunities
- systematic social deprivation
- neglect of public facilities
- intolerance
- overactivity of repressive states

Sen, A. 1999. Development as Freedom, Anchor Books, New York.

Enablers

- Socio-economic arrangements
 - public facilities
 - education
 - health services
 - social welfare
 - local peace and order

Mutually re-inforcing freedoms

- Freedom to
 - make a living
 - (e.g. by localising and disseminating OER :-)
 - to satisfy hunger - nutrition
 - to obtain or develop remedies for treatable diseases
 - gain access to clothing, shelter
 - water, sanitation,
 - education.
 - make a plan.

Libre Knowledge – is part of the means and the end

if only we knew ...

- what the future will bring ...
- the aspirations of future generations ...

- all we can do is the best we can with the knowledge available to us.

Libre Communities Vision

- Knowledge for all, freedom to learn, towards collective wisdom

we can only be wise together

- Enabling communities to empower themselves with knowledge

Libre Communities Manifesto (values)

- Libre communities value:
 - the members and their diverse perspectives,
 - the libre resources produced and the associated freedoms,
 - the ability of communities to collaborate on managing the quality of shared resources, and
 - the opportunity this freedom offers for networked communities to make a difference collectively, towards a sustainable world.

Knowledge

libre knowledge

So, let's (continue to) do it

- ... starting with stories of hope
and inspiration :-)

and continued contribution to the various
free knowledge initiatives.

More Extras

Look at that!

- FLOSS
 - GNU/Linux, FreeBSD, distrowatch.com, ...
 - Apache – jakarta, xml, server, cocoon, lenya, etc.
 - OpenOffice, Eclipse, Hybernate, Spring, JUnit, ...
 - etc. - <http://sourceforge.net> & <http://freshmeat.net/>
- Free Knowledge, free culture
 - Wikipedia, communities.libre.org, plos.org, doaj.org, cnx.org, ocw.mit.edu, sciencecommons.org, dmoz.org, creativecommons.org, ccmixer.org, <http://www.free-culture.cc/>, ...

Links (definitions)

- <http://opensource.org>
- <http://gnu.org>
- http://en.wikipedia.org/wiki/Free_software
- <http://communities.libre.org/>
- <http://freedomdefined.org/>
- <http://blog.jimmywales.com/index.php/archives/2004/10/21/free-knowledge-requires-free-software-and-free-file-formats/>

Links

(just a few)

- <http://distrowatch.com/>
 - <http://www.ubuntu.com/>
 - <http://www.getopenlab.com/>
- <http://www.apache.org/>
 - <http://jakarta.apache.org/>
 - <http://xml.apache.org/>
- <http://www.wikipedia.org/>
- <http://www.elephantsdream.org/>
- <http://www.ktdms.com/>

FLOSS in Education Links

- <http://moodle.org>
- <http://avoir.uwc.ac.za/>
- <http://atutor.ca/>
- <http://wikieducator.org/> <http://exelearning.org>
- <http://fle3.uiah.fi/>
- <http://www.lemill.net/> and <http://www.lemill.org/>
- <http://oerwiki.iiep-unesco.org/>

FLOSS in Education Links

- <http://cnx.org/>
- <http://rhaptos.org/>
- <http://www.greenstone.org>
- <http://dspace.org/>
- <http://www.schoolforge.org.uk/>
- <http://educommons.org/>
- <http://eduforge.org>
- <http://www.edubuntu.org/>
- <http://www.tuxlabs.org/> and <http://www.schoolnet.na/>
- <http://www.netday.org.za/> and <http://www.getopenlab.com/>

Links

- Governments and FLOSS

- http://europa.eu.int/information_society/activities/opensource/cases/index_en.htm
- <http://www.openia.com/resources/open-source/governments>
- <http://www.oss.gov.za>

- MDGs

- http://en.wikipedia.org/wiki/Millennium_Development_Goals

- Research

- <http://flossworld.org>
- <http://flosspols.org>

Readings

- <http://wikimania2006.wikimedia.org/>
 - Lessig and Benkler u. proceedings (video & audio)
- <http://www.benkler.org/>
 - The Wealth of Networks (PDF available)
- <http://www.free-culture.cc/>
 - Free Culture – various formats and variations
- <http://www.gnu.org/doc/book13.html>
 - Free Software, Free Society: Selected Essays of Richard M. Stallman



- Aigrain, P. 2005. Positive intellectual rights and information exchanges, in Ghosh (2005).
- Atkins, D. E., J. S. Brown and A. L. Hammond, 2007. [A Review of the Open Educational Resources \(OER\) Movement: Achievements, Challenges, and New Opportunities](#), Report to The William and Flora Hewlett Foundation.
- Benkler, Y. 2002. [Coase's Penguin, or, Linux and The Nature of the Firm](#), The Yale Law Journal, 112 (3).
- Benkler, Y. 2006. [The Wealth of Networks](#), Yale University Press, London.
- Gay, J. (editor), 2002. [Free Software Free Society: selected essays of Richard M. Stallman](#). GNU Press. 2002.
- George, S. 2004. Another World Is Possible If ..., Verso, New York.
- Ghosh, R. A. 2005. Cooking-pot markets and Balanced Value Flows. In Ghosh, R. (editor) CODE, MIT Press, 2005.
- Hess, C. and E. Ostrom, 2007. Understanding Knowledge as a Commons: from theory to practice, MIT Press.
- Himanen, P. 2001. The Hacker Ethic, Random House, New York.
- Johnstone, S. 2005. [Open Educational Resources and Open Content, for UNESCO IIEP discussion forum 24 October - 2 December 2005](#).
- Lakhani, K. R. and R. G. Wolf, 2005. Why Hackers Do What They Do: Understanding Motivation and Effort in Free/Open Source Software Projects. In Feller, J., B. Fitzgerald, S. Hissam, and K. R. Lakhani (editors), 2005. Perspectives on Free and Open Source Software, MIT Press.
- Lessig, L. 2000. [Code and Other Laws of Cyberspace](#), Basic Books, New York.
- Lessig, L. 2001. [The Future of Ideas](#), Random House, New York.
- Lessig, L. 2004. [Free Culture](#). Penguin Press, New York.
- Lessig, L. 2005. The People Own Ideas! NetPlus, 12, August/September, Intelligence Publishing, Cape Town.
- Lessig, L. 2006. Read-Write Culture. Presentation at [Wikimania2006](#).
- Lessig, L. 2006. Code 2.0, Basic Books, New York.
- Nov, O. 2007. What motivates Wikipedians, or how to increase user-generated content contribution. Communications of the ACM, (forthcoming). There is a growing body of research on what motivates free knowledge contributors. In this study, the top three motivators identified were fun, ideology and values.
- Sen, A. 1999. Development as Freedom, Anchor Books, New York.
- Sunstein, C. R. 2006. Infotopia: How Many Minds Produce Knowledge, Oxford University Press, USA.
- Wales, J. 2004. [Free Knowledge requires Free Software and Free File Formats](#). Blog posting.
- <http://blog.jimmywales.com/index.php/archives/2004/10/21/free-knowledge-requires-free-software-and-free-file-formats/>
- Wheatley, M. 2005. Preface for The World Café: [Shaping Our Futures Through Conversations That Matter](#), Berrett-Koehler Publishers, San Francisco.

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Editor and webmaster
www.internetworldstats.com
Miniwatts Marketing Group

> De: Kim Tucker <ktucker@csir.co.za>

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Page under discussion - not official yet

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Trust the community to do the honourable thing and acknowledge contributors when credit is due.

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