

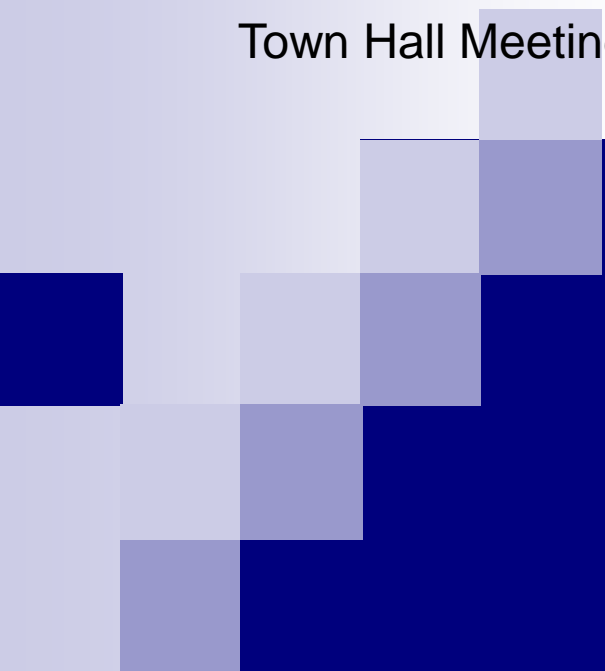
Introduction to open educational resources (Town Hall Meeting; 20 March 2012; WOU, Penang)

URL	http://weko.wou.edu.my/?action=repository_uri&item_id=58
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WOU- OER- CAPACITY BUILDING SERIES:

Town Hall Meeting on 20 March 2012



INTRODUCTION TO OPEN EDUCATIONAL RESOURCES

Tan Sri Prof. Raj Dhanarajan

Prof. Mohandas Menon



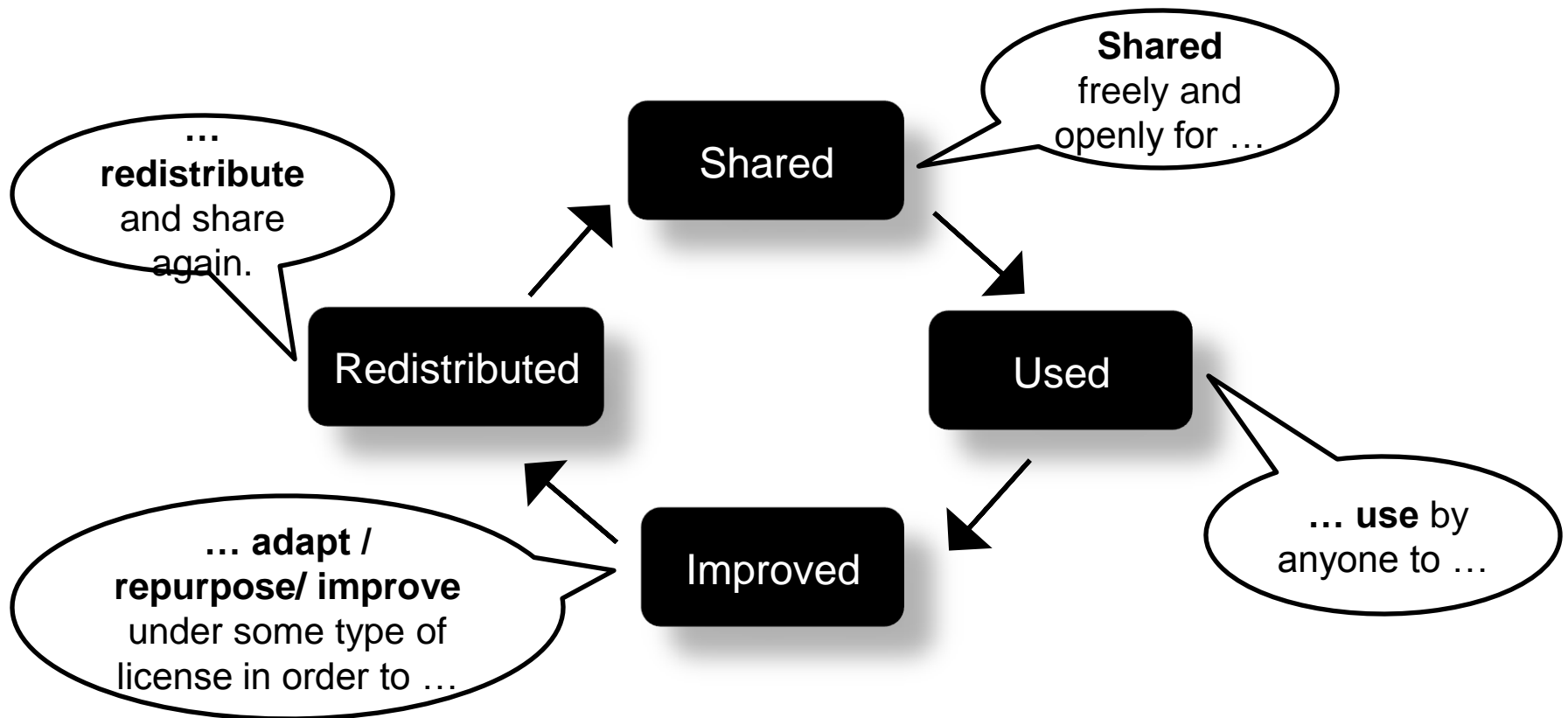
ONLINE TOOLS
SHARE
MATERIALS
OPEN
LEARNING
INFORMATION
CONTRIBUTION
CONTENT
OPEN
CONTENT
OPENNESS
AVAILABLE
LICENCE
COURSES
SOCIAL
WEB
EDUCATIONAL
RESOURCES
KNOWLEDGE
TEACHING
COMMONS
CREATIVE
EDUCATION
ACCESS
STUDENTS

Definition of OER

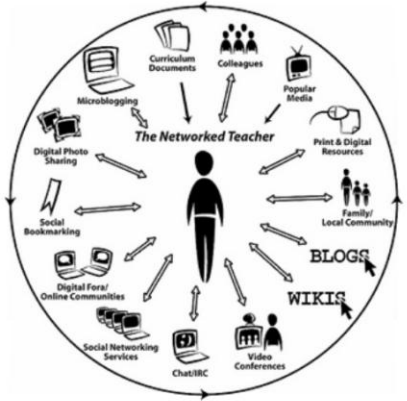
- Open educational resources (OER) are learning materials that are freely available for use, remixing and redistribution with varied levels of licensing
- The open license attached to OER is most often one from the Creative Commons suite. An educational resource that is free and online is **not** OER unless it has one of these open licenses attached.

What is “OER”?

Open Content / Open educational resources (OER) / Open Courseware are educational materials (usually digital) that can be:



Example of Open Content



Original diagram in a PhD thesis ...



**Adapted for
the
Portuguese
context ...**



Translated into Greek

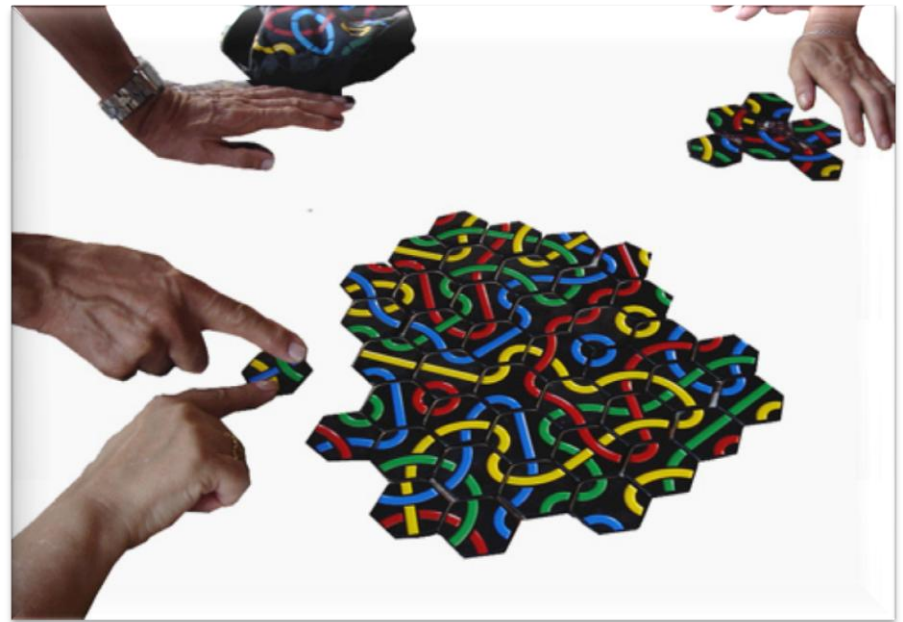
**Adapted
and
translated
to Spanish**



The concept of Open Content

- ... is based on the philosophical view of **knowledge as a collective social product** and the desirability of making it a social property

(Prasad & Ambedkar cited in Downes 2007:1).



<http://www.flickr.com/photos/jordigraells/2098331968/>



OER, OA, OCW and eLearning

- **Distinction 1: Open Access and OER**
- **Distinction 2: Open Courseware and OER**
- **Distinction 3: OER and eLearning**



Distinction 1: Open Access and OER/Open Content

- Open access refers to free, permanent online scholarly articles and journals which may be accessed for free. Open access journals may or may not allow users to redistribute or remix the articles. OER, on the other hand, encourages remixing and re-distribution.

The difference between OA and OER.

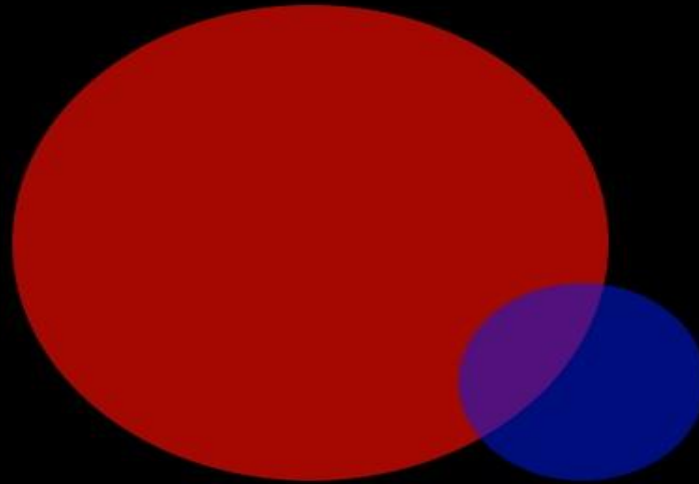
OA: Open Access

OER: Open Educational Resources

- **OA** focuses on sharing content, but no underlying licensing requirement
- **OER** includes any educational content that is shared under an open license
- **OER** and **OA** are friends

OA // OER - buddies

OA
free, permanent,
full-text, online
access to
scientific and
scholarly works



OER
openly licensed
educational content

This slide from the University of Michigan (licensed under [CC BY](#)) illustrates the overlap between OA and OER.

Distinction 2: Open Courseware and OER

- Open Courseware aka OCW is a subset of OER. Open courseware focuses on educational materials associated with a particular course at a given institution. It is a subset of OER. OER includes *all* educational materials - images, campus lectures, textbooks, single articles, and more.

The difference between OCW and OER.

OCW: Open CourseWare

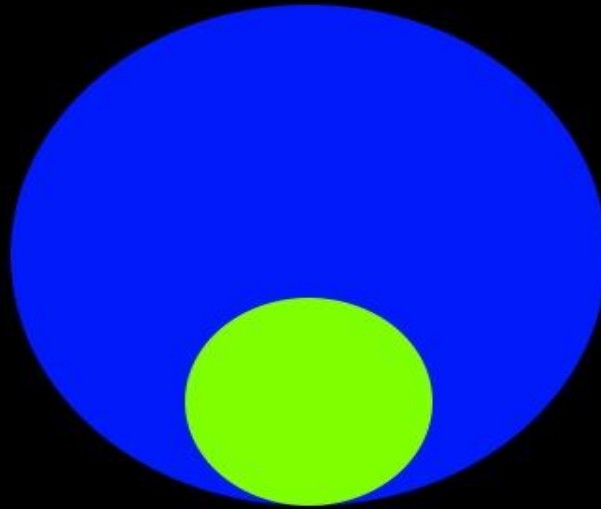
OER: Open Educational Resources

- **OCW** focuses on sharing open content that is developed specifically to instruct a course (locally taught)
- **OER** includes any educational content that is shared under an open license, whether or not it is a part of a course
- **OCW** is a subset of **OER**

OCW // OER - overlap

OER

OCW, single
images, general
campus lectures,
image collections,
singular learning
modules, paper or
article



OCW

syllabi, lecture notes,
presentation slides,
assignments, lecture
videos - all related to
a course

This slide from the University of Michigan (licensed under [CC BY](#)) illustrates that OCW lies within the umbrella category of OER.



Distinction 3: OER and eLearning

- Both eLearning and OER may refer to electronic learning materials. The term eLearning often refers to comprehensive programs or mini-courses complete with learning objectives, detailed textual explanations, animations, video, sound, and quizzes. An eLearning program may or may not be OER depending on how it is licensed.

OER and eLearning: a relationship.

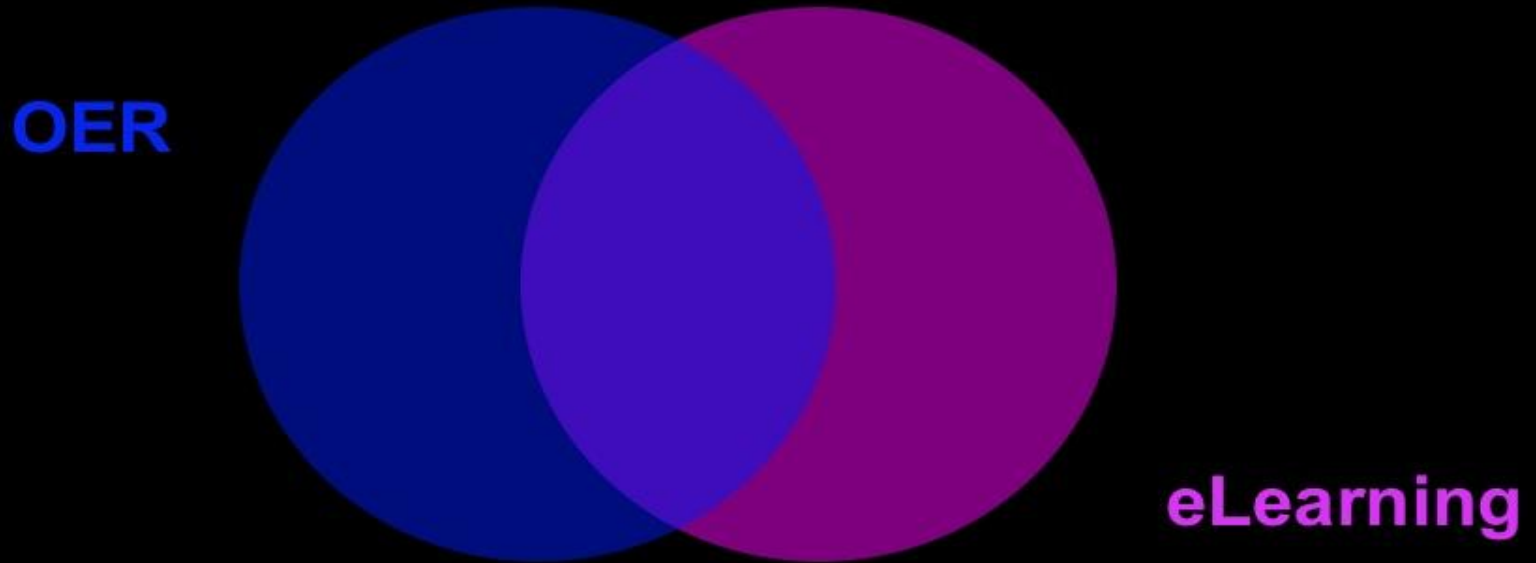
OER

- may exist in electronic or paper form
- may not contain enough context to be “instructional”
- are always licensed for reuse, redistribution, and re-mixing


eLearning resources

- exist only in electronic form
- are generally designed to be instructional
- may not always be licensed for open use

eLearning // OER - intersection



intersection represents
open, electronic,
instructional resources



Open Content or OER part of the “Open Movement”

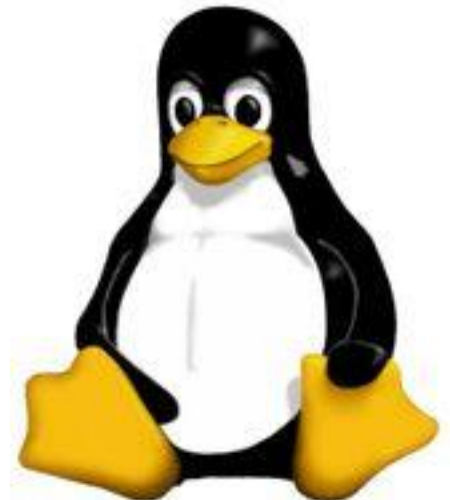


The Open Movement

Open Source Software in the Open Movement



the free and open productivity suite

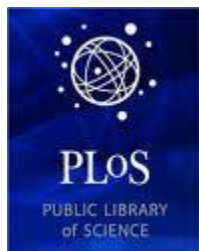




Access in the Open Movement

The SHERPA/RoMEO service provides a listing of publishers' copyright conditions as they relate to authors archiving their work on-line.

<http://www.sherpa.ac.uk/>



The Public Library of Science is a non-profit organization of scientists and physicians committed to making the world's scientific and medical literature a freely available public resource.

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



OpenDOAR

OpenDOAR is an authoritative directory of academic open access repositories.

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

DOAJ DIRECTORY OF OPEN ACCESS JOURNALS

The Directory of Open Access Journals indexes free, full text, quality controlled scientific and scholarly journals.

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



Open J-Gate is an electronic gateway to global journal literature in open access domain.

<http://www.openj-gate.com/>

Open Content or OER part of the “Open Movement”

Open Source Software



Open Access



The Open Movement

Open Licences in the Open Movement

Creative Commons



<http://creativecommons.org/>

GNU General Public License



<http://www.gnu.org/licenses/gpl.html>

Open Content or OER part of the “Open Movement”

Open Source Software



Open Access



The Open Movement

Open Licences



Open Science in the Open Movement



The OpenScience Project is dedicated to writing and releasing free and Open Source scientific software.

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



The Open Dinosaur Project was founded to involve scientists and the public alike in developing a comprehensive database of dinosaur limb bone measurements, to investigate questions of dinosaur function and evolution.

<http://opendino.wordpress.com/>

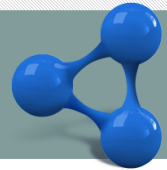


The Open Science Grid aims to promote discovery and collaboration in data-intensive research by providing a computing facility and services that integrate distributed, reliable and shared resources to support computation at all scales.

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

Unlocking innovation

Working with UK Public
Sector information and data



Advised by Sir Tim Berners-Lee and Professor Nigel Shadbolt and others, government are opening up data for reuse. The dat.gov.uk site seeks to give a way into the wealth of UK government data and is under constant development.

<http://data.gov.uk/home>

Open Content or OER part of the “Open Movement”

Open Source Software



Open Access



The Open Movement

Open Science



Open Licences



Open Society in the Open Movement



Our Water Commons seeks to transform societal decision making for water stewardship towards participatory, democratic, community-centered systems that value equity and sustainability as a strategy.

<http://ourwatercommons.org/>



Open Everything is a global conversation about the art, science and spirit of 'open'. It gathers people using openness to create and improve software, education, media, philanthropy, architecture, neighbourhoods, workplaces and the society we live in: everything.

<http://openeverything.wik.is/>



Web of Change connects the foremost thinkers and do-ers in social media, technology, and social change. They are growing a community of leaders working for transformation of organizations and the world.

<http://webofchange.com/>

Open Content or OER: part of the “Open Movement”

Open Source Software

Open Society



Open Access



The Open Movement

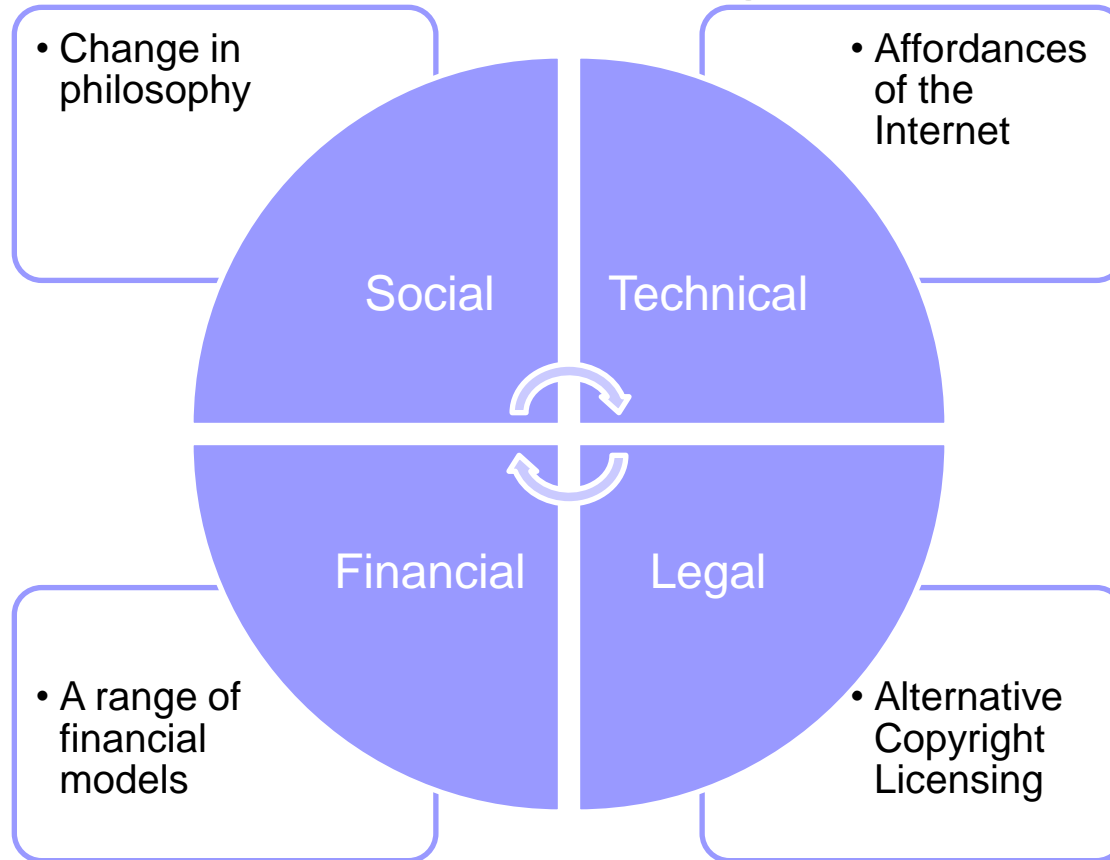
Open Science



Open Licences

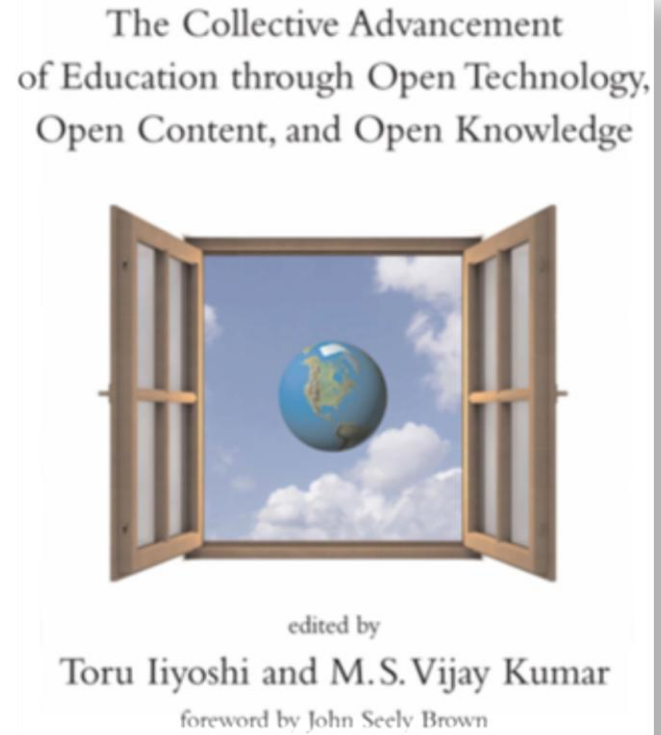


What has enabled OER?

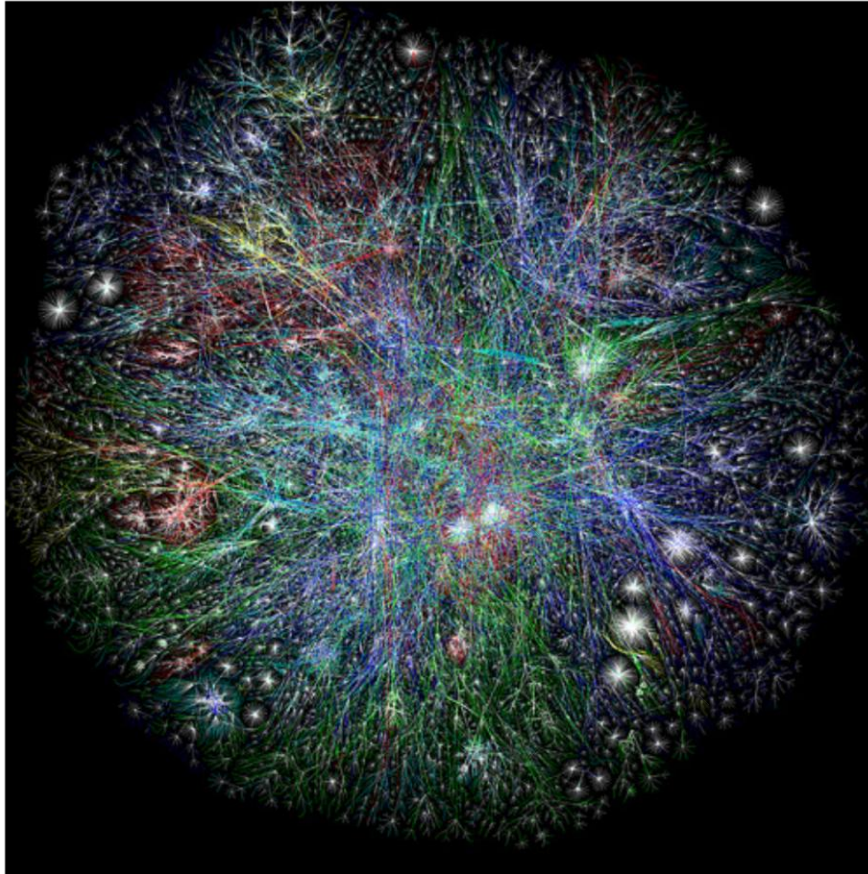


Enabler of open content: Change in philosophy

- The Open Source Software movement led the way in showcasing the value of openness and the ‘architecture of participation’
(O'Reilly 2003)



Enabler of open content: Affordances of the Internet



Openness has been stimulated by the Internet which has provided an opportunity for information and services to be shared, used and re-used in ways not conceivable (or affordable) in a paper-based environment.

Enabler of open content:

Alternative copyright licensing

Previously copyright was binary: All rights retained or public domain

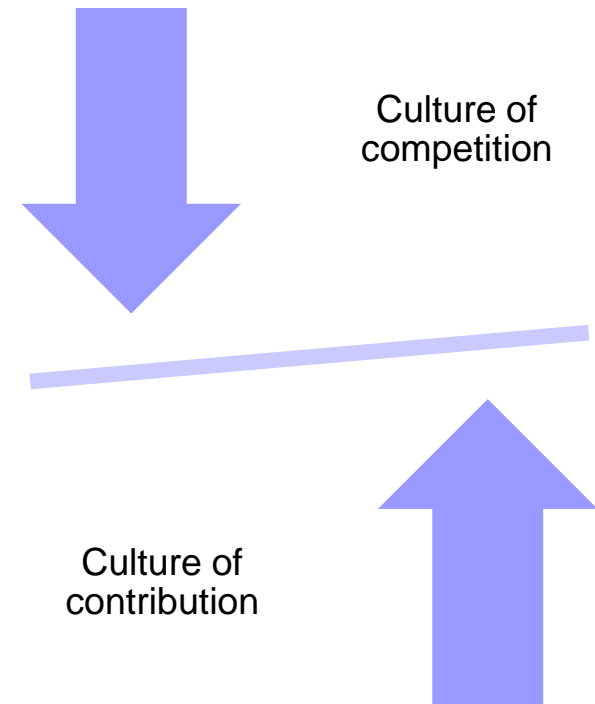
Copyright ©		Public domain
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Now alternative licensing options such as the GNU General Public License and Creative Commons provide a range of options where some rights are reserved

Copyright ©	Some rights reserved	Public domain
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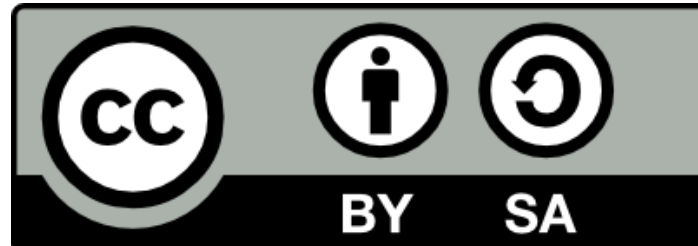
The paradox of sharing

- The OECD reflects that "although **learning resources are often considered as key intellectual property in a competitive** higher education world, more and more institutions and individuals are **sharing digital learning resources** over the Internet openly and without cost, as open educational resources (OER) (2007:9).



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