

What is an Open Educational Resource?

- fees
- subscriptions
- tuitions
- registrations
- obligations
- etc.

at a minimum, no cost to the consumer or user of the resource





Attribution
Share-Alike
Non-commercial
No-modify
Educational

Other?

Freedom to

- access
- copy
- modify
- redistribute

Foote 2005, Doyle 2005

Matter more in conditions of scarcity, not abundance

What resources? Not just courseware... CONTENT **CAPACITY TOOLS**

More than just cost...

we need to consider:

- usability
- durability
- accessibility
- effectiveness

-Alternate objective: free as in freedom

Licensing Initiatives

 The idea of open content licenses is similar to open source - to protect the openness using existing law

 Creative Commons 	
http://creativecommons.org/	
http://blogs.cron.com	

The idea is to create a mid-range of licenses between Copyright and public domain - "some rights reserved"

GNU Free Documentation License

http://www.gnu.org/copyleft/fdl.html

Conditions:

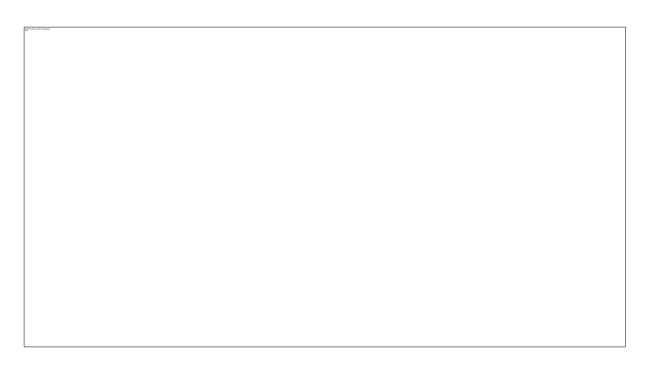
- attributions of authors
- changes must be logged
- share-alike
- unmodified sections
- no proprietary formats or DRM

© Parameter Andre	
•	Publication License encontent.org/openpub/
	ion of modifications vatives clause allowed
	David Wiley http://opencontent.org/blog/



http://wiki.creativecommons.org/Frequently Asked Questions

Stumbling block: license expression



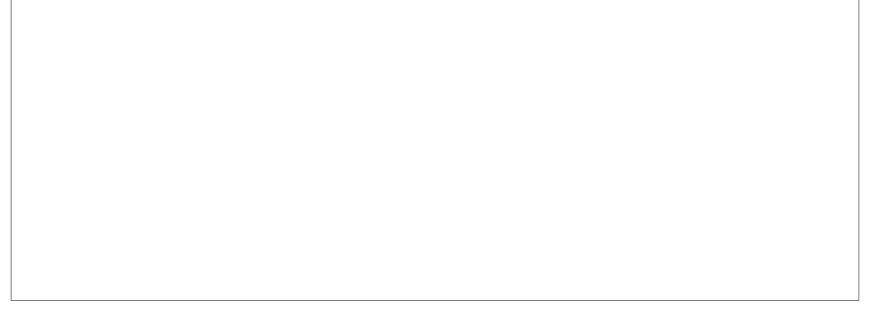
Three ways to express licenses:

- Ccrel http://wiki.creativecommons.org/CcREL
- XrML (AKA MPEG-REL) http://www.xrml.org/
- ODRL http://odrl.net/

Open Courseware Initiatives

MIT OpenCourseWare

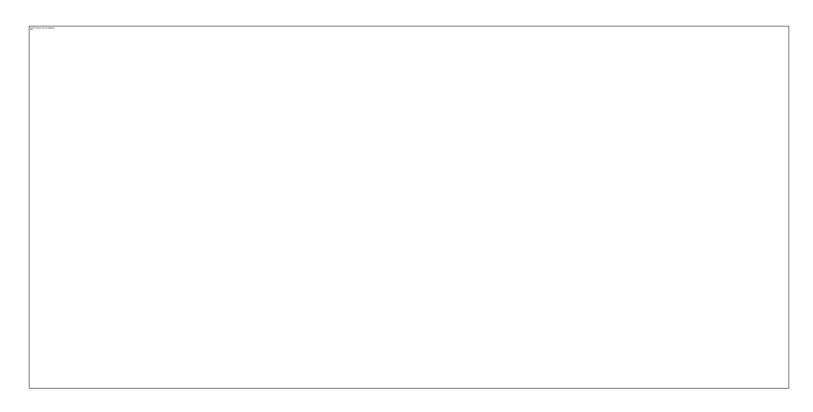
http://ocw.mit.edu



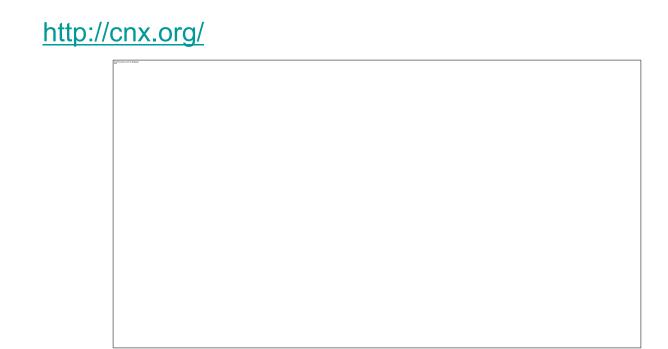
- * OCW is not an MIT education.
- * OCW does not grant degrees or certificates.
- * OCW does not provide access to MIT faculty.
- * Materials may not reflect entire content of the course.

Open Courseware Consortium

http://ocwconsortium.org/



Connexions



Find resources - author resources

Example - Collaborative Statistics http://cnx.org/content/col10522/latest/

CNXML

OER Commons

http://www.oercommons.org



"single point of access through which educators, students, and all learners can search, browse, evaluate, download, and discuss open educational resources (OER)" Includes review, tag features...

Open Content Alliance

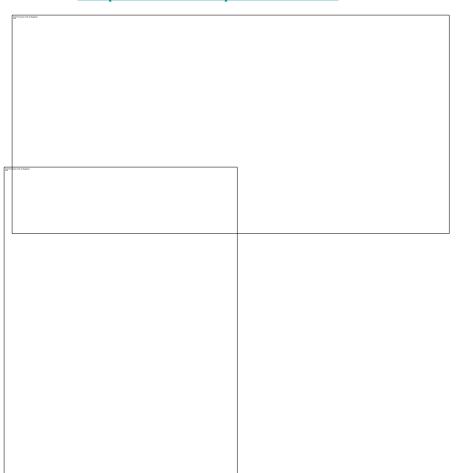
	http://www.opencontentalliance.c	org
The prince and to displayed.		

"Unlike with commercial scan plans, there are no restrictions on public domain books scanned by OCA members. Users are not forced to use proprietary interfaces, and OCA scans are not hidden from rival search engines. Books scanned under the BLC initiative will be hosted by the Internet Archive..." http://www.libraryjournal.com/article/CA6484069.html

Internet Archive: http://www.archive.org
OurMedia: http://www.ourmedia.org/

OpenLearn

http://www.open.ac.uk



Provides complete
Open University online
courses

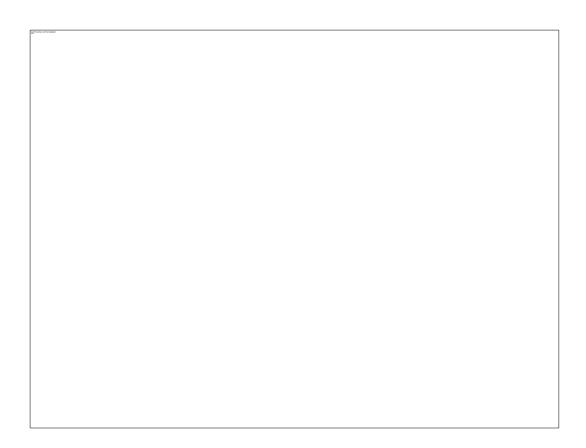
Provides ways for participants to contribute as well as take courses

Intute

http://www.intute.ac.uk/

"Intute is a free online service providing you with a database of hand selected Web resources for education and research."

The Funders



Sustainable OERs...

- Content only the beginning
- Consideration of the community essential
- Entails not just a mechanism but a model of production, use, distribution
- Existing structures (centralized, financially oriented, hierarchical) are often *barriers* to OERs
- We feel this in our communities

Hewlett Foundation

http://www.hewlett.org/Programs/Education/OER/

UNESCO OER projects

	http://oerwiki.iiep-unesco.org	tp://oerwiki.iiep-unesco.org		
The pintow routh the displayed.				

Commonwealth of Learning

	http://www.col.org/colweb/site
The global con	

- learning for development
- teacher training programs
- content initiatives

Funding Models

Numerous funding models...
these vary mostly by source
but models have other implications

- who authors (whose point of view)?
- who controls (funds, resources)
- who distributes?

Endowment Model

- Single large grant
- Managed by fund-holder
- Funding via interest

Eg. Stanford Encyclopedia of Philosophy

\$US 3 to 4 million fund \$190,000 budget

Membership Model

- Organizations join consortium
- Members pay fees
- Projects managed collectively

Eg. Sakai

Eg. MERLOT

Eg. OCW Consortium

Donations Model

- Donations solicited from public
- May involve project membership (by individuals)
- Project manged by a board

Eg. Wikipedia foundation Apache foundation

Conversion Model

"In the Conversion model, you give something away for free and then convert the consumer of the freebie to a paying customer."

Sterne and Herring (2005)

Contributor Pay

- Creators of resources pay for 'publication'
- Resources are managed by the publisher

charges for this process will be met by funding bodies, such as the Wellcome Trust - 1% of their annual spend.

Eg. Public Library of Science
But also
Think about YouTube, Blogger, Flickr (pro)

Sponsorship Model

- The 'public television' model
- Resources are 'sponsored' by donors
- Usually in return for sponsorship spot

Advertising....?

Examples

MIT iCampus Outreach Initiative (Microsoft) (CORE, 2005) Stanford on iTunes project (Apple)

Institutional Model

Examples: OpenCourseWare
Open Knowledge Initiative
OPLC

All from MIT

- Sponsoring organization pays costs
- Considered part of its 'mandate'

It usually manages it, too... and there may be side-benefits

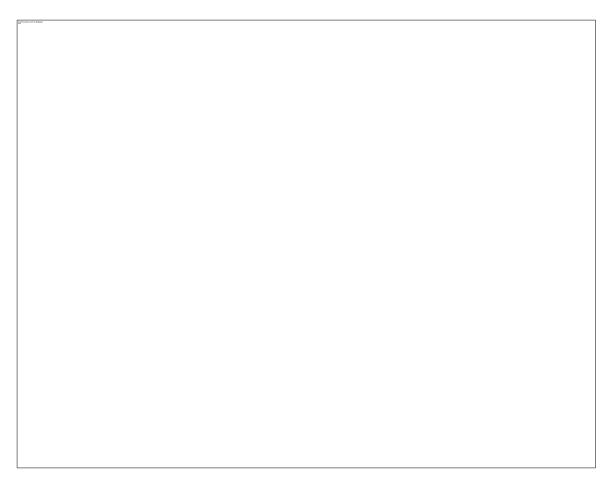
Government Funding Model

- Government funds
- Usually managed by arms-length board (but not always)
- Intended to serve government objectives...

Examples

OLPC (again)
Canada SchoolNet
Universities, colleges, schools

OERs 'In The Wild'

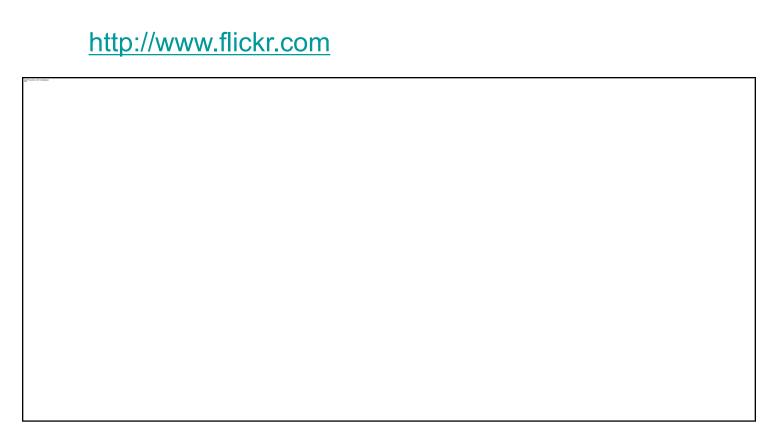


http://www.alpenglowart.com/artist.asp

YouTube



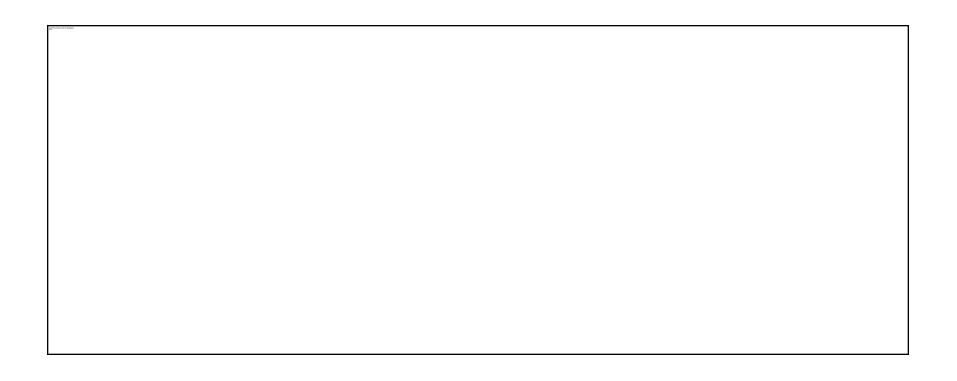
Flickr



http://www.flickr.com/search/?q=oer&l=cc&ss=0&ct=0&w=all

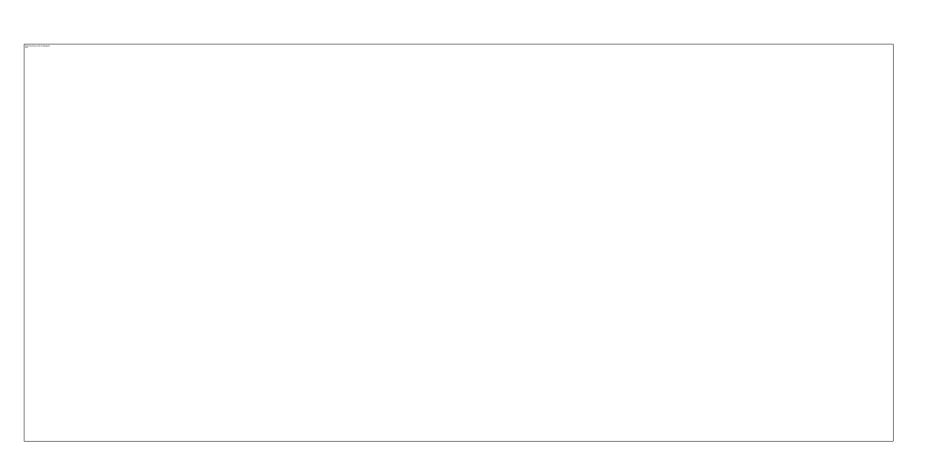
Google

http://www.google.com/advanced_search?hl=en

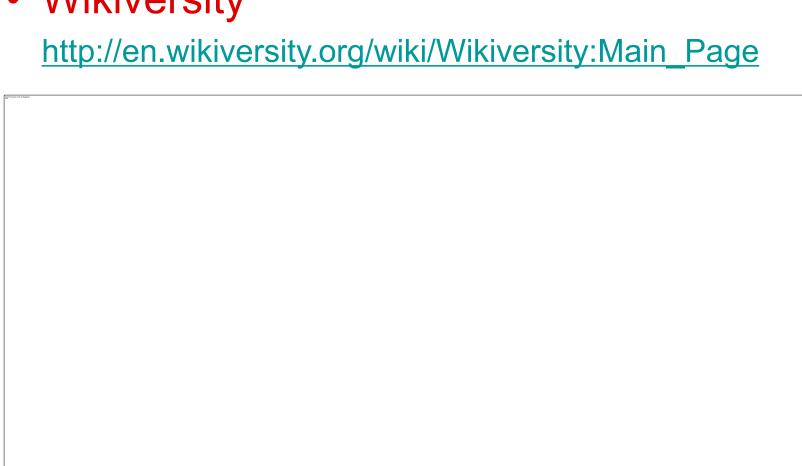


Wikipedia

http://en.wikipedia.org



Wikiversity



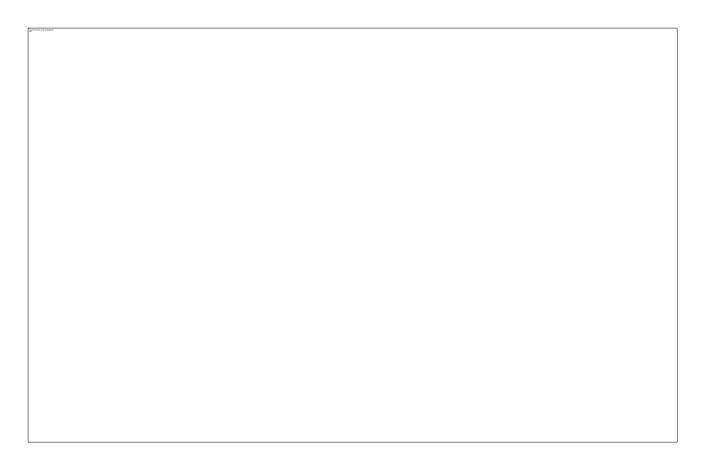
• Curriki

http://www.curriki.org

WikiEducator

http://www.wikieducator.org

Dimensions of Openness



Technical

- Driven by financial, other considerations, eg. Learning objects
- 'Free Use' vs 'Adapt and Localize'
- Access and usability eg., browse, search, data-mining
- Impact on 'open' eg., federations

Content Models

- 'Sustainable' often means 'localizable' and tantemount to 'reusable'
- Hence, requires integration which in turn requires semantic similarity
- Questions of licensing, etc.

Provider / Consumer

- Content may reflect values of the provider – cultural imperialism
- Shift in emphasis toward collaborative development
- Sharing in all directions, north and south
- Hence, need to think of OERs with respect to the community that uses them

Staffing

- Traditional: hiring of professional staff to design and produce OERs
- Question of cost, use of volunteers
- This raises the question of motives (and again changes 'sustainable')
- Non-financial incentives

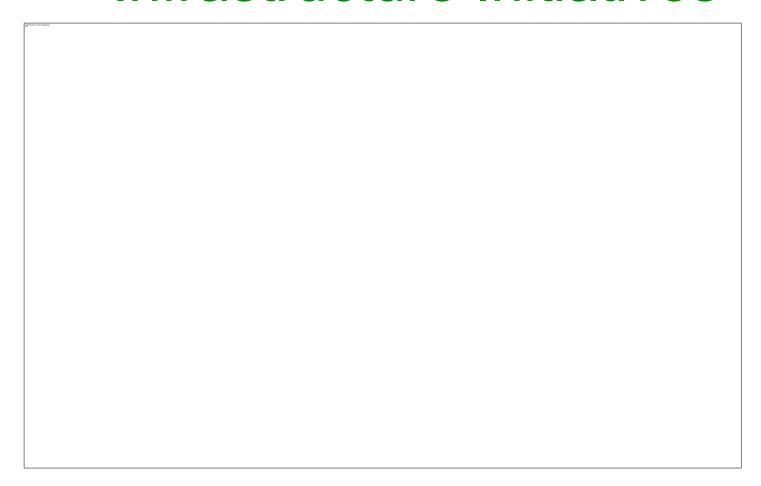
Volunteer Organization

- Community model emphasis on individual members (eg. OSS)
- Emergent model emphasis on process (eg., Slashdot, eBay)
- Producer-consumer model vs coproducer moder – Web 2.0

Workflow

- Traditional design, use, evaluation
- Quality: peer review? MERLOT
- Rethink the idea of 'producing'
- Decentralize, disaggregate
- The 'use' of a resource constitutes the 'production' of a new resource

Infrastructure Initiatives





Open Archives Initiative

http://www.openarchives.org/

"develops and promotes interoperability standards that aim to facilitate the efficient dissemination of content."

OAISter - http://www.oaister.org/

DSpace - http://www.dspace.org/

PubMed - http://www.pubmedcentral.nih.gov/about/oai.html

SWORD

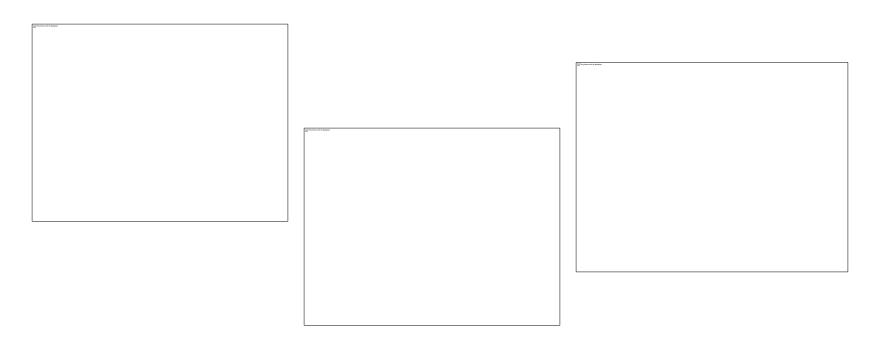
http://www.jisc.ac.uk/whatwedo/programmes/reppres/tools/sword

(Simple Web Service Offering Repository Deposit)



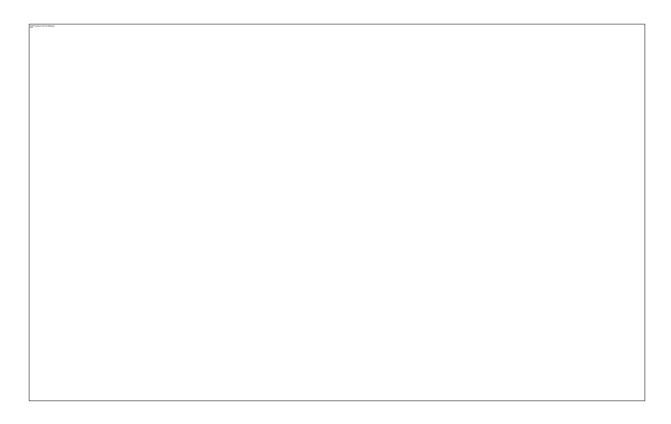
"The project aims to improve the efficiency and quality of repository deposit and to diversity and expedite the options for timely population of repositories with content whilst promoting a common deposit interface and supporting the Information Environment principles of interoperability."

Public Knowledge Project

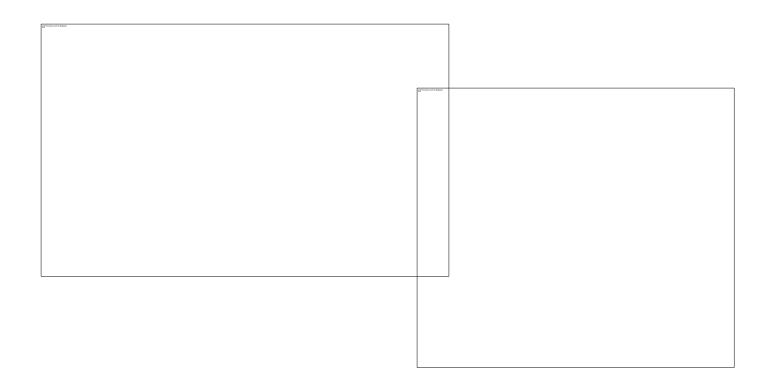


- http://pkp.sfu.ca/
- University of British Columbia and Simon Fraser University

Open Journal System



http://pkp.sfu.ca/?q=ojs



http://www.hhrjournal.org/index.php/hhr

http://www.medisur.sld.cu/index.php/

Open Conference System

http://pkp.sfu.ca/ocs

http://imrf.mcmaster.ca/IMRF/ocs/index.php/meetings/2008/

Open Archives Harvester

http://pkp.sfu.ca/?q=harvester



http://carl-abrc-oai.lib.sfu.ca/

Resources

OER - The Way Forward

http://oerwiki.iiep-unesco.org/index.php?title=OER:_the_Way_Forward

UNESCO OER Toolkit

http://oerwiki.iiep-unesco.org/index.php?title=UNESCO_OER_Toolkit

Hewlett OER Report

http://www.hewlett.org/Programs/Education/OER/OpenContent/Hewlett+OER+Report.htm

- JIME Researching Open Content http://jime.open.ac.uk/2008/
- Open Educational Resources at OECD

http://oer.wsis-edu.org/oecd-oer.html

OER handbook for Educators

Barriers...

- Who gets funded (indiv. vs inst.)
- Scale of funding (large vs. small)
- Type of project (producer, centralized)
- Overhead (eg., licensing)
- Justification, quality (= overhead)
- Narrow view of 'sustainable' (=