

Open Technology

The Third Pillar of Open Education

Clint Lalonde, BCcampus

March 30, 2017 KPU





Join the world wide movement

March 27 - 31

For more info go to
www.openeducationweek.org



Unless otherwise noted, this presentation is licensed under a [Creative Commons Attribution License](#).

Feel free to use, modify or distribute any or all of this presentation with attribution to Clint Lalonde.

Agenda

What are open technologies?

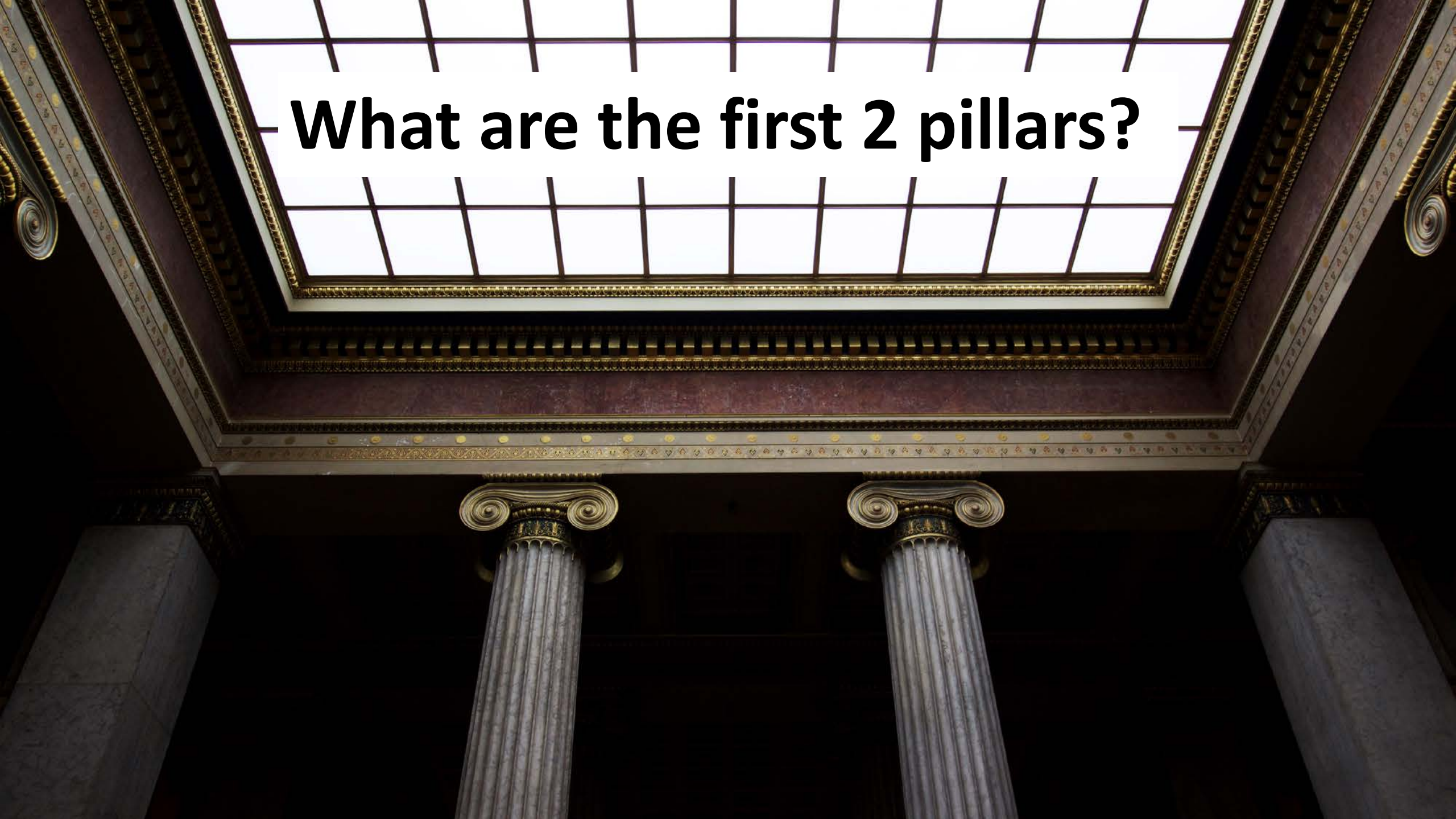
Why are they important?

The BC Open EdTech Collaborative

Experiments and Initiatives



What are the first 2 pillars?



Pillar 1: Open Educational Resources

“Open Educational Resources (OERs) are any type of educational materials that are in the public domain or introduced with an open license. The nature of these open materials means that anyone can legally and freely copy, use, adapt and re-share them.”

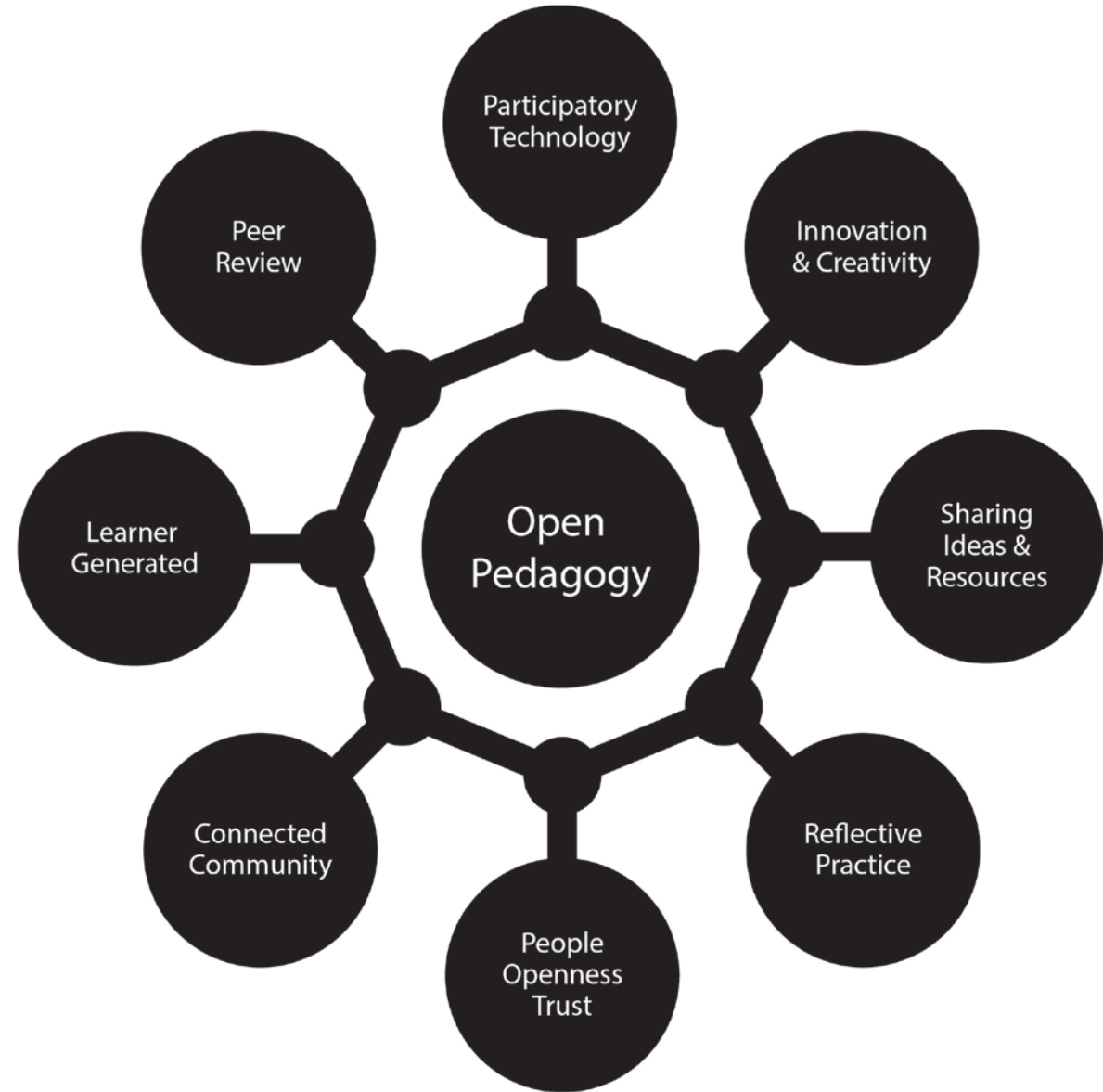
UNESCO



Pillar 2: Open Pedagogy

Open pedagogy is a set of teaching and learning practices only possible in the context of the free access and 5R (reuse, revise, remix, redistribute, retain) permissions characteristic of open educational resources.

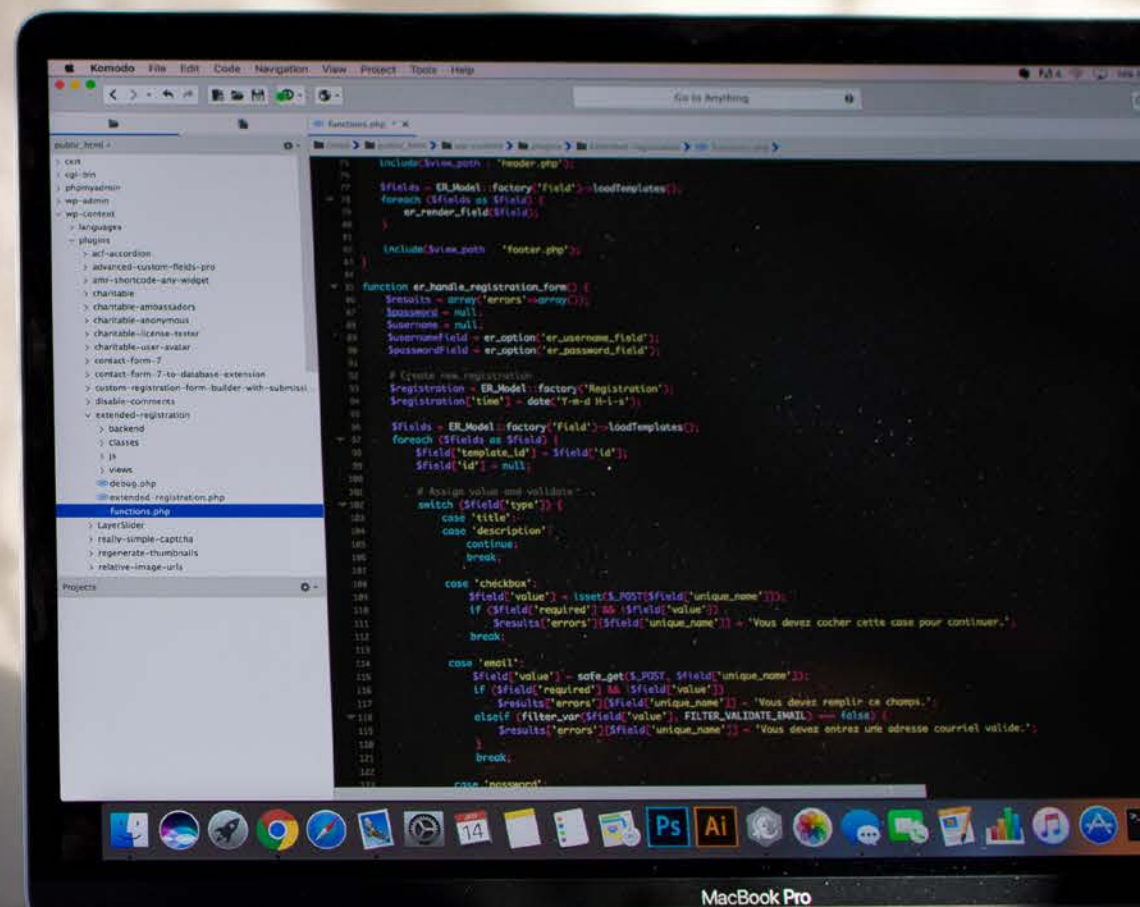
David Wiley (2013)



Pillar 3: Open technology

“Open education is not limited to just open educational resources. It also draws upon **open technologies** that facilitate collaborative, flexible learning and the open sharing of teaching practices that empower educators to benefit from the best ideas of their colleagues.”

Cape Town Open Education Declaration, 2007





Spark

with Nora Young

EPISODES

FEATURES

ABOUT

CONTACT



Sunday October 25, 2015

Why this farmer built a cool robot tractor



Manitoba farmer Matt Reimer. (Matt Reimer)

<http://www.cbc.ca/radio/spark/297-the-future-of-food-farming-and-more-1.3275728/why-this-farmer-built-a-cool-robot-tractor-1.3284431>

General Motors, John Deere want to make tinkering, self-repair illegal

By Joel Hruska on April 22, 2015 at 10:41 am | 160 Comments

3.5K
shares

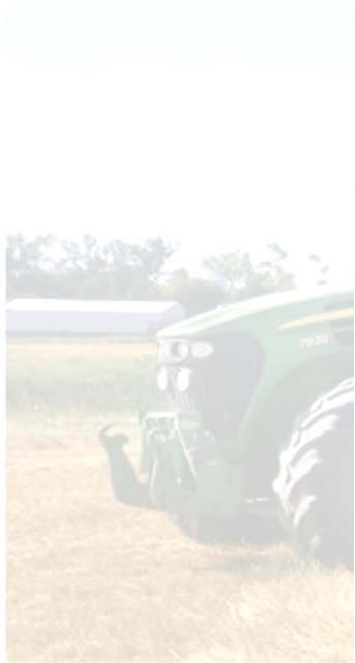


The ability to modify a vehicle you've purchased is, in many ways, a fundamental part of America's car culture — and, to some extent, embedded in our culture, period. From the *Fast & Furious* saga to Han Solo's "She may not look like much, but she's got it where it counts, kid. I've made a lot of special modifications," we value the right to

tinker. More practically, that right can be critically important when it comes to fixing heavy farm equipment. That's why it's significant that companies like John Deere and General Motors have joined forces to argue that no, you don't actually *own* the equipment you purchase at all.

Sunday October 25, 2015

Why this farmer



Manitoba farmer Matt Reimer (Matt Reimer)

<http://www.cbc.ca/radio/spark/297-the-future-of-food-farming-and-more-1.3275728/why-this-farmer-built-a-cool-robot-tractor-1.3284431>

<https://www.extremetech.com/extreme/203913-general-motors-john-deere-want-to-keep-tinkering-self-repair-illegal>



Sunday October 25, 2015

Why this farmer



Manitoba farmer Matt Reimer. (Matt Reimer)

<http://www.cbc.ca/radio/spark/297-the-future-of-food-farming-and-more-1.3275728/why-this-farmer-built-a-cool-robot-tractor-1.3284431>

HOME COMPUTING

General Motors make tinkering

By Joel Hruska on April 22, 2015

3.5K shares



tinker. More practically, that rig farm equipment. That's why it Motors have joined forces to a purchase at all.

<https://www.extremetech.com/extreme/203913-general-motors-john-deere-want-to-keep-tinkering-self-repair-illegal>

Farmers are pirating John Deere tractor software to stick it to the man

By Ryan Whitwam on March 22, 2017 at 10:36 am 110 Comments

2.2K shares



<https://www.extremetech.com/computing/246314-farmers-pirating-john-deere-tractor-software-stick-man>

GET THIS TORRENT ANONYMOUS DOWNLOAD

(Problems with magnets links are fixed by upgrading your [torrent client!](#))

Penn State, you are gouging your students. We'd be willing to pay a fair price for this book, but that would be far south of the ~\$200 you charge at the bookstore. Fix this, and lower the tuition a bit, and maybe students like me won't spend several days scanning your shit and putting it online. Also clean the bathrooms on the first floor of Willard, they're so gross.

This textbook includes several chapters from another book by Pearson called Managerial Accounting. These are all the pages included in the three-hole punch version, so if it appears that a few chapters are skipped, well, it was published that way.

Table of Contents.pdf

Financial Accounting 02.pdf
Financial Accounting 03.pdf
Financial Accounting 04.pdf
Financial Accounting 05.pdf
Financial Accounting 08.pdf
Financial Accounting 09.pdf
Financial Accounting 10.pdf
Financial Accounting Appendix A.pdf
Financial Accounting Appendix B.pdf
Financial Accounting Glossary.pdf
Financial Accounting Index.pdf
Managerial Accounting 02.pdf
Managerial Accounting 06.pdf
Managerial Accounting 07.pdf

What are

OPEN

technologies?



Linux



MySQL®



WordPress



Drupal™

moodle

Storage and access must be in Canada

30.1 A public body must ensure that personal information in its custody or under its control is stored only in Canada and accessed only in Canada, unless one of the following applies:

- (a) if the individual the information is about has identified the information and has consented, in the prescribed manner, to it being stored in or accessed from, as applicable, another jurisdiction;
- (b) if it is stored in or accessed from another jurisdiction for the purpose of disclosure allowed under this Act;
- (c) if it was disclosed under section 33.1 (1) (i.1).

Obligation to report foreign demand for disclosure

30.2 (1) In this section:

REPORT | FIFTH SESSION | FORTIETH PARLIAMENT

Report of the Special Committee to Review the Freedom of Information and Protection of Privacy Act



“The amount of data being collected is staggering. Ed tech companies of all sizes, from basement startups to global conglomerates, have jumped into the game. The most adept are scooping up as many as 10 million unique data points on each child, each day. That’s orders of magnitude more data than Netflix or Facebook or even Google collect on their users.”

The big biz of spying on little kids, Politico, March 15, 2014

Tools for Tailored Learning May Expose Students' Personal Details

By NATASHA SINGER AUG. 30, 2015



RELATED COVERAGE



ECONOMIC VIEW
When Guarding Student Data Endangers
Valuable Research JUNE 13, 2015



Silicon Valley Turns Its Eye to Education
JAN. 11, 2015



Some Schools Embrace Demands for
Education Data MAY 11, 2015

“The elephant in the room is the efficacy of wholesale student data collection,” said Khaliah Barnes of the Electronic Privacy Information Center, a research group in Washington.

Tools for Tailored Learning May Expose Students' Personal Details

By NATASHA SINGER AUG. 30, 2015



RELATED COVERAGE



ECONOMIC VIEW
When Guarding Student Data Endangers
Valuable Research JUNE 13, 2015



Silicon Valley Turns Its Eye to Education
JAN. 11, 2015



Some Schools Embrace Demands for
Education Data MAY 11, 2015

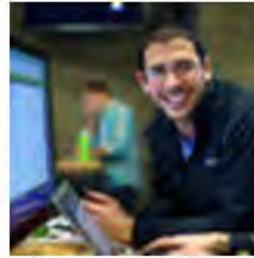
“The elephant in the room is the efficacy of wholesale student data collection,” said Khaliah Barnes of the Electronic Privacy Information Center, a research group in Washington.

Tools for Tailored Learning May Expose Students' Personal Details

By NATASHA SINGER AUG. 30, 2015



RELATED COVERAGE



Silicon Valley Turns Its Eye to Education

JAN. 11, 2015

“The elephant in the room is the efficacy of wholesale student data collection,” said Khaliah Barnes of the Electronic Privacy Information Center, a research group in Washington.



Student Data is the New Oil: MOOCs, Metaphor, and Money



Audrey Watters on 17 Oct 2013

“Much of this data exists in software silos that are disconnected. But more and more, companies are starting to push for the aggregation of student data into analytics tools that can be sold in turn back to the school. Learning management system log-ins and duration of their LMS sessions. Blog and forum comment history. Internet usage while on campus. Emails sent and received on via university email accounts. The pages students read in digital textbooks. The passages they highlight.”

Google Acknowledges Data Mining Student Users Outside Apps for Education


By Benjamin Herold on February 17, 2016 2:57 PM

 Tweet  Share 431



Online-services giant Google has acknowledged that it collects and data-mines for some commercial purposes a wide range of personal information on student users who log in through its popular Apps for Education service, then venture to the company's search engine and other products.

THE CHRONICLE OF HIGHER EDUCATION

 SECTIONS FEATURED: [Where Your Freshman Class Comes From](#) [How to Be a Dean](#) [Get the 2017 Tre](#)

TECHNOLOGY



As Big-Data Companies Come to Teaching, a Pioneer Issues a Warning



Noah Berger for The Chronicle

Candace Thille, an education researcher at Stanford U.'s Lytics Lab, says colleges should be careful about letting companies shape the use of big data for learning.

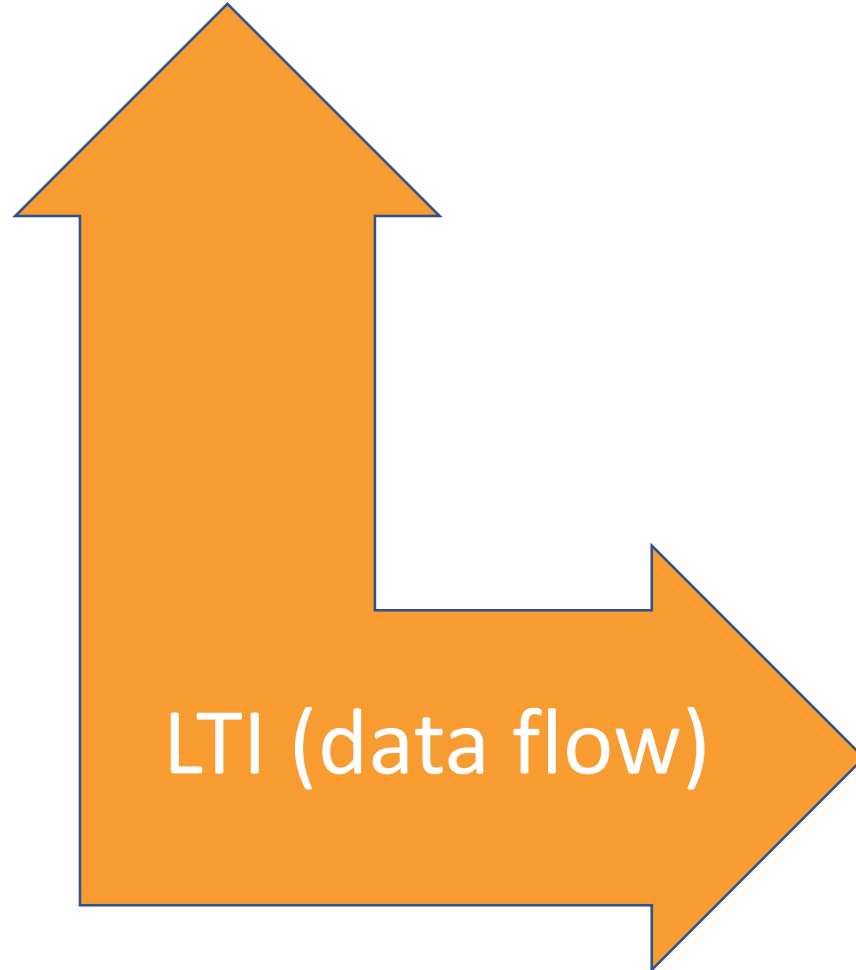
By Goldie Blumenstyk | FEBRUARY 23, 2016  PREMIUM CONTENT FOR SUBSCRIBERS.

[SUBSCRIBE TODAY](#)

http://blogs.edweek.org/edweek/DigitalEducation/2016/02/google_acknowledges_data_mining_GAFE_users.html

<http://www.chronicle.com/article/As-Big-Data-Companies-Come-to/235400>





LTI (data flow)

An open LTI™ app collection. Browse apps below or [learn more](#)

All Categories ▾

All Grade Levels ▾

All Platforms ▾

All Access ▾

filter by name

Reset

Showing 254 Apps

Alphabetic

Most Recent



Learning.com's Library App for Canvas

Learning.com's Library App allows you to seamlessly integrate Learning.com licensed curriculum and custom created curriculum in your Canvas course.



GoReact

GoReact makes it ridiculously easy to grade and critique student recordings. Students upload or record videos, then you provide automatically time-coded feedback (text, video or audio).



CloudTime

CloudTime lets you easily set up and distribute Amazon EC2 virtual machines. It ...



Quizlet

Search for and embed publicly available flashcards and question sets from Quizlet. Questions can be embedded directly into content as flash cards, review, or as a study game.



Foliotek

Foliotek is an eportfolio system. Foliotek's variety of tools offers users the ability to perform competency based assessments, build incremental eportfolios, and showcase key projects to potential



It's More Than A Textbook.com

This site helps professor authors to create inexpensive interactive online textb...



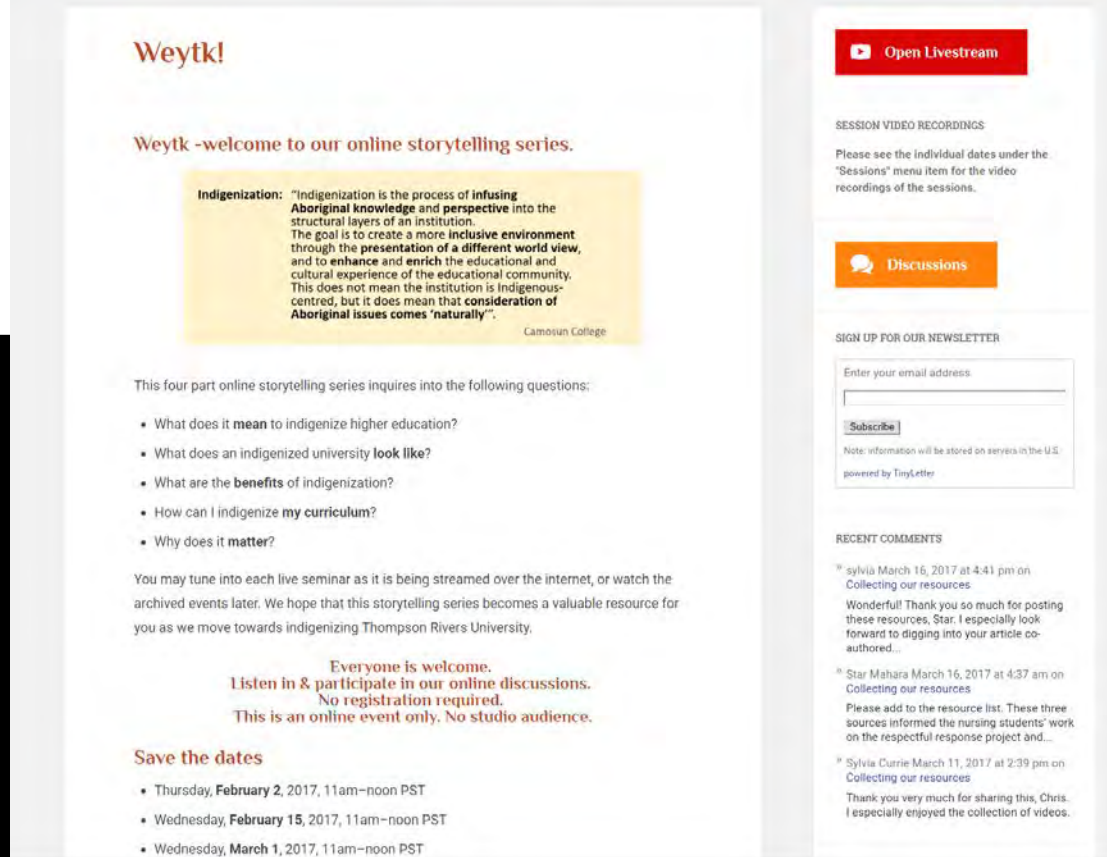
CourseArc

CourseArc is a course authoring tool that allows your organization to create consistent, beautiful, interactive, and mobile-friendly content. Collaboration tools are built in to allow you to work on content



WIRIS EDITOR chemistry

Chemistry editor for your Canvas site. TAGS: math handwriting stem chemistry



LRNT 528 [Home](#) [Schedule](#) [Readings](#) [Assessment](#) [Toolkit](#)

[illegible]

Welcome to Royal Roads University!

Honorary Chief
 Andy Thomas
 Xwaxwam
 (Easmielt)
 First Nation

Elected Chief
 Ron Sam
 Lkwungen (Longhast)
 First Nation

Hay'xaw'ga Si'em!

WELCOME!

Life as a Graduate Student

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque condimentum tortor et odio tempor dictum. Nunc eros quam, tincidunt in dignissim vitae, consequat in ex. Curabitur quam lacus, rutrum ac lacus a, consectetur laoreet purus. Praesent tristique dui vitae urna tincidunt aliquet. Curabitur aliquam neque purus, sed dapibus purus molestie eu. Quisque ac leo a lectus ullamcorper venenatis. Curabitur sit amet ipsum commodo, molestie quam in, dictum justo. Donec justo turpis, rutrum vitae eros et, varius dignissim justo. Nulla sollicitudin mi non ipsum sagittis, sed imperdiet augue venenatis. Etiam maximus sit amet magna vitae lobortis. Suspendisse ut lectus eget arcu finibus pulvinar. In mattis arcu non sapien laoreet ultrices. Vivamus eleifend congue enim in mattis. Proin dictum, dui in porta finibus, libero justo luctus leo, nec rutrum risus massa a lorem.

Maecenas gravida justo et lacus sollicitudin, at tincidunt magna consequat. Duis malesuada facilis diam, at hendrerit est. Nunc diam ante, tempus egestas nunc in, commodo pellentesque nunc. Donec eget tincidunt nunc. Curabitur aliquet metus erat, sit amet sollicitudin urna tristique ac. Cras posuere leo eu erat pulvinar, eu congue ante mollis. Morbi at aliquet lacus.

Nullam maximus sem non rhoncus pretium. Donec sit amet lorem blandit, porttitor lorem id, vulputate est. Donec finibus libero sit amet massa egestas, commodo rutrum libero vulputate. Praesent tempor metus sit amet augue ultricies posuere. Quisque sit amet venenatis magna. Aenean eleifend eleifend sollicitudin. Suspendisse aliquam tortor arcu. Integer sit amet interdum nunc. Sed dapibus accumsan purus. Morbi ece dolor, varius vel nibh ac, ornare aenean lorum. Sed amet venenatis nibh. Vivamus ac feugiat imper. Vivamus vulputate id, pellentesque leo.

Course Opening – 1st Week
Sticky Post October 28,
2016

Receive news and announcements from your instructor.
Your email:

Subscribe Unsubscribe

#rrumalat

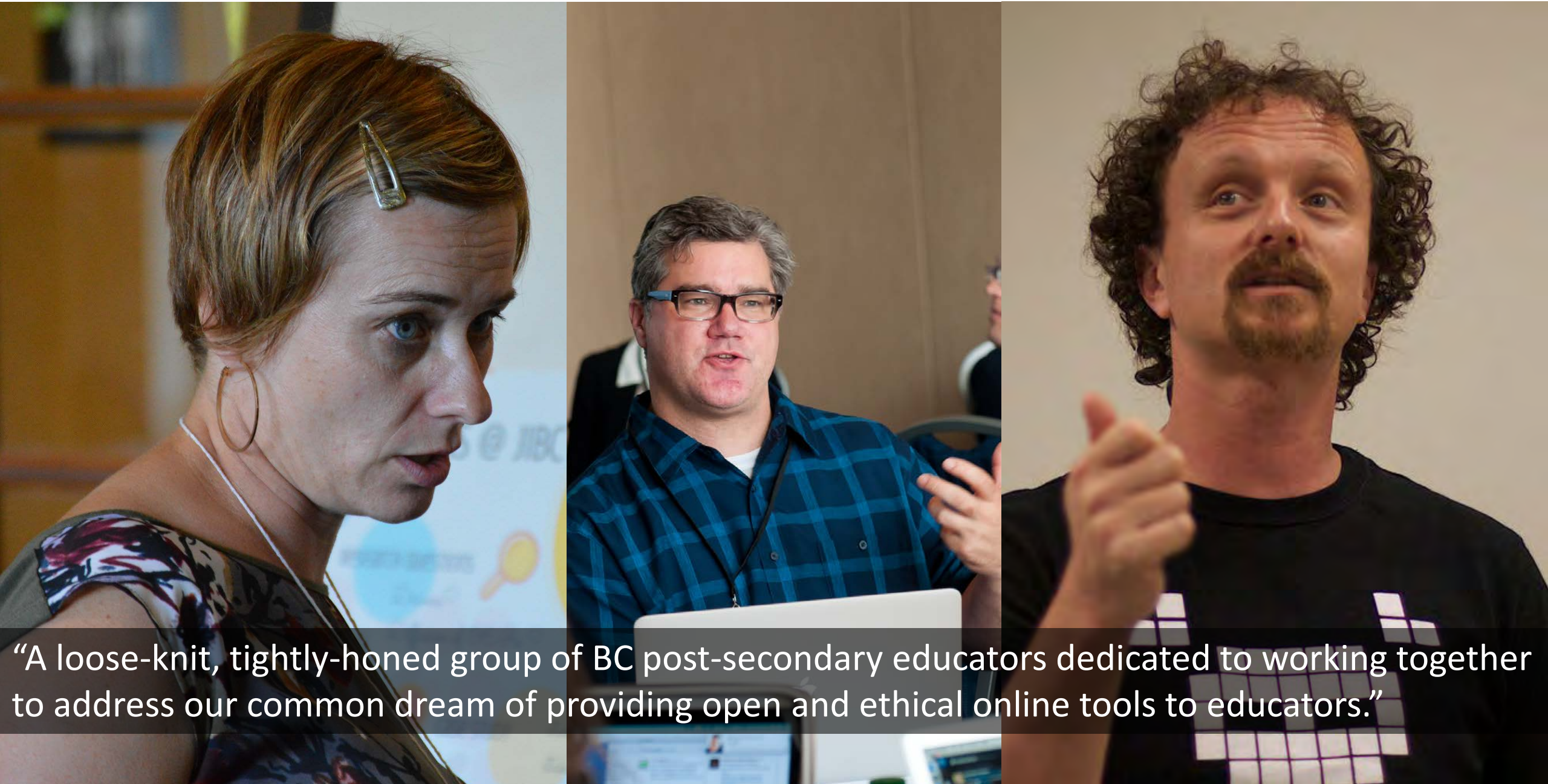
 Education St
@RRUEduSt...
#RRUMALAT this upcoming Spring Jam 2017 @etug event may be something to consider #edtech #etug



EDUCATION
BY DESIGN
June 1 - 2, 2017

<https://open.bccampus.ca/2017/01/26/the-continuum-of-openness-highlighting-the-rru-malat-program/>

The BC Open EdTech Collaborative (BCOETC)



“A loose-knit, tightly-honed group of BC post-secondary educators dedicated to working together to address our common dream of providing open and ethical online tools to educators.”

OPEN SOURCE YOUR UNIVERSITY

1. To promote the use of open source software (OSS) applications focused on teaching & learning.



1. To promote the use of open source software (OSS) applications focused on teaching & learning.
2. To promote inter-institutional collaboration.


```

I
FROM tbl_room WHERE room_checked='0'
class='list-group'
$.uncheckedRoom["room_name_full"];
u.user_id

```

1. To promote the use of open source software (OSS) applications focused on teaching & learning.
2. To promote inter-institutional collaboration.
3. To provide a pathway for institutions and educators to actively participate in OSS projects focused on teaching & learning.

DATA GATHERED SINCE
OCT 27, 2013

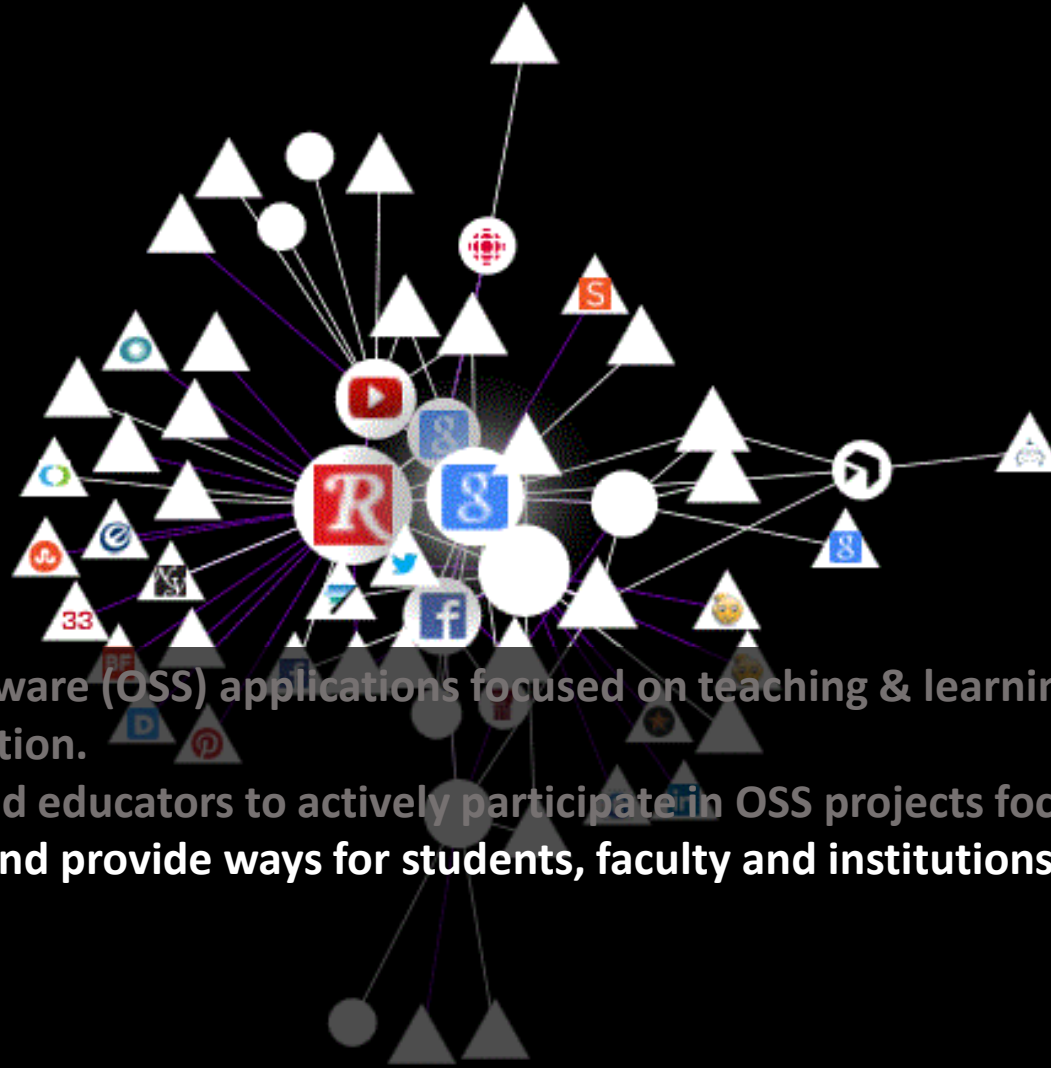
YOU HAVE VISITED
23 SITES

YOU HAVE CONNECTED WITH
75 THIRD PARTY SITES

CONT

Last 10 Sites

GRAPH VIEW



google.com



FIRST ACCESS Sun, Oct 27

LAST ACCESS Mon, Oct 28



Server Location

United States

Connected to 15

first access.

merlot.org

world-actuality.com

google.ca

theglobeandmail.com

youtube.com

rollingstone.com

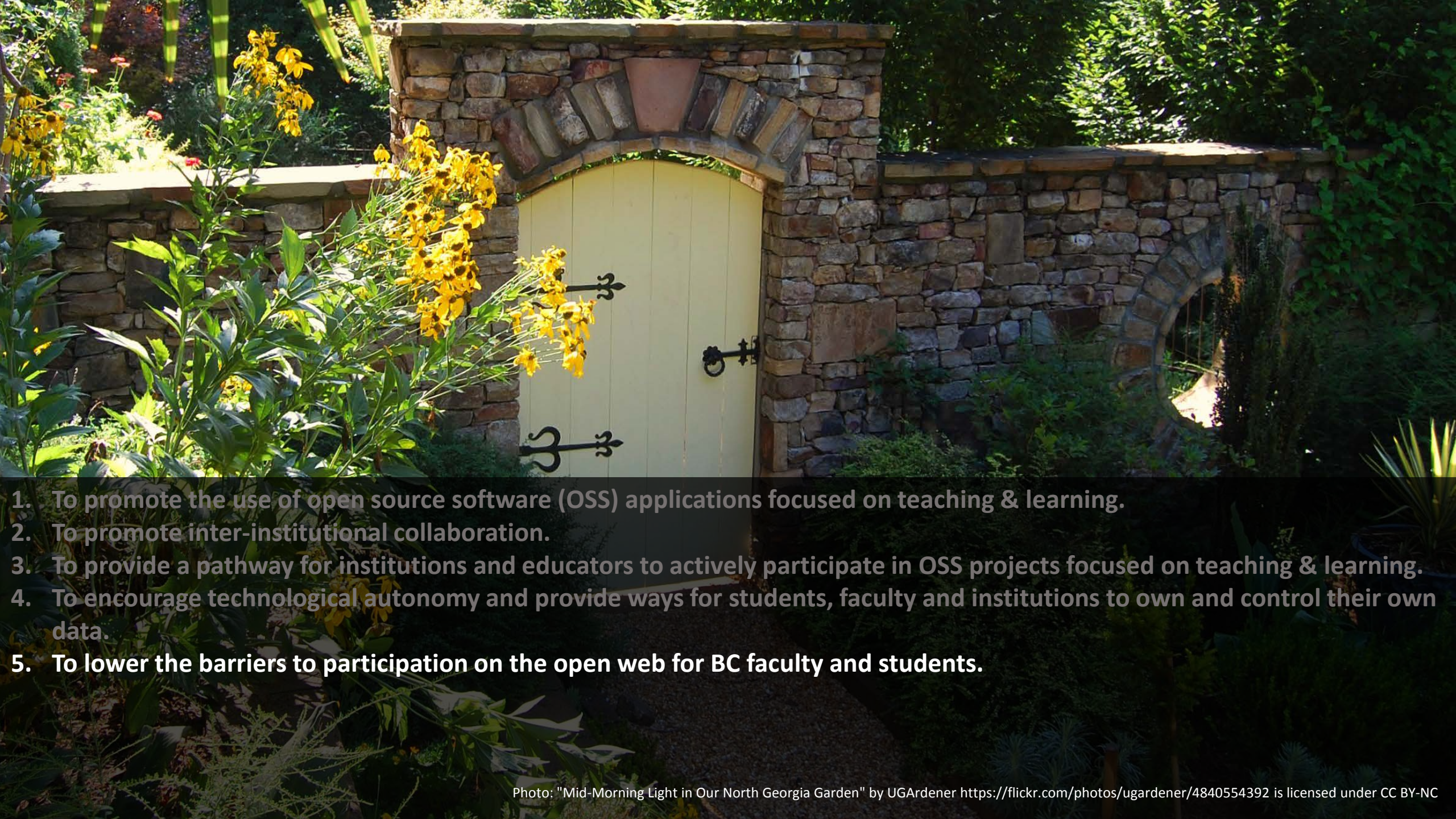
gstatic.com

googleusercontent.com

fonts.googleapis.com

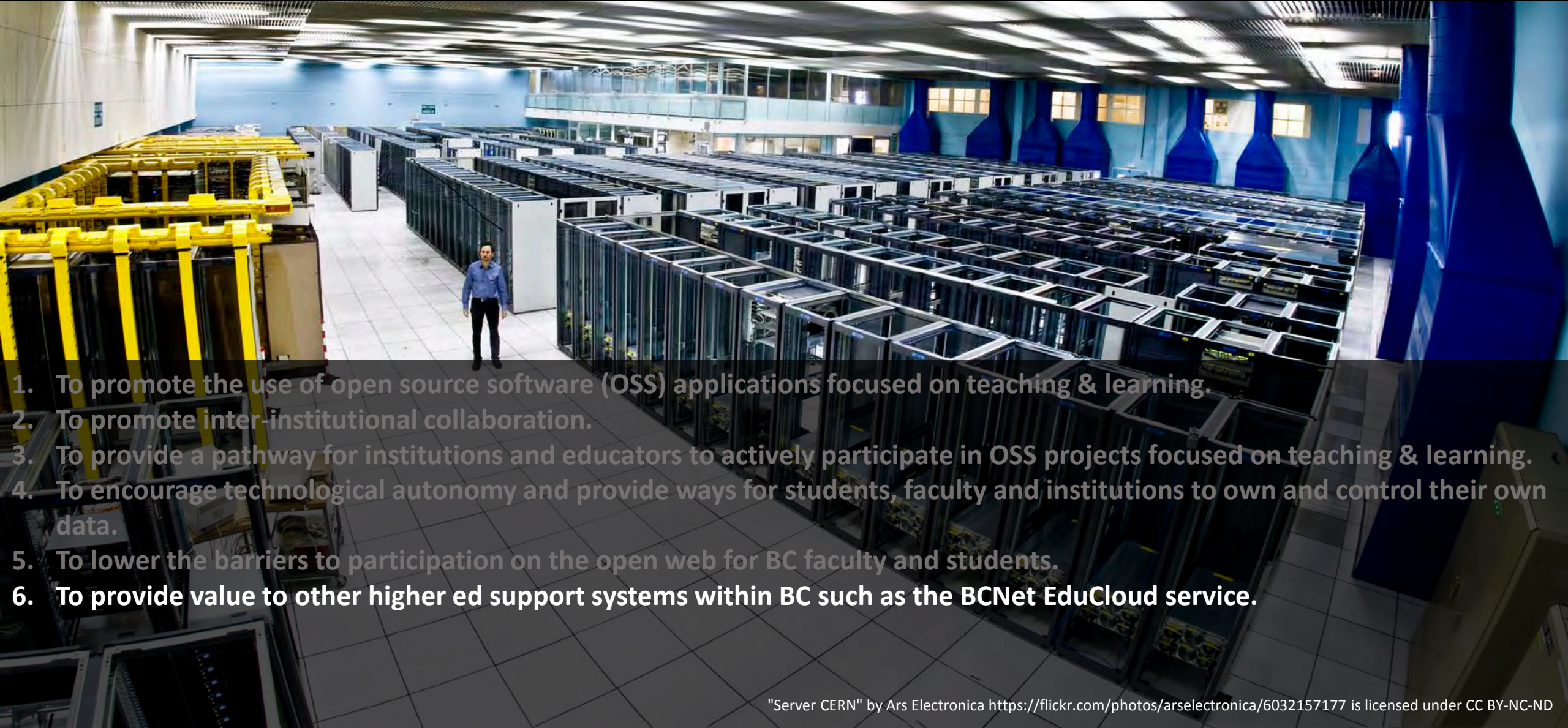
www.googleapis.com

1. To promote the use of open source software (OSS) applications focused on teaching & learning.
2. To promote inter-institutional collaboration.
3. To provide a pathway for institutions and educators to actively participate in OSS projects focused on teaching & learning.
4. To encourage technological autonomy and provide ways for students, faculty and institutions to own and control their own data.



1. To promote the use of open source software (OSS) applications focused on teaching & learning.
2. To promote inter-institutional collaboration.
3. To provide a pathway for institutions and educators to actively participate in OSS projects focused on teaching & learning.
4. To encourage technological autonomy and provide ways for students, faculty and institutions to own and control their own data.
5. To lower the barriers to participation on the open web for BC faculty and students.

bc.net/service-catalogue/educcloud



1. To promote the use of open source software (OSS) applications focused on teaching & learning.
2. To promote inter-institutional collaboration.
3. To provide a pathway for institutions and educators to actively participate in OSS projects focused on teaching & learning.
4. To encourage technological autonomy and provide ways for students, faculty and institutions to own and control their own data.
5. To lower the barriers to participation on the open web for BC faculty and students.
6. To provide value to other higher ed support systems within BC such as the BCNet EduCloud service.

Sustainable

1. To promote the use of open source software (OSS) applications focused on teaching & learning.
2. To promote inter-institutional collaboration.
3. To provide a pathway for institutions and educators to actively participate in OSS projects focused on teaching & learning.
4. To encourage technological autonomy and provide ways for students, faculty and institutions to own and control their own data.
5. To lower the barriers to participation on the open web for BC faculty and students.
6. To provide value to other higher ed support systems within BC such as the BCNet EduCloud service.
7. To provide another path for sustainable ed tech infrastructure to BC higher education.



WORK HARDER

Together

1. To promote the use of open source software (OSS) applications focused on teaching & learning.
2. To promote inter-institutional collaboration.
3. To provide a pathway for institutions and educators to actively participate in OSS projects focused on teaching & learning.
4. To encourage technological autonomy and provide ways for students, faculty and institutions to own and control their own data.
5. To lower the barriers to participation on the open web for BC faculty and students.
6. To provide value to other higher ed support systems within BC such as the BCNet EduCloud service.
7. To provide another path for sustainable ed tech infrastructure to BC higher education.
8. To assist BC faculty in evaluating and making informed pedagogical decisions around open source teaching and learning applications.

Experiments & Initiatives

WordPress Community of Practice urls.bccampus.ca/wordpress

EdTech Demo urls.bccampus.ca/edtechdemo

Sandbox Pilots urls.bccampus.ca/sandbox

[Guide on the Side demo](#)

[Sandstorm \(BCOETC instance\)](#)

Mattermost

Get involved urls.bccampus.ca/bcoetc



THANK YOU

Slides: urls.bccampus.ca/3rdpillar

I used a number of images from [Unsplash.com](https://unsplash.com) that are licensed with a CC0 license