



Lisa, workshop attendee

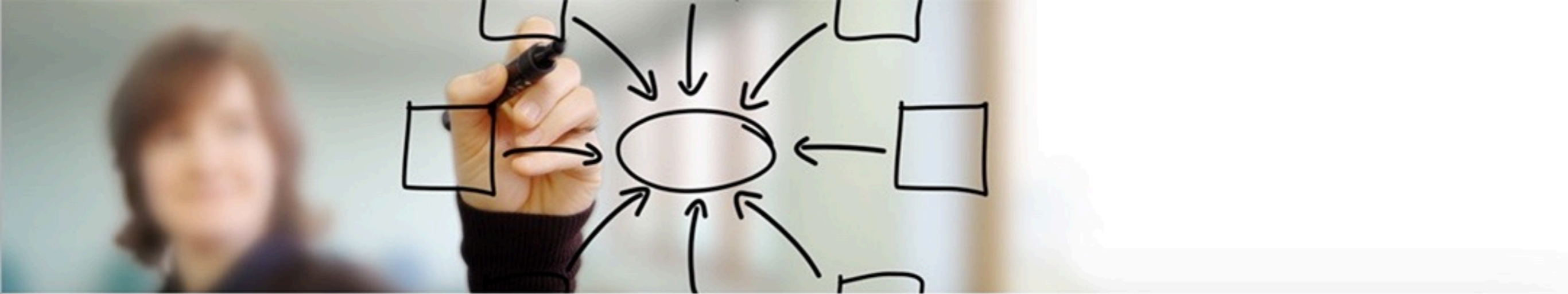
MULTIPLY K-12 **OPEN EDUCATIONAL RESOURCES**

ABOER K-12 PROJECT

Building In-service Teacher OER Capacity for Graduate Credit

Dr. Connie Blomgren • Centre for Distance Education, Athabasca University

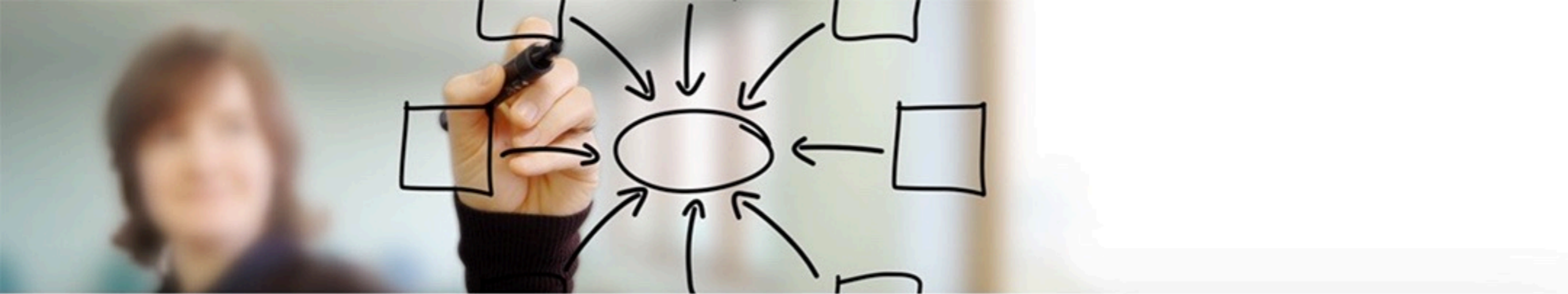
Verena Roberts • Technology for Learning Specialist - Educational Technology, Rocky View School Division



Did you Know.....?

It's Open Education Week 2017

<https://www.openeducationweek.org/schedule/online?selectedDate=2017-03-29>



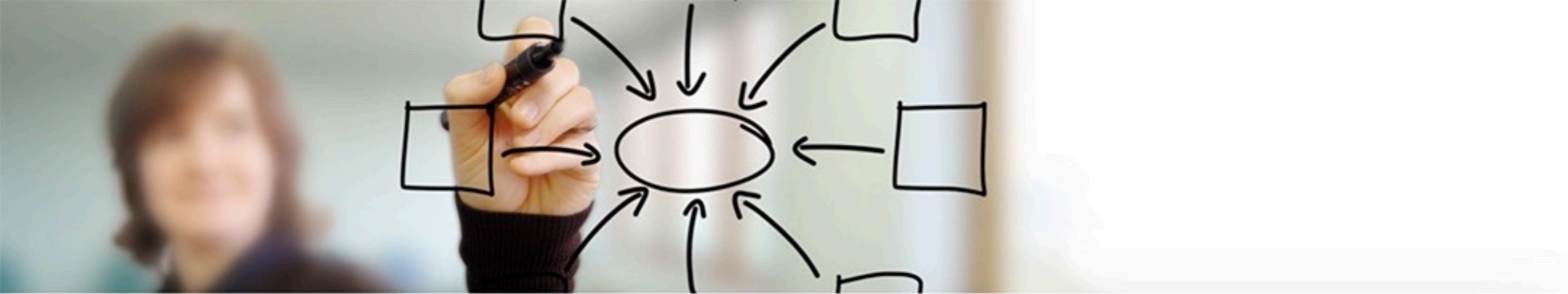
Background

Curriculum redesign of 3 Graduate courses for the Blended and Online Learning and Teaching (BOLT) offering through the partnership between Athabasca University and Alberta Distance Learning Centre.

BOLT 676 - OER and Systems Thinking

MDDE 622 - Openness in Education

ABOER call for funding proposal



Project Team

Dr. Connie Blomgren – Project Lead

Verena Roberts – Subject Matter Expert

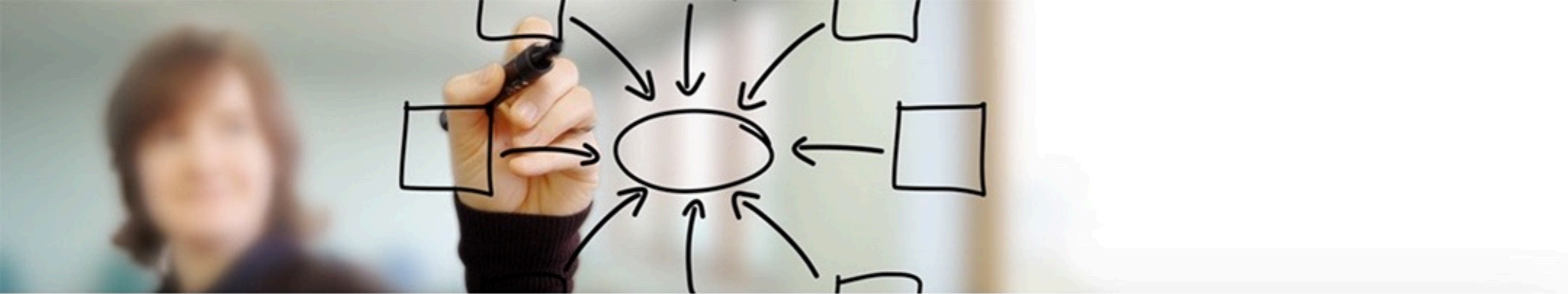
Dan Wilton – Project Assistant

Levina Yuen - Instructional Media and Educational Technology Developer

Gloria Richardson – Project Manager

Lindisfarne Media Production – Simon, Sheena, Kelsey

Carrie Anton – Assistive Technologist - UDL consultant



OER and Professional Learning

OER and Higher Education

History

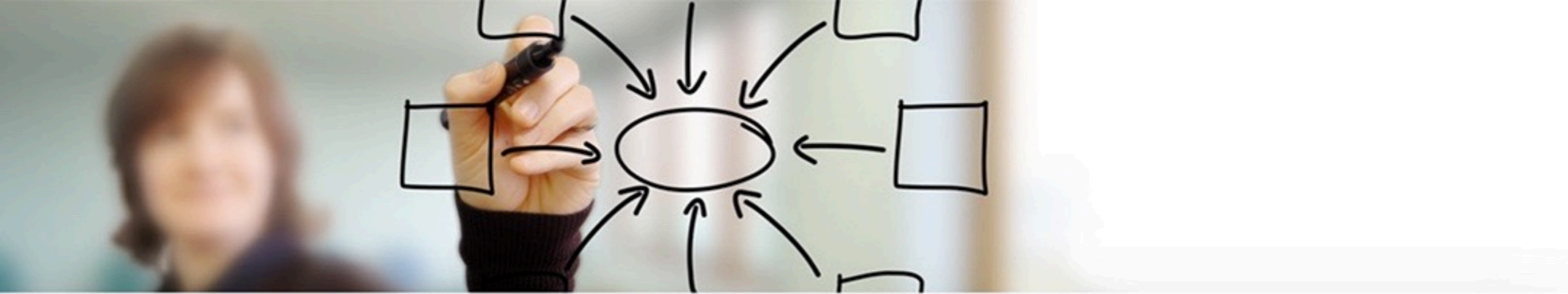
OER and K-12

Alberta

National

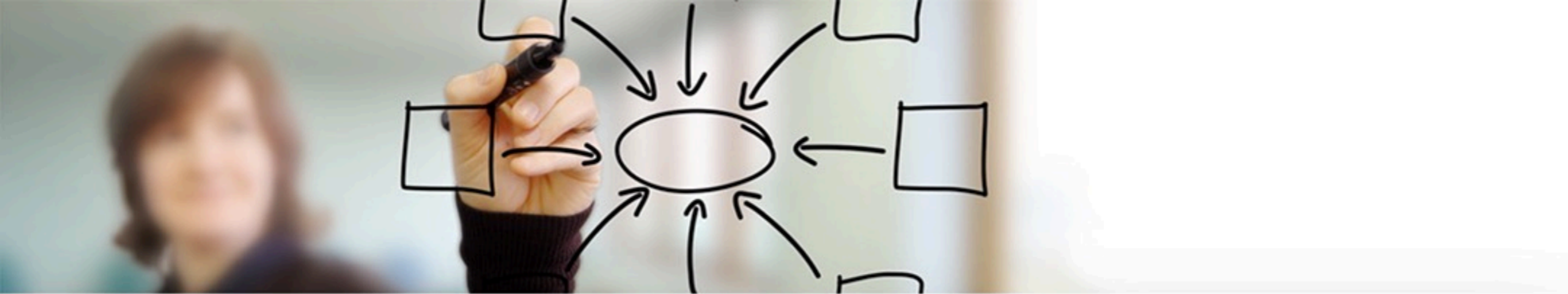
USA

International



What is ABOER?

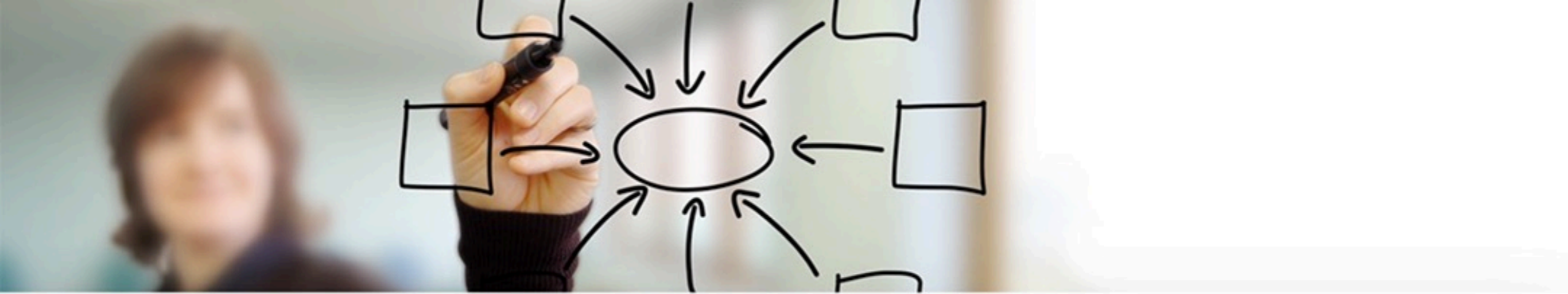
The screenshot shows the homepage of the OER (Open Educational Resources) website. At the top left is the OER logo, which includes a red sun-like icon and the text "OER" in a large, blue, serif font, with "A COMMITMENT TO OPEN EDUCATION" in smaller text below it. To the right of the logo is a horizontal navigation menu with the following items: ABOUT, ADOPT PROJECTS, RESOURCES, PEER REVIEWS, REPOSITORY, CONTACT US, and APPLY. Below the navigation menu is a main content area. It starts with a heading "Welcome to the Campus Alberta OER Initiative!". This is followed by a large banner that says "OER TOOLKITS ARE LIVE!". Below the banner is a small paragraph of text: "Connect and learn about open educational resources at Malaspina Cultural College on Thursday, October 6, 2016, from 10am - 4pm. The theme of the conference is 'Using open educational practice and resources in our institutions'. [Show all >>>](#)". Below this is another banner that says "COLLABORATE: a future Alberta-wide OER community" and "CLICK TO JOIN". Underneath are two columns of content. The left column is titled "Starter Kit" and has a sub-heading "Considerations when using an open educational resource or creating your own". The right column is titled "Champion's Toolkit" and has a sub-heading "Communicate the value of OER at your institution". At the bottom of the screenshot is a banner for "AB OER ARTICLES".



What are Open Educational Resources?

Open Educational Resources (OER) 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. OERs range from textbooks to curricula, syllabi, lecture notes, assignments, tests, projects, audio, video and animation.

UNESCO, 2017, para 1

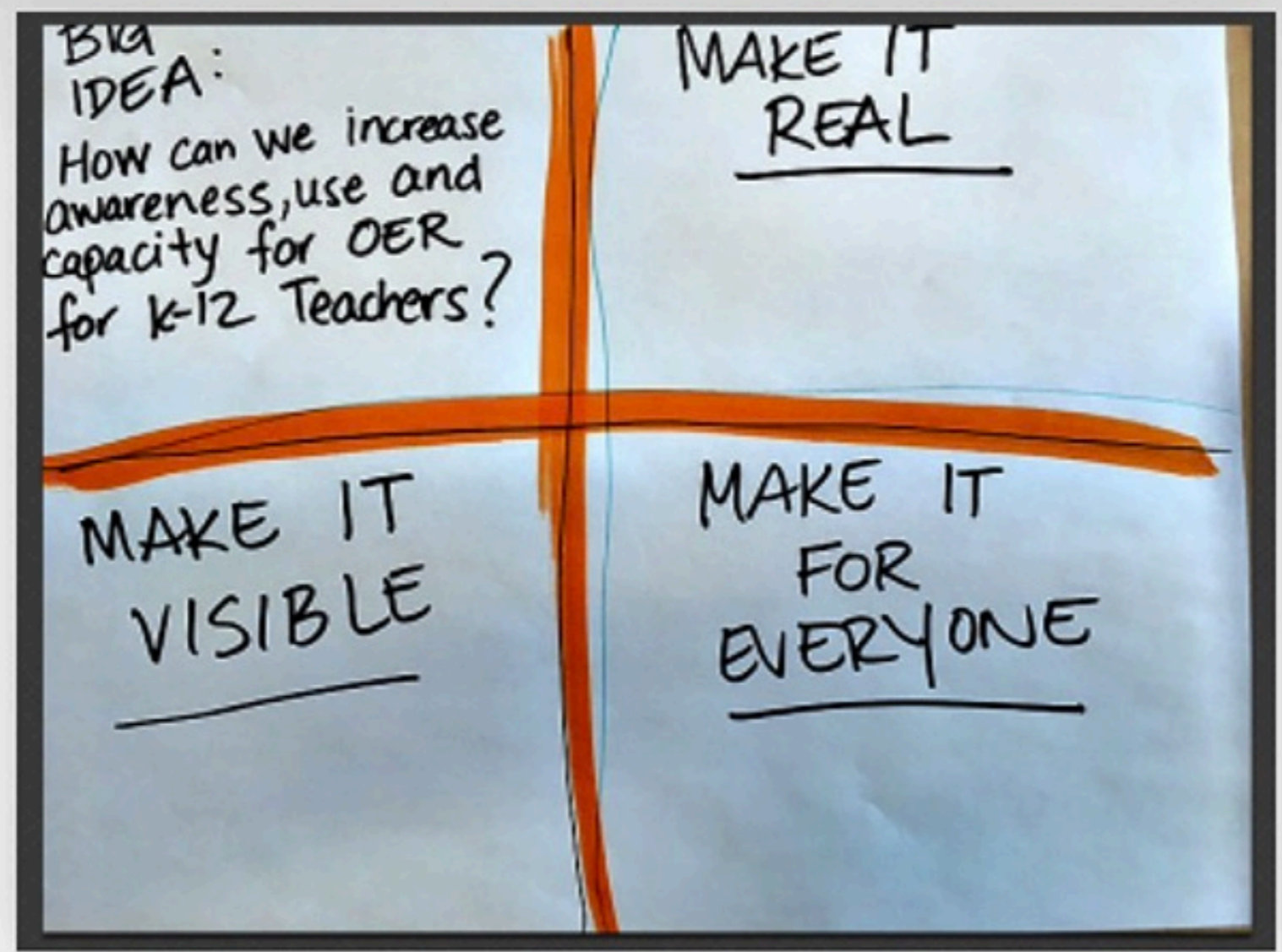


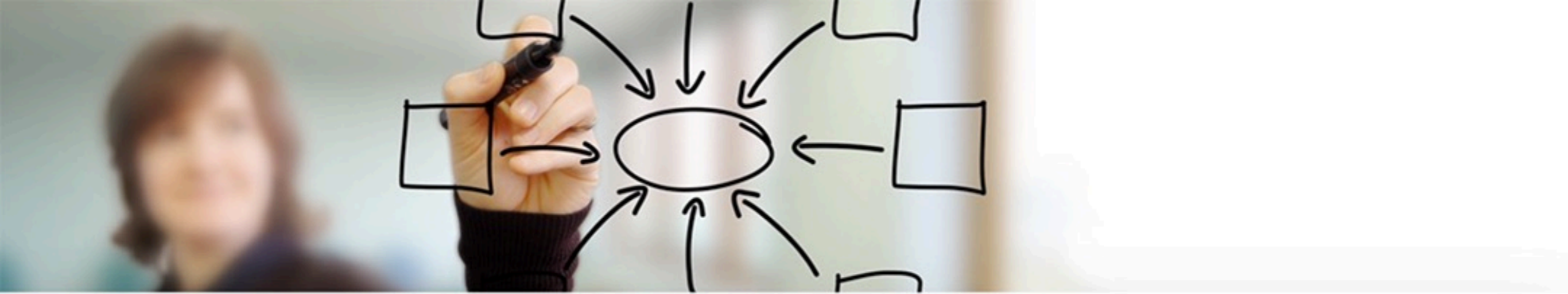
The 5R's of OER

- Reuse:** the right to use the content in a wide range of ways (e.g., in a class, in a study group, on a website, in a video);
- Revise:** the right to adapt, adjust, modify, or alter the content itself (e.g., translate the content into another language);
- Remix:** the right to combine the original or revised content with other open content to create something new (e.g., incorporate the content into a mashup);
- Redistribute:** the right to share copies of the original content, your revisions, or your remixes with others (e.g., give a copy of the content to a friend);
- Retain:** the right to make, own, and control copies of the content.



Collecting OER Voices and Perspectives





Pre-project: Online Survey

1. What benefits as a K-12 educator do you see in creating and using OER materials? (Check all that apply)
2. Submitting Open Resources: What would motivate you to share your open digital resources and content with others? (Check all that apply)
3. What barriers do you face in creating and using OER materials? (Check all that apply)
4. What types of open resources would you be most willing to publish or use? (Click all that apply)
5. What are some questions that you have about K-12 OER that you would like to have answered?

QUESTIONS RESPONSES 50

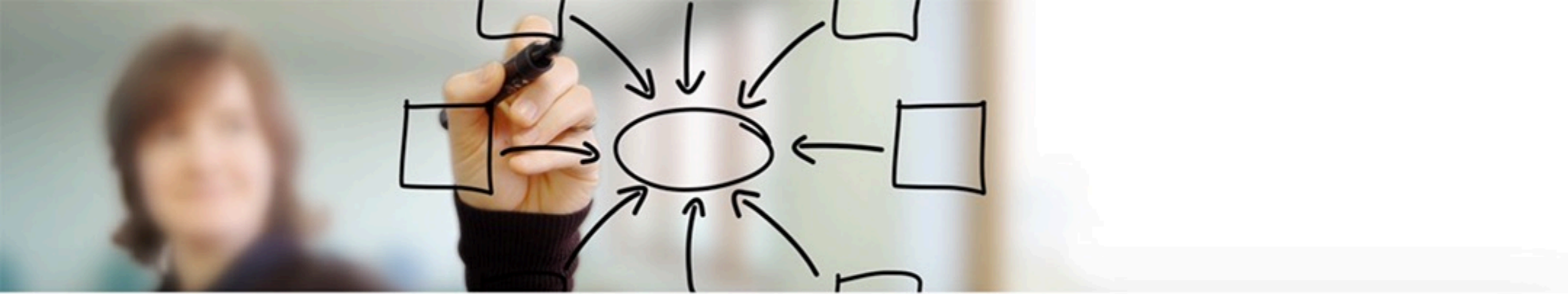
1. What benefits as a K-12 educator do you see in creating and using OER materials? (Check all that apply)

- Ability to influence accuracy of content (e.g., accurate information) (4)
- Ability to influence aesthetics of content used (e.g., cover, color usage) (4)
- Ability to align OER to curriculum (4)
- Ability to make content concise (e.g., unnecessary content is removed) (4)
- Ability to customize formatting of text (e.g., font size, spacing) (4)
- Ability to influence media quality of images and other media (4)
- Ability to address readability of content (e.g., grade level appropriateness) (4)
- Ability to make connections to other meaningful resources (e.g., Internet resources) (4)
- Ability to access free supplementary materials (e.g., teacher's guide, equation references) (4)
- Ability to have timeliness of content (e.g., up-to-date information) (4)
- Access to free teacher-created resources that can be differentiated for students' diverse learning needs (4)



Pre-survey: Topics and Themes (Version 1)

| Podcast or Video # | Topic | SubTopics | Guiding or Essential Question |
|--------------------|---|---|---|
| P1 | History of OER | Overview of OER K-12 Higher Ed Where are the leaders (champions) of k-12 OER? | How does the history of OER influence <u>OER</u> today? |
| P2 | Open Educational Resources - what are they? | Different types of OER, UNESCO Definition of OER, - Perceptions of "open" | What are OER and why we would use them as teachers? |
| P3 | Copyright & Creative Commons - what are they? | Public Domain Copyright Law | What impact can the Canadian copyright law and creative commons licensing have on learning? |
| V1 | How to Find and Evaluate OER - Basics | Determining needs Main curricular outcomes Main approach Do you want to be able to | Where can I find K-12 OER? |



Project Contributors

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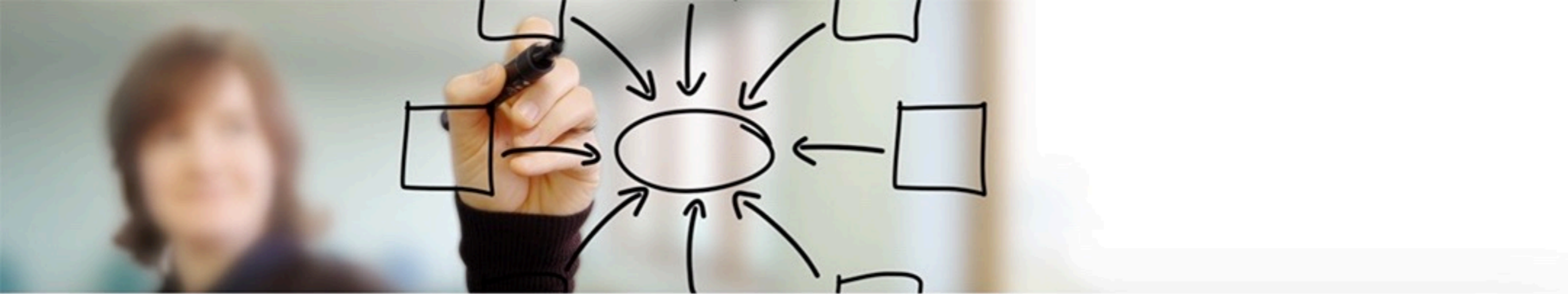
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James T. Swanson, BAsC, JD, MBA
Lawyer/Partner Miller Thomson LLP, Calgary



Podcast Recordings

Example Interview Template

<http://bit.ly/OERPorter>

David Porter - Interview Sept 22

Podcast Topics Covered:

P1.2 What are OER today? What is the potential of OER ?

P1.3 Differences Between OER in higher Ed and in K-12

P4.1 Open Learning: Open Mindset and Perceptions

P5.1 How to Share/Publish OER

P5.2 How to Be a Change Leader

Perceptions of Openness

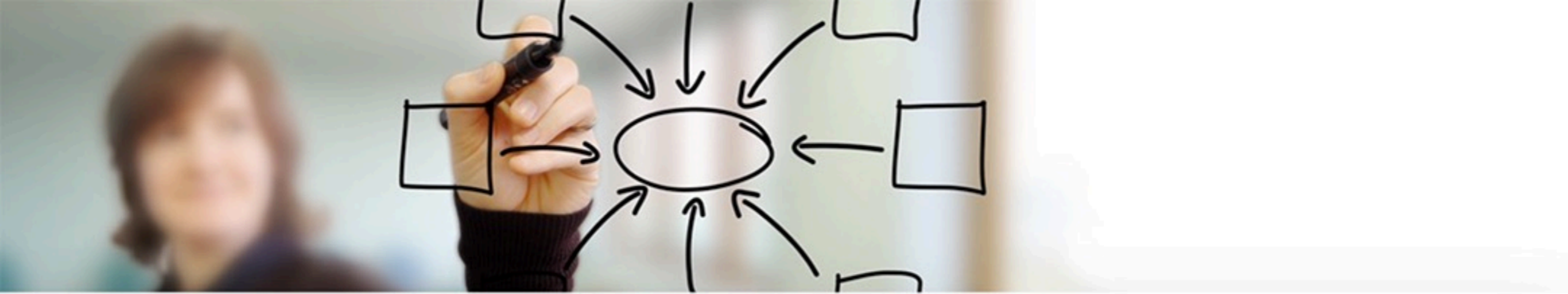
OER Stories:

1. As an OER leader in Canada, you are known for a variety of OER initiatives, but we were hoping you would consider describing two particular OER stories today.

At BC Campus, you were part of the "historic" team that created the possibility of open textbooks for Higher Education. We were hoping we could begin this interview with your BCCampus OER Textbook story. Please consider the following when telling us this story:

- Why and how did you decide to use OER for university and college textbooks?

- What were some of the barriers that you had to overcome? How did you

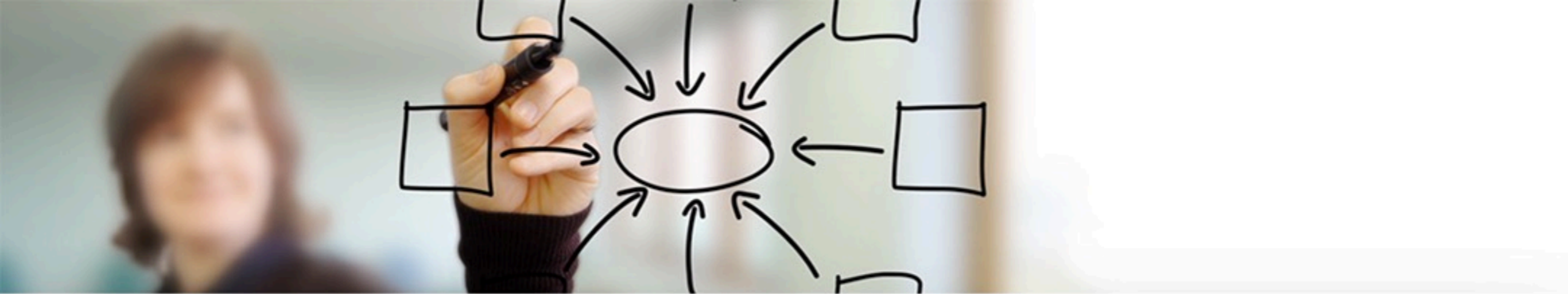


Podcast Creation

Title of Podcast: Benefits of Open Educational Resources

Interviewees: Sarah Weston, Royce Kimmons, Rory McGreal, Beatriz de los Arcos

| | |
|-------------|--|
| Intro music | |
| Intro tag | Welcome to our podcast on the benefits of open educational resources and what they can contribute to our work as professionals and to the learning of our students. |
| Narration | <p>When we are first introduced to the non-commercial, freely-shared ethos of open educational resources, it's natural to assume the primary benefit of OER must be cost. Surely, in an educational system where there never seems to be adequate finances to accomplish all we would like, free must be a powerful draw. Not only would free resources save local districts from one of the major expenses of education, but it would promise an unprecedented opportunity to reduce educational inequality around the world.. Seen as a technical solution, perhaps this is all we would need to say about the benefits of open educational resources.</p> <p>Yet Sarah Weston, Director of OER and Technology at Mountain Heights Academy in Utah, suggests there may be more to the story of open educational resources than cost-savings alone.</p> |
| Clip | <p>Weston 14:05-15:45</p> <p>When I first started talking about OER and people asked me the benefits, the first thing I always said was cost. It seemed like a no-brainer to me that something that was free or nearly free was going to be the biggest selling point of OER. And I would talk about that up until last year. I'd have my list of my four things why OER is amazing and you should use it, and I always led with cost. And I think cost is a factor when we're talking about colleges and universities because the idea, you know, of providing, you know, a five-dollar textbook as opposed to a hundred-and-forty-dollar textbook, when it's coming out of the student's pockets, out of the student's pocketbooks, makes a huge difference. But here's the thing with K-12. Cost has not been a factor. And I've been feeling</p> |



Video Recordings

Based on Kimmons (2015) research
of evaluating closed and open
source textbooks

Pre and post video interviews

OER workshop filmed as well

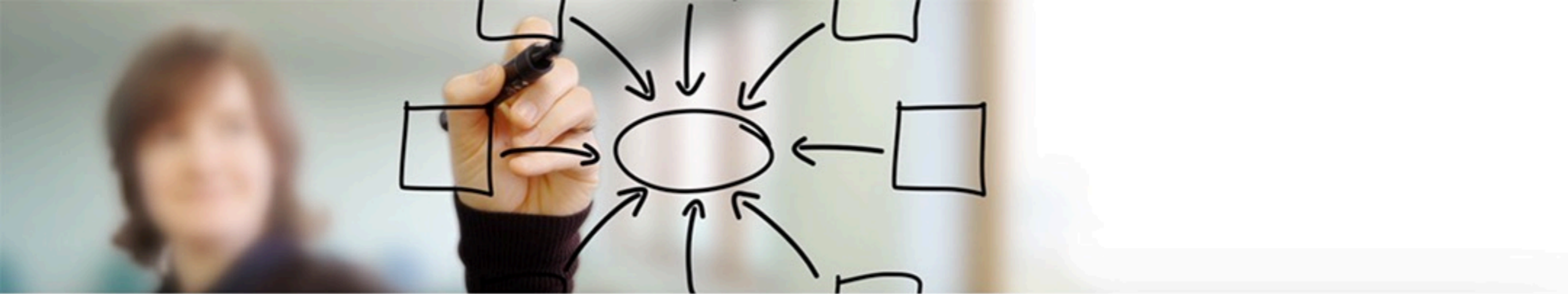
Practitioner-based

Process-based

Examining the continuum of OER
awareness, use and
championship

The “wicked” problems of OER...





Video Recording Resources

- K-12 OER Video Workshop Agenda**
- Finding/Using OER Blog**
- OER in K-12: Using, Creating & Sharing**
Remix from Rhonda Jessen/Verena Roberts ppt
- Copyright Note Taking Sheet**
Tom Flanagan

<http://bit.ly/OEREval>

CC BY-NC-SA
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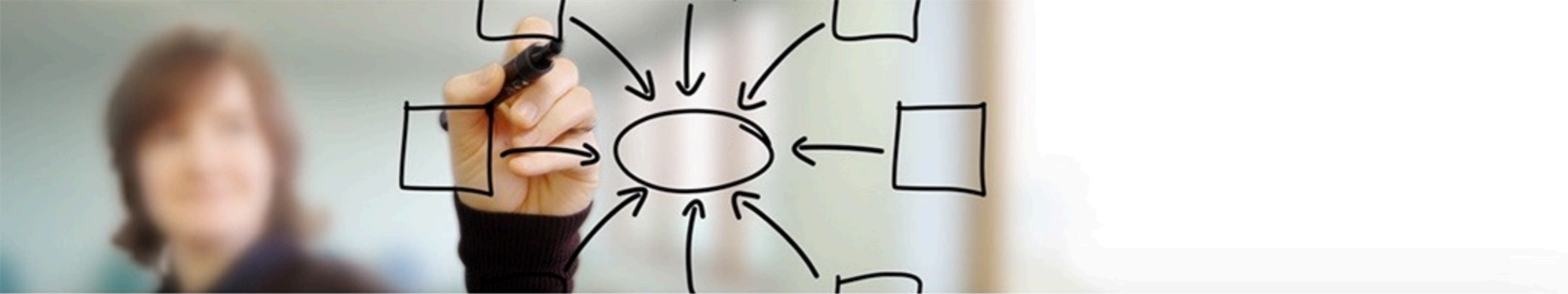
Educational Resources Evaluation

Name of resource: _____

Copyright: _____

Please rate your textbook/resources based on the following items.

| | Poor (1) | Fair (2) | Good (3) | Very good (4) | Excellent (5) |
|--|----------|----------|----------|---------------|---------------|
| Criteria: | | | | | |
| Accuracy: Accuracy of Content (e.g., accurate information) | | | | | |
| Aesthetics: Aesthetics (e.g., cover, color usage) | | | | | |
| Alignment: Curriculum Alignment | | | | | |
| Conciseness: Conciseness (e.g., unnecessary content is removed) | | | | | |
| Personalization: Content is personalized based on learner/learning context | | | | | |
| Formatting: Formatting of Text (e.g., font size, spacing) | | | | | |



Reflection

Wiley's Law: You should never use “open” as an adjective unless you can clearly describe how the “open” thing differs from the normal thing.

David Wiley, 9 June 2014

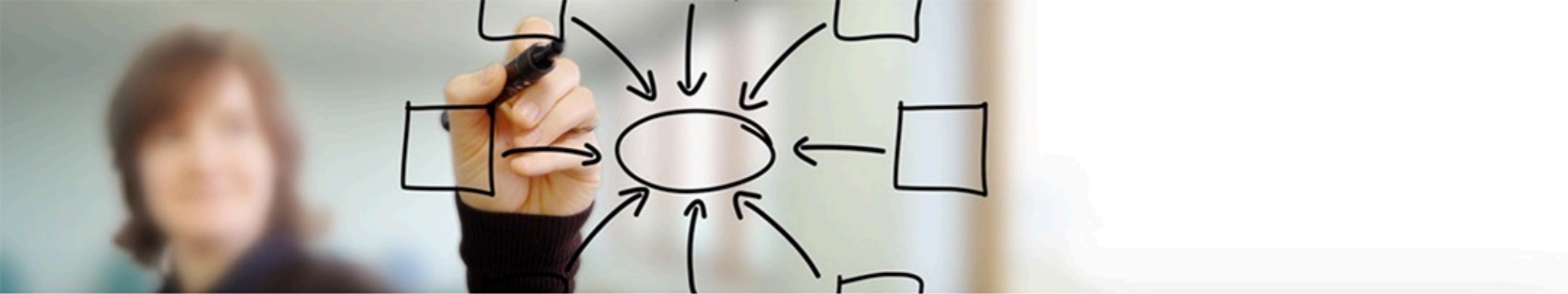
Twitter: <https://twitter.com/opencontent/status/476149397307138048>



Heuristic for the Practitioner Videos

The Open Pedagogy Model
Hegarty, B. (2015)

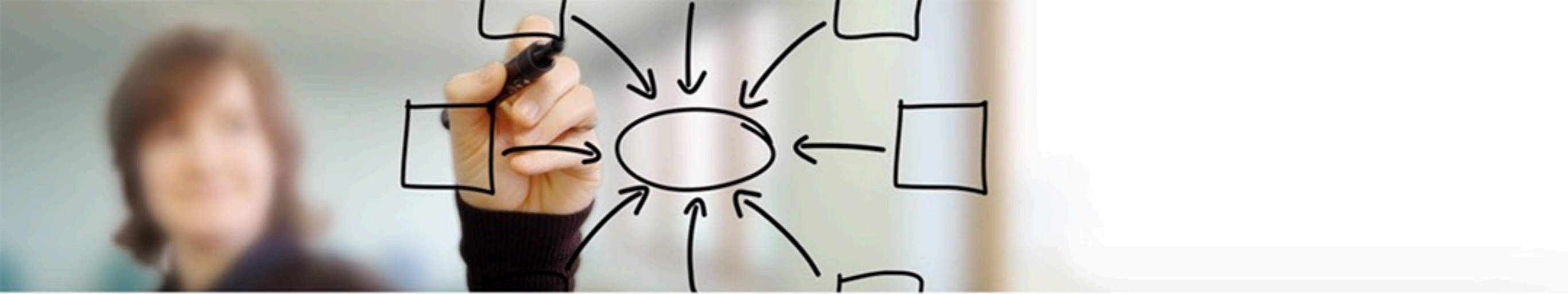




Where are the Resources Located?

BOLT Multi-Authored Blog
<http://bolt.athabascau.ca>

The screenshot shows the homepage of the BOLT Multi-Authored Blog. The header features the Athabasca University logo and the text "BOLT Multi-Authored Blog" with the tagline "Blended and Online Learning and Teaching Professional Learning for K-12 Educators". A yellow arrow points to the "OPEN EDUCATIONAL RESOURCES (OER)" menu item in the navigation bar. The navigation bar also includes "TEACHERS REVIEW TECHNOLOGY IN EDUCATION", "EVIDENCE-BASED TEACHING PRACTICES", "ABOUT BOLT", and "USING THIS SITE". The main content area displays a featured article titled "A WALK IN THE CLOUDS (A TEACHER'S PERSPECTIVE ON CLOUD COMPUTING)" by Shelley Grey-Sortland, dated January 27, 2017. The article is categorized as "Teacher Editorial". The right sidebar shows "RECENT BLOG POSTS" including "A Walk in the Clouds (A Teacher's Perspective on Cloud Computing)", "Coding and Computational Thinking In Schools", "Blended Symposium 2016: Evaluating K-12 Digital Tools", "OER and Canadian Copyright: Essential Facts", and "Google SketchUp: 3D Modelling Software".



Videos

Open Pedagogy I: Attributes of Open Community

Through a series of interviews and direct examples, a panel of teachers from Alberta describe their use of open educational resources to create their own open communities of learners, following the first four attributes of Bronwyn Hagerty's model of open pedagogy: participatory technology; people, openness, and trust; innovation and creativity, and the connected community.



Open Pedagogy I: Attributes of Open Community- Multiplying OER Impact: Building In-service Teacher OER Capacity for Graduate Credit ABOER by [Dr. Connie Blomgren, PhD & Verena Roberts](#) is licensed under a [Creative Commons Attribution-ShareAlike 4.0 International License](#).

Open Pedagogy II: Attributes of Open Practice

The panel of teachers from Alberta continue their descriptions of, and recommendations for, the effective use of open educational resources in the classroom through the remaining four attributes of Bronwyn Hagerty's open pedagogy model: sharing ideas and resources; learner-generated content; reflective practice; and peer review.



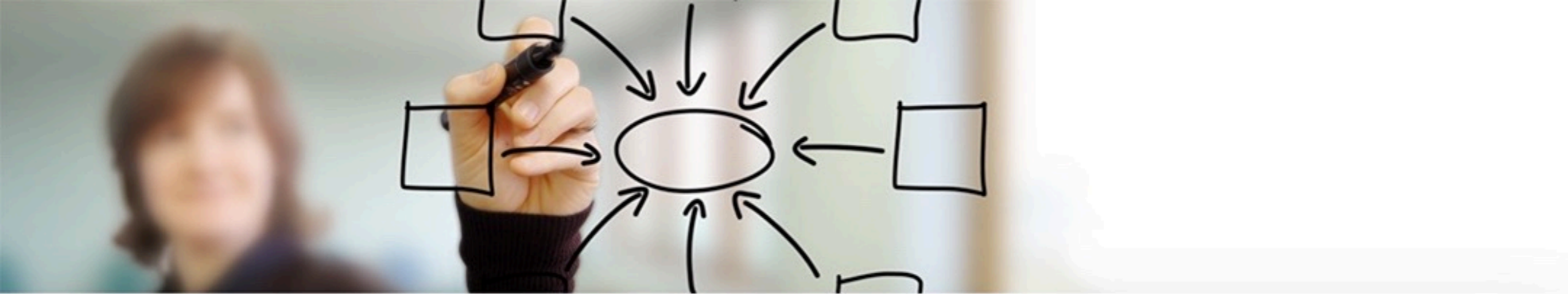
Open Pedagogy II: Attributes of Open Practice- Multiplying OER Impact: Building In-service Teacher OER Capacity for Graduate Credit ABOER by [Dr. Connie Blomgren, PhD & Verena Roberts](#) is licensed under a [Creative Commons Attribution-ShareAlike 4.0 International License](#).

Alberta Perspectives on OER in K-12 Learning

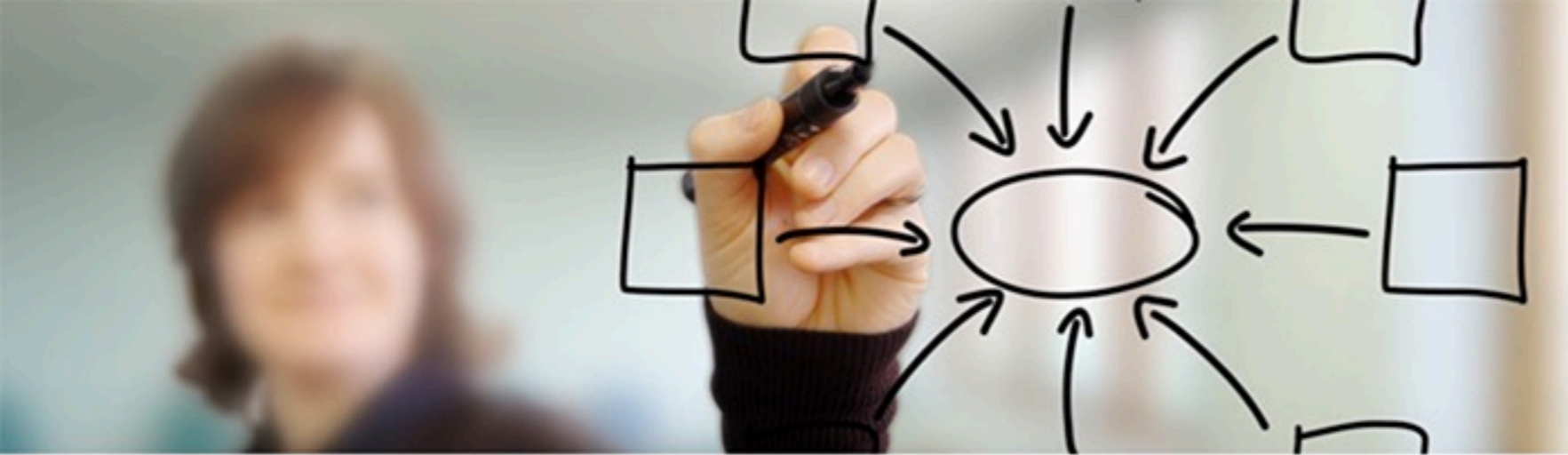
This workshop video introduces a group of teachers from Alberta as they explore open educational resources, present their own experiences with OER in their classrooms, and offer suggestions for their effective use to enhance learning.



Alberta Perspectives on OER in K-12 Learning- Multiplying OER Impact: Building In-service Teacher OER Capacity for Graduate Credit ABOER by [Dr. Connie Blomgren, PhD & Verena Roberts](#) is licensed under a [Creative Commons Attribution-ShareAlike 4.0 International License](#).



Alberta Perspectives on OER in K-12 Learning



Podcasts: Part One. OER Overview in K-12 Learning

K-12 OER PODCASTS

Part One. OER in K-12 Learning: An Overview

1. Welcome: The Project Context 🎧

Contributors: Connie Blomgren, Verena Roberts

2. A History of OER 🎧

Contributors: TJ Bliss, Randy Labonte, Rory McGreal, David Porter, Sarah Weston

3. The Current Landscape of OER 🎧

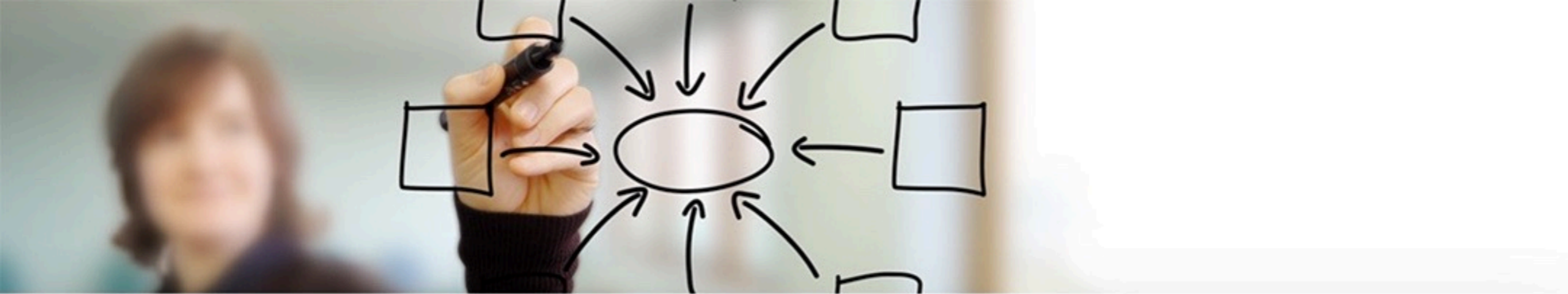
Contributors: TJ Bliss, Beatriz de los Arcos, Michael Canuel, Bill Fitzgerald, Randy Labonte, Rory McGreal, David Porter, Sarah Weston

4. Benefits of OER for K-12 Learning 🎧

Contributors: Beatriz De Los Arcos, Royce Kimmons, Rory McGreal, Sarah Weston

5. Acceptance of OER in K-12 Education 🎧

Contributors: TJ Bliss, Bill Fitzgerald, Royce Kimmons, Randy LaBonte, Rory Mc Greal, David Porter, Sarah Weston



Podcasts: Part 2. OER & Pedagogy in K-12 Learning

Part Two. OER and Pedagogy in K-12 Learning

1. Learning with OER 🎧

Contributors: TJ Bliss, Michael Canuel, Bill Fitzgerald, Rory McGreal, Sarah Weston

2. Teaching with OER 🎧

Contributors: TJ Bliss, Michael Canuel, Beatriz de los Arcos, Bill Fitzgerald, Royce Kimmons, Randy LaBonte, Sarah Weston

3. Openness and the Open Mindset in Learning 🎧

Contributors: : Michael Canuel, Beatriz de los Arcos, Royce Kimmons, Randy LaBonte, Rory McGreal, David Porter

4. The Eight Attributes of Open Pedagogy 🎧

Contributors: Bronwyn Hegarty

5. The Open Pedagogy Model 🎧

Contributors: Bronwyn Hegarty



Podcasts: Part 3. OER Policy & Copyright in K-12

Part Three. OER Policy and Copyright in K-12 Education

1. [Creating Policy for OER in Canada](#) 🎧

Contributors: Randy LaBonte, Rory McGreal, David Porter

2. [Copyright and User Rights: A Definition of Terms](#) 🎧

Contributors: Jim Swanson

3. [K-12 Scenario with Copyright and Fair Dealing](#) 🎧

Contributors: Jim Swanson

Supplementary Scenarios: K-12 Education and Copyright

A) [Supplementary Scenario: Digital Copies and Copyright](#) 🎧

Contributors: Jim Swanson

B) [Supplementary Scenario: Learning Management Systems and Copyright](#) 🎧

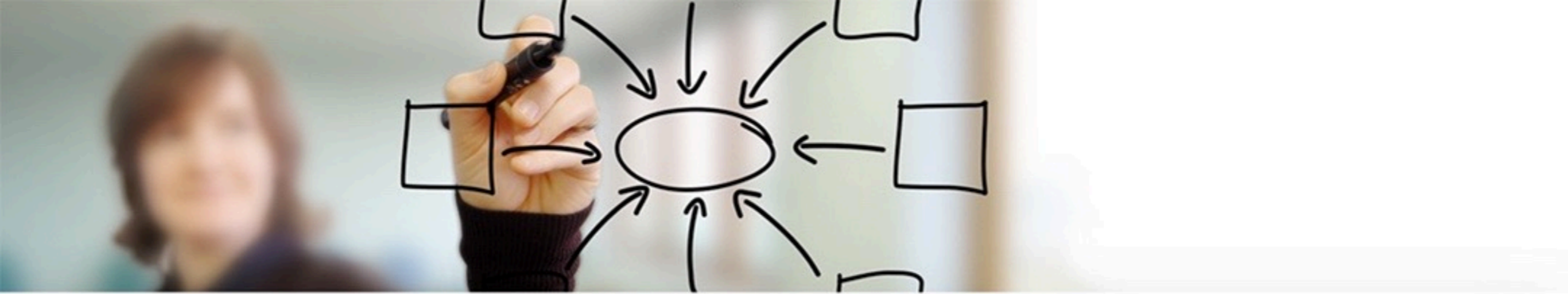
Contributors: Jim Swanson

C) [Supplementary Scenario: Course Sharing and Copyright](#) 🎧

Contributors: Jim Swanson

D) [Supplementary Scenario: Content Creation and Copyright](#) 🎧

Contributors: Jim Swanson



Podcast

TEACHING WITH OER

LEAVE A COMMENT

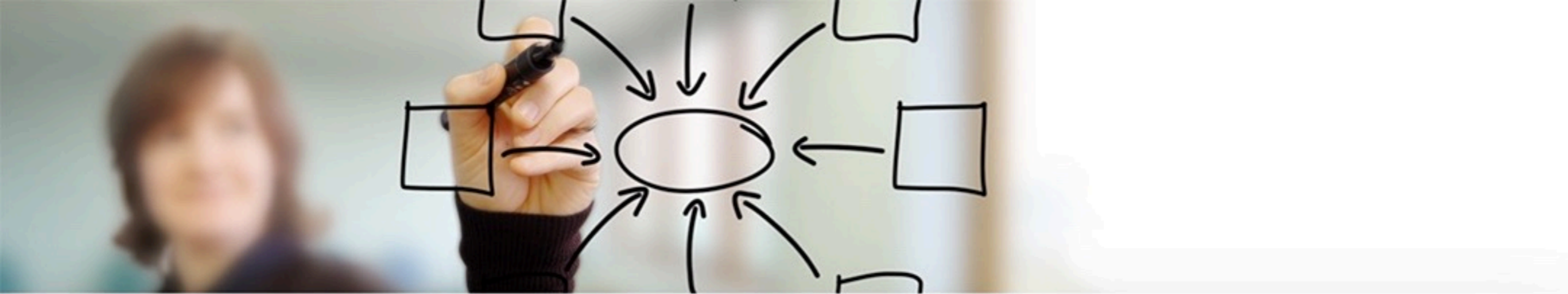
This podcast considers the developing awareness and use of K-12 OER by classroom teachers, the changes to teaching and learning that an open teaching practice creates, and the ongoing need for OER professional development for educators.

Contributors: TJ Bliss, Michael Canuel, Beatriz de los Arcos, Bill Fitzgerald, Royce Kimmons, Randy LaBonte, Sarah Weston

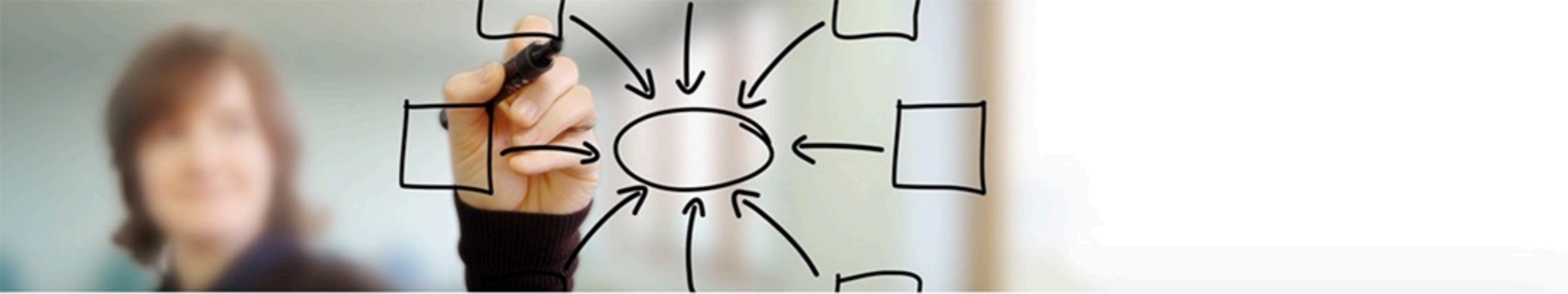


Teaching with OER- Multiplying OER Impact: Building In-service Teacher OER Capacity for Graduate Credit ABOER by [Dr. Connie Blomgren, PhD & Verena Roberts](#) is licensed under a [Creative Commons Attribution-ShareAlike 4.0 International License](#).

[Download the Transcript: Teaching with OER](#)



Openness and the Open Mindset in Learning



Creative Commons Licensing - Sharing Out

Podcasts and Videos

BOLT 676

MDDE 622

BOLT Multi-authored blog

ABOER website

Edmonton Regional Learning Consortium (ERLC) PL Resources

Rocky View Schools - MoodleHUB

CIDER Webinar - March 2017 "Media Release"

Athabasca University Library

#GoOpen

Handbook of Research on K-12 Online and Blended Learning - 2017 Edition

Educause Openness Constituent Group <OPENNESS@listserv.educause.edu>,

OER Advocacy Coalition <oer-advocacy-coalition@googlegroups.com>,

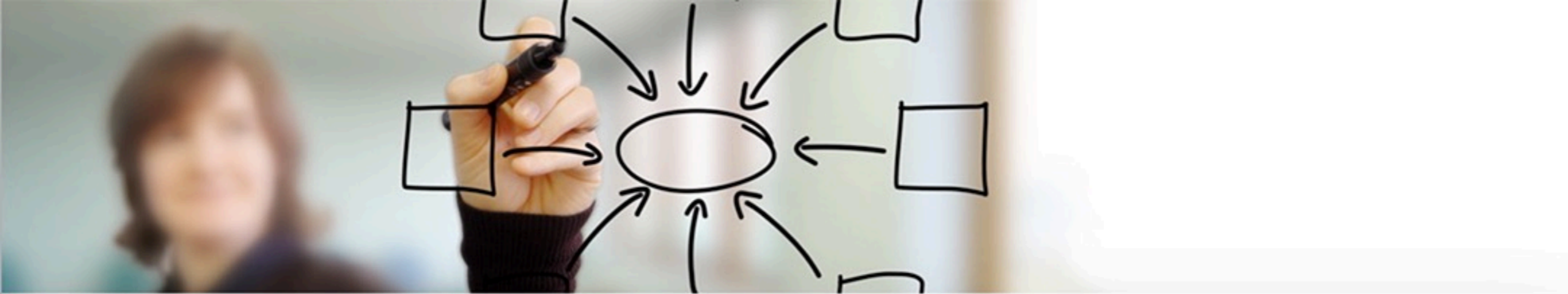
"OER-DISCUSS@JISCMAIL.AC.UK" <OER-DISCUSS@jiscmail.ac.uk>,

OER Forum <oer-forum@lists.esn.org.za>,

"Open Educaton @ OKFN" <open-education@lists.okfn.org>,

"OPENEDSIG@JISCMAIL.AC.UK" <OPENEDSIG@jiscmail.ac.uk>

Open Education Week 2017



Reflections

Connie

OER awareness and use continues to develop for both Higher Education and K-12. The potentials for K-12 relate to equity, using participatory technologies for enhancing both teaching and learning, and contributes to the *wise* spending of public money.

Next Steps:

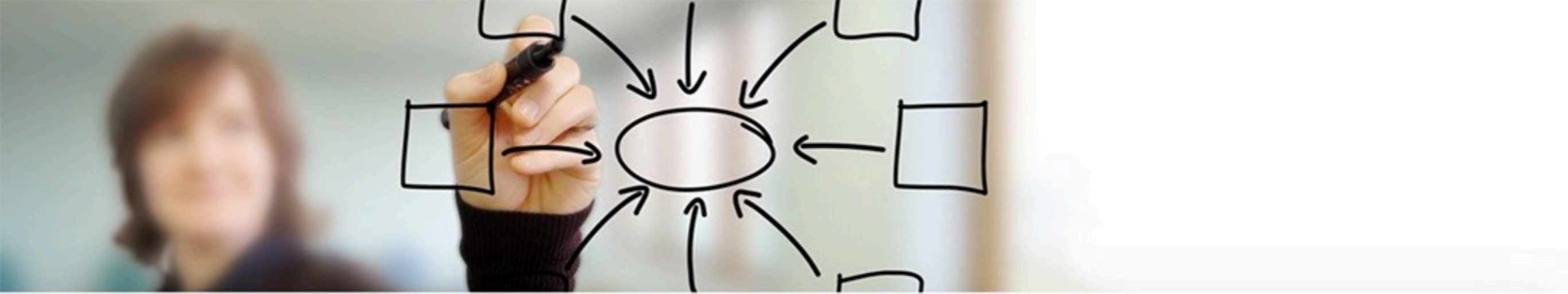
- Publish articles related to the project
- K-12 OER research
- Support K-12 OER awareness, use & advocacy

Verena

Alberta Teachers, in general, could not identify with the words Open Educational Resources although they were able to give multiple examples of how they use open online content in their classrooms.

Next Steps:

- Support awareness of...
- How/why to share resources
- What is CC Licensing
- Attributes of Open Pedagogy
- Focus on process over product

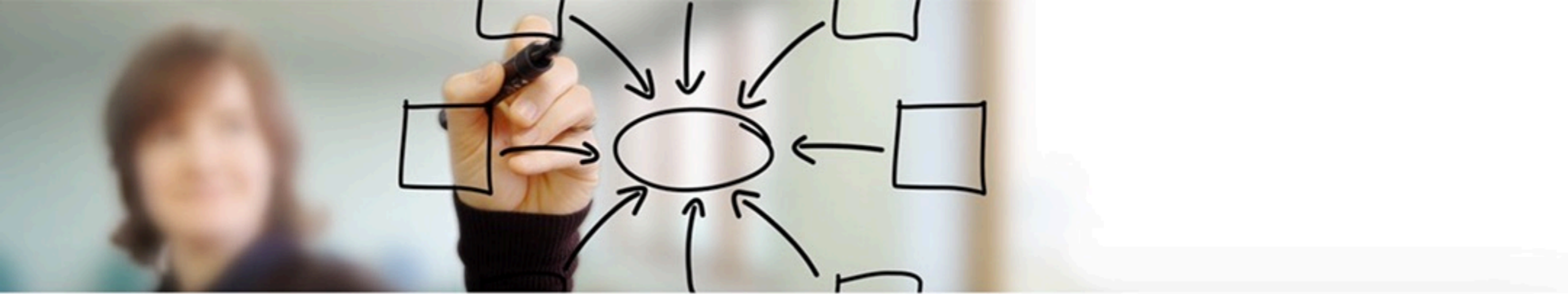


Questions?

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References

Hegarty, B. (2015). Attributes of open pedagogy: A model for using open educational resources. *Education Technology*, 4.

Kimmons, R. (2015). OER quality and adaptation in K-12: Comparing teacher evaluations of copyright-restricted, open, and open/adapted textbooks. *The International Review of Research in Open and Distributed Learning*, 16(5).

UNESCO, 2017, March 27. *What are Open Educational Resources (OERs)?*

Retrieved from <http://www.unesco.org/new/en/communication-and-information/access-to-knowledge/open-educational-resources/what-are-open-educational-resources-oers/>

Wiley, D. 2014, March 5. *The access compromise and the 5th R.* [blog post].

Retrieved from <https://opencontent.org/blog/archives/3221>



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