The Open Opportunity

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Retooling of
Schooling

A profusion of tech has shifted the kinds of educational materials used in the classroom.

Nearly three-quarters of respondents (73%) said they now use open educational resources more than textbooks.

TES Global- 3/9

10% USING OER AS
PRIMARY MATERIALS
TIPPING POINT
for ADOPTION
at 15-20%
K-12 EDUCATORS

OER are teaching, learning, and research resources that reside in the public domain or have been released under an intellectual property license that permits their free use and re-purposing by others.

Open educational resources include full courses, course materials, modules, textbooks, streaming videos, tests, software, and any other tools, materials, or techniques used to support access to knowledge.

PAST EFFORTS

January 1999: The **University of Tübingen** in Germany publishes a video series of its lectures online. This was considered by many to be the first official instance of open educational resources.

November 2003: China Open Resources for Education **(CORE)** is founded in partnership with MIT OpenCourseWare, aiming to provide these resources to hundreds of universities in China.

September 2006: The Khan Academy is launched by MIT graduate **Salman Khan**. This new program made K-12 educational materials in most subjects available for free to any student in the world.

May 2007: Apple unveils **iTunes U**, a service originally created to organize and distribute educational audio, video, and PDF content for college students. The service was later expanded to include K-12 materials.

March 2009: YouTube launches **YouTube EDU**, a free channel that organizes premium educational materials from hundreds of colleges, universities, professors, and thought leaders.

August 2009: Governor Arnold Schwarzenegger approves **California's Free Digital Textbook Initiative** to provide access to digital high-school level textbooks.

September 2010: Stanford University offers a set of free online courses that draw more than **350,000 enrollments** around the world.

April 2011: Bangladesh becomes the first country to digitize a **complete set of textbooks** for grades 1-12.

March 2012: TED Ed launches in an effort to bring **top-quality educational videos** from the world's top teachers to the masses, free of charge.

Why OER for You?

DEMOCRATIZED INFORMATION

BROADENED THE PROVIDERS

SCALE PLATEAUED

WILD WEST of SHARING

OER Intelligence Report- 2013

https://vimeo.com/43401199

edutopia

EDUTOPIA- OER

BARRIERS

TIME

DESIRE

ABILITY

How could OER positively impact instructional deisgn?

OFFICE OF
Educational Technology

FACT SHEET

Openly licensed educational resources can increase equity by providing all students, regardless of zip code, access to high quality learning materials that have the most up-to-date and relevant content.

Secretary John King

Increase Equity -

All students have access to high quality learning materials that have the most up-to-date and relevant content because openly licensed educational resources can be freely distributed to anyone.

Save Money -

Switching to educational materials that are openly licensed enables schools to repurpose funding spent on static textbooks for other pressing needs, such as investing in the transition to digital learning.

Keep Content Relevant and High Quality.

Traditional textbooks are perpetually outdated, forcing districts to re-invest significant portions of their budgets on replacing them. The terms of use of openly licensed educational resources allows educators to maintain the quality and relevance of their materials through continuous updates.

Empower Teachers -

Openly licensed educational resources empower teachers as creative professionals by giving them the ability to adapt and customize learning materials to meet the needs of their students without breaking copyright laws.

Openly licensed educational resources support teachers as creative professionals by giving them the ability to adapt and customize learning materials to meet the needs of their students without breaking copyright laws.

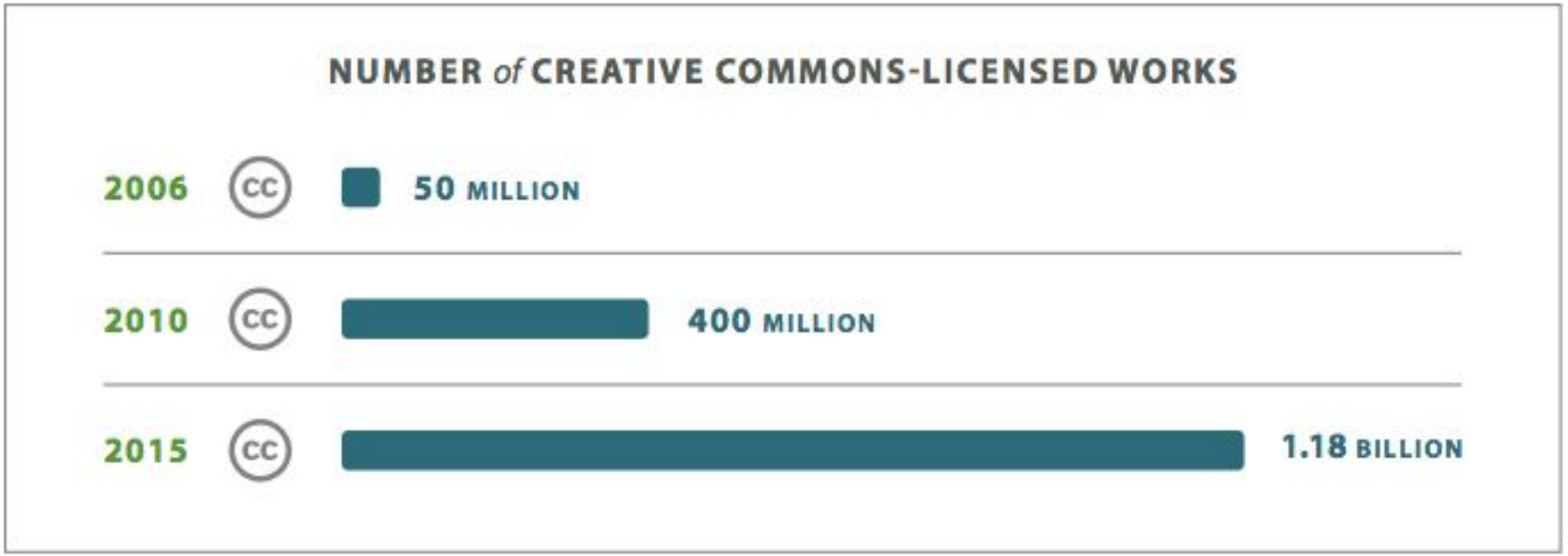
Richard Culatta

#GoOpen Launch Districts

learning
registry

sharing what we know

Creative Commons and OER


NUMBER of CREATIVE COMMONS-LICENSED WORKS
2006
50 MILLION
2010
400 MILLION
2015
1.18 BILLION

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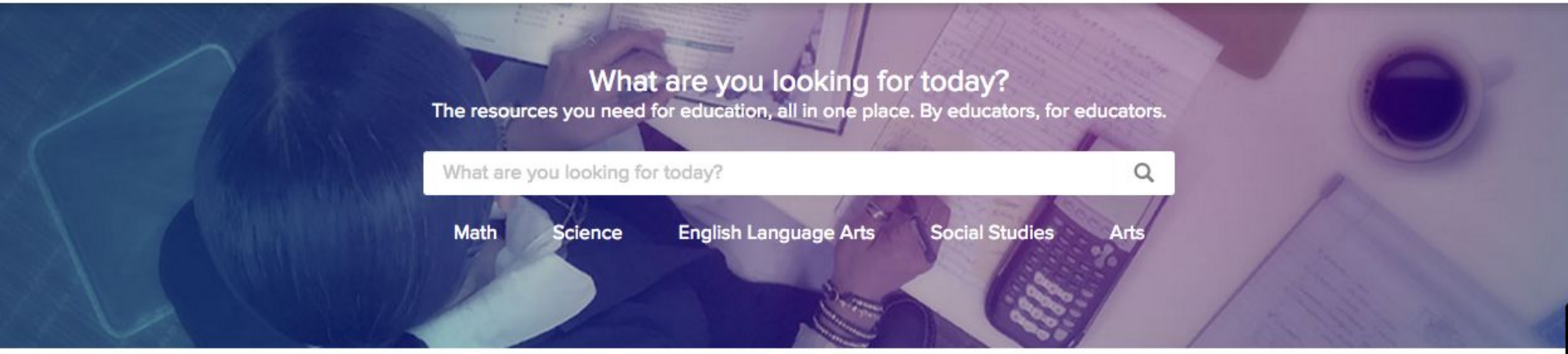


Discover

Search by subjects, grade levels, resource types, publishers, and standards.

Collect

Get instant access to the resources you want to use. It's fast and easy.

Share

Upload your resources. Rate the quality of what's here. Tell us what you think.

amazon inspire Beta

Math

My Content

Upload

61 results for "Math"

Refine by

Grade

Clear

- Kindergarten (8)
- Grade 1 (17)
- Grade 2 (19)
- Grade 3 (25)
- Grade 4 (24)
- Grade 5 (17)
- Grade 6 (22)
- Grade 7 (20)
- Grade 8 (19)
- Grade 9 (13)
- Grade 10 (12)
- Grade 11 (11)
- Grade 12 (10)
- Not Grade Specific (11)

Subject

Document

Math Vocabulary Wizard: Expert Examples (with Canva)

Monica Burns

Not Rated

ACHIEVABLES ● Students will apply a math term to the real world. ● Students will identify visuals that represent the definition of a math

Grades: 6, 7, 8, 9, 10, 11, 12

Subjects: Math

Standards: CCSS / MP.3, CCSS / MP.4

Resource Types: Instruction

Document

TenMarks Math Madness

Becky Snyder

Not Rated

Step by step description how to set Tenmarks Math Madness goals for your class.

Grades: Not Grade Specific

Subjects: Math

Resource Types: Instruction

Standards
Clear
CCSS (32)

Resource Type
Clear
- [ ] Assessment (10)
- [ ] Classroom/School Management (2)
- [ ] Instruction (35)
- [ ] Professional Development (2)

Time to Complete
Clear

Content Format
Clear
- [ ] Document (50)
- [ ] Image (2)
- [ ] Online Resource (5)
- [ ] Video (4)

Rating
Clear
★★★★☆ & Up (14)
★★★☆☆ & Up (16)
★★☆☆☆ & Up (16)
★☆☆☆☆ & Up (16)

Document

Subjects: Math

Document

Prerequisites for Math Standards
Katherine Kayastha

Not Rated

Using the prerequisites from TenMarks Math Teach, a list for 1st grade through Algebra of prerequisite skills for various math standards.

Grades: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
Subjects: Math

Document

Who needs math?
Rebecca Frase

★★★☆☆ (1)

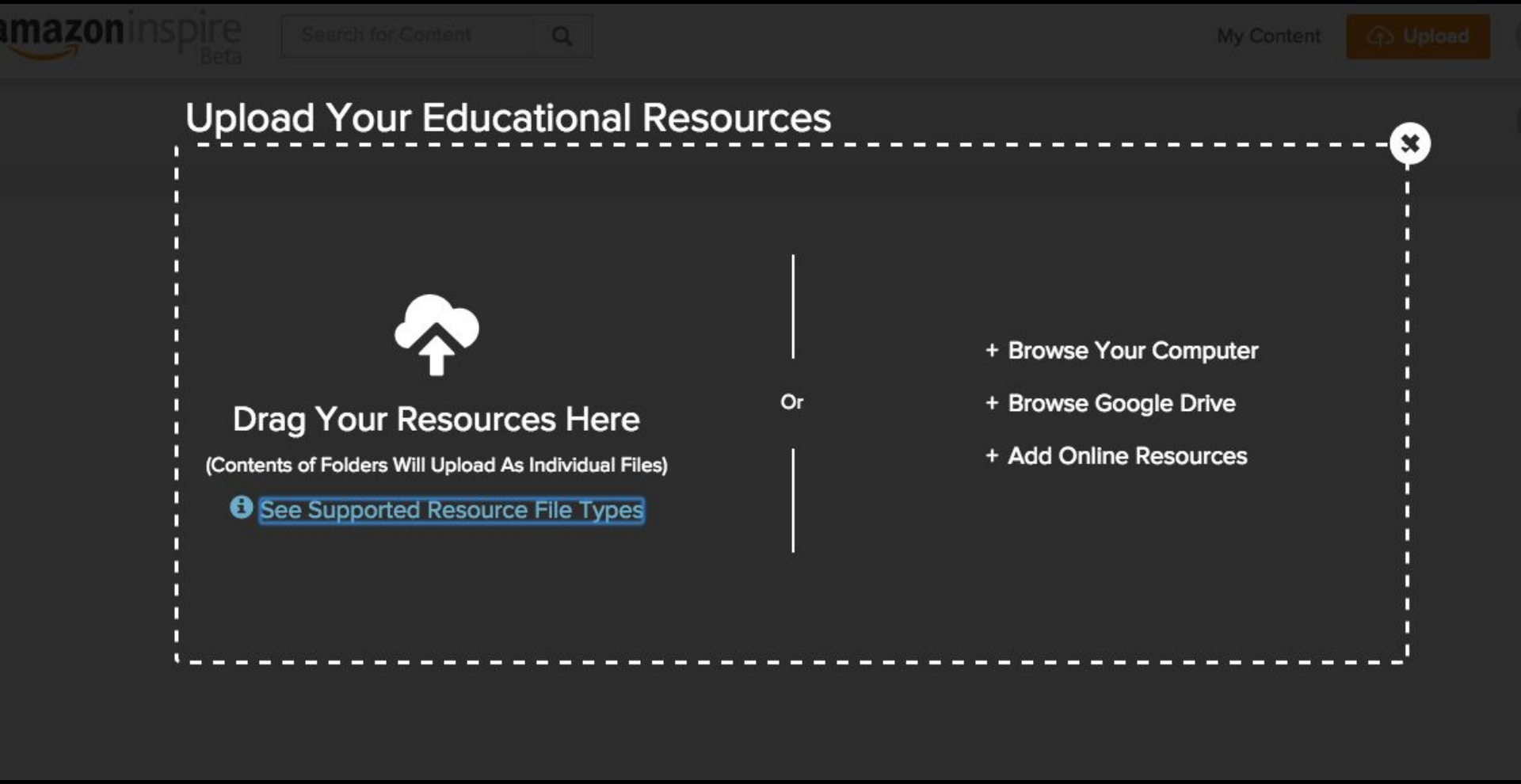
All students to research careers that use math everyday. Have them present their unique career and show how math is useful.

Grades: 5, 6, 7, Not Grade Specific **Standards:** CCSS / RI.6.7
Subjects: Math **Resource Types:** Instruction

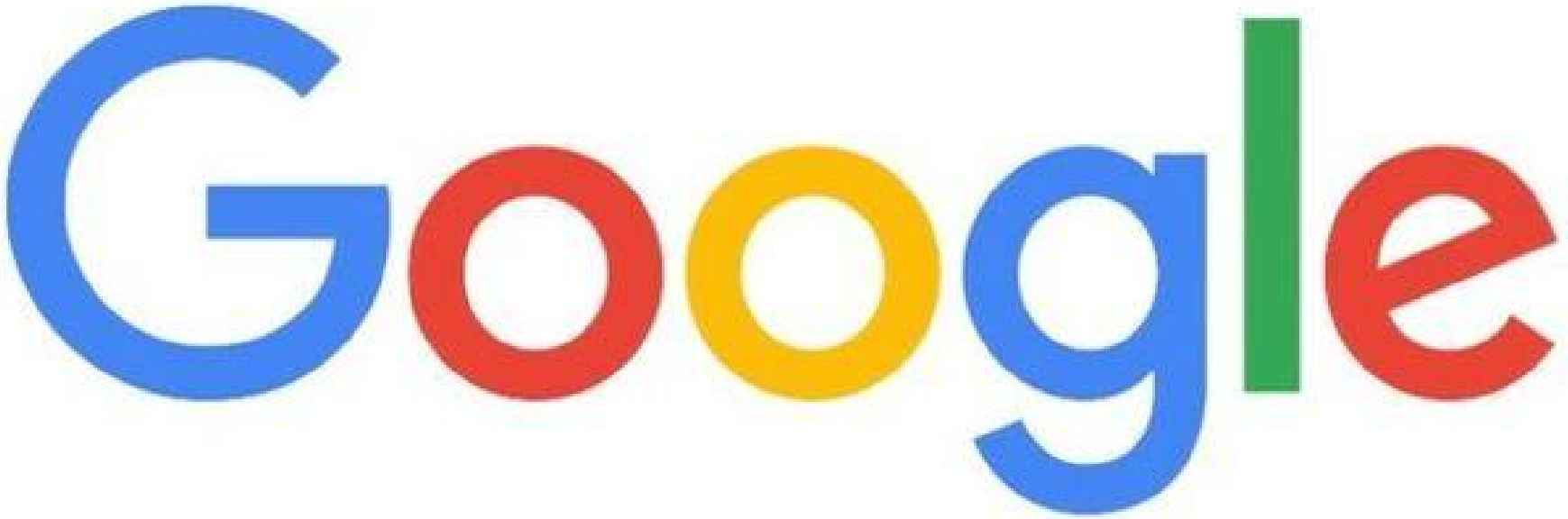
With Math I Can - Growth Mindset Page
Jill Florant

Not Rated

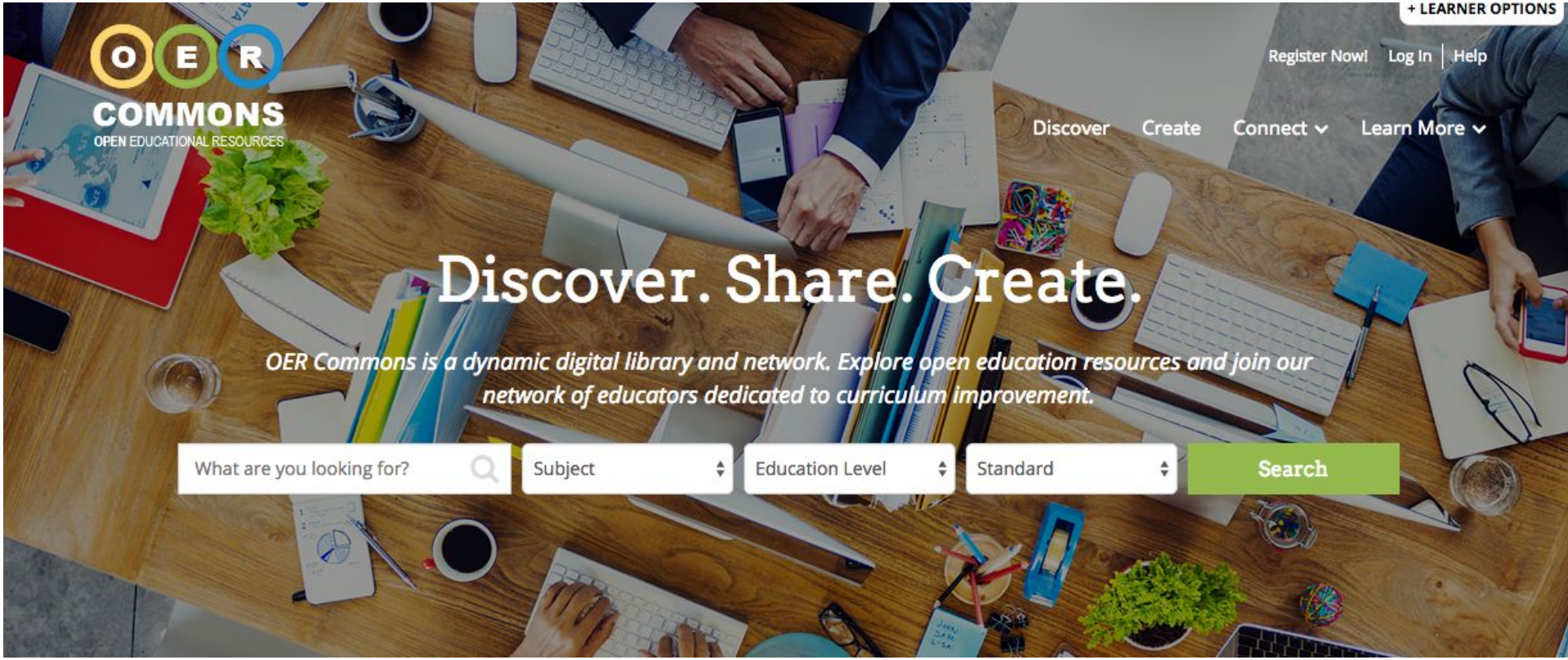
Take the With Math I Can growth mindset pledge and access worksheets, lesson plans and other growth mindset ...


amazoninspire
Beta
Search for Content
My Content
Upload
Upload Your Educational Resources
Drag Your Resources Here
(Contents of Folders Will Upload As Individual Files)
See Supported Resource File Types
Or
+ Browse Your Computer
+ Browse Google Drive
+ Add Online Resources

Microsoft


Google

edmodo


+ LEARNER OPTIONS
OER
COMMONS
OPEN EDUCATIONAL RESOURCES
Register Now!
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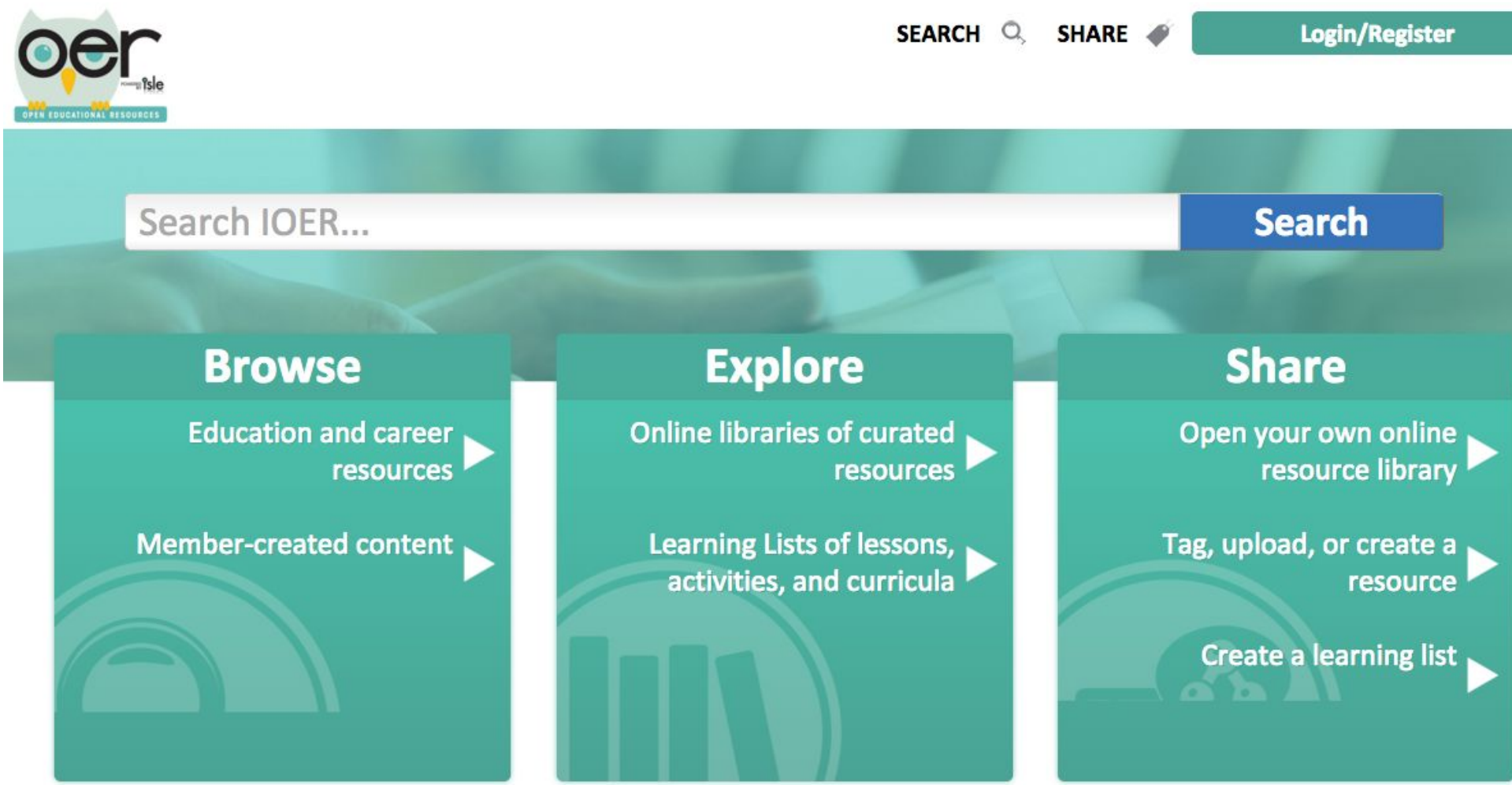
Help
Discover
Create
Connect
Learn More
Discover. Share. Create.
OER Commons is a dynamic digital library and network. Explore open education resources and join our network of educators dedicated to curriculum improvement.
What are you looking for?
Subject
Education Level
Standard
Search

OER Commons



Illinois OER

PARTICIPATE

LEARNING

Find. Connect. Collaborate.

NEW! Check out our new Participate Chats ™ for Twitter

See a list of chat participants and collect resources in realtime

Search our extensive database of resources and collections

I'm looking for...

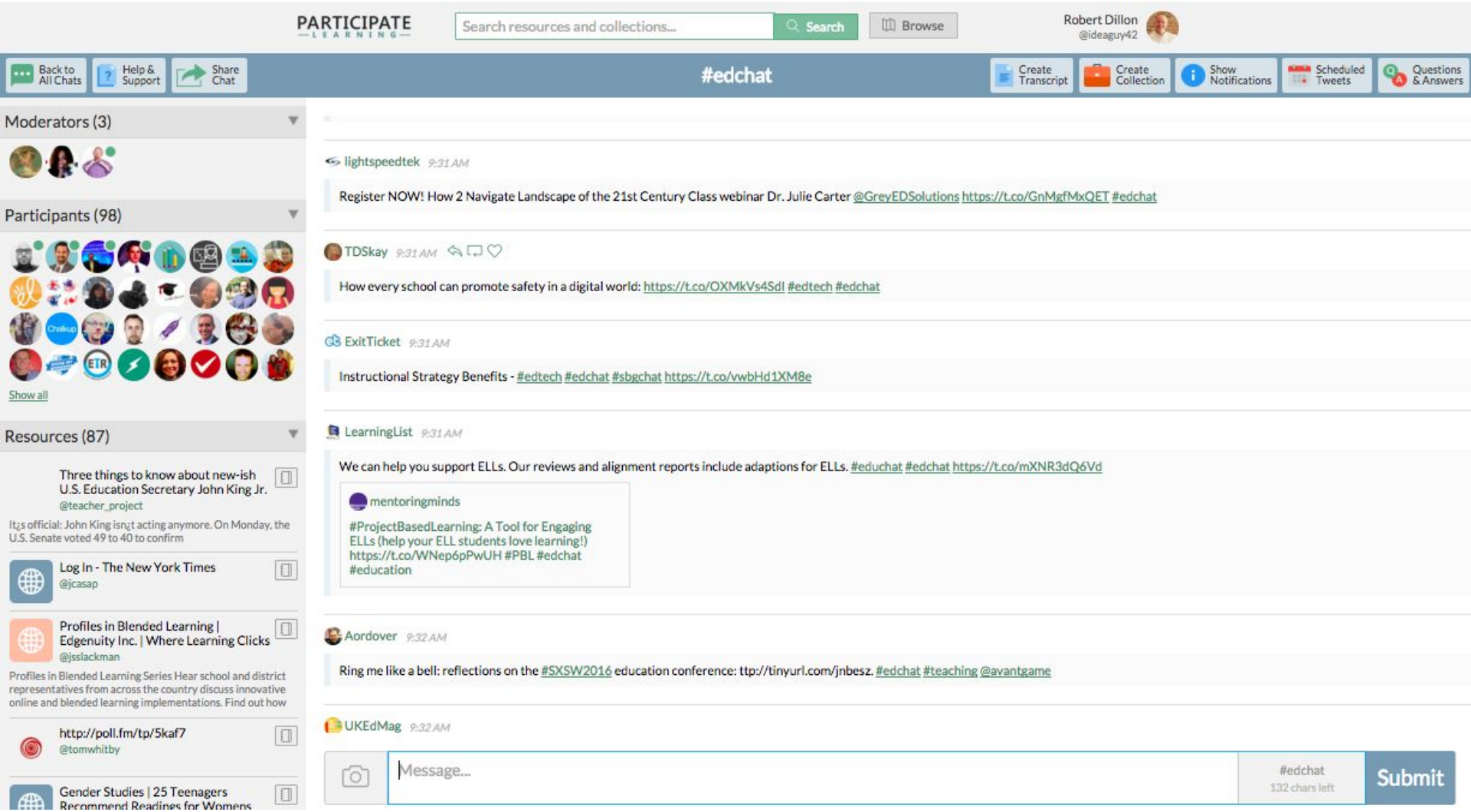
Search

Browse resources by collection, grade, category, and common core

https://www.participatelearning.com/chats

Grade Levels			
Common Core	Pre-K	4th Grade	9th Grade
Art	Kindergarten	5th Grade	10th Grade
Creative Expression	1st Grade	6th Grade	11th Grade
English Language Arts	2nd Grade	7th Grade	12th Grade
Mathematics	3rd Grade	8th Grade	
Productivity			
Science			
Social Studies			
World Languages			

View all collections...



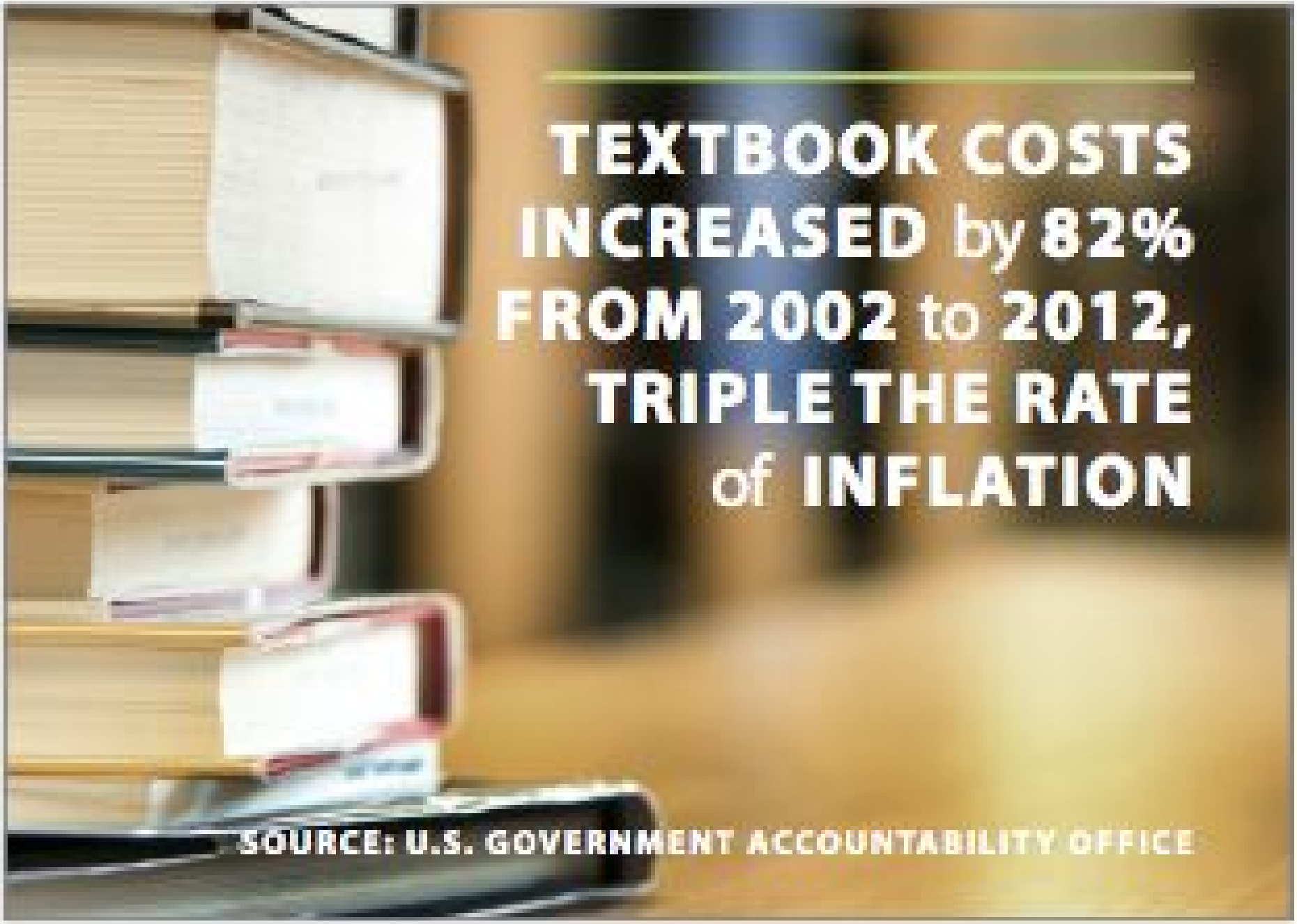
Participate Chats

BARRIERS

QUALITY

SHARING at SCALE

CORE


TEXTBOOK COSTS
INCREASED by 82%
FROM 2002 to 2012,
TRIPLE THE RATE
of INFLATION
SOURCE: U.S. GOVERNMENT ACCOUNTABILITY OFFICE

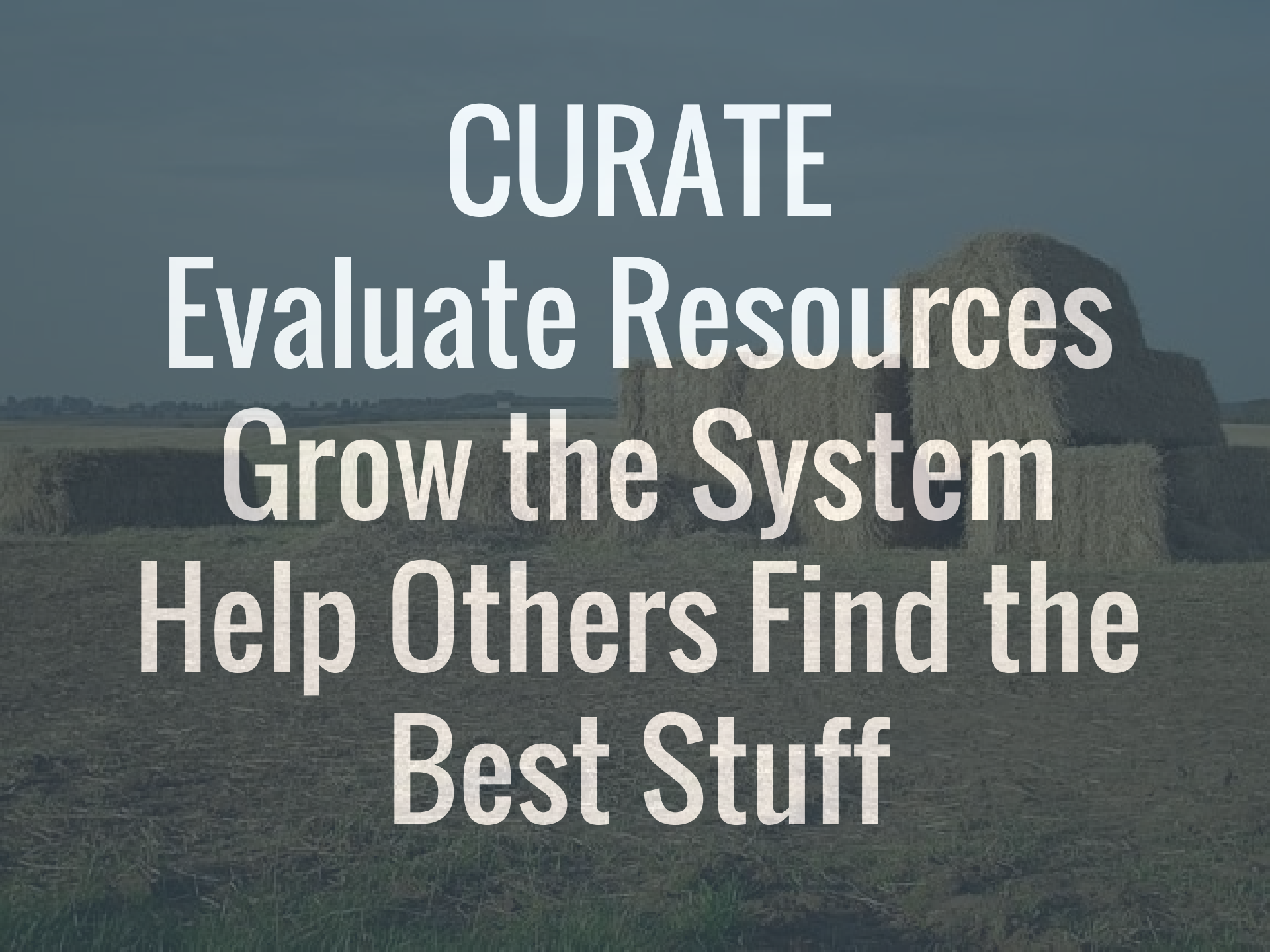
CONSUME

CONSUME
Platform Access
Search, Grab, Go
Easier Search

CONTRIBUTE

CONTRIBUTE
Upload
Sharing
Feel Reciprocity

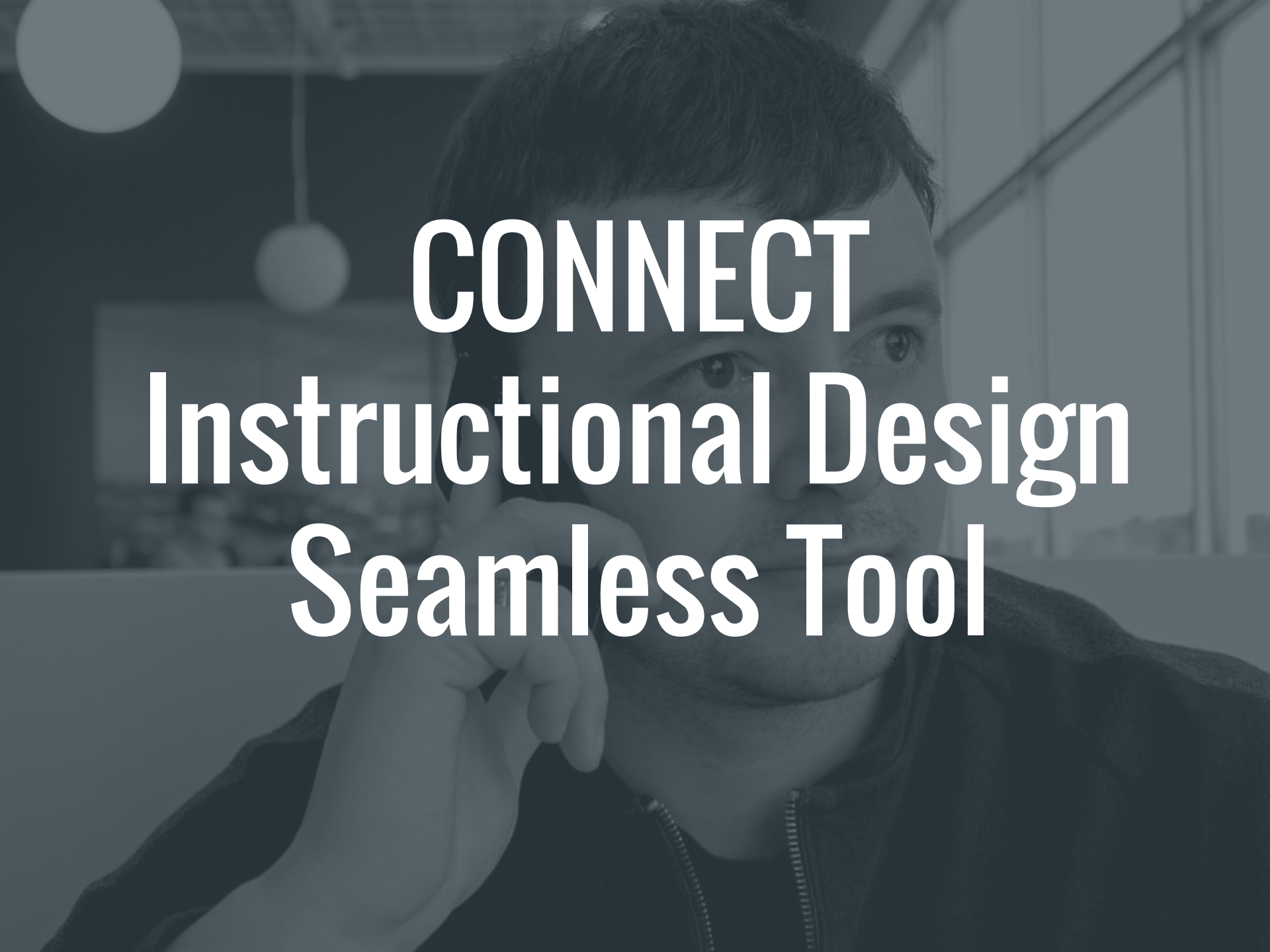
CURATE


CURATE
Evaluate Resources
Grow the System
Help Others Find the
Best Stuff

COMMUNITY

COMMUNITY
Grow their PLN
Feels Like Their Go to Place

CONNECT


CONNECT
Instructional Design
Seamless Tool

How Could You Create the Conditions for OER Success?

OPPORTUNITIES

Almost all school desire this move. Many are looking for support, guidance, and time. Innovative schools are bouncing ahead, but all schools want quality resources with a lower price tag.

PARTNERSHIPS

OER is collaborative work. It would make sense to pursue multiple, fluid partnership that exist over short and long-term projects. Educators in OER will lean toward organizations embracing the ethos of OER in other ways.

PITFALLS

The Office of Education Technology could take a new shape with election. In addition, many folks in the office are currently moving on. The momentum of this work can't rely on them. They recognize this as well.

The Open Opportunity

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2015 Hewlett Report on OER