ISKME

Institute for the Study of
Knowledge Management
in Education

Shift from subject-centered to student-centered education

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Every student deserves the highly effective, engaging, and equitable education needed to reach their full and unique potential.

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Tracking the Shift

Subject-Centered

- Subject-based
- Standardized teaching
- One size fits all
- Proprietary Curriculum

Student-Centered

- Interdisciplinary
- Competency based
- Personalized learning
- Open Educational Resources (OER)

Competency Based Education

THE COMPETENCY-BASED EDUCATION MODEL

Competency-based education measures learning by demonstrated mastery of learning objectives. These objectives are created as modules, which contain the compentencies, suggested resources for obtaining the objective, guidance and feedback from a mentor or facilitator and some type of formative assessment.

Examples of Personalized Learning

Adaptability of resources

- Address specific (un)finished learning
- In-the-moment adjustments

Empowering students

- Offer choices/ pathways
- Variable pacing
- Opportunities to go deeper

Keeping them engaged

- Modifying materials to include personal/ cultural relevance
- Tailoring to interest
- Supporting inquiry, authentic learning tasks

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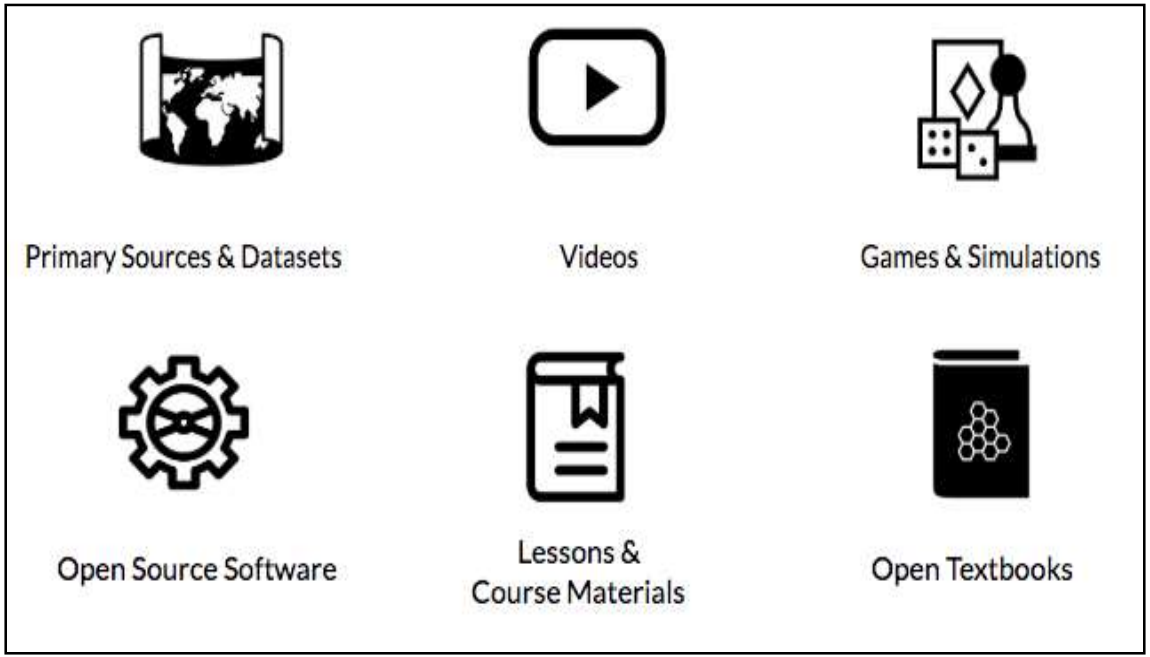
Defining Open Educational Resources (OER)

- Teaching and learning resources that are free and available to anyone.
- Published under a license that allows them be used, adapted, distributed, and personalized to best meet a learner's needs.



Using OER creates a shift in teaching practice and opportunities to meet instructional goals by vetting, curating for, and modifying material approaches personalized to student needs and interests

Open Educational Resources (OER): Brief History and Efforts

UNESCO defined the term OER (2002)

Cape Town Open Education Declaration encouraged a set of strategies around building awareness of OER, creating the OER tools, and OER policy to promote the use of OER (2007)

The Paris OER Declaration provided a series of recommendations to educational stakeholders and encouraged governments to open license educational materials that are financed through public funds. (2014)

2nd World OER Congress in Slovenia - OER for Inclusive and Equitable Quality Education: From Commitment to Action (2017)

How OER Supports Student-Centered Learning

- Equitable access so that all educators have the resources and knowledge they need to support learners
- Adaptability so that practitioners and learners can personalize and fit content to local contexts
- Collaborative opportunities for educators to create, evaluate and share relevant and engaging learning experiences
- Building and scaling systems and educator investment around continuous improvement and innovation

By Educators, For Educators

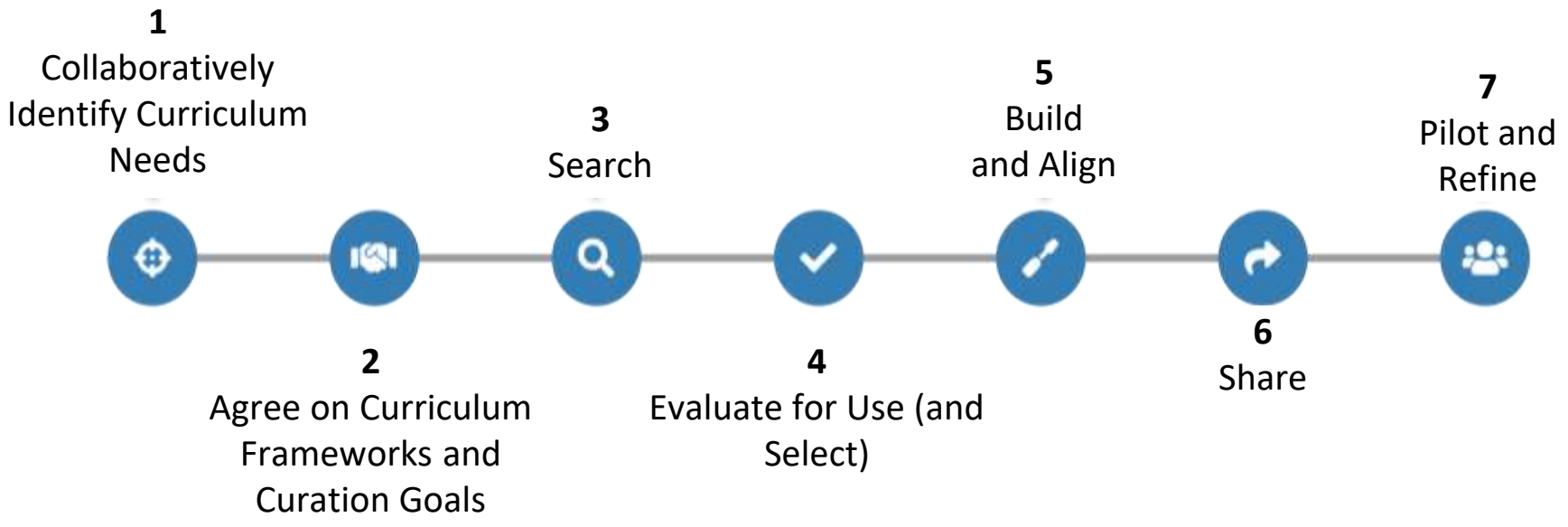
OER Commons, Digital Public Library Since 2007
https://www.oercommons.org

How Open Educational Practices Address Student-Centered Learning

- **Collaboration:** educators with diverse expertise connect to focus on learner needs, brainstorm innovative ideas, contribute resources and best practices, reflect and share successes and challenges with the global community
- **Curation:** practitioners identify, evaluate, and organize a rich array of resources, beyond traditional static curriculum, to meet learning goals
- **Design:** personalized learning and continuous improvement of curriculum is enabled by utilizing digital authoring and planning tools to think deeply about how to meet the unique needs of our learners, and reflect and refine resources

What Does OER Curation Look Like?

Example Workflow from ISKME's research



Examples of OER Policy

- Commonwealth of Learning reported that 55% of the 105 countries who completed a recent survey said there had been increased support for OER policies in the last 5 years.
- Though only 49% thought relevant stakeholders had the necessary skills to access, use and share OER.
- UNESCO Sustainability Development Goal SDG-4, Quality Education
- #GoOpen initiated at the U.S. Department of Education in 2015 has commitments from 20 states and 120 districts to use OER

Next steps for student-centered learning

- Building capacity for education stakeholders to own the transition
- Offering professional and skills development for OER use, re-use, sharing
- Revising materials to have language and culture relevance
- Shifting industry and market towards student-centered materials
- Advocating for supportive policy environments around licensing and procurement policies

What Research on OER Use Shows Us

A few key findings

For Educators

- Using OER increases collaboration among educators around curriculum and instruction
- Using OER increases reflective practice for educators

For Learners

- Using OER increases student interest in the subject, and satisfaction with the learning experience
- Using OER supports students as self-directed learners

Sources: 1) Farrow, R. et al. (2015) Impact of OER Use on Teaching and Learning: Data from OER Research Hub, 2013-2014; 2) Petrides et al. (2014) Community College Open Textbook Project: Opportunities, Challenges, and Implications for Teachers, Learners and the Field at Large

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independent
skills
relevant
capacity
traditional
evolution
strategic
goal
individual
approach
personalized
needs
open
foster
understand
paradigm
context
interests
listening
different
education
student-centered
knowledge
narrow
classroom
society
value
collaboration
thinking
teacher
services
centered
experience
new
cultural
pathways
characteristics

New Education Paradigm: Questions to Ask

- Learning—for what purpose? A specific job, critical thinking, collaboration and communication?
- What changes need to be made to make materials better reflect the demographics of their community?
- How to make education more relevant for today's learners, whether or not they are in formal systems of education?
- Why is education still so inaccessible to so many? How can we be using universal design for learning to change that?