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The OER Project @SHU: 5 Factors Driving Institutional Change

Jaya Kannan
Sacred Heart University

Zachariah Claybaugh
Sacred Heart University, claybaughz@sacredheart.edu

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The OER Project @SHU

5 Factors Driving INSTITUTIONAL CHANGE

by Jaya Kannan and Zach Claybaugh
April 19, 2018

Sacred Heart UNIVERSITY

Sacred Heart University: Quick Facts

- Private institution located in Fairfield, CT
- Total enrollment = 8,500+ students (UG & Grad)
- On-campus and online degree programs
- Dramatic growth over the past 5 years, in enrollment and the university's physical size

The OER Project: Goals

- Increase access to and usage of textbooks in class
- Lower/eliminate textbook costs for students
- Increase faculty control over instructional resources
- Enhance pedagogical practices

The OER Project @ SHU
5 Factors
Driving Change

The 5 Factors

Factor 1- Strategic Action

Factor 2 - Collaborative Network

Factor 3 - Awareness Building

Factor 4 - Pedagogy Focus

Factor 5 - Measuring Impact

1.

Strategic Action

Strategic Action

- Clarity in Vision
- Needs Analysis
- Plan of Action
- Targeting Disciplines w/ potential high-impact
- Funding

Establishing a Baseline: US Higher-Ed

Opening the textbook: Educational Resources in U.S. Higher Education by Babson Survey Research

more than 3,000 full-time and part-time professors

2015-2016:

- only 6.6 percent of faculty members are "very aware" of openly licensed educational resources (textbooks and othe rmaterials)
- about 5 percent of those professors had assigned a free or openly licensed textbook.
- 87% said cost is important, but only 5% assigned free or open text

2016-2017:

the number of faculty members at two- and four-year institutions using OER as textbooks has nearly doubled in the last year -- from 5 percent in 2015-16 to 9 percent in 2016-17.

Awareness of OER is still low.

ZERO COST DEGREE

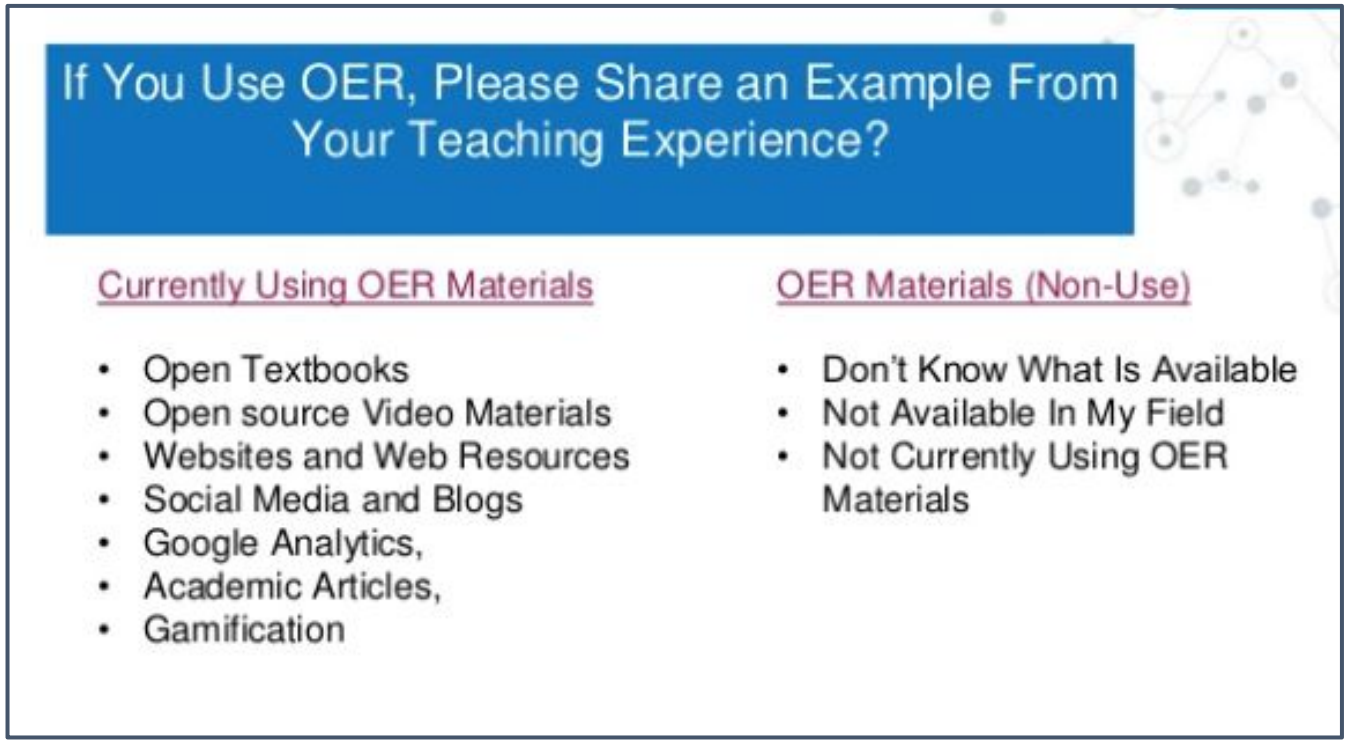
1. University of Maryland University College
2. The Virginia Community College System
3. California Community College system

Establishing a Baseline: at Sacred Heart University

Spring 2016
Faculty Survey Results (144 Reponses)

Faculty knowledge of OER

Didn't know the term OER, but seemed to be using OER in designing their courses and in their teaching



Establishing Baseline: Faculty Perceptions

Faculty Survey Results, 144 respondents

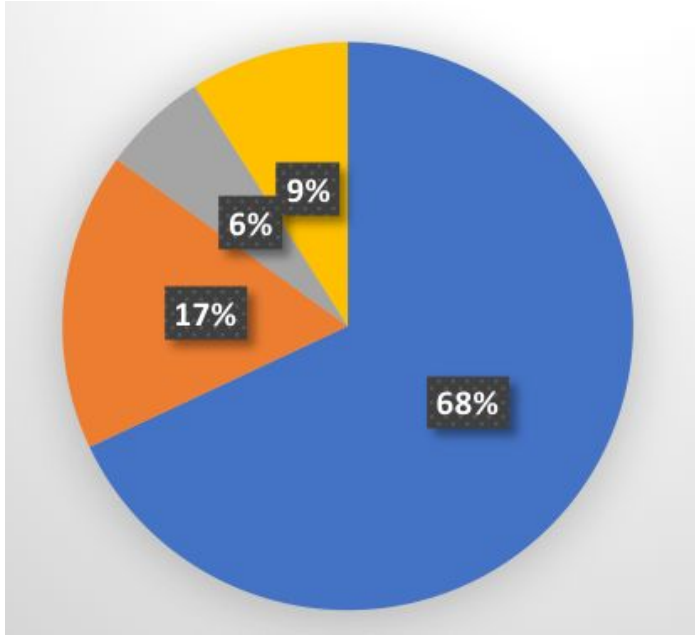
- Cost to students
- Easy to Find
- Recommended by fellow faculty
- works with LMS
- includes supplementary materials
- accessible/editable

When Selecting Required Course Materials, How Important are the following factors in your selection?

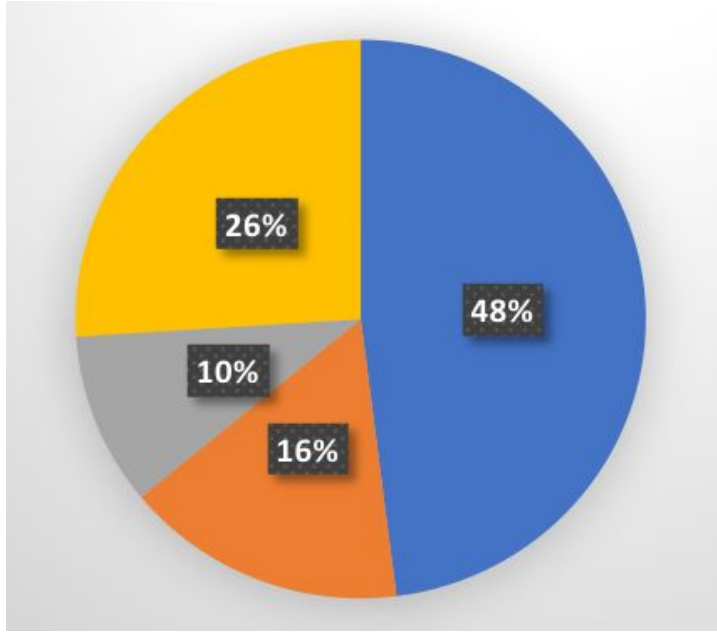
Establishing a Baseline - at Sacred Heart University

Types of Instructional Materials - Faculty Survey Results, 144 respondents

Print Materials



Digital Materials

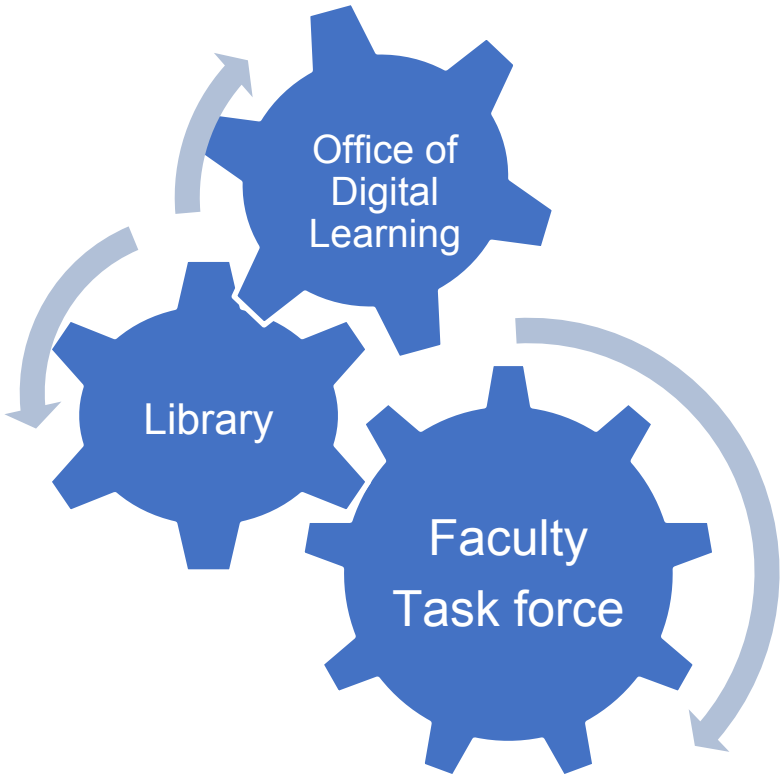


2.

Collaborative Network

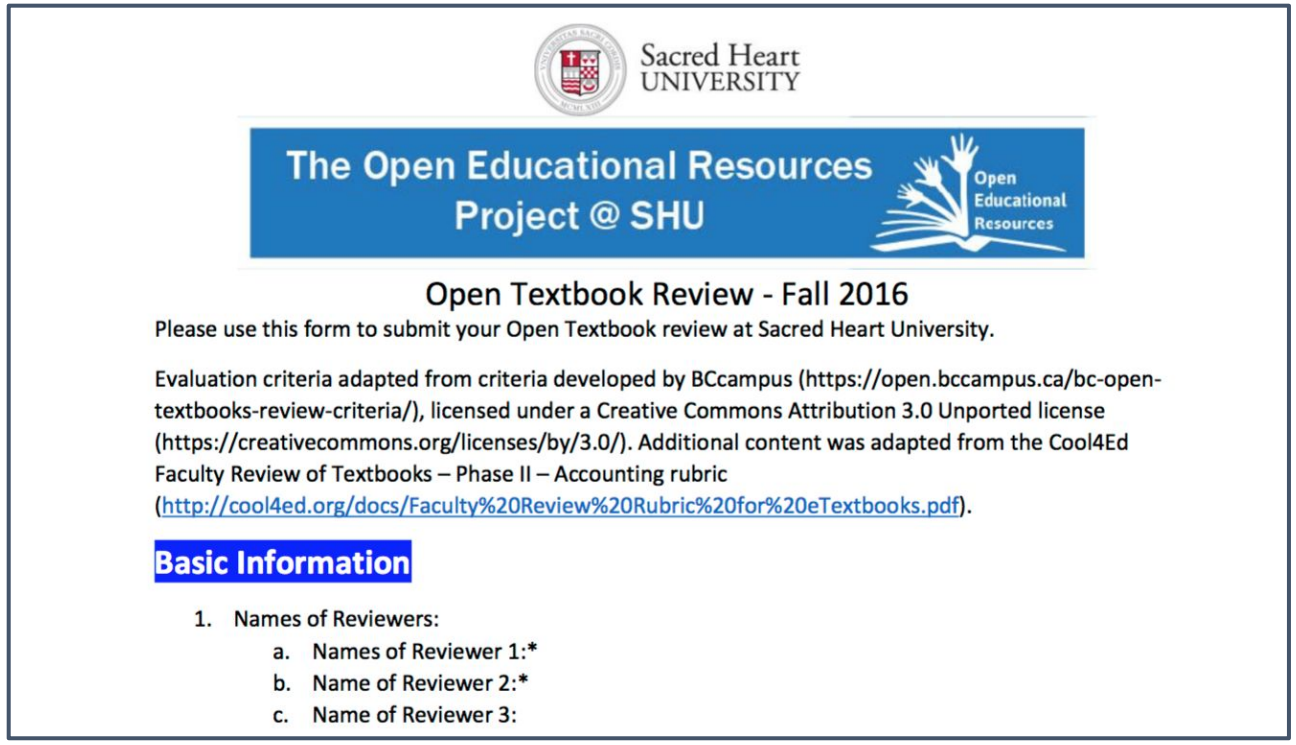
Establishing a Collaborative Network

- Defined roles
- Policies & Procedures
- Deliverables



Policies and Procedures: Open Textbook Review

- Review Criteria
- Online Form
- Communication
- Incentives



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The Open Educational Resources Project @ SHU

Open Educational Resources

Open Textbook Review - Fall 2016

Please use this form to submit your Open Textbook review at Sacred Heart University.

Evaluation criteria adapted from criteria developed by BCcampus (https://open.bccampus.ca/bc-open-textbooks-review-criteria/), licensed under a Creative Commons Attribution 3.0 Unported license (https://creativecommons.org/licenses/by/3.0/). Additional content was adapted from the Cool4Ed Faculty Review of Textbooks – Phase II – Accounting rubric (http://cool4ed.org/docs/Faculty%20Review%20Rubric%20for%20eTextbooks.pdf).

Basic Information

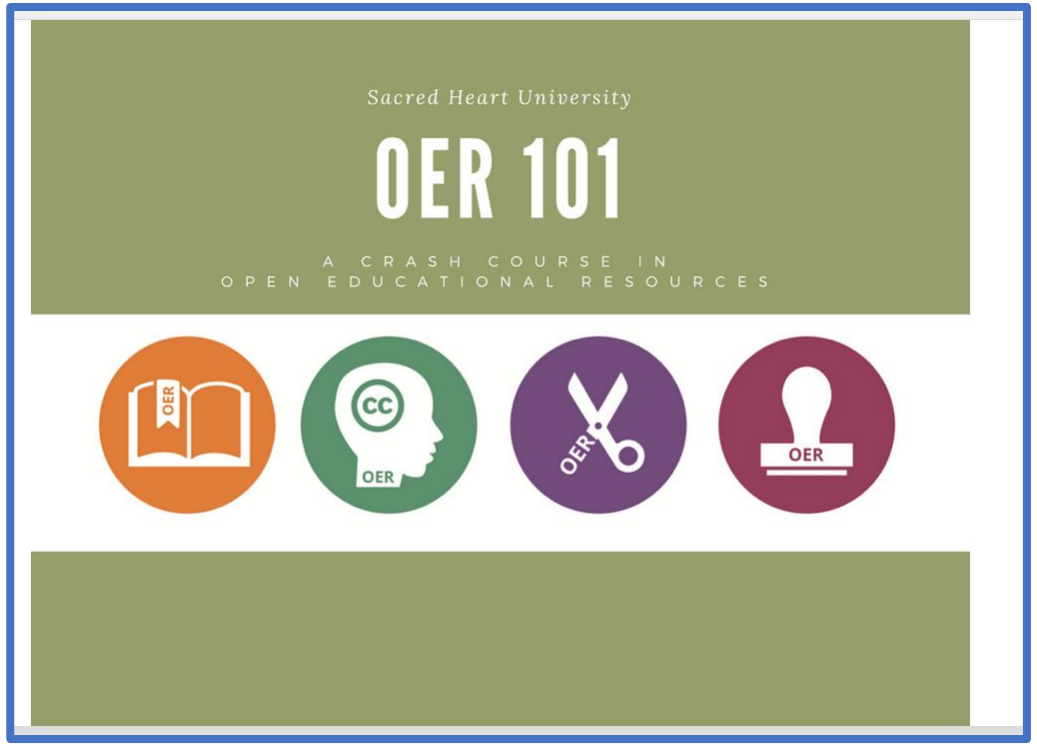
1. Names of Reviewers:
    a. Names of Reviewer 1:*
    b. Name of Reviewer 2:*
    c. Name of Reviewer 3:

3.

Awareness Building

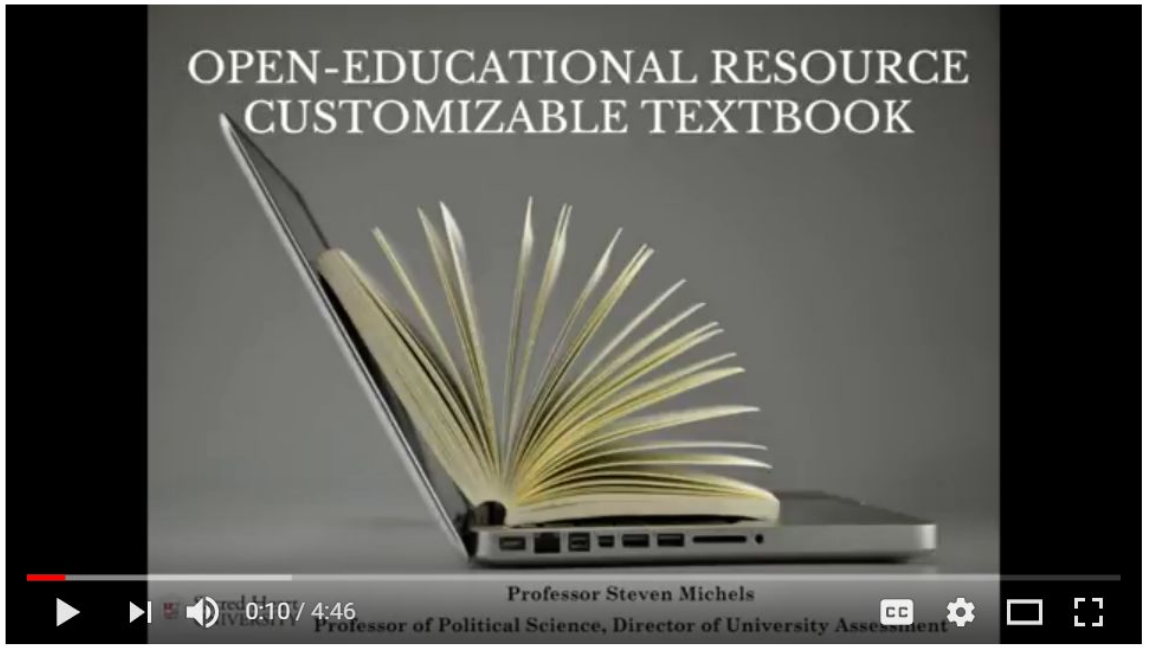
Multi-Pronged Approach

- Webinars
- Workshops
- Consultations
- Panel Discussions
- Summer Institute
- Outreach Materials



Highlighting Innovative Practices: Example from the Faculty

- Open textbook in Political Science published using lulu.com
- Allowed professor to curate his own course content
- Reduced costs for students



OER Customizable Textbook by Prof. Steven Michels

4.

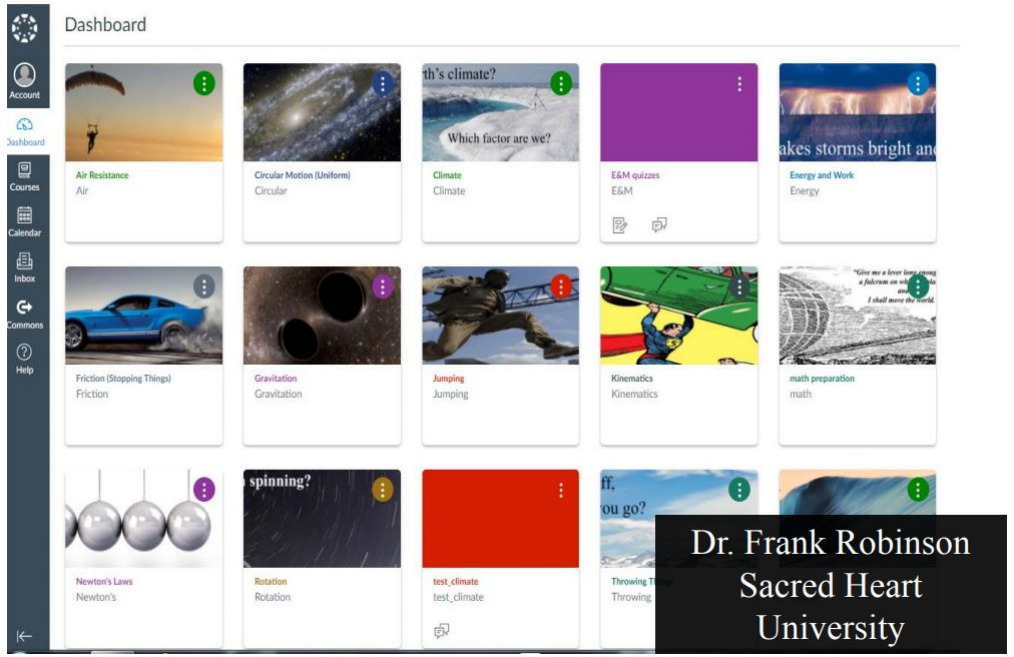
Pedagogy Focus

OER enabled Pedagogy - Examples from the SHU Classroom

Prof. Frank Robinson
Discipline - Physics

- Open text Use
- Course Design
- Innovative Pedagogy
- Open Source on Canvas

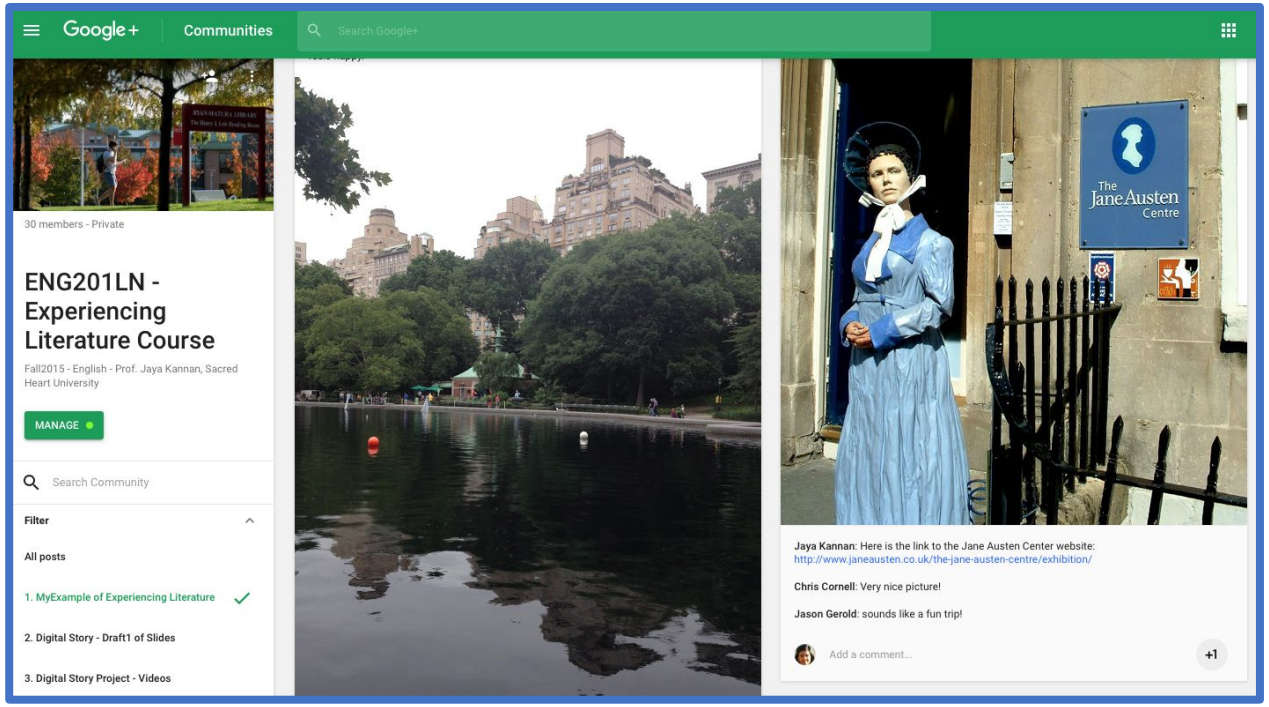
Transforming a Lecture into an OER



OER enabled Pedagogy - Examples from the SHU Classroom

What is meant by Experiencing Literature? – ENG 201

- Open Source Materials
- Creative commons use
- Networked learning
- 21st century skills
- Interactivity using Google+ Communities



5.

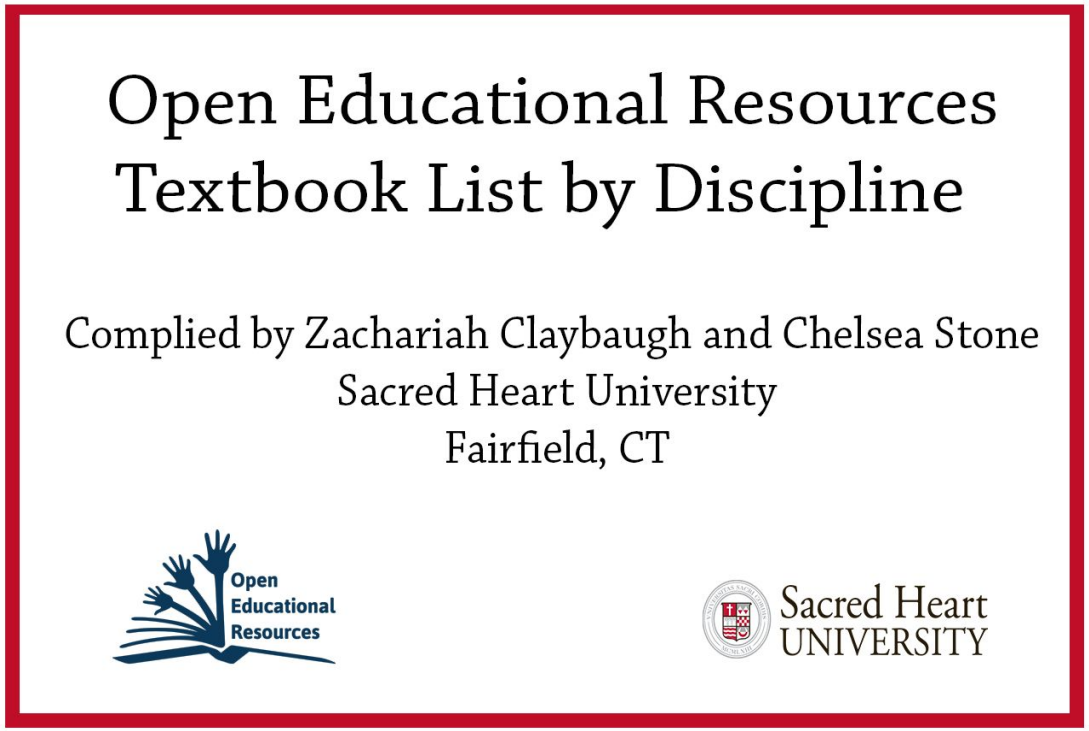
Measuring Impact

Evidence of Impact

Open Textbooks List by Discipline
by Z. Claybaugh & C. Stone

5,300 + downloads between two editions since July 2016

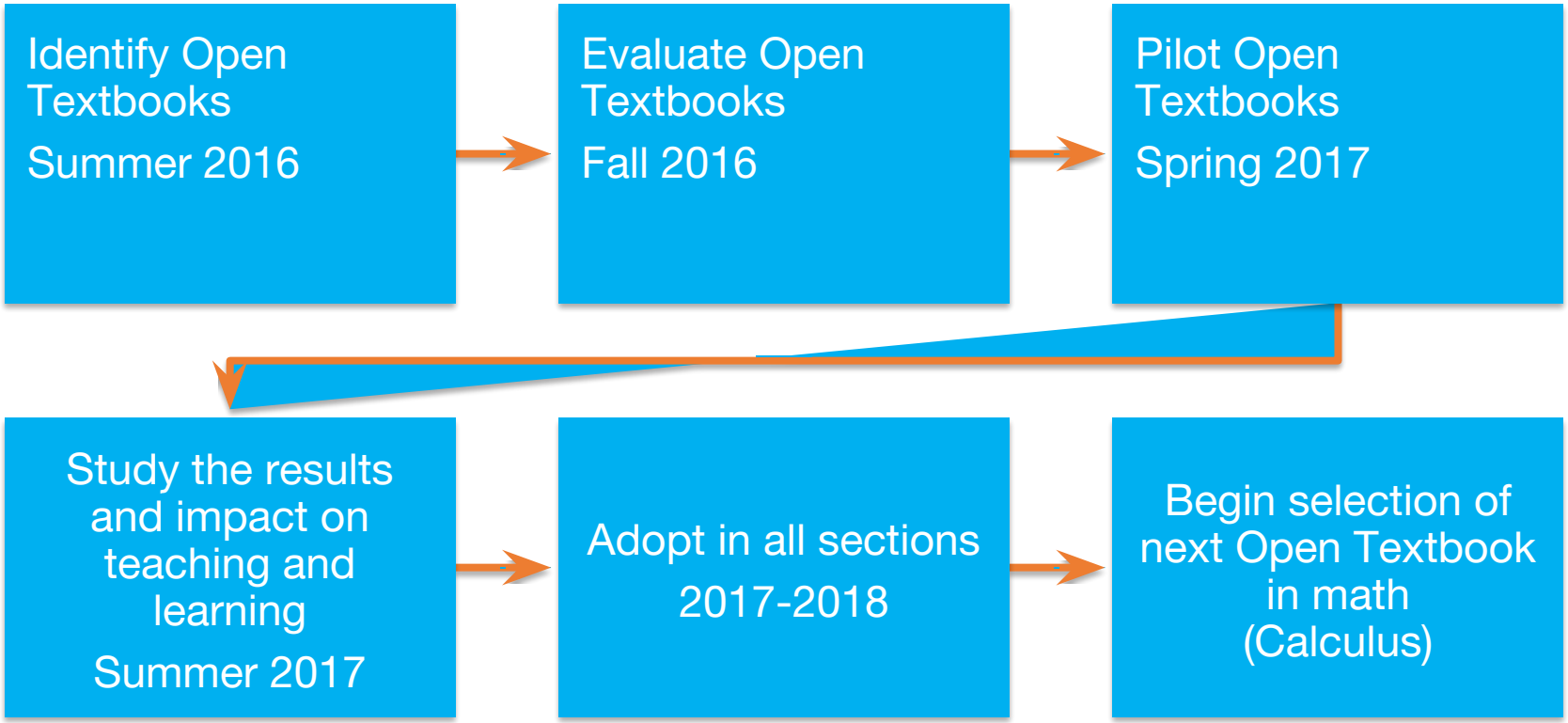
Downloaded by faculty from SHU & users from 20+ countries



Math Case Study

How we applied
factors 1, 2, 3, 4 and 5

Open textbook Adoption Process



Courses - College Algebra and Precalculus

Impact on Student Learning

1. 49% of respondents agreed or strongly agreed that the OpenStax textbooks helped them learn course content*
2. 58% of respondents agreed or strongly agreed that xyzHomework helped them learn course content
3. Preference for the digital versions of the OpenStax texts
    - free
    - convenience
    - accessibility
    - usability

Impact on Teaching

1. Teaching with the open textbook was comparable to or better than teaching with the previous commercial textbook.
2. Use of open textbook enhanced teaching, indicating a need to create supplementary materials and utilize board work more than with the previous textbook
3. Student use of the textbook was comparable or better than usage of the previous text.

Estimated Cost Savings: Spring & Fall 2017

Cost of Commercial Textbook from Spring 2016 (Used)

- MA 106: College Algebra - **$159.25**
- MA 140 Precalculus - **$154.00**

Cost of OpenStax Print Copies (Digital Access is Free)

- MA 106: College Algebra - **$52.00**
- MA 140 Precalculus - **$58.00**

Projected cost for commercial textbook:	$86,136.75
Estimated costs for OpenStax textbook	$4,730.00
Estimated total savings	$81,406.75
Estimated saving per student	**$147.48**

Total of 554 Students

Future Directions

Expanding Open text Adoption

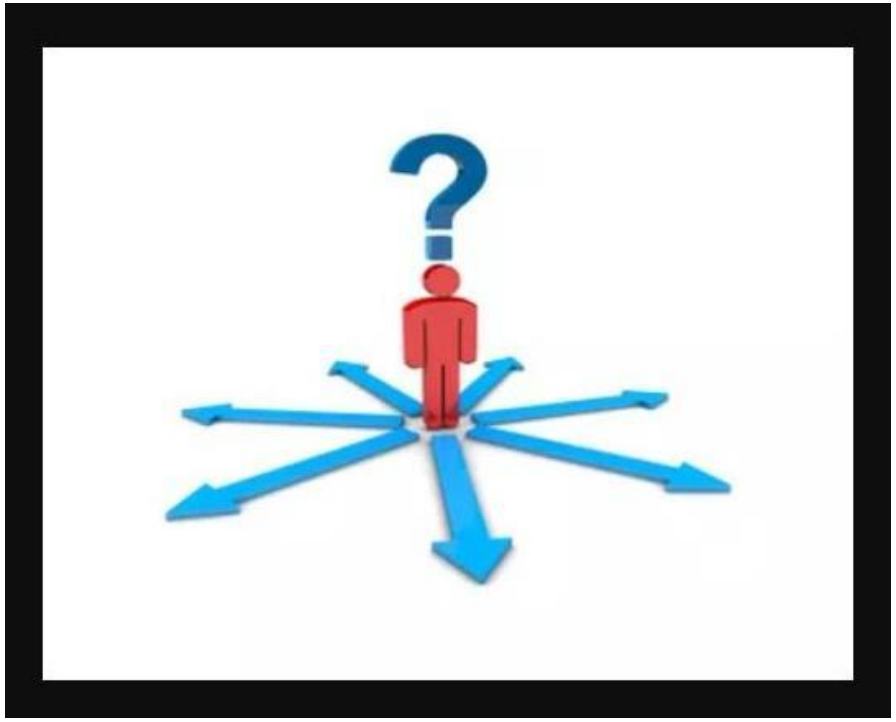
- Media Studies
- Nursing
- Critical Thinking course

Focus on Pedagogical Applications

Grant opportunities for faculty

OER Faculty Fellow

Collaborations at the state level



CREDITS

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- Presentation template by SlidesCarnival
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