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### Open Educational Resources (OER): A Framework for Adoption and Its Impact Assessment on Learning

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# Open Educational Resources (OER): A Framework for Adoption and Its Impact Assessment on Learning

## Short Description

While there's general consensus among many stakeholders in the educational sector about the value and the need to deploy open educational resources (OER) as a potential cure to rising costs of instructional and learning materials, particularly textbooks; little agreement exists on how this noble endeavor should be mainstreamed. This could partly be due to complexities and variations in needs of various institutions as well as departments within the same institutions. In other words, there is a lack of universally accepted taxonomy of OER standards and clearinghouse and/or system dedicated to vetting quality and efficacy of OER. Additionally, not much research has been conducted to ascertain whether the adoption of OER in higher education has indeed transformed learning through creation of efficiencies that enable access to quality and effective learning materials (that improve performance) while lowering costs to learners. Debate on whether to adopt or not adopt OER should move beyond cost considerations as the major driver. Instead the debate has to critically evaluate other key elements, as this is a multifaceted issue.

What are OER? According to Wiley, Green & Soares (2012), OER are educational materials - textbooks, research articles, videos, assessments, simulations - that are either licensed under an open copyright license such as, <u>Creative Commons</u> or in the public domain. In both cases, there is free (no-cost) access to the OER and free (no-cost) permission to engage in the "4R" activities when using the materials, including:

- Revise: adapt and improve the OER so it better meets your needs
- Reuse: use the original or your new version of the OER in a wide range of contexts
- Remix: combine or "mashup" the OER with other OER to produce new materials
- Redistribute: make copies and share the original OER or your new version with others

### The Need

- More effort in terms of research need to be devoted to explore and understand the cost, selection criteria, barriers, benefits and impact of OER on learning and education.
- There is need for a framework that can answer critical questions about OER and its impact on learning.
- Some critical questions that require urgent answers include:
  - o what is the cost and benefit of OER?
  - Has its adoption in higher education transformed learning by creating efficiencies in accessing quality and effective learning materials that improve performance while lowering costs to learners?
  - What are the barriers that hamper the adoption and use of OER
  - What framework can be deployed to aid the use of OER while at the same time helping in assessing its impact?

### **Notable Latest Research Findings**

Allen and Seaman (2014) in their national survey report note that:

- Faculty consistently cite a limited number of criteria for selecting OER. Proven efficacy and trusted quality rank the top at (59.6%) and (50.1%) respectively; while cost, faculty ratings, supplied by the institution raking the lowest at (2.7%), (2.6%), and (2.9%)respectively.
- In terms of OER materials regularly used, the faculty reported that images, videos, video lectures/tutorials and homework exercises were regularly used accounting for (89.3%), (87.8%), (60%), and (55%) respectively. The least likely to be used as reported was slides and class presentations at (8.9%).

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Cover a wide range of subjects

Comprehensive range of materials

o Comparison of OER to Conventional Resources: Faculty reported that OER were superior to traditional resources in terms of cost, ranking of materials, currency of materials, and ease of use (85.7%), (51.3%) and (38%) respectively. Traditional materials were ranked superior to OER in terms of mapping to learning outcomes, trusted quality, range of materials, range of subjects, and wide adoption as seen in the figure below. Moreover, a majority of faculty (57.2%) ranked OER and traditional equal in terms of quality.

Materials are rated Proven efficacy Works with LMS Mapped to arning outcomes Trusted quality

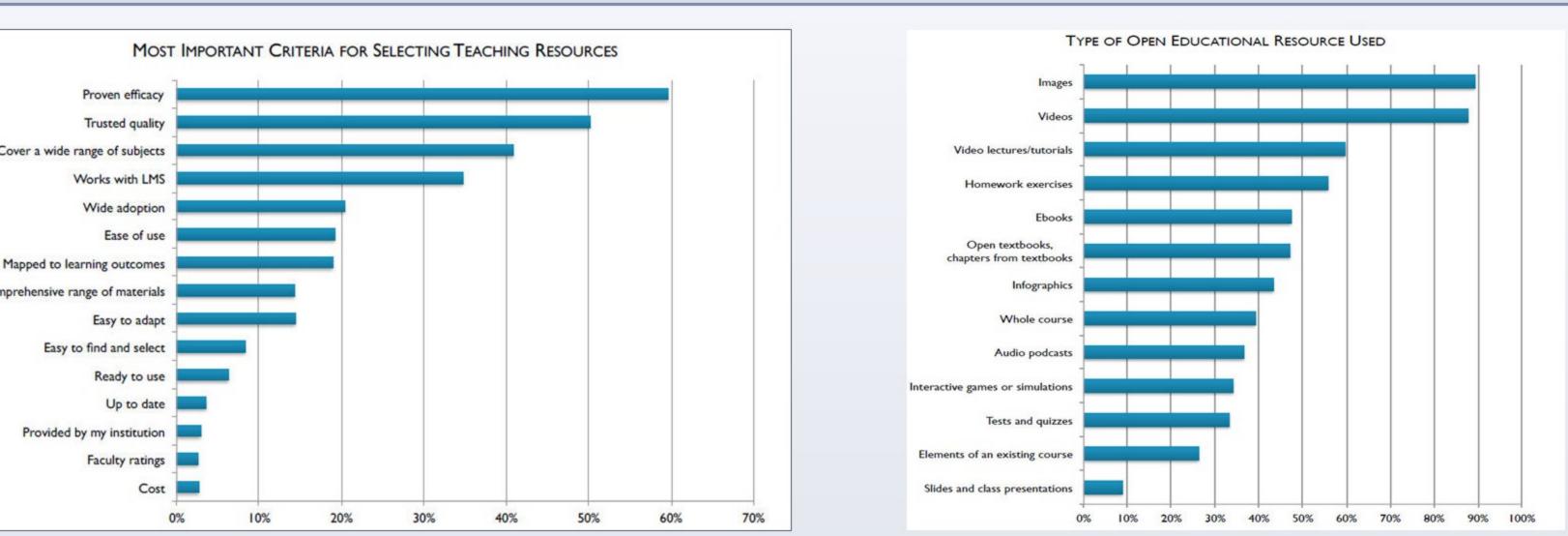
> Range of materials for each subject

To help address the need for OER and barriers limiting its greater use highlighted in this poster; as well as move forward the debate on how best to mainstream OER, the following model is being proposed as a starting point for Franklin University. The model will serve to raise awareness as different stakeholders at the university work together to pilot and launch new ways of using and mainstreaming of OER in teaching and learning. In addition, the model will serve to unify and advance the disconnected pockets of OER use at the institution.

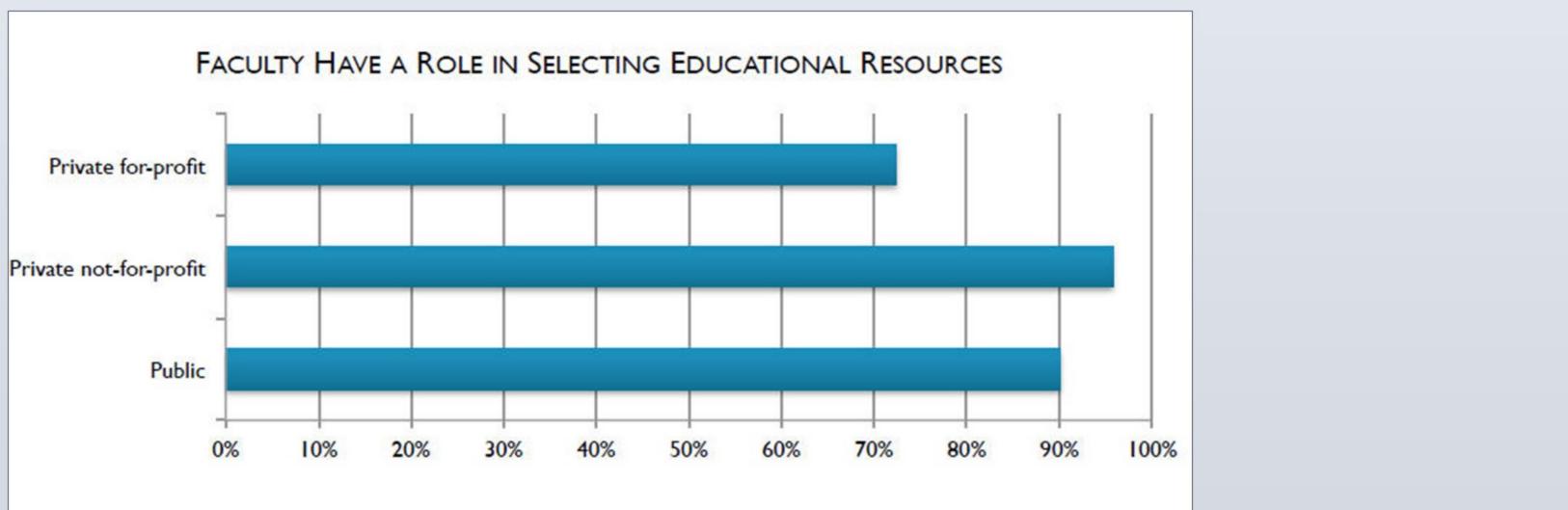
The International Institute for Innovative Instruction (i4) will be the key player driving the adoption and use of OER in course design as well as assuring high quality resources are used, propose relevant policies and standard to advance mainstreaming of OER, encourage research on OER, and undertake opportunistic innovation in the use of OER. The university administration, IT, and the library will be critical in providing all needed relevant support to advance the use of OER while the departments, colleges, and Ohio National University will be the launching pad of OER at Franklin University (See the model).

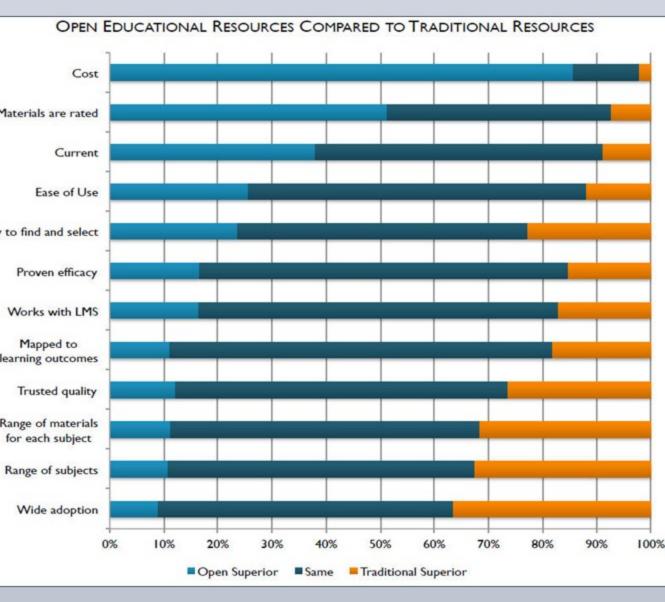
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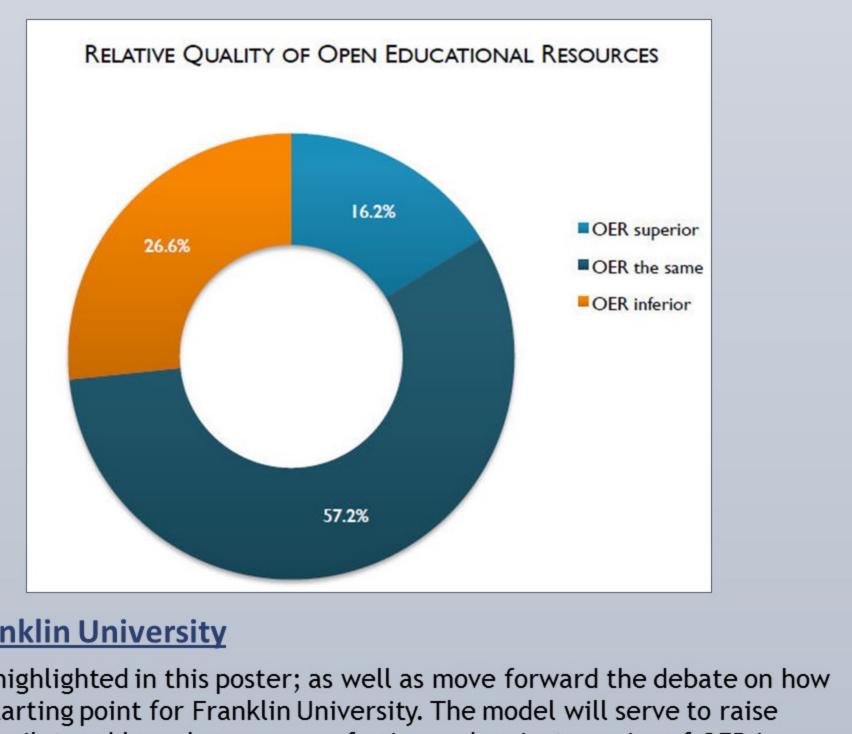
# Prepared for Franklin University Learning Showcase, October 07, 2016



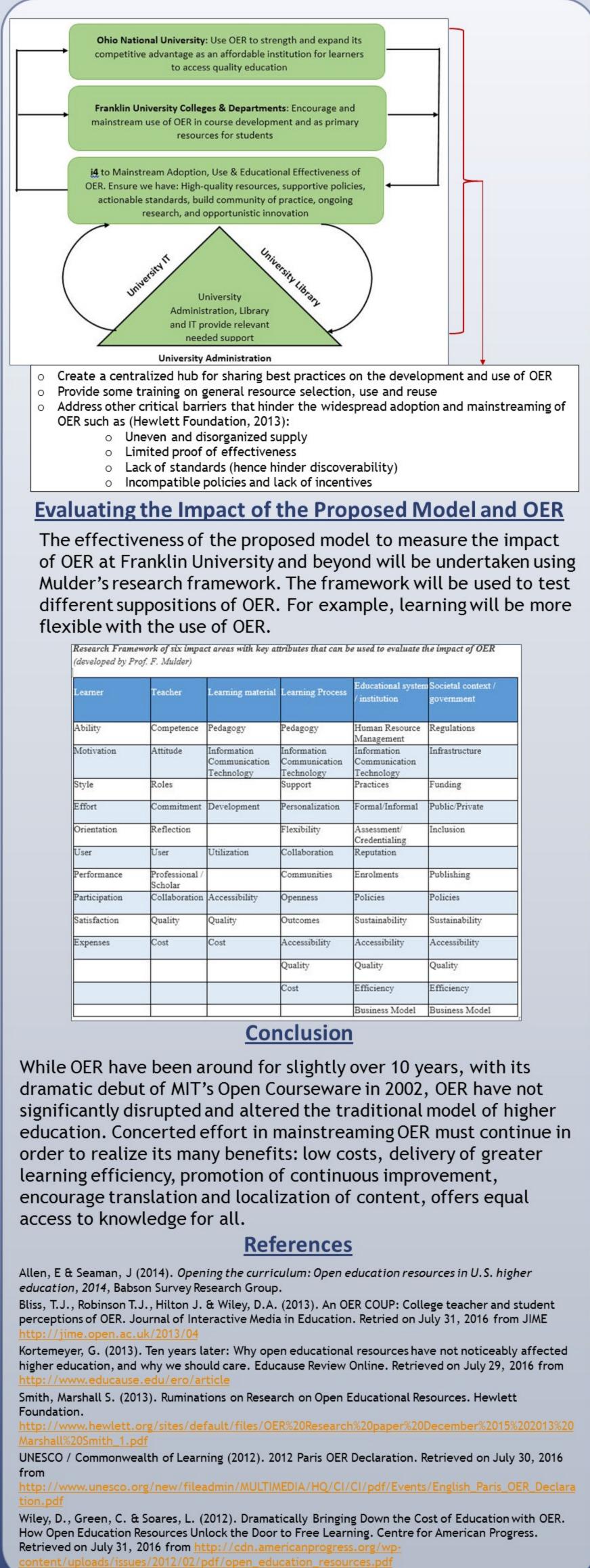
o It's interesting to see the differing roles faculty have in selecting OER based on institution type. Faculty decision role is lowest in private forprofit as compared to private not-for-profit and public with (72.5%), (95.8%), and (90.1%).







# Mainstreaming OER At Franklin University



Learner	Teacher	Learning material	Learning Process	Educational system / institution	Societal contex government
Ability	Competence	Pedagogy	Pedagogy	Human Resource Management	Regulations
Motivation	Attitude	Information Communication Technology	Information Communication Technology	Information Communication Technology	Infrastructure
Style	Roles		Support	Practices	Funding
Effort	Commitment	Development	Personalization	Formal/Informal	Public/Private
Orientation	Reflection		Flexibility	Assessment/ Credentialing	Inclusion
User	User	Utilization	Collaboration	Reputation	
Performance	Professional / Scholar		Communities	Enrolments	Publishing
Participation	Collaboration	Accessibility	Openness	Policies	Policies
Satisfaction	Quality	Quality	Outcomes	Sustainability	Sustainability
Expenses	Cost	Cost	Accessibility	Accessibility	Accessibility
			Quality	Quality	Quality
			Cost	Efficiency	Efficiency
				Business Model	Business Model

es/2012/02/pdf/open\_education\_resources.pdf