



Centre for  
Innovation in  
Learning and  
Teaching



# Digital Open Textbooks for Development

Apereo Africa, 17 April 2019

by

Michelle Willmers

DOT4D Publishing & Implementation Manager



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# Definition

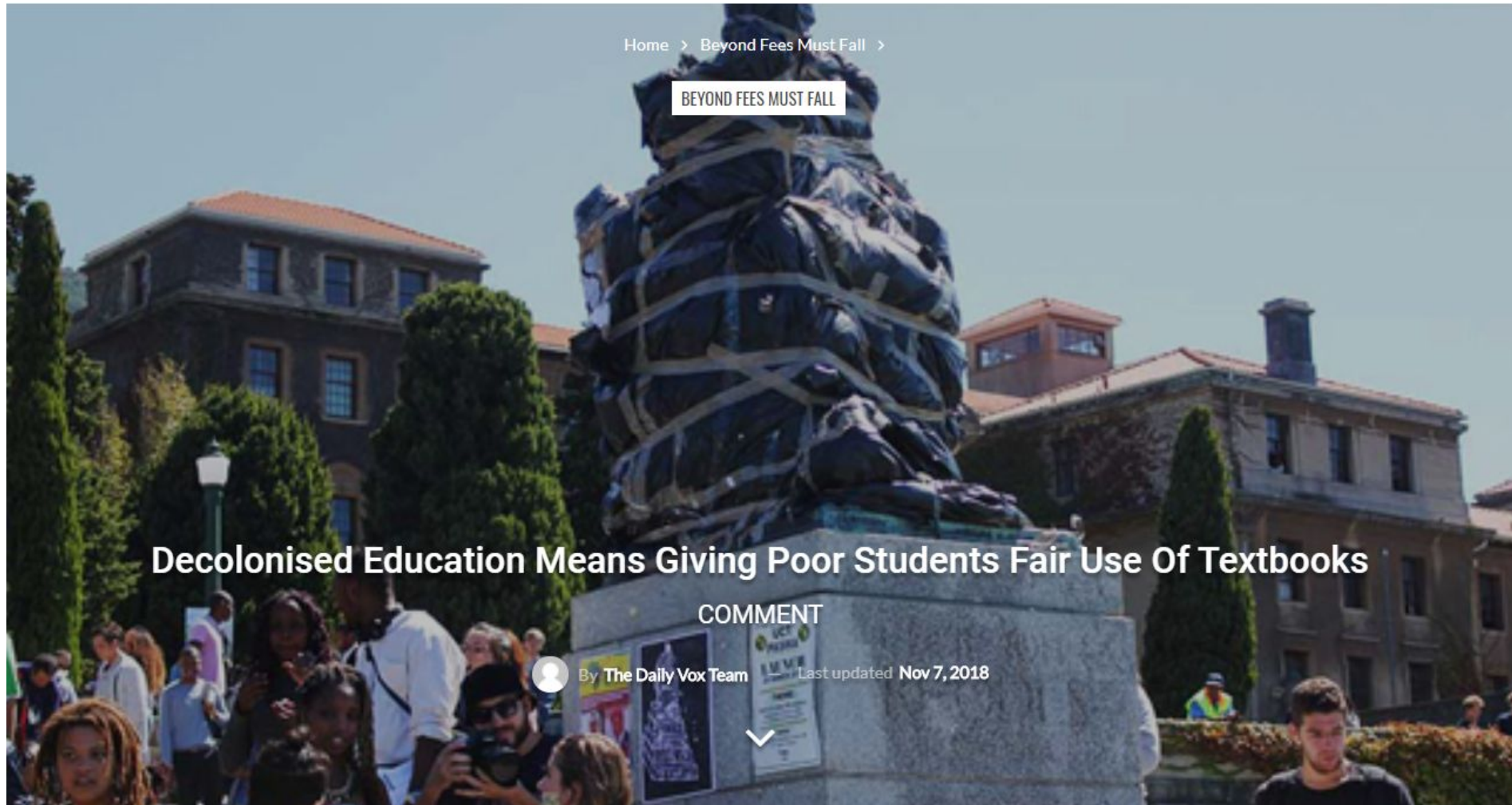
[Open textbooks at the University of Cape Town appear to be] ... digital collections of

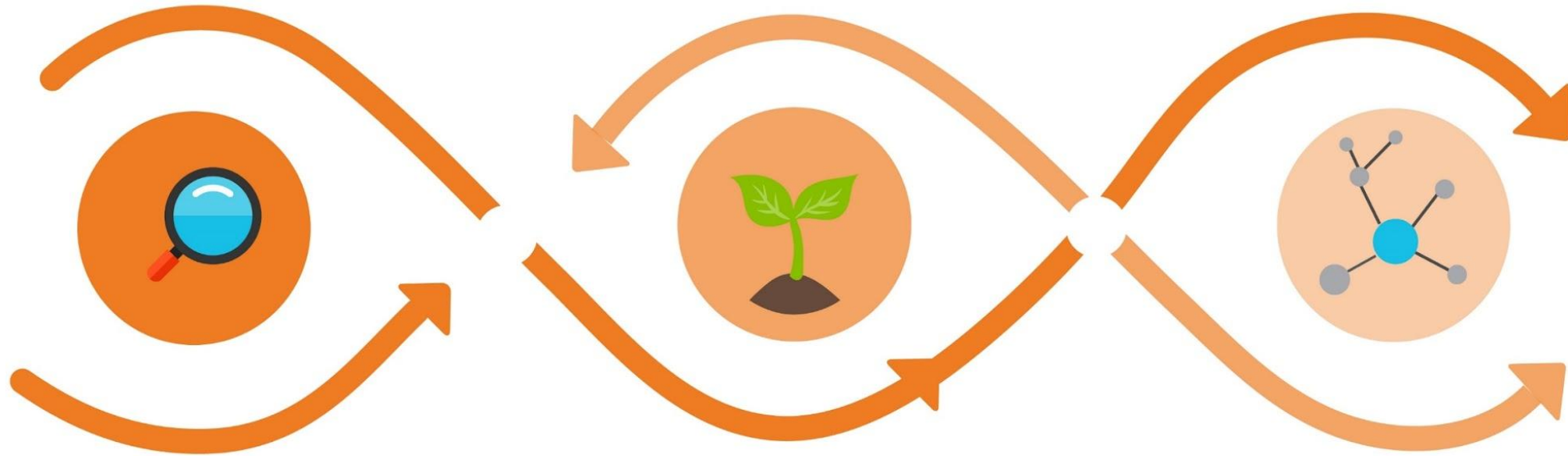
- ❑ scaffolded teaching and learning content
- ❑ published under an open license or in the public domain
- ❑ on platforms and in formats that provide affordances for
- ❑ content delivery on a range of devices, the integration of multimedia and incorporation of content from varying sources through collaborative authorship models.

## Primary objective of the DOT4D initiative:

To contribute to a broader social justice agenda in the South African higher education system by improving equitable access to appropriate and relevant learning resources.

# Textbooks as a social justice issue in the South African higher education context: challenges of access and representation





### Research

Identify optimal approaches to open textbook design and publishing.

### Grants

Support open textbook publishing at UCT that prioritises strategies for integrating student perspective, curriculum transformation and sustainability.

### Advocacy

Inform current open education policy initiatives at institutional and national levels.



**Digital Open Textbooks for Development (DOT4D) University of Cape Town open textbook landscape survey**  
[www.dot4d.uct.ac.za](http://www.dot4d.uct.ac.za)

Type of resource	Author(s)	Author affiliation	Compiled by	Year	Findability (first page of Google search)	(Peer) review/ Acknowledgements/ quality assurance	Multimedia
Textbook	Jean-Paul Van Belle, Jane Nash & Mike Eccles	UCT	Jean-Paul Van Belle, Jane Nash & Mike Eccles	2010	Yes	No	No (the resource is mostly text & contains labelled diagrams/ illustrations and tables)
Book	Rob Stokes	UCT	Sarah Blyth and Quirk Education	2010	Yes	Yes (resource states that, "We brought out the first edition of eMarketing in 2008, and now just three years later we are already...")	No (the resource is mostly text & contains photographs, images & illustrations)

# Selection criteria for UCT open textbook development grants

## **Curriculum transformation:**

Localisation of an existing textbook

Writing a new textbook for our context

**Multilingualism:** translation of text or use of local language examples

**Inclusion of student voices:** as authors and/or as editors

**Technological innovation**

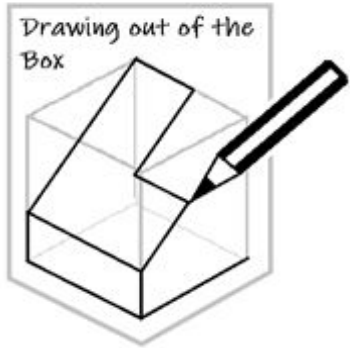
**Pedagogical innovation**

Collaboration with multiple authors, Sustainability: a plan for versions and multiple authors,  
Range of disciplines



# DOT4D grantees (9)

## Engineering and the Built Environment



First-Year  
Mechanical  
Engineering Drawing



Architecture of the  
Modern Movement  
in the Global South

## Science



Computer  
Science



Mathematics  
Textbooks for South  
Africa



First-year Chemistry  
in South African  
context

## Health Sciences



Learning Innovation  
through Orthopaedic  
Network



THE  
OPEN  
SURGERY  
TEXTBOOK

## Centre for Higher Education Development



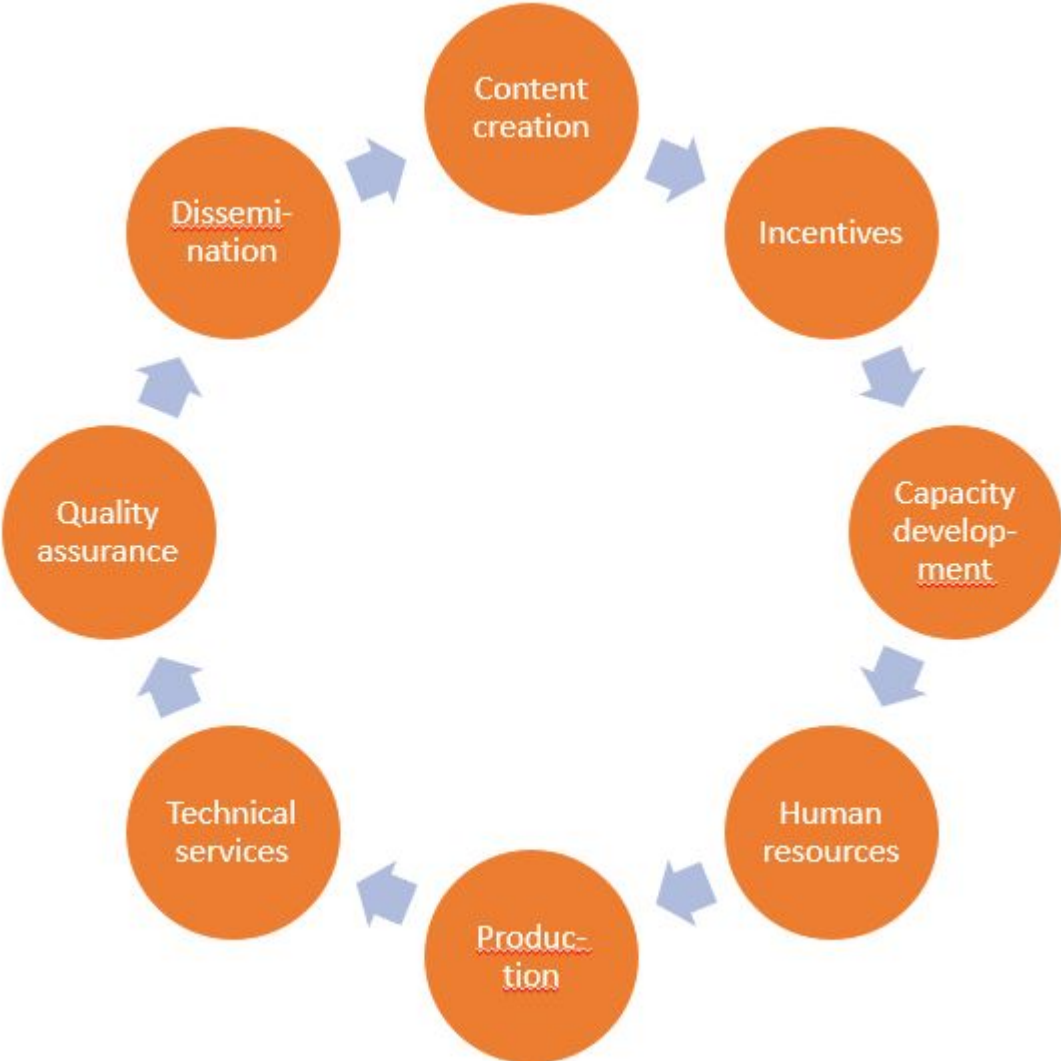
Statistics: Introduction to  
Probability in isiXhosa

## Commerce

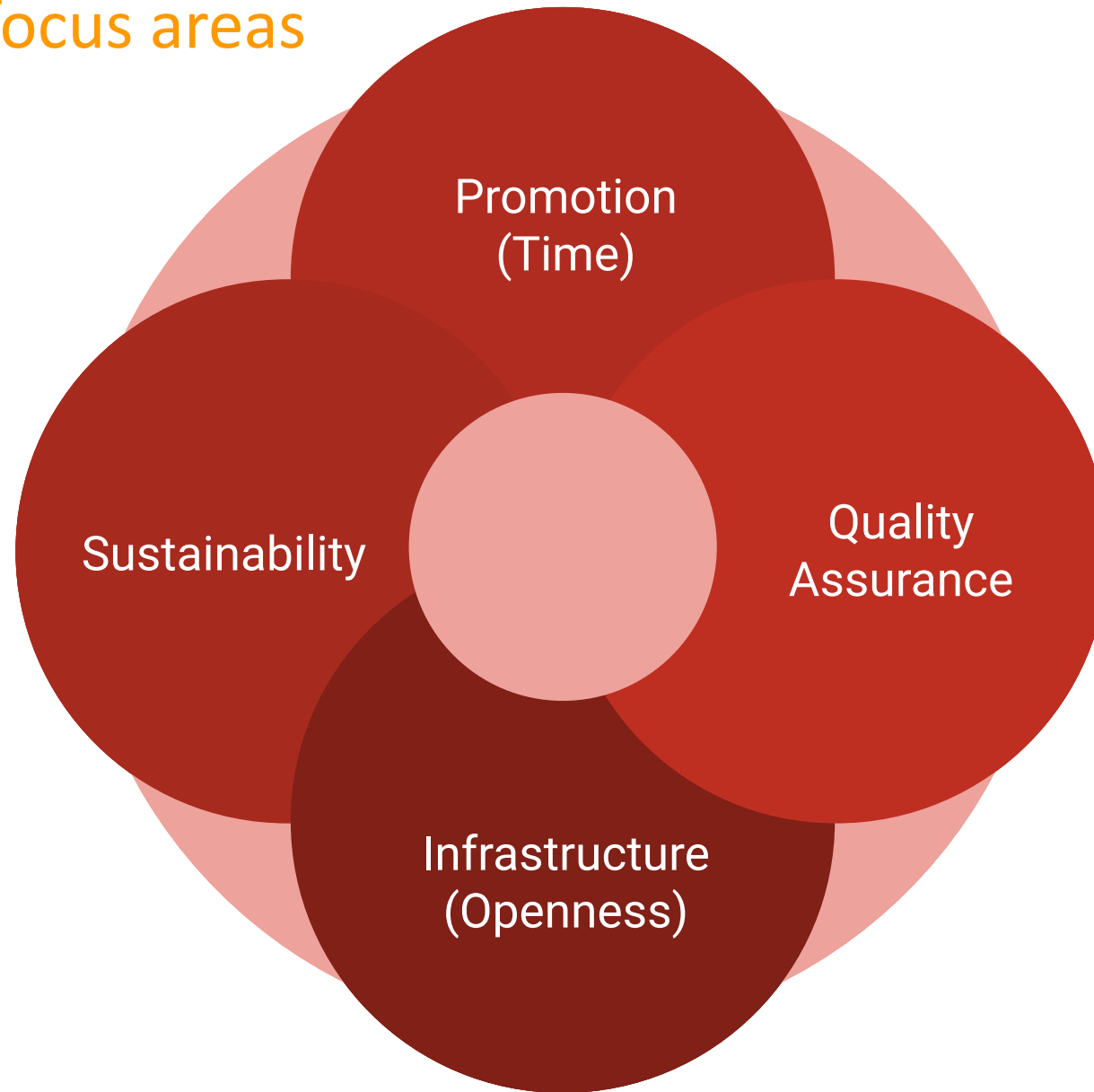


Marketing to the  
South African  
Consumer

# Identifying cost/activity areas in open textbook production models



## DOT4D advocacy focus areas





EdTech Books



openstax™

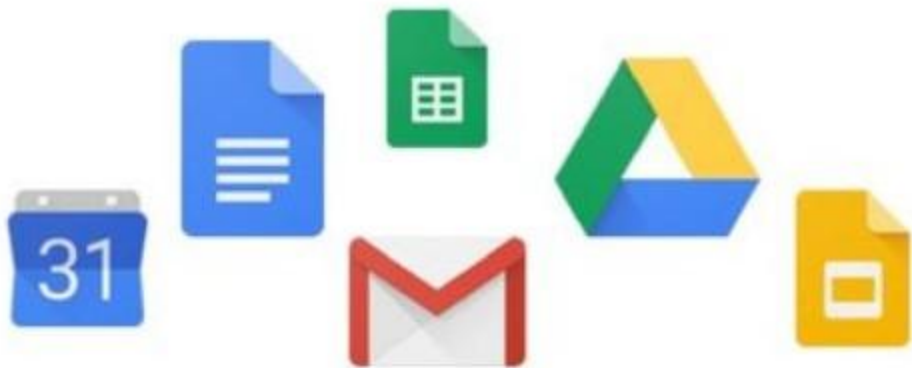


WordPress.com

PreTeXt

Write Once, Read Anywhere

GitHub



G Suite



OpenUCT

PB PRESSBOOK



Microsoft Teams

