Farewell discovery – hello curation & engagement

UKSG BS08

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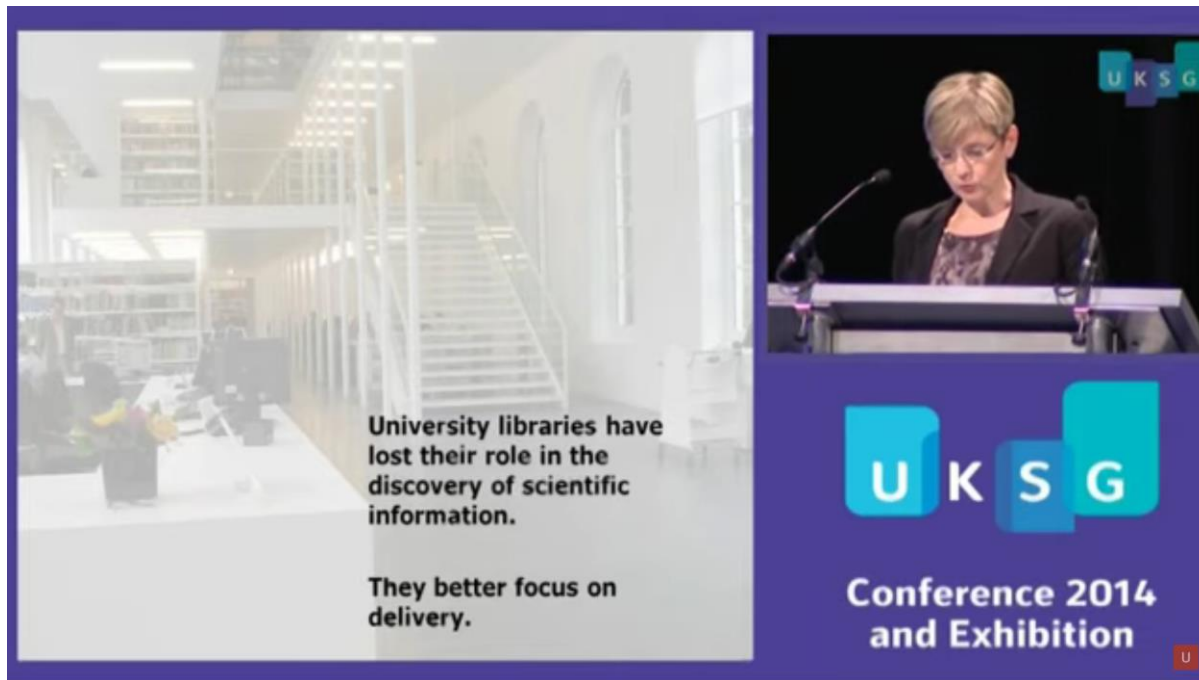*My contribution today should be treated as "food-for-thought"*

My bias is to the UK and Higher Education and teaching and learning rather than research

"**Discovery has been core to library operations**, closely coupled with a local collection for most of its history….In a network world the relationship between discovery, collections and behaviors is changing in important ways." Lorcan Dempsey. OCLC

Dempsey, Lorcan 2020. Foreword to Resource Discovery for the Twenty-First Century Library: Case Studies and Perspectives on the Role of IT in User Engagement and Empowerment, xxi–xxxii. Edited by Simon McLeish. London: Facet Publishing. OCLC Research Foreword Preprint. https://doi.org/ 10.25333/p8j4-1411.

University libraries have lost their role in the discovery of scientific information.

They better focus on delivery.

U K S G

Conference 2014 and Exhibition

Thinking the unthinkable - doing away with the library catalogue. By Simone Kortekaas. Utrecht University. Plenary presentation at the 2014 UKSG conference. https://www.youtube.com/watch?v=a6BPclajLVI

- In the academic sector as a whole, abstracting and indexing databases (A&Is) still appear to be the most important starting point in search.

- Academic search engines (such as Google Scholar) are more important than general search engines.

- **Library discovery seems to have peaked in its importance-rating** and is only holding a strong position in Humanities, Education and Social Sciences.

- Whilst searching as a discovery method dominates, it still only accounts for around 45% of people's behaviour. **Around 55% of the time people found the article they needed via other methods, e.g. following links on social media, emails and alerts, browsing other resources.**
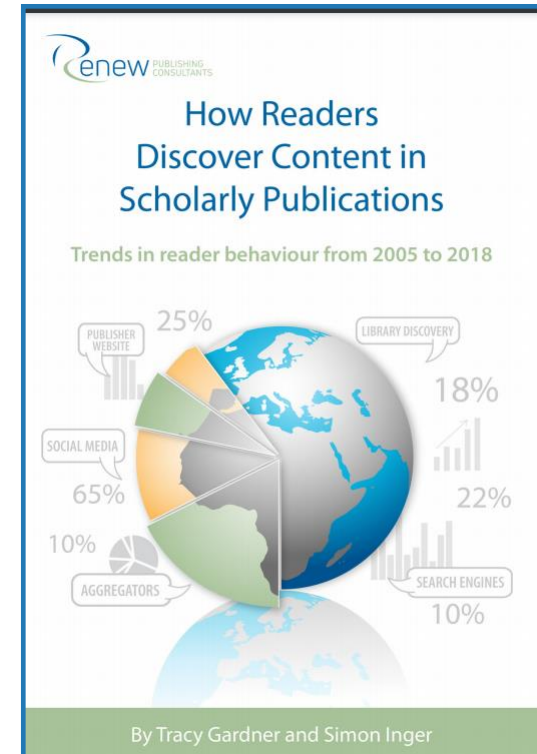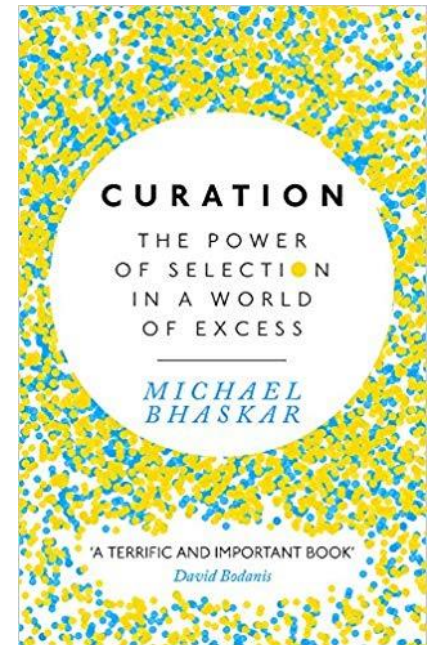

How Readers Discover Content in Scholarly Publications. By Tracy Gardner and Simon Inger. Renew Publishing Consultants August 2018 https://renewconsultants.com/wp-content/uploads/2018/08/How-Readers-Discover-Content-2018-Published-180903.pdf

"Around 55% of the time people found the article they needed via other methods, e.g. following links on **social media, emails and alerts, browsing other resources.**"
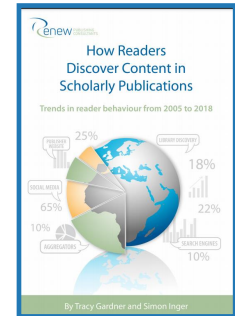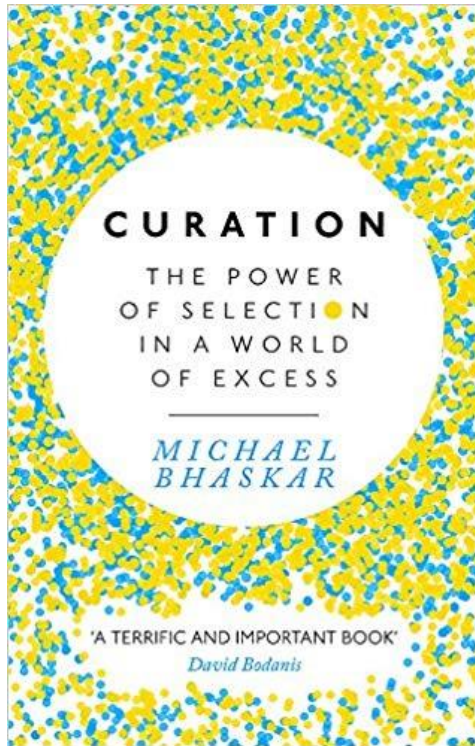

Farewell discovery hello curation

"[The] case goes something like this. We live among **unprecedented abundance**. The internet offers more writing than we could ever read, more music than we could ever listen to, and more news than we could ever keep up with"

"The result of all this abundance is that there are now **massive..opportunities in helping us filter**"

CURATION

THE POWER
OF SELECTION
IN A WORLD
OF EXCESS

MICHAEL BHASKAR

'A TERRIFIC AND IMPORTANT BOOK'
David Bodanis

Reviewed by Asher Dresner (St Edmund Hall) http://www.oxfordtoday.ox.ac.uk/culture/book-of-the-week/review-curation#

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*MICHAEL
BHASKAR*

'A TERRIFIC AND IMPORTANT BOOK'
David Bodanis

"This isn't about searching; we don't always know what we're looking for. It's about curation: **'selecting, refining and arranging to add value'**

Someone using their hard-won expertise to put in front of us only the good stuff"

Reviewed by Asher Dresner (St Edmund Hall) http://www.oxfordtoday.ox.ac.uk/culture/book-of-the-week/review-curation#

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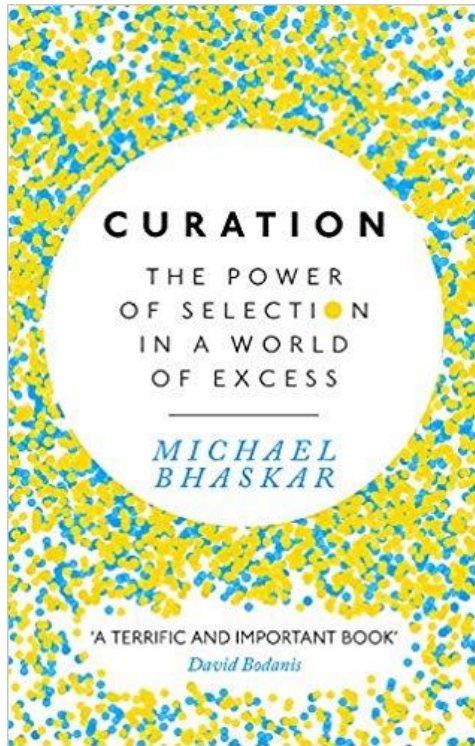
"This tendency to move towards more curated experiences ..is one of the long-term trends of the Internet"

Curation tools include SDI services, LibGuides, recommender services, etc

https://upload.wikimedia.org/wikipedia/commons/7/77/HK_Wan_Chai_Library_Inside_Bookcase_a.jpg

Reading/resource lists are a key curation tool for academic institutions

I want to focus on **reading/resource lists** as a key curation tool in helping to deliver improved learning outcomes

Higher Education Library Technology

Reading List/Resource List solutions
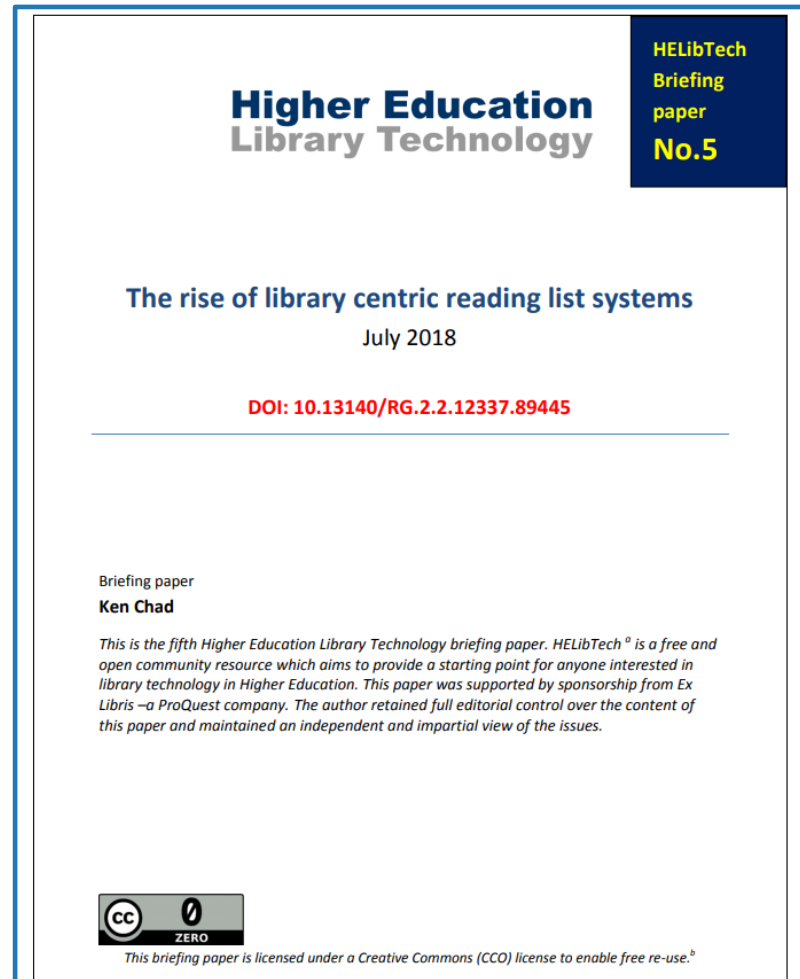
These are essentially 'curation' tools. Academics (with the help of librarians) create online resource lists - by module/course even week of study. Resource may be further categorized as 'essential' or background' reading. In this way they make 'discovery' largely redundant- least for many undergraduates

In the UK and other countries such as Australia and New Zealand older 'course reserve' modules have almost entirely replaced by more comprehensive *Reading List* solutions such as Talis *Aspire*, Ex Libris *Leganto* or Kortext *Keylinks*. Reading list solutions are increasingly adopted in the US and worldwide. Marshall Breeding's 2020 Library Systems Report notes that "Leganto ...has been purchased by 166 institutions".

Reading Lists Market share in UK HE May 2020

Reading List Market Shares (Change 2017 to 2020)

"Academics (with the help of librarians) create online resource lists - by module/course even week of study. Resource may be further categorized as 'essential' or background' reading."

https://www.helibtech.com/reading_resource_lists

Kenchadconsulting helping create more effective libraries.....

"The last five years have seen a sizable increase in the number of universities in the UK, Australia and New Zealand deploying library centric reading lists solutions. Indeed, the UK market has almost come to a point of market saturation. Around 70 per cent of the libraries in higher education have installed such solutions.

A notable change is that library resource list solutions are beginning to be adopted in the US".

HELibTech Briefing paper No.5

Higher Education Library Technology

The rise of library centric reading list systems

July 2018

DOI: 10.13140/RG.2.2.12337.89445

Briefing paper
Ken Chad

This is the fifth Higher Education Library Technology briefing paper. HELibTech [a] is a free and open community resource which aims to provide a starting point for anyone interested in library technology in Higher Education. This paper was supported by sponsorship from Ex Libris –a ProQuest company. The author retained full editorial control over the content of this paper and maintained an independent and impartial view of the issues.

https://www.kenchadconsulting.com/wp-content/uploads/2018/07/Rise_of_library_centric-_readinglists_July2018.pdf

Curation in practice –the reading/resource list solution

"Someone using their hard-won expertise to put in front of us only the good stuff"

Kenchadconsulting helping create more effective libraries…..

Manual curation - by academics/faculty
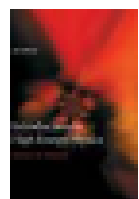
Introduction to high energy physics
Book - by Donald H. Perkins - 2000 - Background

Relatively historical treatment by an outstanding physicist

Introduction to high energy physics
Book - by Donald H. Perkins - 2000

Detectors for particle radiation
Book - by K. Kleinknecht - 1998 - Recommended

A great book; one of the standard detector texts; does not contain the most recent advances in solid state

https://rl.talis.com/3/bham/lists/DF40AAC3-9E75-A0EF-4EAB-263D34B092C8.html

Kenchadconsulting helping create more effective libraries.....

"A reading list solution brings librarians and academics together into a system where they must cooperate to be effective. An academic reported this cooperation to be 'massively' valuable and went on, 'We also include our subject librarian in teaching and curriculum development"

How students and lecturers are using educational resources today. By Linda Bennett and Annika Bennet. Sage Publishing and Gold Leaf. 2018. [Page 52]

Curation is popular with students

ResourceLists@Bham

ResourceLists @ Bham

What do students think of ResourceLists?

Undergraduate Geography, Earth and Environmental Sciences

"It's easier to view readings on a lecture by lecture basis. I found it very useful – I like how it enables you to select the reading status of each material. I wish every lecturer would use it."

"Students would spend **a lot of time searching through the library catalogue**, whereas now they are directed straight away to the content they require"

"It provides a **straightforward discovery route**.

The feedback is that **students find it is quicker and easier to find the resources they need**. We have seen evidence of this coming through comments on the NSS [National Student Survey]. Students also advocate to academics to get reading lists into the system".

HELibTech Briefing paper No.5

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Integration with the learning management system/VLE

"Reading lists are **embedded in the learning management system** - i.e. in student workflow—that is the biggest impact."
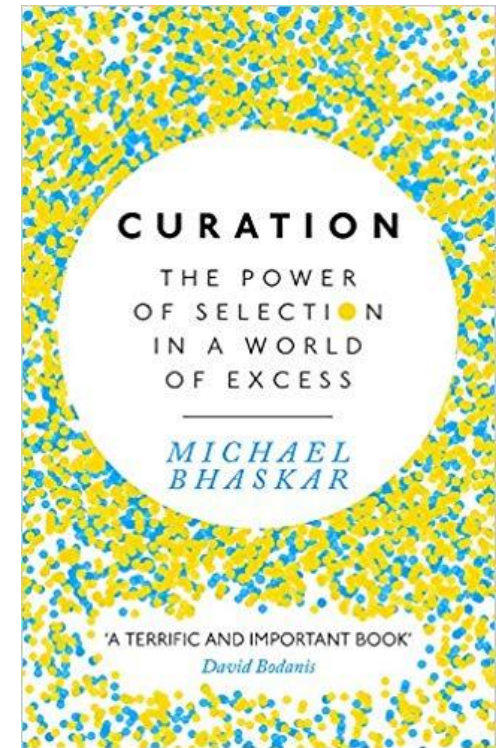
Resource lists challenge the long standing division between 'library' resources that are managed through the library catalogue and discovery system and 'learning' resources that are managed through the learning management system.

https://knowledge.exlibrisgroup.com/Leganto/Best_Practices_and_HowTos/Integrating_with_the_Learning_Management_System/Best_Practice_Toolkit%3A_Integrating_with_the_LMS

Kenchadconsulting helping create more effective libraries.....

"**Thick curation**: by and large this is what marketeers talk about when they discuss curation. It's about humans…

"**Thin curation**: a lighter, often machine-driven form of curation – the network of cataloguing and filtration mechanisms, recommendation and discovery algorithms that we find throughout the internet"

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"There isn't a hard divide between the two –it's.. a spectrum"

'Thick' (human) curation is not without its problems…….

Diversifying Reading Lists
Collaborating with teaching staff to **create decolonised and inclusive Reading Lists** to better represent the identities and experiences of our student body

https://www.gold.ac.uk/library/about/liberate-our-library/

"On the Internet, machine driven curation, based on sophisticated algorithms and data mining, has increasingly replaced human curation"

Curation - a role for AI
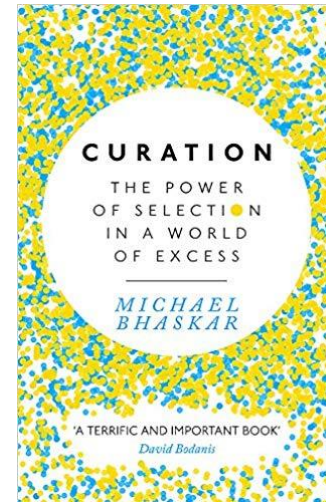
How do learning designers find the right content and deliver it to learners in a personalized and prioritized way at the moment of need?

Up until now, this has been primarily a manual process. **With the assistance of emerging AI technology, the world of content curation has become a lot more manageable, scalable, and impactful.**

AI in Learning: Curation. David James Clarke IV. 29 July 29, 2019
https://www.linkedin.com/pulse/ai-learning-curation-david-james-clarke-iv /

The five steps of AI-powered content curation:

Step 1: Activate AI on Learning Paths
Step 2: **Scan a Library of Trusted Sources**
Step 3: Deliver Personalized (and Prioritized) Content to Learners
Step 4: Collect and Analyze Crowd-Sourced Usage Data
Step 5: **Prioritize Content via Machine Learning**

AI in Learning: Curation. David James Clarke IV. 29 July 29, 2019
https://www.linkedin.com/pulse/ai-learning-curation-david-james-clarke-iv /

The real magic in this new system happens when it delivers **personalized and prioritized content to each and every learner**

In Step 3, the system automatically curates specific resources for each learner according to the skills in their Learning Path. In real-time, curator bots personalize the resources using pre-assessment and profile data to find and deliver the videos, activities, articles, and blogs that fill each learner's skills gaps. **How do AI-powered curation systems determine the "best" content? As with most things,**

the answer is a four-letter word: Data.

AI in Learning: Curation. David James Clarke IV. 29 July 29, 2019
https://www.linkedin.com/pulse/ai-learning-curation-david-james-clarke-iv /

Information about content

Producer of content

Filter

(e.g. the library)

DATA

DATA

Consumer of content

Information about users
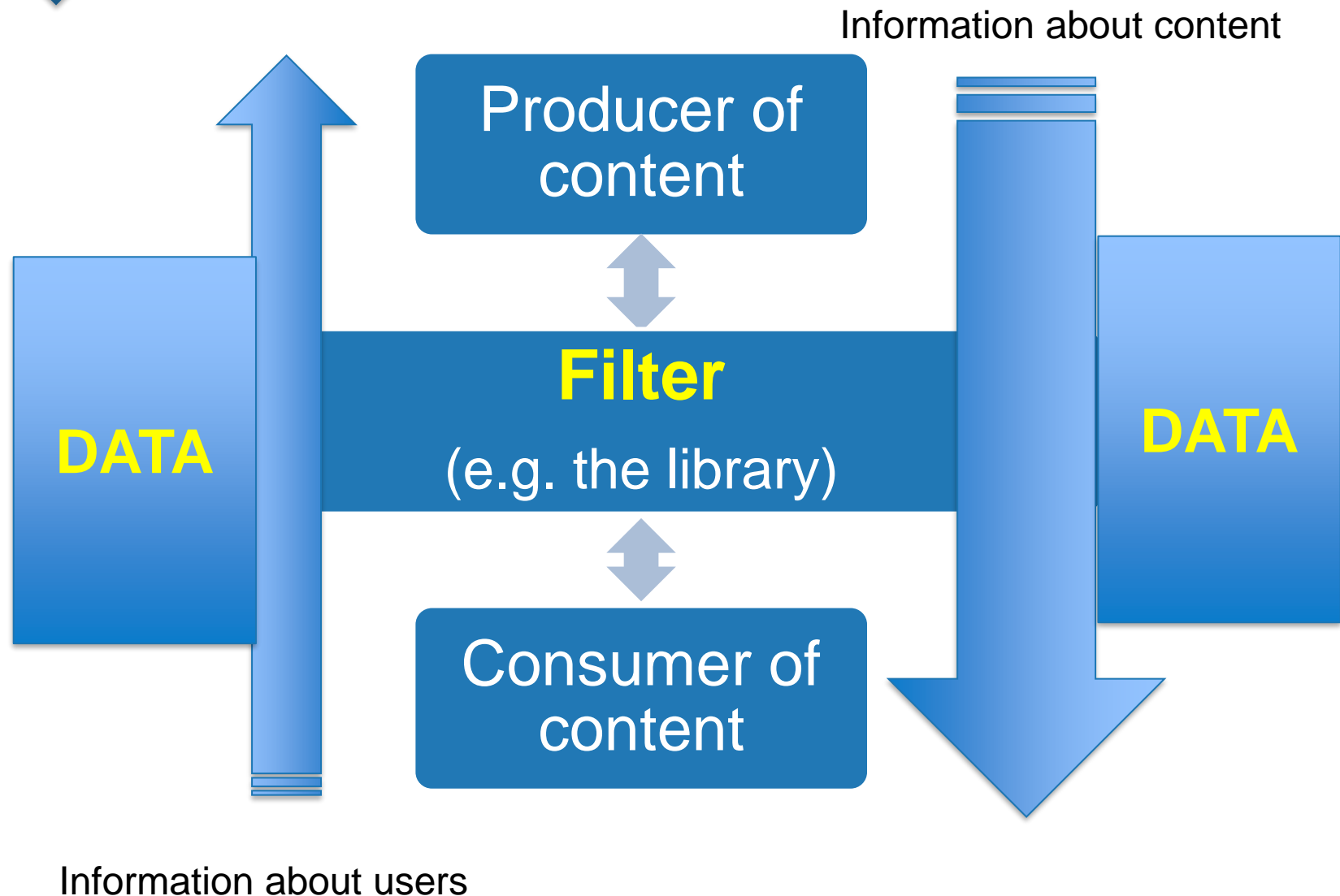
"Pedagogy, most commonly understood as the approach to teaching, is the theory and practice of learning, and how this process influences, and is influenced by, the social, political and psychological development of learners".

https://en.wikipedia.org/wiki/Pedagogy

While some academics still disdain what they consider 'spoon feeding', evidence is emerging that reading lists can provide an important element of **pedagogical 'scaffolding'.** An academic at Manchester Metropolitan University remarked:

"I refer to the reading list in sessions and model its use. When students ask me for resources I point them in the direction of the list....I would say - anecdotally that they have taken notice and that **they are using more resources. They are discussing the texts."**

Reinvigorating Reading Lists at Manchester Metropolitan University. Rachel Fell and Nicola Ward. Talis Insights conference presentation. May 2018 https://www.slideshare.net/secret/sciSpQVYmrSyq

The reading/resource list and pedagogy

Signposts within an annotated reading list, to different resources at various levels, can help to **teach information skills and to build the confidence of students** as they read and learn about the topic

Reading lists can help to bridge the gap between staff and students to support them to develop information skills. A well-structured reading list demonstrates how to evaluate and present information and acts as a communication of staff expectations

The important thing is the idea of the reading list as a *learning* tool. We are **moving past the idea of just a list of resources. We want to make things as easy to find and access ...**to improve *engagement.*

Higher Education Library Technology

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At the most general level, **learning occurs through the cognitive engagement of the learner with the appropriate subject matter knowledge.**

The most important elements of instruction, then, are **those that influence the cognitive engagement of learner** and subject matter knowledge.

"Therefore, more student content engagement should be associated with more learning"

Student Content Engagement as a Construct for the Measurement of Effective Classroom Instruction and Teacher Knowledge, Mary McLaughlin, Daniel J. McGrath, Marisa A Burian-Fitzgerald, Lawrence Lanahan, Marion Scotchmer, Christine Enyeart, Laura Salganik
American Institutes of Research.2005 https://www.air.org/sites/default/files/downloads/report/AERA2005Student_Content_Engagement11_0.pdf

"How do we get students to engage more actively with the material they are learning?"

The **use of digital tools** to aid deeper levels of understanding proved largely successful."

The Padlet Project: Transforming student engagement in Foundation Year seminars. Wendy A Garnham, Tabban Betts
University of Sussex. Compass: Journal of Learning and Teaching, Vol 11, No 2, 2018

https://en-gb.padlet.com/

Engagement and learning

> *Talis Elevate is transforming my student interaction in and out of the seminars. The students are using it to ask questions and clarify their understanding but they are also demonstrating an ability to think outside of the box in relation to the topics and controversies covered.*

Dr Wendy Garnham
Director Of Student Experience, University of Sussex

"Students can find resource engagement an isolating experience. They don't have any insight into what their peers are thinking about the resources and no idea what others have done with these resources.
In addition to this, a number of students don't feel confident speaking out and asking questions, either in or out of the classroom. Talis Elevate brings **collaboration back into the resource,** meaning students can build their discussion directly into the content to create knowledge together, help each other out, and pose questions within the subject matter."

https://talis.com/talis-elevate/

Engaging with a resource - collaboration and co-creation

https://talis.com/talis-elevate/

Vygotsky described **learning in terms of social interaction**. One of his discoveries was that there exists a difference between what a person can do on his or her own and what he person can do **with the help of a more knowledgeable other**

Student Content Engagement as a Construct for the Measurement of Effective Classroom Instruction and Teacher Knowledge, Mary McLaughlin, Daniel J. McGrath, Marisa A Burian-Fitzgerald, Lawrence Lanahan, Marion Scotchmer, Christine Enyeart, Laura Salganik
American Institutes of Research 2005 https://www.air.org/sites/default/files/downloads/report/AERA2005Student_Content_Engagement11_0.pdf

Kenchadconsulting helping create more effective libraries…..

Curation tools are key and a next step is improved **engagement** solutions for an increasingly online teaching and learning environment. Does the *library* have a role here?

HELibTech
Briefing
paper
No.3

Higher Education
Library Technology

The new role of the library in teaching and learning outcomes

June 2017

https://www.kenchadconsulting.com/wp-content/uploads/2018/09/Library_and_teaching_learning_outcomes_June2017_2a-1.pdf

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