The digital university: and other mythical creatures

Richard Harvey

IT Livery Company Professor of Information Technology, Gresham College

Professor of Computer Science, School of Computing Sciences, University of East Anglia

@richardwharvey





Just as we've seen the forces of technology and globalisation transform sectors such as media and communications or banking and finance over the last two decades, these forces may now transform higher education. The solid classical buildings of great universities may look permanent but the storms of change now threaten them.

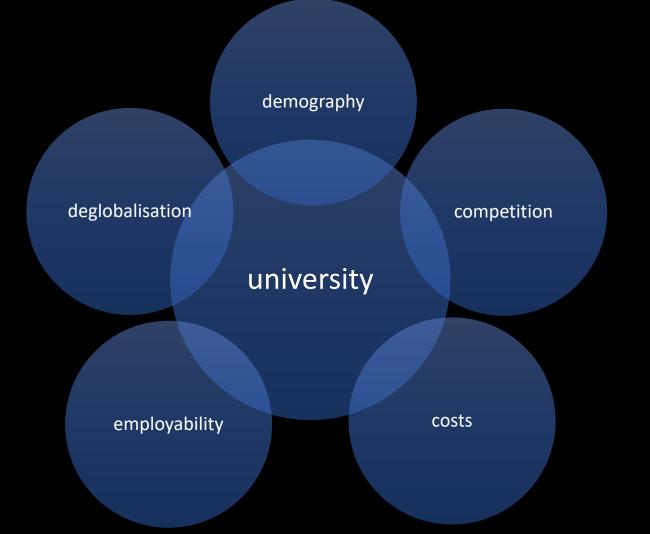
Lawrence Summers President Emeritus, Harvard University

Should we fail to radically change our approach to education, the same cohort we're attempting to "protect" could find that their entire future is scuttled by our timidity.

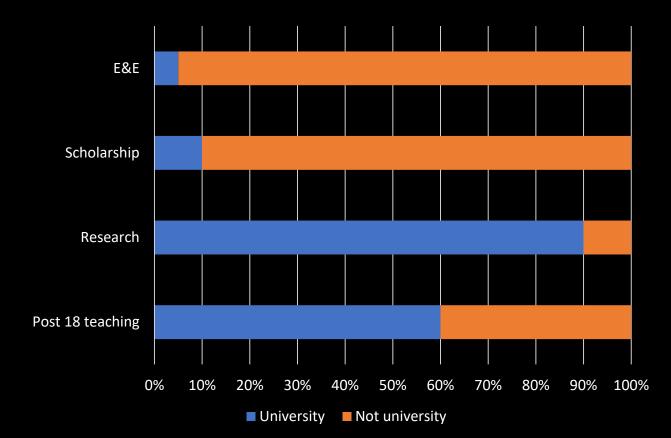
David Puttnam, MIT, 2012

Our belief is that deep, radical and urgent transformation is required in higher education as much as it is in school systems. Our fear is that, perhaps as a result of complacency, caution or anxiety, or a combination of all three, the pace of change is too slow and the nature of change too incremental.

Saad Rizvi, Katelyn Donnelly, Michael Barber,

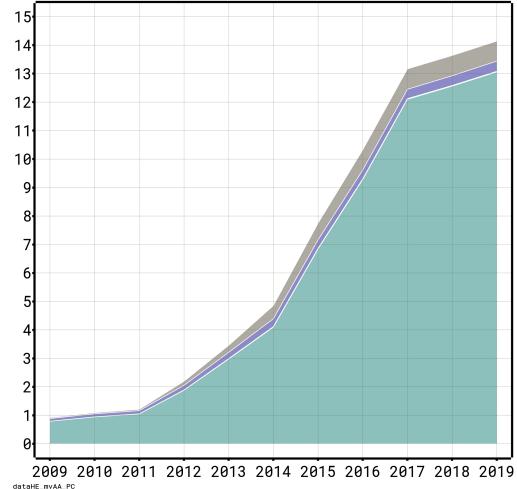


What do universities do?



Higher Education is big business, Mark Corver, WonkHE Blog, 11th Nov 2019, <u>https://wonkhe.com/blogs/</u> <u>higher-education-is-big-</u> <u>business/</u>

Competitive revenue (£Bn) FT UG fees by provider country Provider=All,domicile=All



Higher Education is big business, Mark Corver, WonkHE Blog, 11th Nov 2019, <u>https://wonkhe.com/blogs/</u> <u>higher-education-is-big-</u> <u>business/</u>

01 Higher Education									
02 Travel and Leisure									
03 Industrial Support Services									
04 Retailers									
05 Investment Banking and Brokerage Services									
06 Household Goods and Home Construction									
07 Software and Computer Services									
08 Aerospace and Defense									
09 Industrial Metals and Mining									
10 Personal Care, Drug and Grocery Stores									
11 Banks									
12 Electronic and Electrical Equipment									
13 Construction and Materials									
14 Oil, Gas and Coal									
15 Other									
16 Gas, Water and Multi-utilities									
17 Media									
18 Non-life Insurance									
19 Pharmaceuticals, Biotechnology and Marijuana Produce	rs								
20 Telecommunications Service Providers									
						-			
	0	2	4	6	8	8	10	12	14
detell ceetnew									





Thiel Scholarship



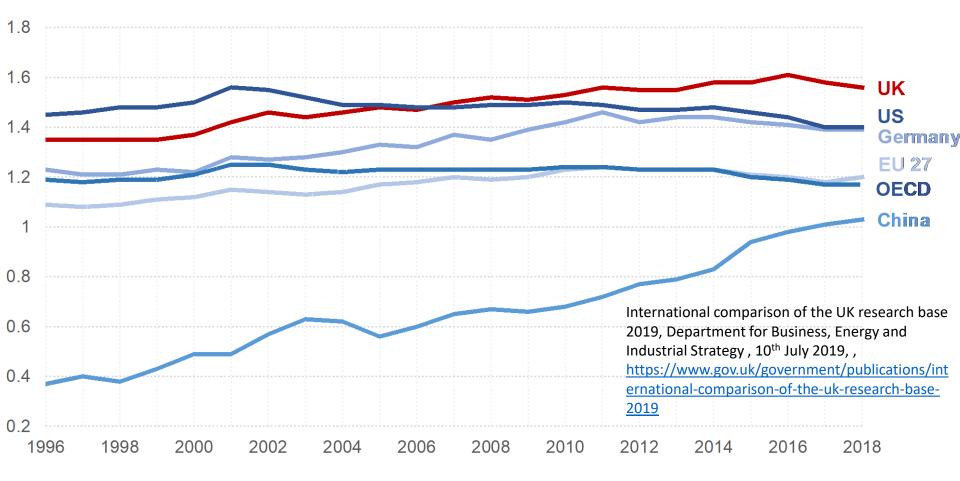
Deep Springs College, California



Uncollege

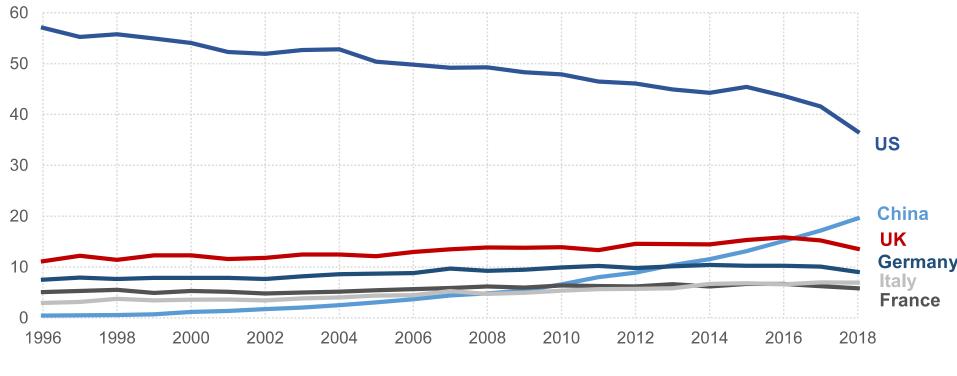
Minerva

Figure 1: Field-weighted citation impact



Source: Scopus

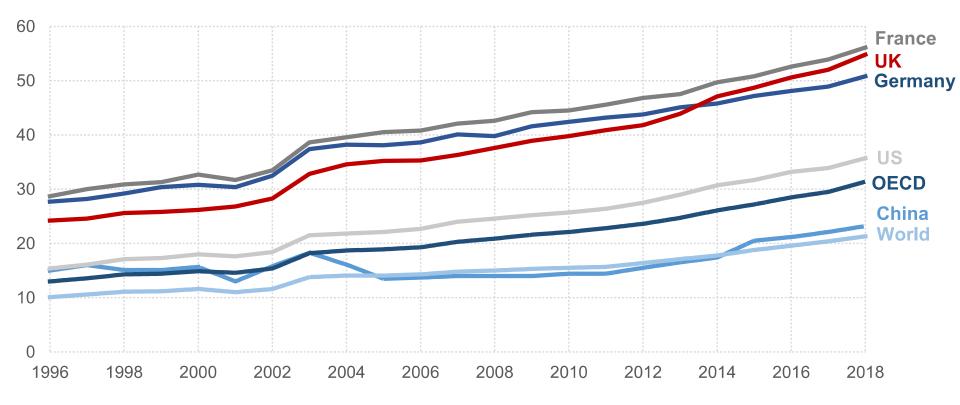




Source: Scopus

International comparison of the UK research base 2019, Department for Business, Energy and Industrial Strategy, 10th July 2019, , <u>https://www.gov.uk/government/publications/international-comparison-of-the-uk-research-base-2019</u>

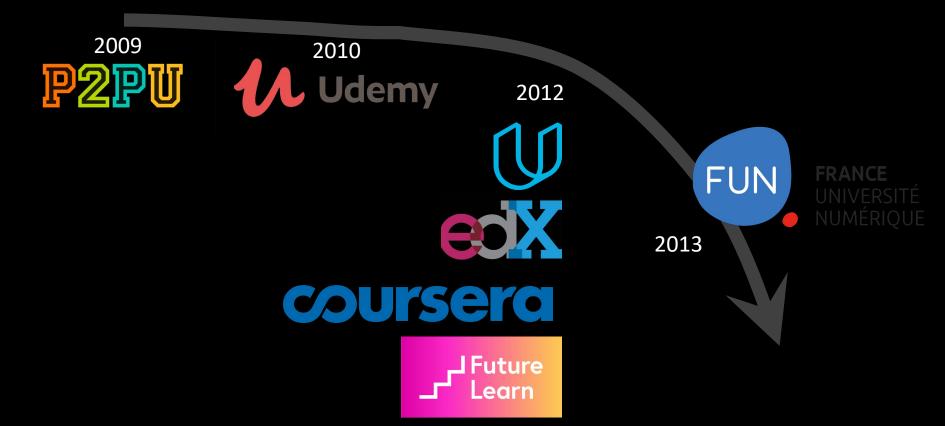
Figure 4: Share of publications which resulted from international collaboration. %



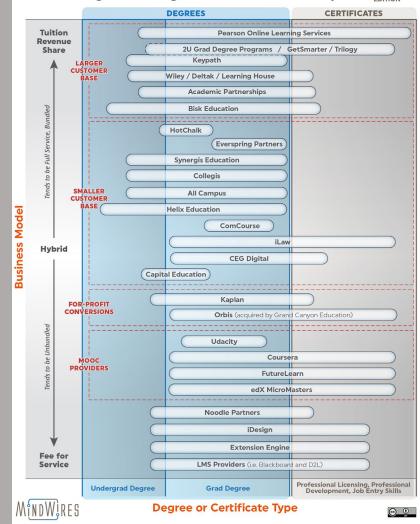
Source: Scopus

International comparison of the UK research base 2019, Department for Business, Energy and Industrial Strategy, 10th July 2019, , <u>https://www.gov.uk/government/publications/international-comparison-of-the-uk-research-base-2019</u>





Online Program Management Market Landscape FALL 2019 EDITION



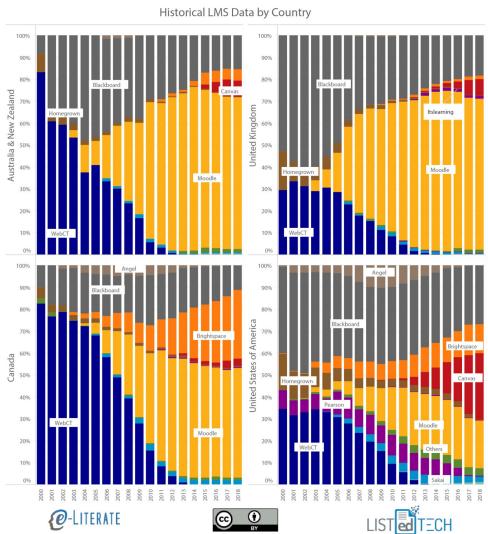
OPMs

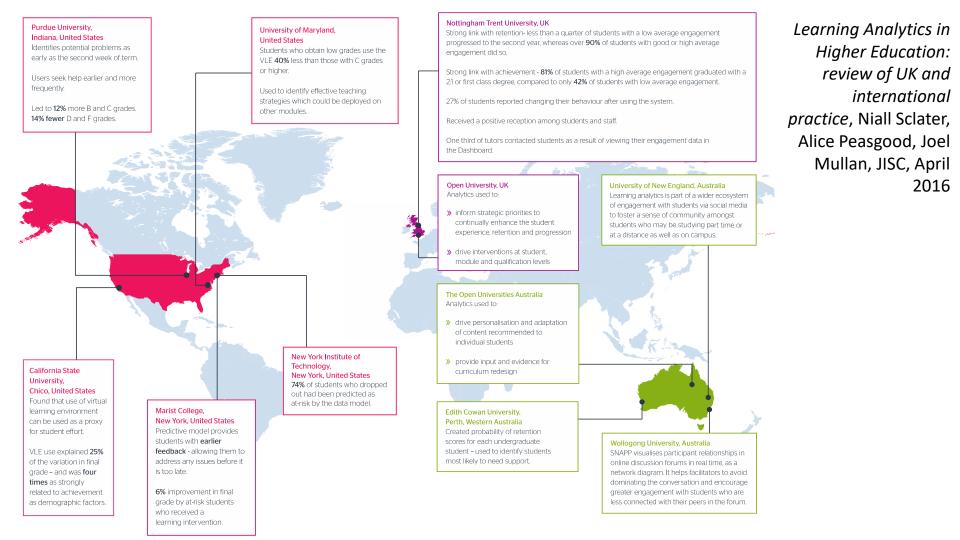
Online Program Management: An updated view of the market landscape for 2019, Phil Hill, Sept 27 2019, Source: https://philonedtech.com/opm-updated-2019-market-landscape/

VLEs or LMSs

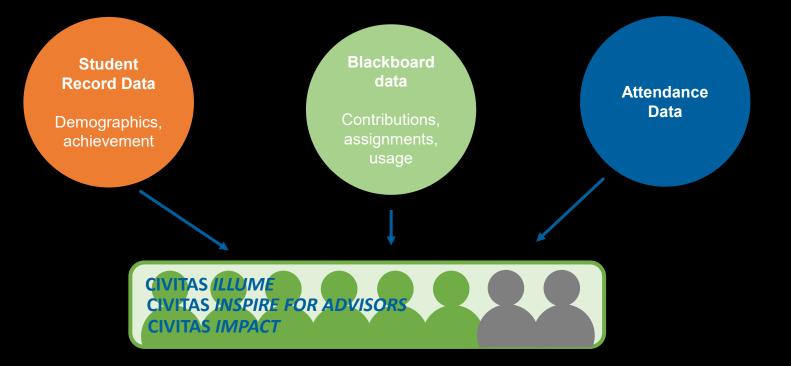


https://www.listedtech.com/blog/contrasting-lms-adoptionpatterns-in-four-english-speaking-countries





UWL case study



From "Improving student engagement" by Adrian Ellison & Mary Cameron, HE Partnership Network, 1 May 2019

Bibliometrics



Microsoft Power BI

< 4 of 15 >

Student services

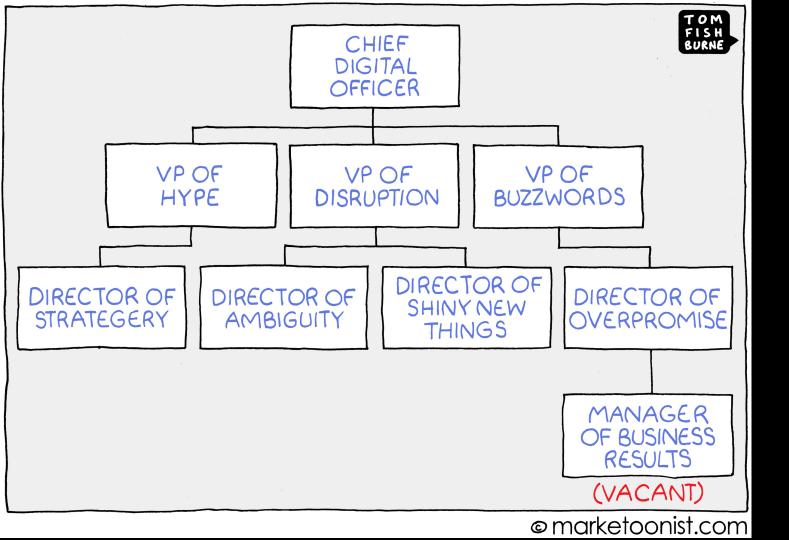
Student services





Third leg activities

- Internationalisation
- Knowledge exchange
- Enterprise
- Engagement



Digital natives?



"A magazine is an iPad that does not work properly" Youtube: UserExperiencesWorks

Digital natives?

The one thing that does not change is that at any and every time it appears that there have been 'great changes' Marcel Proust, Within a Budding Grove

Bennett, S. J., Maton, K. A. & Kervin, L. K. (2008). <u>The 'digital natives' debate: a critical review of the evidence</u>. British Journal of Educational Technology, 39 (5), 775-786.

Next lecture:

"Digital healthcare: will the robot see you now?"

Tuesday 17th March 2020 at 18:00 (6pm) London Time

www.gresham.ac.uk