



- 1. Mental health "crisis" in context
- 2. New areas of analytics
- 3. What we have learnt/what's new



Mental health "crisis" - backdrop

Greater awareness of the issue (mental health and well being)

2015 NUS Survey: 78% reported issues, 33% suicidal thoughts*

Particular concern about children and young people

2017 HEPI and HEA survey: declining student well being

Tech and especially social media may be a (newer) factor

High percentage of students who commit suicide are not previously known to support services

IPPR: 94% increased demand for counselling services









What's going on?





What's going on?

Ask a university doctor...

Dominique Thompson - key factors

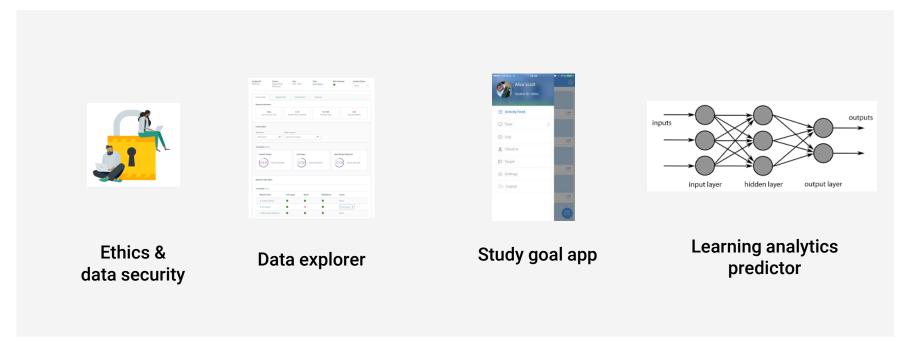
- Perfectionism
- Competitiveness
- Target Driven
- American Dream (meritocracy)
- Parent over-involvement
- 24/7 society (unrealistic expectations)
- Loneliness
- Certainty v Uncertainty
- Social Media
- => combining to impact mental health

"The evidence is clear that, at the age when most students attend university, they are at high risk of developing mental health difficulties, which in the context of transition to new environments, social network upheaval, increased academic, financial and career pressures, could make them more likely to struggle"

4. Analytics approaches and how do they link?



Jisc learning analytics service



https://www.jisc.ac.uk/learning-analytics



Harnessing data to support student success



The power of data and analytics is harnessed to ensure that *every student* in the UK can have access to a high quality and meaningful higher *education experience* that equips them for the challenges of life irrespective of background and means.

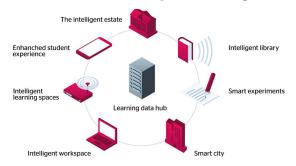
https://www.ecampusnews.com/news/rafter360-student-outcomes/

What are the problems?

- Students dropping out
- Students failing to make their grades
- Problems more acute for lower income and ethnic minority students and for female students
- Rise in numbers of students reporting mental health issues



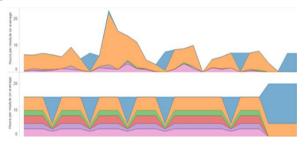
Beyond learning analytics – Digital Futures



Intelligent campus



Employability & apprenticeship analytics



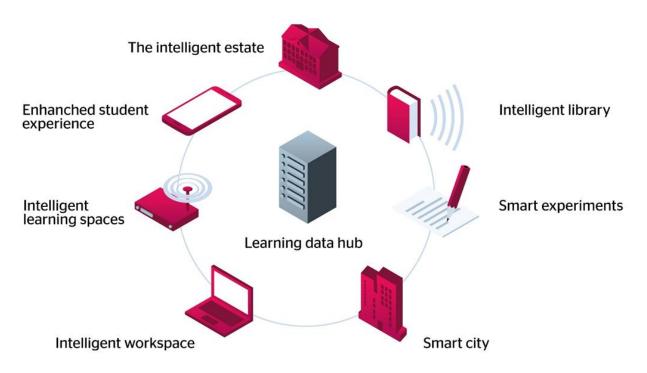
Curriculum analytics



Wellbeing analytics



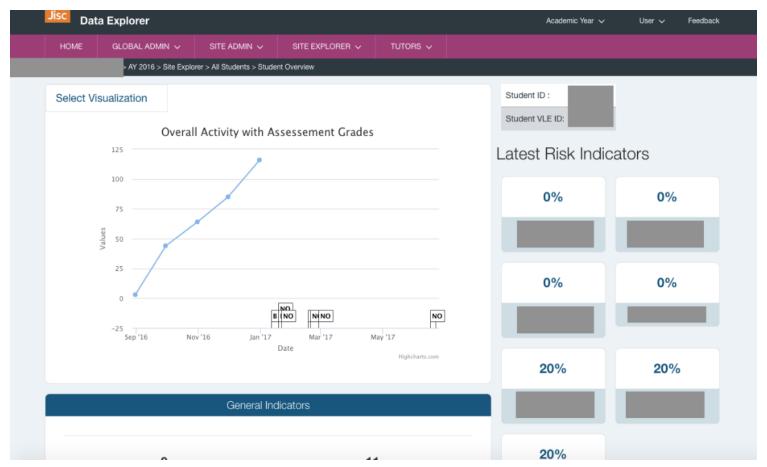
Intelligent campus



https://www.jisc.ac.uk/rd/projects/intelligent-campus



Curriculum quick win: reducing assignment clustering





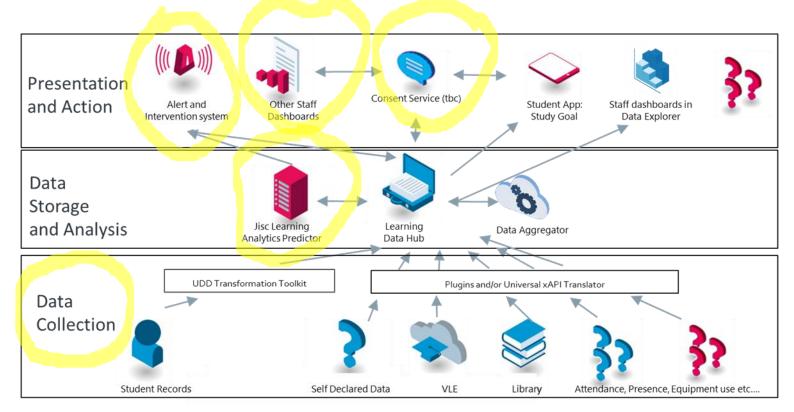
From learning analytics to well being analytics...

Learning analytics is about analysing student data to make improvements and improve student outcomes...

- Learning and wellbeing are linked
- Indicators of engagement used for learning analytics could also indicate wellbeing issues
- Early warning signs of drop-out are often the same as those of mental distress
- Can flag students who disengage from their studies or show other changes in study behaviour



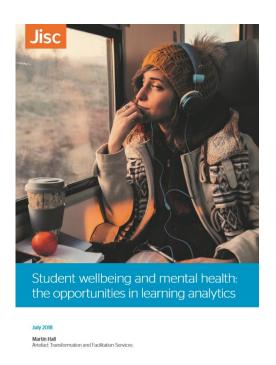
Holistic approach may have benefits



Making the case



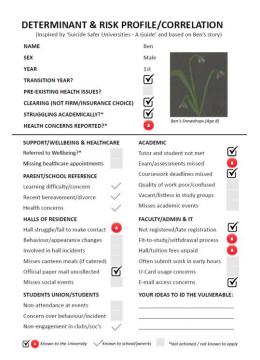
https://www.hepi.ac.uk/2018/07/17/jisc-mental-health-crisis-universities/



http://repository.jisc.ac.uk/6916/1/student-wellbeing-and-mental-health-the-opportunities-in-learning-analytics.pdf



Suicide safer universities dashboard



Ben's snowdrops – determinant and risk profile – James Murray



Guardian, 9 October 2018

https://www.theguardian.com/education/2018/oct/08/student-suicides-the-bereaved-father-who-says-data-could-save-lives



From concept to implementation

- Bristol/Ben Use case shows:
- Data probably held in a student record system
- Data almost certainly held somewhere
- Data that requires some interpretation
- Information that the university knows, but probably not as data
- Information only parents or others know.

DETERMINANT & RISK PROFILE/CORRELATION

NAME SEX

(Inspired by 'Suicide Safer Universities - A Guide' and based on Ben's story)

Male

YEAR		1st	A / / / /	ı
TRANSITION YEAR?		lacksquare		ı
PRE-EXISTING HEALTH ISSUES?			N/	ı
CLEARING (NOT FIRM/INSURANCE CHOICE)		lacksquare		ı
STRUGGLING ACADEMICALLY?*		$ \checkmark $	N OOL	
HEALTH CONCERNS REPORTED?*			Ben's Snowdrops (Age 8)	
SUPPORT/WELLBEING & HEALTHCARE		ACADEMIC		
Referred to Wellbeing?*		Tutor and st	udent not met	V
Missing healthcare appointments		Exam/assessments missed		V
PARENT/SCHOOL REFERENCE		Coursework	deadlines missed	lacksquare
Learning difficulty/concern	\/	Quality of work poor/confused		
Recent bereavement/divorce	1	Vacant/listless in study groups		
Health concerns	_/	Misses academic events		
HALLS OF RESIDENCE	_	FACULTY/AD	OMIN & IT	
Hall struggle/fail to make contact		Not register	ed/late registration	•
Behaviour/appearance changes		Fit-to-study,	/withdrawal process	
Involved in hall incidents		Hall/tuition	fees unpaid	
Misses canteen meals (if catered)		Often subm	it work in early hours	
Official paper mail uncollected	\mathbf{V}	U-Card usag	e concerns	
Misses social events		E-mail acces	s concerns	•
STUDENTS UNION/STUDENTS		YOUR IDEAS	TO ID THE VULNERAB	LE:
Non-attendance at events				
Concern over behaviour/incident				
Non-engagement in clubs/soc's	~ /			

Known to the University * Known to school/parents *Not actioned / not known to apply

Conversations with three universities

- 1. All three saw the potential of seeing richer data about students in one place
- 2. All saw student CRM type functionality as important
- 3. All were wary of the idea of using data driven prompts to identify students in crisis not known to them
- 4. All of them saw moving from data to process to people as key
- 5. Range of degrees of data informed approaches
- 6. Range of level of centralisation of services
- 7. No-one size fits all three universities very different student populations



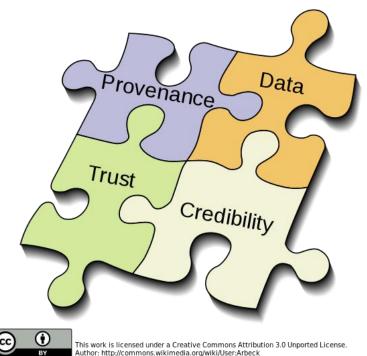
Potential Recommendations

- 1. Are you ready? know your data and start discovering its potential
- 2. Start the conversation about data now
- 3. Build links between data, systems and people
- 4. Build up a richer picture of your students and their support needs
- 5. Enable information and data flows across your institution
- 6. Build in interoperability and open standards
- 7. Understand relevant legal and ethical frameworks
- 8. Start to work in a wider data landscape



Enabling data to play a role...

- More likely to succeed if:
- Clean data
- Confident about the legal and ethical side
- Having a workflow and process from data to people
- Interoperability being prepared to unlock data from disparate systems
- Open data architectures and standards







Data informed conversations

Its not about replacing human interaction with predictive models or Al

Some working assumptions

- 1. Big data can provide new insight (e.g. 500 million records)
- 2. National level datasets can provide new insight
- Work done to develop Learning Analytics models might be transferable
- 4. Data dashboards can play a role in alert/triage



What else has been happening?

- Privacy and ethics at forefront of debate
- Striking a balance
- Taking an informed perspective
- High level group on Consent
- Role of ICO





LA code of practice **mental health and wellbeing annex** https://community.jisc.ac.uk/system/files/391/Wellbeing%20 <a href="https://community.jisc.ac.uk/system/files/api.uk/system/f



What else has been happening?

- New OFS projects kicking off
- https://www.officeforstudents.org. uk/news-blog-and-events/pressand-media/innovation-partnershipand-data-can-help-improvestudent-mental-health-in-new-14mdrive/
- https://www.officeforstudents.org. uk/advice-and-guidance/studentwellbeing-andprotection/improving-mentalhealth-outcomes/

University of Derby

Education for mental health: enhancing student mental health through curriculum and pedagogy

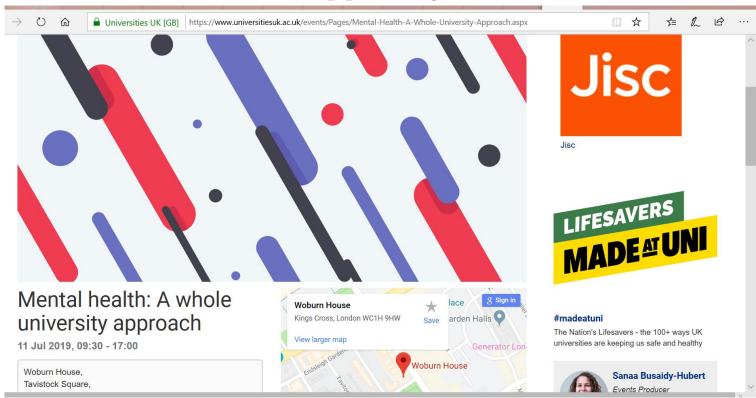
This project will create an evaluated, national online toolkit for academics that provides evidence-informed guidance on creating and providing curriculum, pedagogy and assessments that facilitate better student mental health while improving educational outcomes

University of Northumbria at Newcastle

Mental health and analytics: a continuum approach to understanding and improving student mental health This project aims to improve mental health and learning outcomes for all students, match students in need to appropriate health and wellbeing support, and reduce student suicide. These will be achieved by the innovative integration of technology, advanced educational data analytics, student relationship management, and effective models of support.



What else has been happening?



https://www.universitiesuk.ac.uk/events/Pages/Mental-Health-A-Whole-University-Approach.aspx

HEFCE step change pilots ending and reporting



What else is new?

- Jisc is planning next set of actions (scaling up) two ideas have been explored https://www.jisc.ac.uk/reports/horizons-report-emerging-technologies-and-the-mental-health-challenge
- More work to understand potential of data informed approaches and analytics
- Would like to in more depth work with data at scale analysis
- Would like to do more work on supporting student wellbeing and resilience
- Will take a collaborative approach to this
- Elsewhere:
- Increased emphasis on working with the NHS (new group)



Thanks for listening...

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