

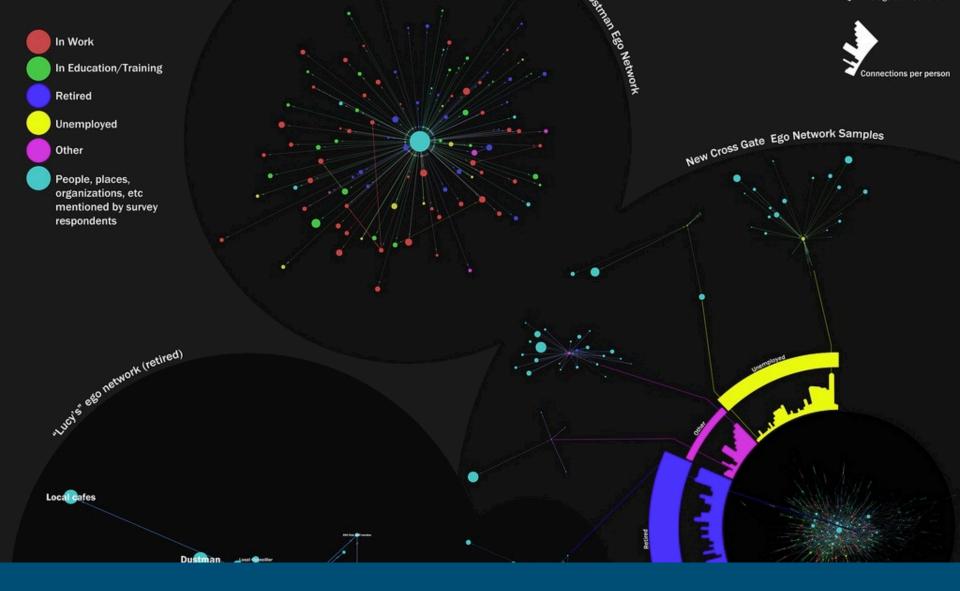
NTU student dashboard: Learning analytics to improve retention

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#### Student Transition

- Previous studies
  - HERE Project (2008-11)
  - Welcome Week surveys/ student transition surveys (2005 present)
- Student expect HE to be largely similar
  - Academic writing, feedback
  - Relationships with tutors
  - Expect support from tutors regarding deadlines
- Encounter a profoundly different landscape
  - Most acculturate & cope
  - Many flounder & struggle to understand how HE is different & how they are supposed to act differently
    - 1/3 of NTU students have considered leaving at some point during the first year
    - Belonging essential peers, tutors and within subject of context





Big data/ learning analytics: are they the answer to student retention?

#### Learning analytics

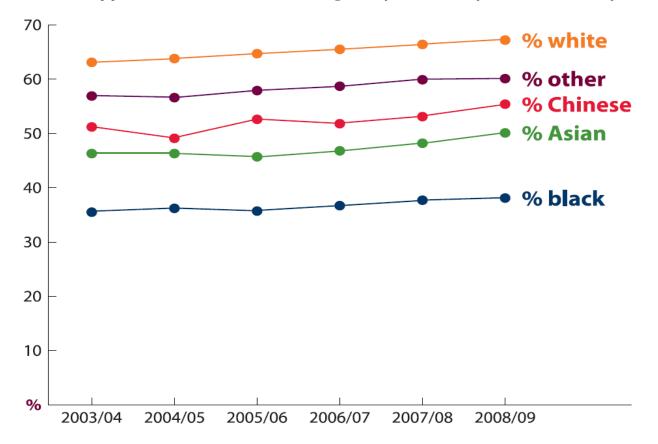
- "Analytics" is a term used in business & science to refer to computational support for capturing digital data to help inform decision making ... this extends to designing infrastructures to exploit rapid feedback, to inform more timely interventions, whose impact can in turn be monitored. Learning analytics appropriates this concept for education ...
- (UNESCO policy briefing on Learning Analytics, 2012)
- Huge interest in the sector
- If we can more accurately identify those students who fail to make the transition into HE/ fail to engage, surely we intervene and prevent early withdrawal



Why I think loads of Universities are going to lose their shirts over big data CC image downloaded from Flickr 11 November 2013, AJ Woods

#### We already know who our 'at risk' students are

UK-domiciled first degree undergraduate qualifiers obtaining a first or upper second class honours degree by academic year and ethnicity



Source: ECU publication 'Equality in higher education:





# Focus will be on the cool technology



### Not real world people & interventions



# Finally, it will be built for senior managers





NTU Student Dashboard

# NTU student dashboard (developed by Solutionpath)

- Draws data from multiple sources
  - Library, registers, VLE
- Loads it into an individual student dashboard
  - Information about a live student in one location
  - Makes comparisons between students in that year on that cohort
- Information for needs of personal tutor
- Alerts when there is a problem
  - No engagement for a fortnight & academic failure
  - Sends an email to their tutor
- Space to build up notes about student engagement
  - Grades, feedback, extra-curricular activities, support from other services

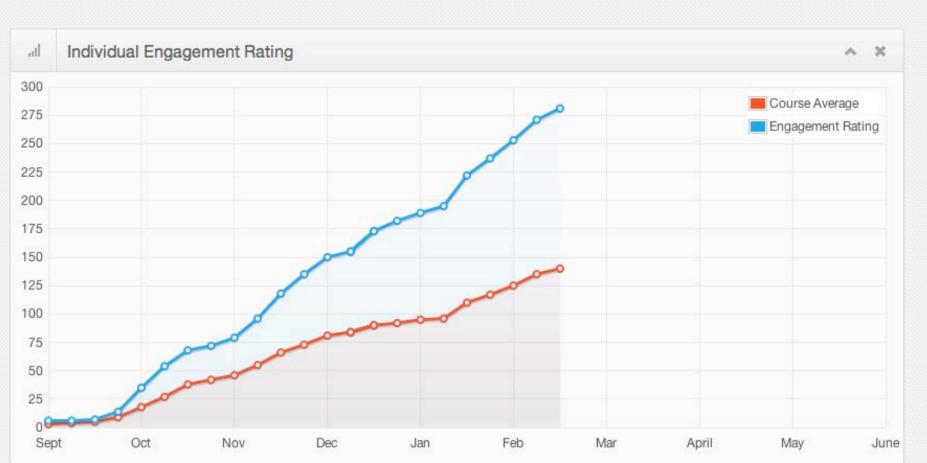




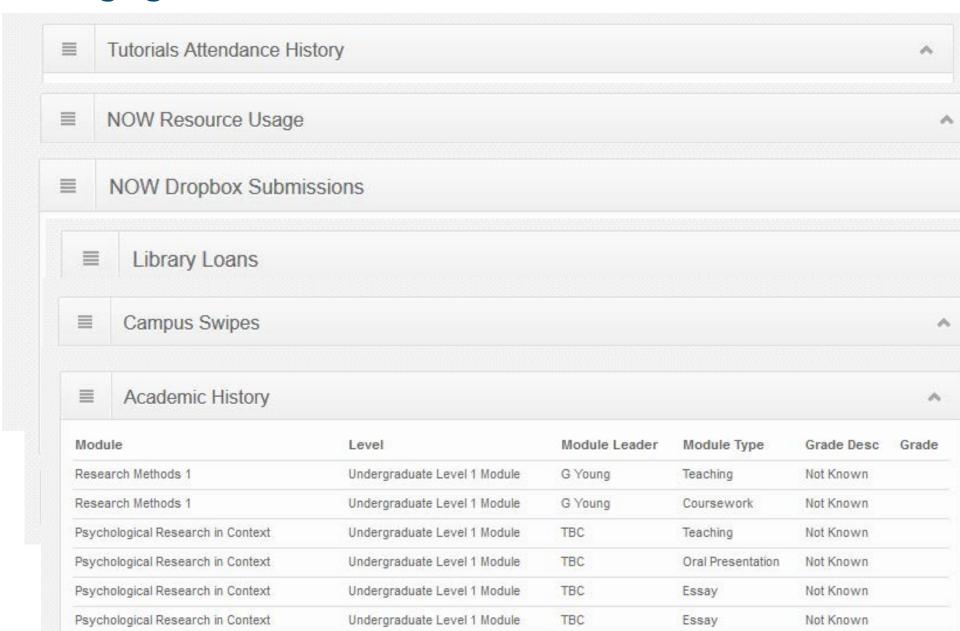
## Pilot year (2013-14)

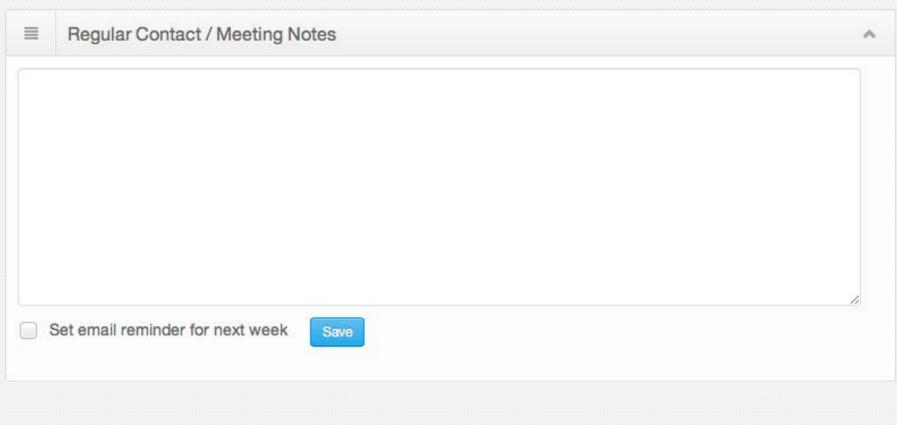
- Focus on tutors
  - 1 tutor to 8-12 students in tutorial groups
  - Interest in supporting tutors to guide students
  - Particularly in the first year
- Partner with **Solutionpath** 
  - Powered by IDOL 10
- Four first year courses, 40 tutors, over 500 students

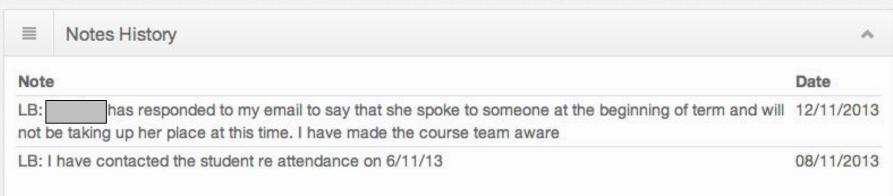




### Engagement based on student behaviour







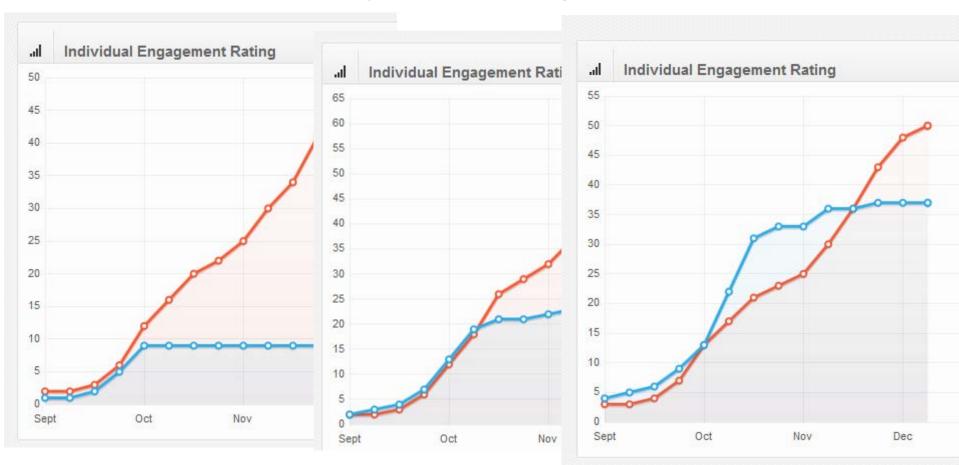
Community Work	Company Presentations	26
Job	Company Visits	
Summer School	Study Tours	
Gap Year	Mentoring of Others	
Mentoring	Course Representative	
Language	Role in Student Societies	
International Experience	Entrepreneurial Work	
Events Participated In		-
Summary of Year		7/



Mapping student withdrawal

#### Student withdrawal

- 29% of 1st year students with low engagement rating
  - Appear more at risk of early withdrawal/ failing to achieve potential



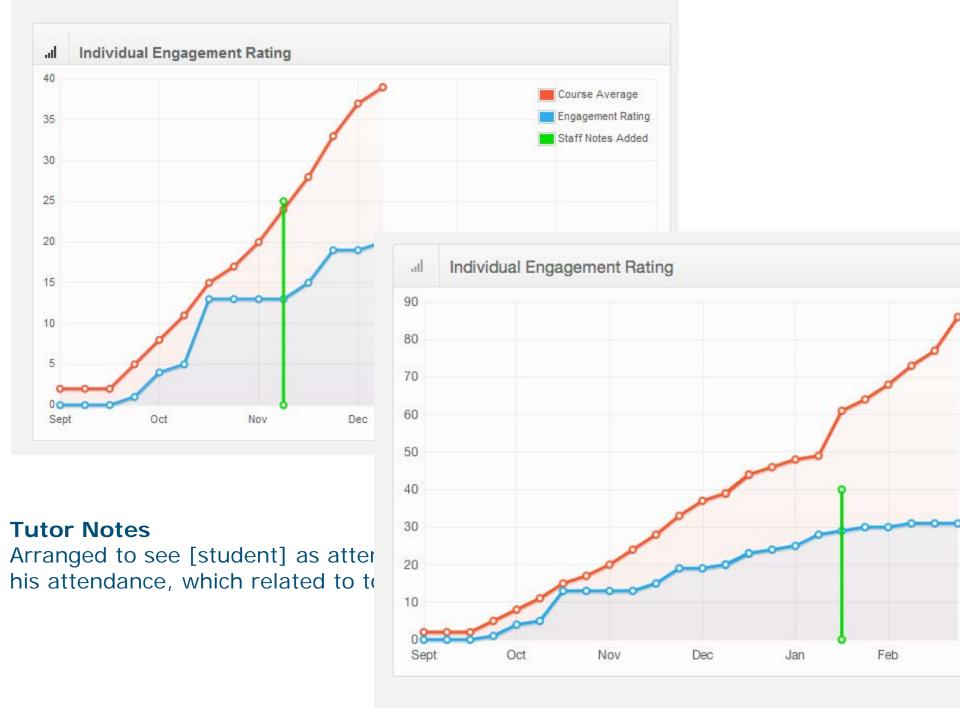
1st yr Arts & Humanities

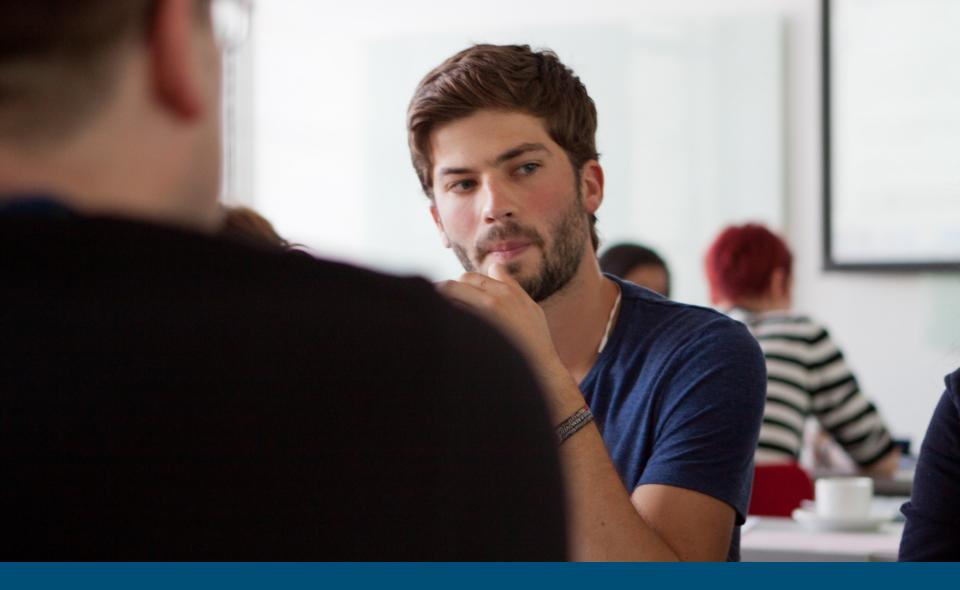
### Dashboard impact



#### **Tutor Notes**

18/11/13 Concerned about student attendance. Emailed student to request a meeting: added on 20131120 for NO\*\*\*\*\*





Feedback & learning so far

#### Feedback

- Most respondents using dashboard once per week (fairly minimal impact on workload)
- 83% reported that it had positively changed how they interact with their tutorial groups
- All staff we have spoken to want this as a tool in the future
  - "Useful to get a sense of the student's history. Useful to be prompted to send out an email to a disengaged student and useful to have a template for guidance on this."
  - "Students report pleased that they were being taken care of as they were used to this from school"

#### Student feedback

- Very strong interest
  - Can see the benefits
  - Actually expected that we knew this already
- Very strong concerns
  - Spying
  - What happens if they appeal/ have a marginal decision against them?





Thank you for listening

Any questions?

# Thank you for listening

• Do you have any questions?

