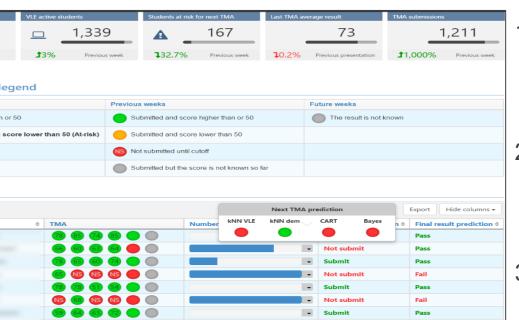
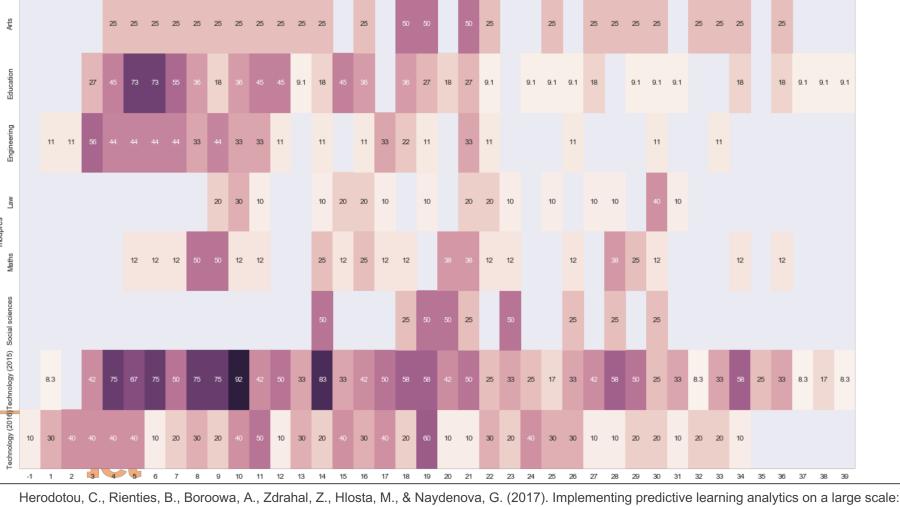


# So what happens when you give learning analytics data about students to teachers?



- 1. How did 240 teachers within the 10 modules made use of PLA data (OUA predictions) and visualisations to help students at risk?
- 2. To what extent was there a positive impact on students' performance and retention when using OUA predictions?
- 3. Which factors explain teachers' uses of OUA?

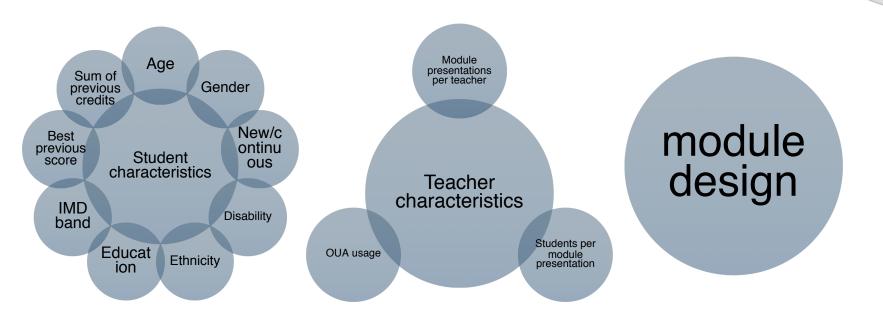


Herodotou, C., Rienties, B., Boroowa, A., Zdrahal, Z., Hlosta, M., & Naydenova, G. (2017). Implementing predictive learning analytics on a large scale: the teacher's perspective. Paper presented at the Proceedings of the Seventh International Learning Analytics & Knowledge Conference, Vancouver, British Columbia Canada no 267-271

# **Regression analysis**



Which factors better predict pass and completion rates?



# Logistic regression results (pass rates)



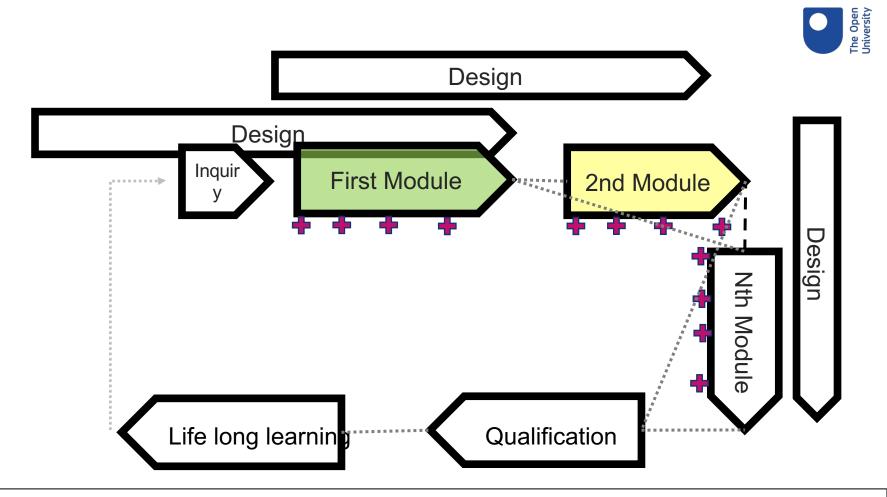
Significant model (pass:  $\chi^2 = 76.391$ , p < .001, df = 24).

- Nagelkerke's R2 = .185 (model explains 18% of the variance in passing rates)
- Correctly classified over 70% of the cases (prediction success overall was 70.2%: 33.5 % for not passing a module and 88.7% for passing a module).
- Significant predictors of both pass and completion rates:
  - •OUA usage (p=.006)
  - Best previous module score achieved (p=.005)
  - All other predictors were not significant.

OUA usage

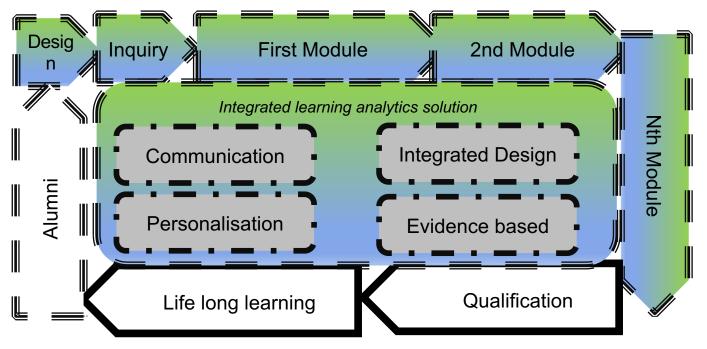
Best predictors of pass rates

Best previous score



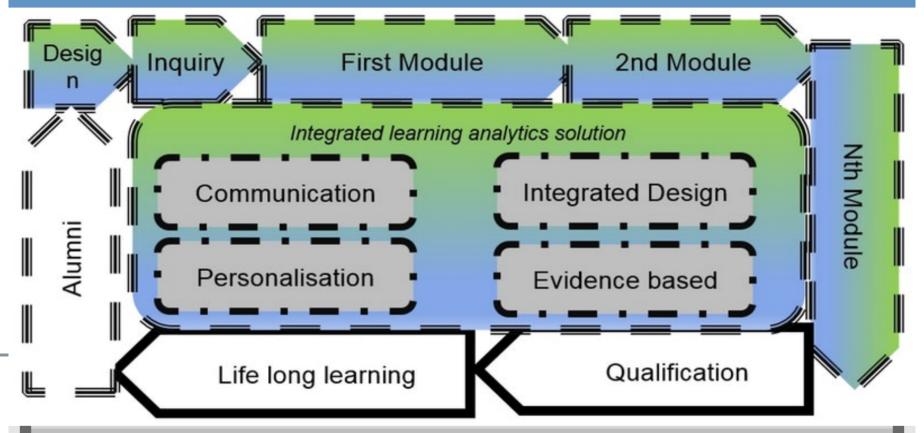
Rienties, B., Olney, T., Nichols, M., Herodotou, C. (2019). Effective usage of Learning Analytics: What do practitioners want and where should distance learning institutions be going? *Open Learning*.





Rienties, B., Olney, T., Nichols, M., Herodotou, C. (2019). Effective usage of Learning Analytics: What do practitioners want and where should distance learning institutions be going? *Open Learning*.

## Where do you think your institution should focus on in developing a LA strategy?



### I think that the OU UK is world-leading in learning analytics

1 Totally disagree

2 Disagree

3 Neutral

4 Agree

5 Totally agree

N/A I would not be able to tell you this



# Remaining issues



- Investment decisions made by OU: what choices were there, and what did we do?
- Investment and support of academic and professional staff
- What is the governance approach
- Training of teachers and staff to use analytics
- Our relations with commercial partners

