

The Jisc logo is located in the top left corner, consisting of the word "Jisc" in white sans-serif font on an orange rectangular background.

Jisc

The main title "Intelligent Campus" is rendered in a large, white, stylized graffiti font. The letters are thick and rounded, with many drips hanging from the bottom of each letter, giving it a paint-splattered appearance. It is centered on a background of a red brick wall with visible mortar lines.

Intelligent Campus

A solid orange horizontal banner spans the width of the slide, positioned below the main title. It contains the text "Intelligent Campus" and a subtitle in white.

Intelligent Campus

Using data to make smarter use of your university or college estate

What is the Intelligent Campus?



- » There has been plenty of hype over artificial intelligence and the internet of things.
 - » We believe it may be time to put aside the cynicism that this kind of hype generates and look seriously at how we can take advantage of these emerging technologies to improve the student experience, teaching, learning, libraries, research and the management of our campuses.
-

What are we doing?

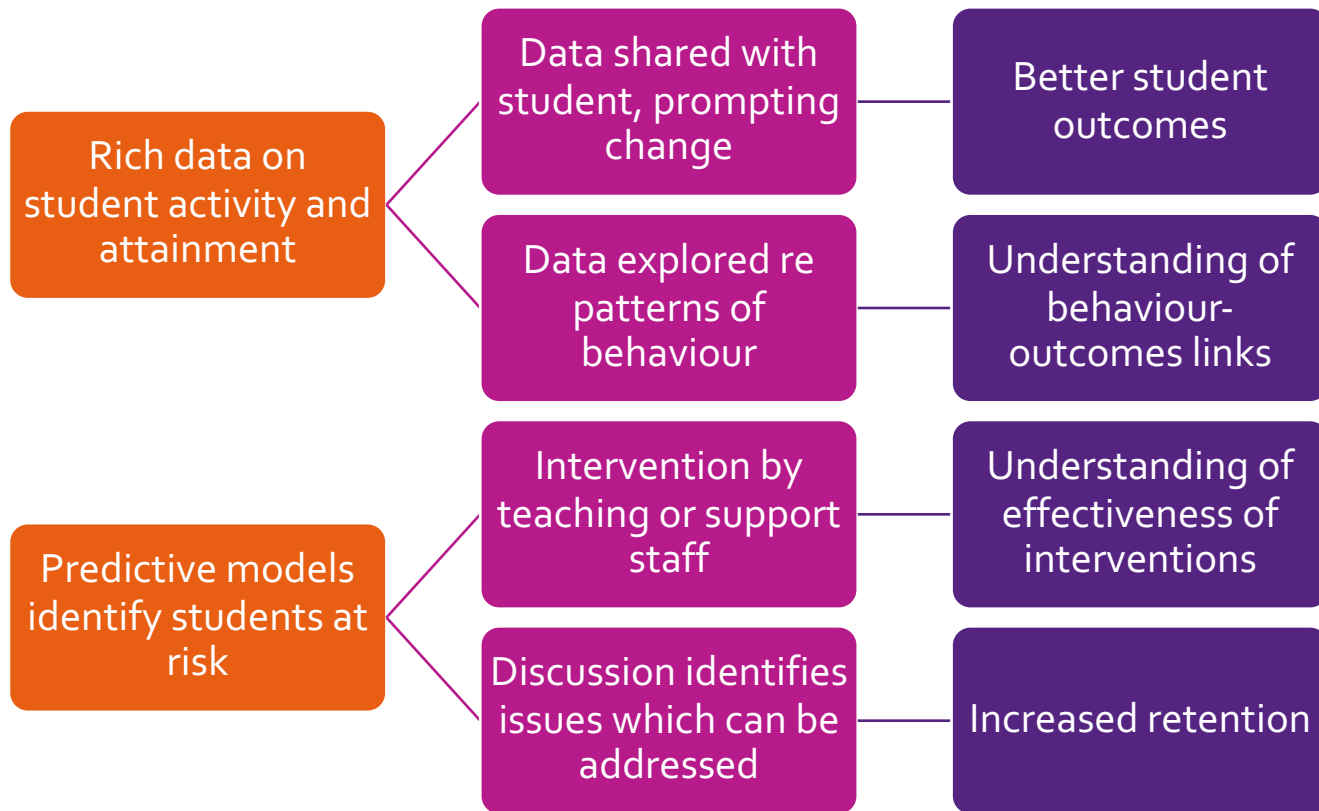
Using data to make smarter use of your estate

- » We're working on ways to **improve the student experience** by capturing and analysing the many kinds of data that can be collected across university and college campuses.
- » This research is developing alongside our **effective learning analytics** service.

What have we done?

What is learning analytics?

"learning analytics is the measurement, collection, analysis and reporting of data about learners and their contexts, for purposes of understanding and optimising learning and the environments in which it occurs"



» Learning Analytics Service

- › In August 2018, Jisc launched their UK wide learning analytics service.

» Rationale

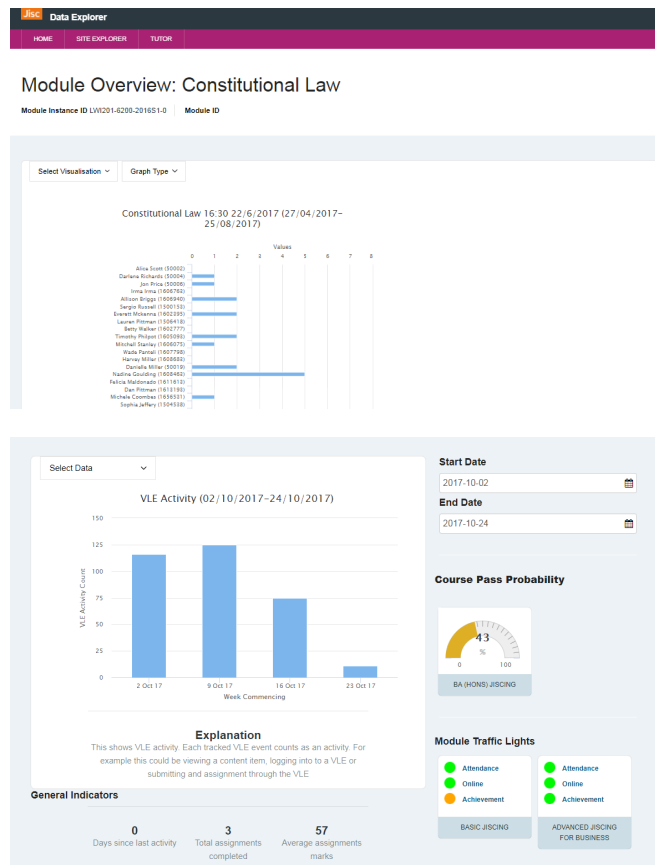
- › Organisations wanted help to get started and have access to standard tools and technologies to monitor and intervene

» Priorities identified

- › Code of Practice on legal and ethical issues
- › Develop a core learning analytics service with app for students
- › Provide a network to share knowledge and experience

» Data Explorer Release 2.0

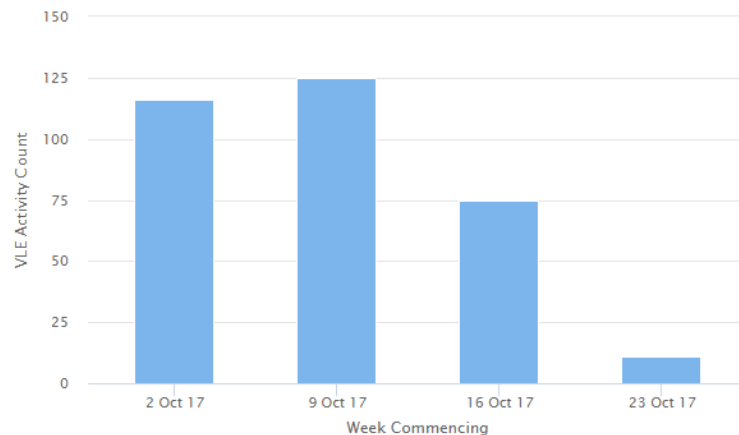
- › View data in learning records warehouse
- › Site Overview – overview of all data
- › My Students and My Modules
- › RAG Status and predictive models



Select Data



VLE Activity (02/10/2017-24/10/2017)



Explanation

This shows VLE activity. Each tracked VLE event counts as an activity. For example this could be viewing a content item, logging into to a VLE or submitting and assignment through the VLE

General Indicators

0

Days since last activity

3

Total assignments
completed

57

Average assignments
marks

Start Date

2017-10-02

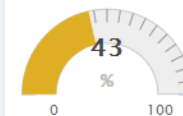


End Date

2017-10-24



Course Pass Probability



BA (HONS) JISCING

Module Traffic Lights



Attendance



Online



Achievement

BASIC JISCING



Attendance



Online

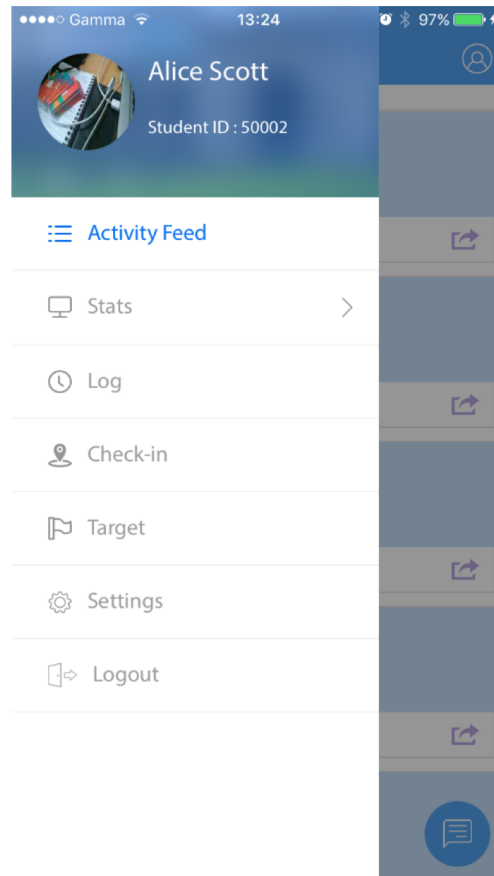


Achievement

ADVANCED JISCING
FOR BUSINESS

» Study Goal

- › Social learning app with gamification
- › Setting targets and logging self-declared activity (fitbit model)
- › View activity and attainment data
- › Student Attendance Check-in



The intelligent campus project

- » At the core of the learning analytics service is the **Learning Data Hub** where academic and engagement data is collected, stored and processed.
- » We'll **extend** the Learning Data Hub to enable data to be gathered in from **physical places** (movement trackers, heat and CO₂ sensors, for example) and from systems that record and monitor space and equipment usage, timetabling and other activities.

- » By analysing when and how rooms are **used** organisations will be able to make **smarter, more effective** use of learning spaces and other facilities across campus and to **improve** curriculum design and delivery.
- » Making **timely interventions** to ensure that the best available spaces are being used for each session will enable students to learn more **effectively** and ensure that the organisation is running **efficiently** – but this is only the start.

What does it look like?

Presentation and action



The intelligent estate



Enhanced student experience



Intelligent learning spaces



Intelligent workspace



Smart city



Smart experiments



Intelligent library

Data storage and analysis



Learning analytics processor



Learning data hub



Data aggregator

Data collection

UDD Transformation Toolkit

Plugins and/or Universal xAPI Translator



Student records



Estate data



Mapping



Tracking



Attendance



Library



VLE



Timetabling



Calendar



Utilisation



Energy

Presentation and action

The intelligent estate



Enhanced student experience



Intelligent learning spaces



Smart city



Intelligent library





Why?



Issues

Ethics

Consent

GDPR

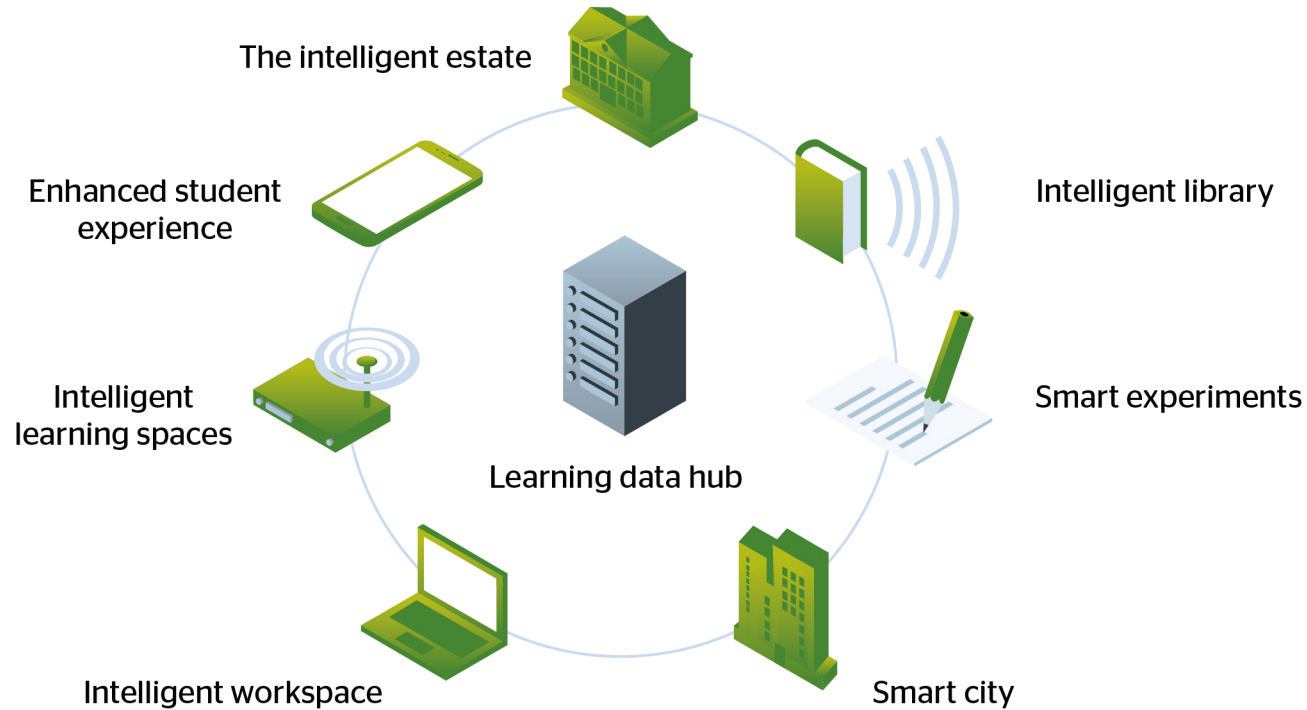
Technical

Validity

Do we want to?

Should we?





Get involved

- » Go to the Intelligent Campus webpage
 - › <https://jisc.ac.uk/rd/projects/intelligent-campus>
- » Follow the Intelligent Campus blog
 - › <https://intelligentcampus.jiscinvolve.org>
- » Join the mailing list
 - › <https://www.jiscmail.ac.uk/cgi-bin/webadmin?SUBED1=INTELLIGENTCAMPUS&A=1>
- » Join the Twitter conversation: #intelligentcampus

Any questions?

