



Universiteit
Leiden

KU LEUVEN

TU Delft

TU
Graz

SEFI

NOTTINGHAM
TRENT UNIVERSITY

My Attendance

Home / Attendance

Overall Attendance from Monitored Sessions

97%

Show 10 entries

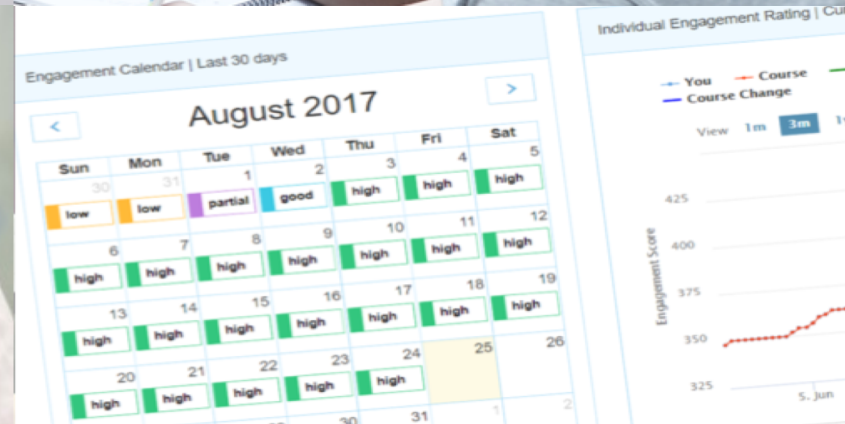
Week Commencing

01/05/2017

08/05/2017

24/04/2017

Showing 1 to 3 of 3 entries



Going beyond the pilot: LSAC 2018

Ed Foster, Emma Hynd, Rebecca Siddle

Session outcomes

- Explore the implementation of learning analytics at NTU
- Insights from STELA & ABLE Erasmus+ projects

Learning Analytics at NTU



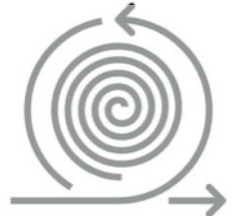
Student Success



Student/ Staff Relationships



Student Self-Reflection



Institutional Data

How do we identify students 'at risk'?

Data-driven approaches to support tutors/ wider institution

- Tutor/ student relationship

- Observation/ interaction
- Students seeking help

- **Issues**
- Hard to scale
- Works with students who have been engaged
- Unknown - unknowns

- Student Background

- SE background
- Entry qualifications

- **Issues**
- Genuine gaps
- Blanket approach
- Risks stereotyping

- Student Engagement

- Attendance
- Learning Analytics

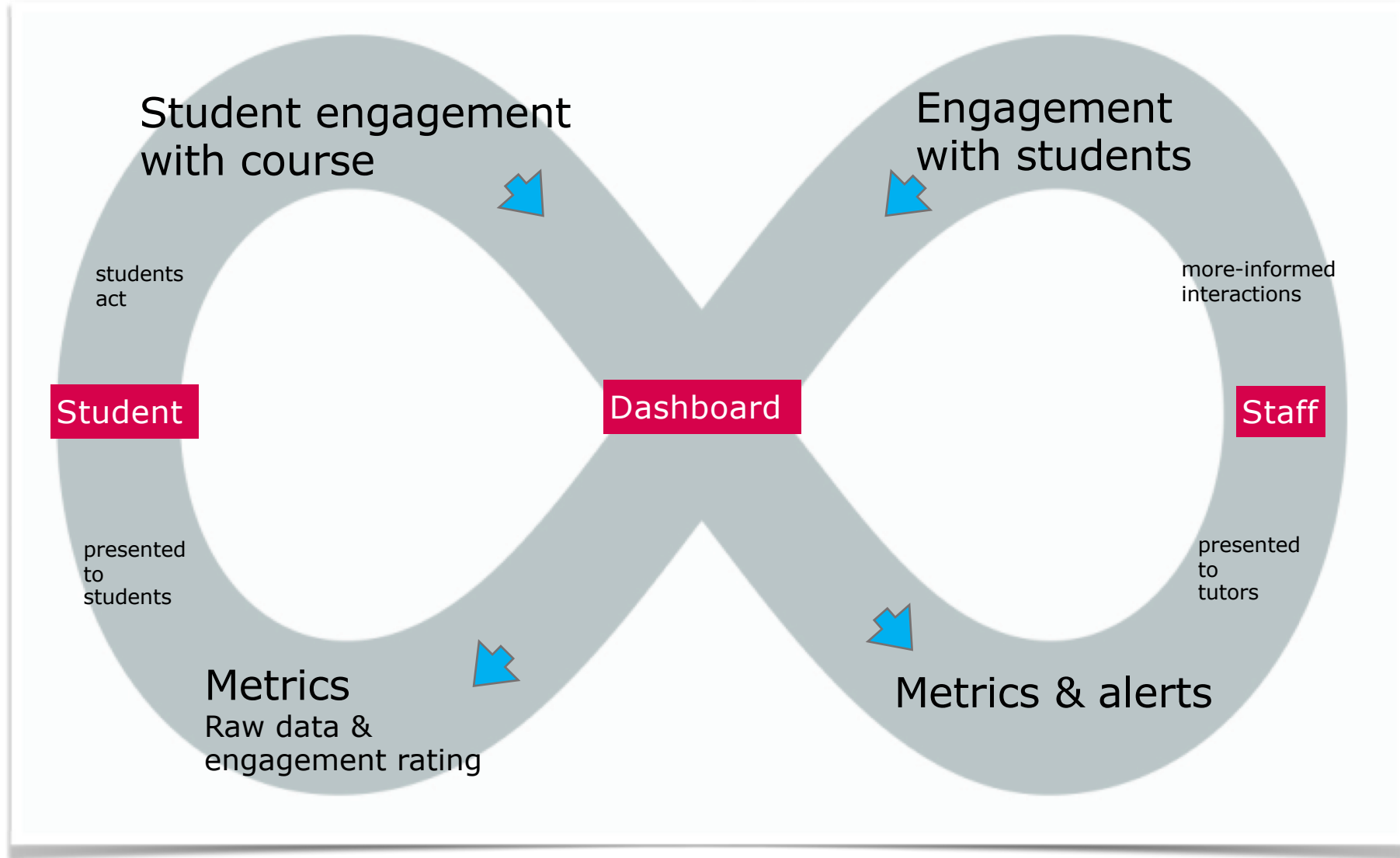
- **Issues**
- Strong personalized predictor
- Requires institutional infrastructure & interpretation/ understanding

- Academic Outcomes

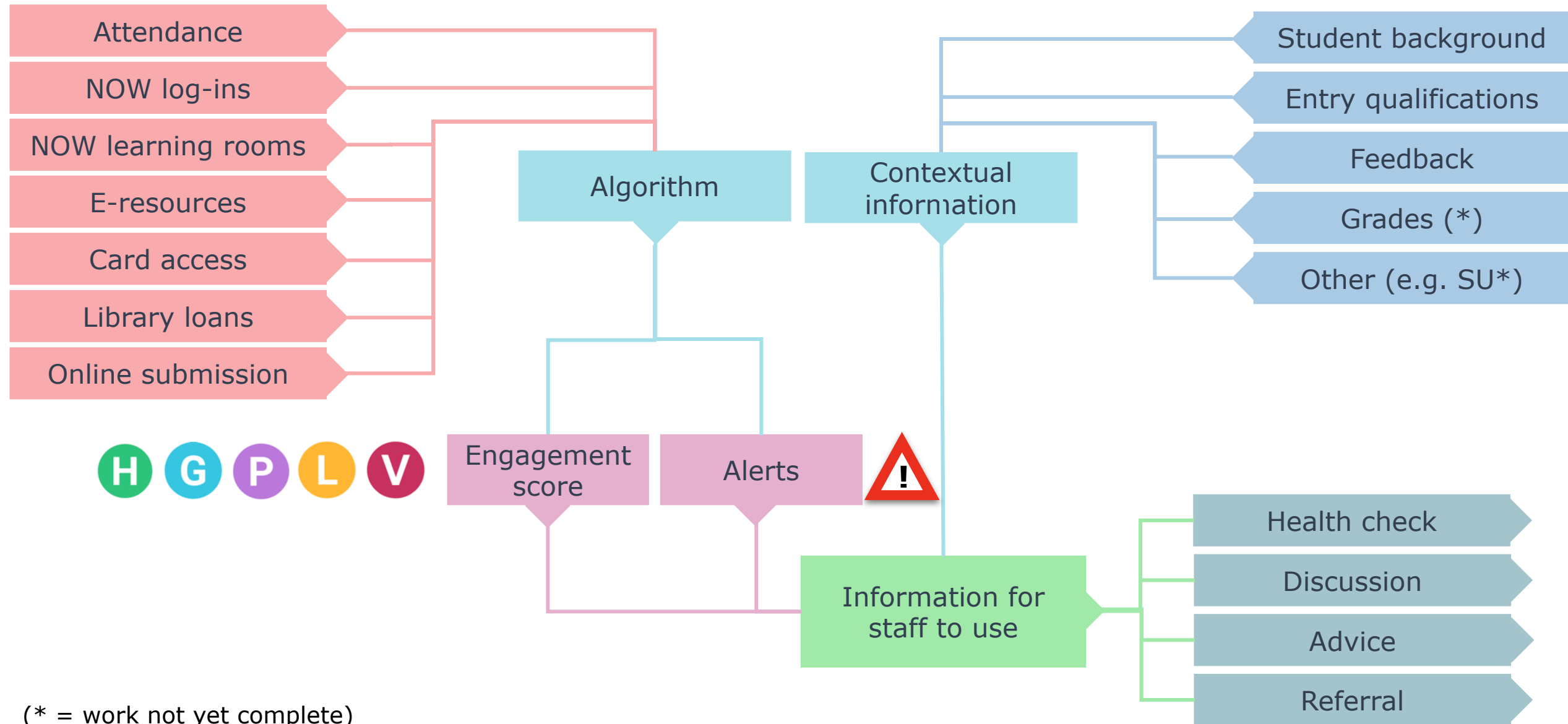
- Assessments
- **Issues**
- Often too late
- Formative/ diagnostic assessment not 'real'

Fitting the Dashboard into the institutional ecosystem

Two agents of change model



How the Dashboard works



Student Dashboard Landing Page



Attendance
(Last 28
days)

n/a

Engagement
Yesterday

G

ENGAGEMENT

PROFILE

NOTES

ATTENDANCE

RESOURCES

ASSESSMENTS

Here you can view the engagement ratings for every day. Engagement is calculated every night by reviewing your use of the University's resources. A detailed individual breakdown of these can be viewed on the Resources page.

From
12/07/2018

To
19/09/2018

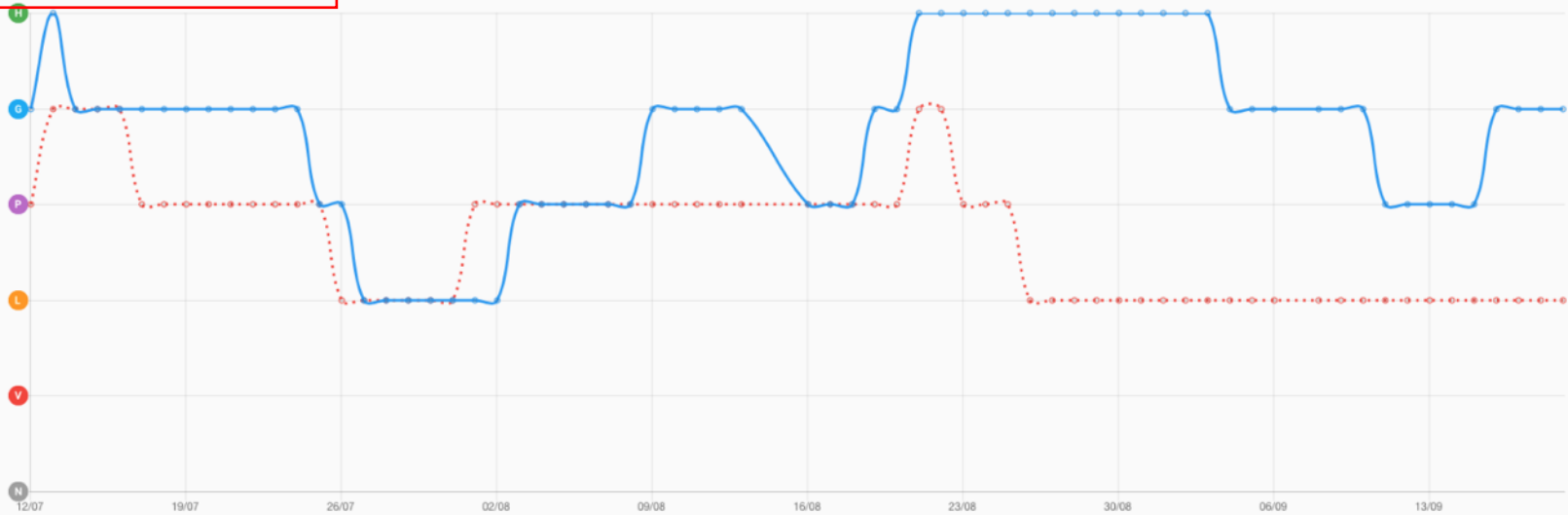
Daily

Cumulative

☒ Notes ☒ Alerts ☒ Course change ☒ Cohort Average

☐ Top 25% ☒ Exemptions

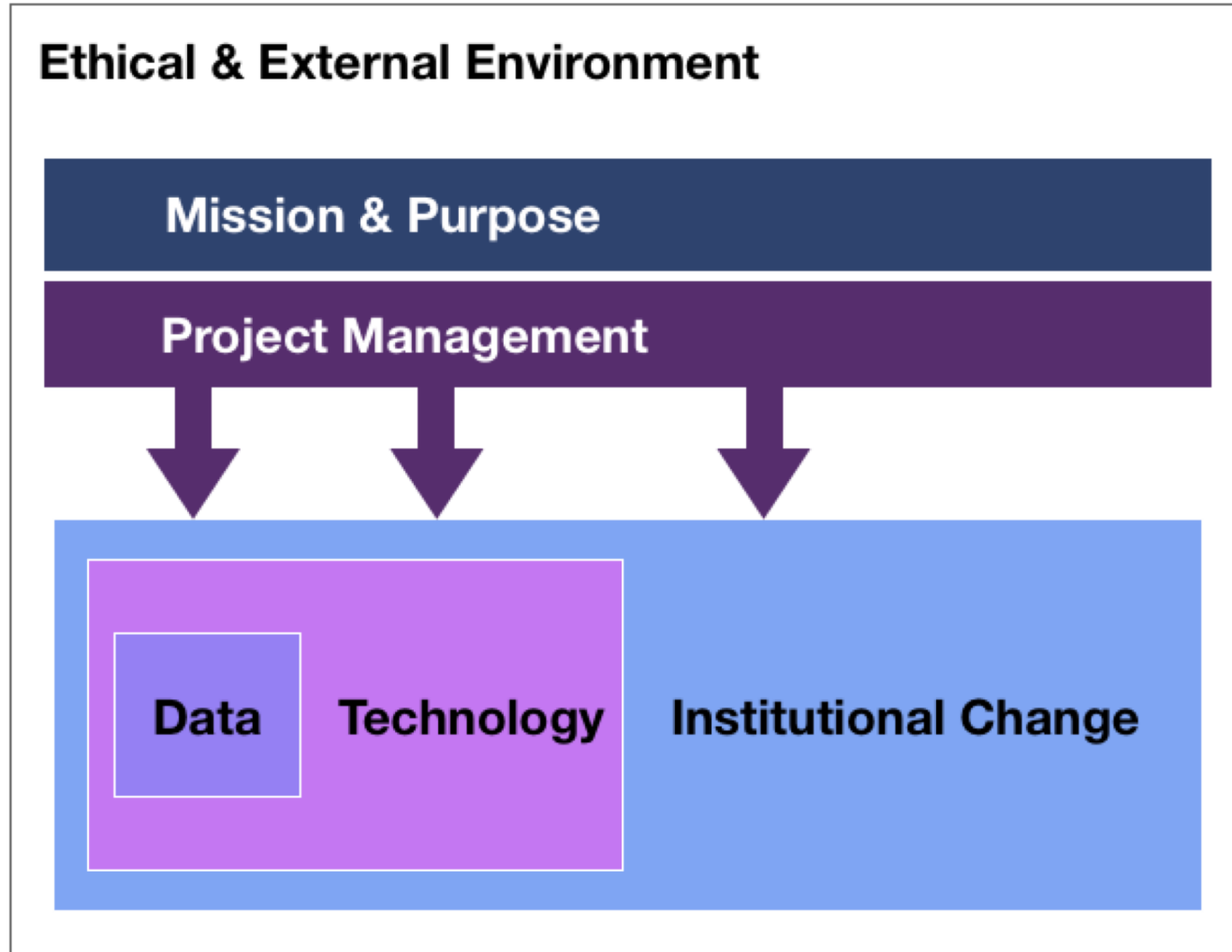
Last week Last 4 weeks Last 10 weeks



Engagement Breakdown ⓘ



Modelling implementing change



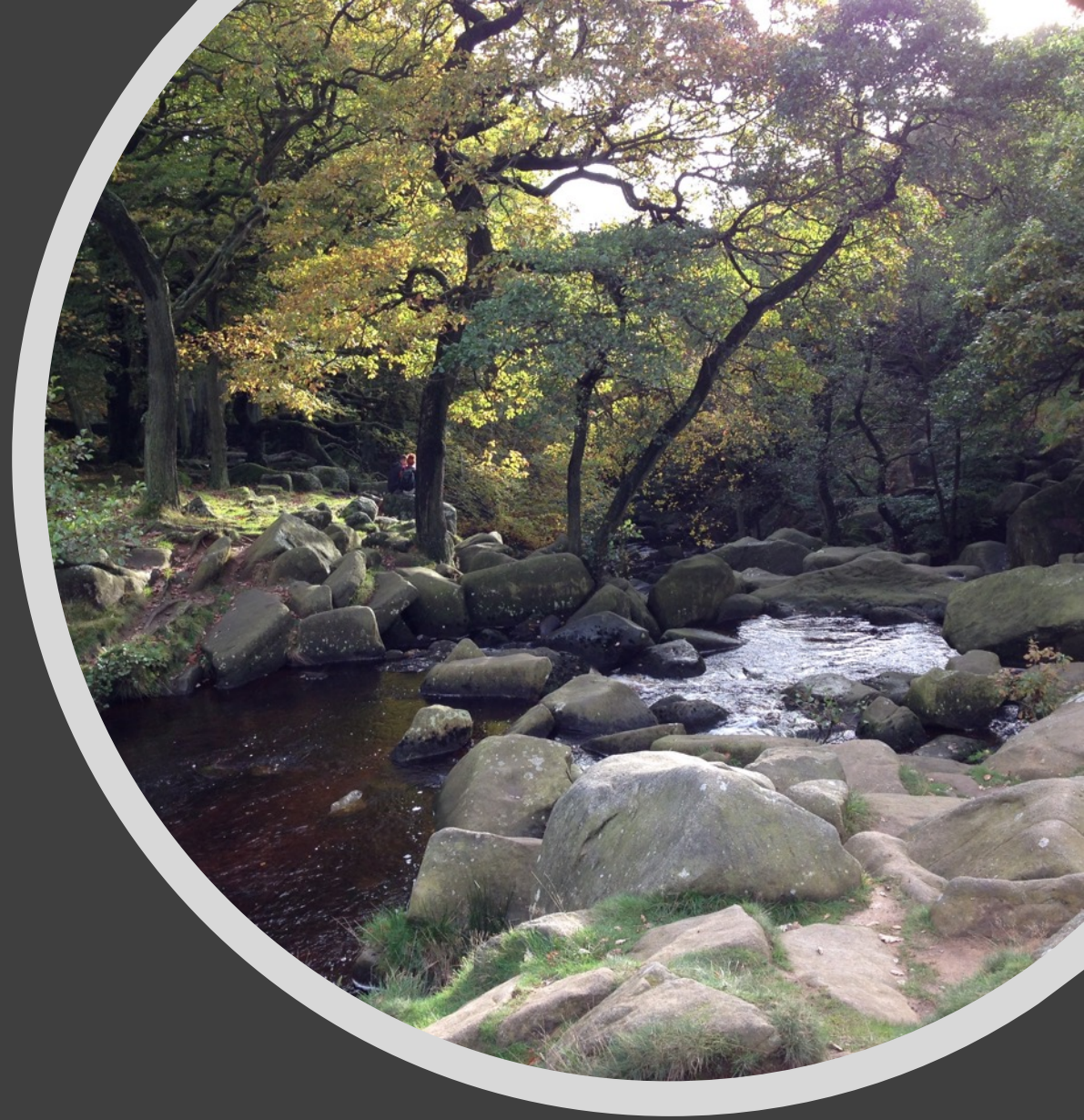
Developed by the ABL
Project (2015-2018)

- Nottingham Trent University
- KU Leuven
- Leiden University

Student feedback is from
the Student Transition
Survey (STS)

Ethics & External Environment

- Challenges
 - Legal & safe use of data/ privacy
 - GDPR
 - Student perceptions of 'big brother'
 - Staff perceptions of 'big brother'
- Our actions
 - Lots of consultation with legal services
 - Student consultation through surveys & representatives
 - e.g. 97% of respondents want to know that they're at risk of failing (STS 2017)
 - User group
 - Ethical use of data policy



Vision



- Challenges

- At NTU we have a strong vision articulated around student success, but it still requires detail
- This is new technology (still sci fi possibilities)

- Our actions

- Implementation , governance & user groups
- Surveys & other consultation
- StREAM user group

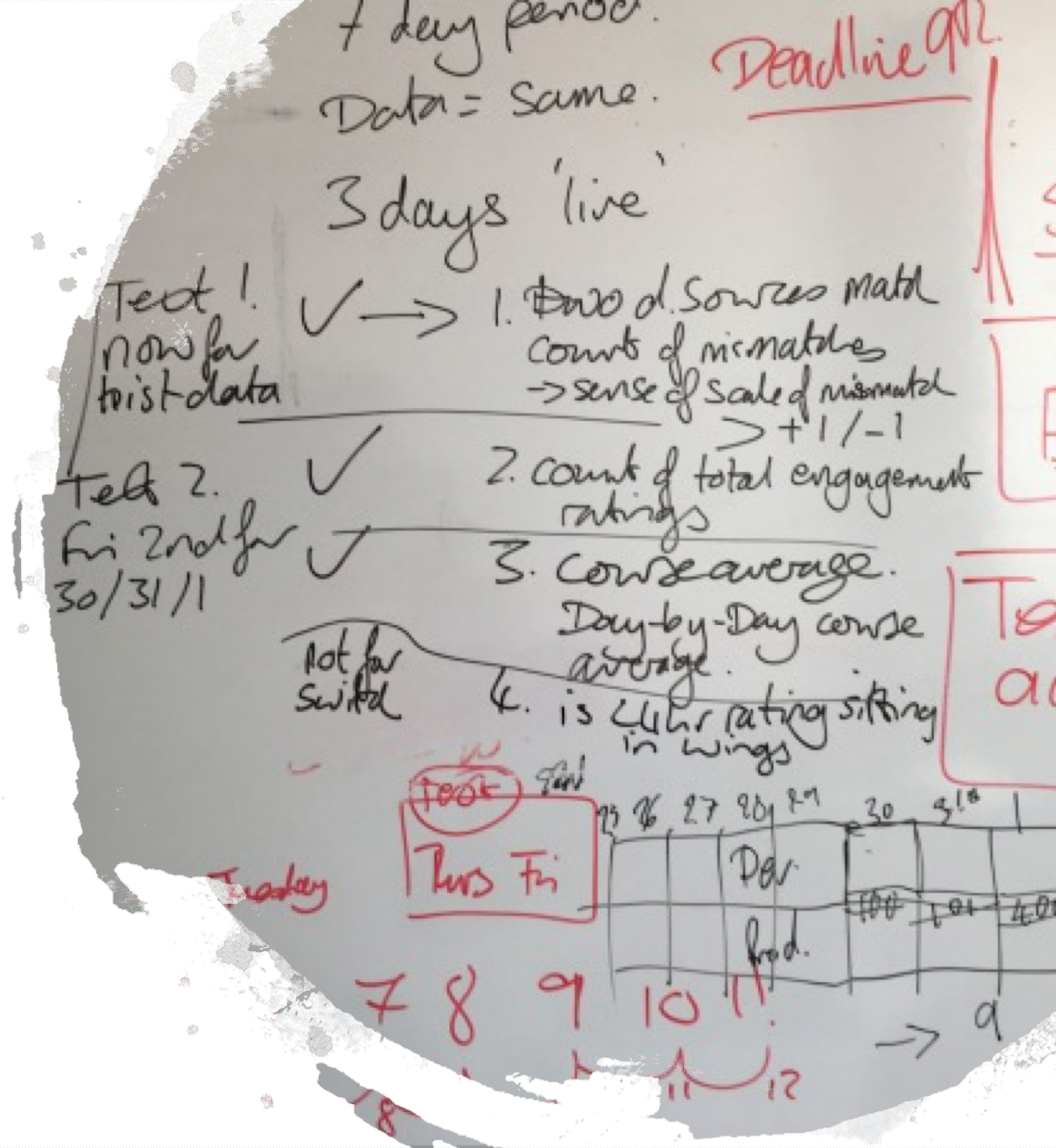
Project Management

- Challenges

- Implementing LA is complex; it inverts the normal rules for IT development
- Piloting can be almost as difficult as whole institutional implementation

- Our Actions

- Normally used full PM process (Prince2)
- Business owner to represent the end users
- Experience from STELA project



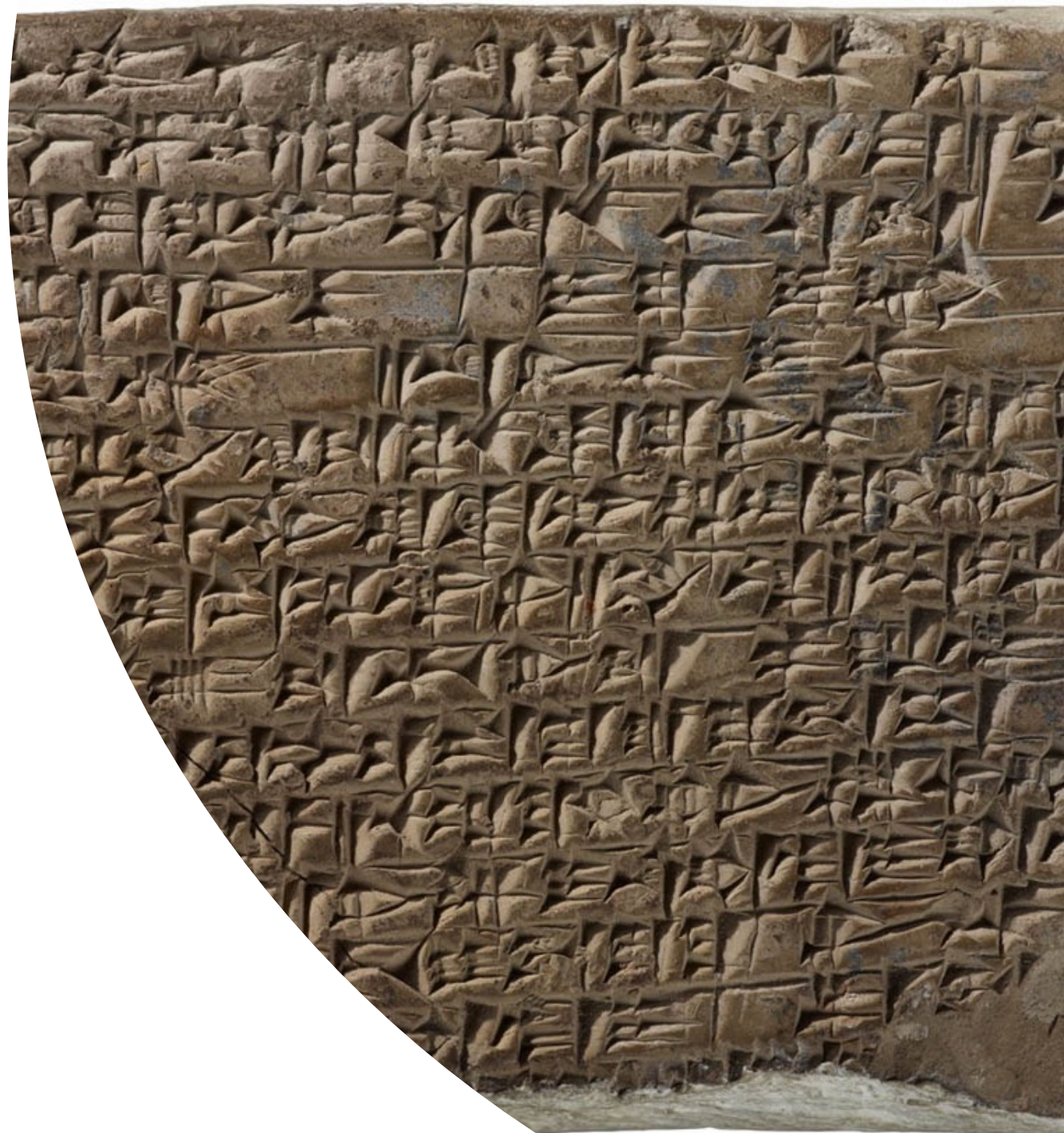
Data

- Challenges

- Institutional data warehouses are not as good as you or your Director of IS believe
- Data not designed to be shared
- Variety of data owners
- Data owners act without consideration to downstream needs
- Staff time

- Our Actions

- Meetings, meetings, yet more meetings
- End user champion
- Project management
- Senior leadership champion



Technology

- Challenges
 - The perfect tool needs perfect understanding of your institution and your systems
 - No vendor/ internal IS specialist has this
 - There is no single institution
- Our actions
 - Did we mention the meetings?
 - Project management
 - Vendor access to end users



Cultural Change

- Challenges

- Data literacy
- Change agents' time, energy, skill
- Alien way of thinking

- Our Actions

- Student and staff consultation
- Giving student feedback to staff
 - E.g. Socially-disadvantaged students find Dashboard more useful (STS, 2017)
 - 73% of students really value a tutor using the Dashboard in tutorials (STS, 2018)
- Staff development
- Changes where possible to the resource



Conclusion

- Implementing institutional learning analytics is a difficult change management process
- And slow
- However, we can still see value in doing so
- Further information available at
 - <http://stela-project.eu>
 - <http://www.ableproject.eu>
 - <https://livinglearninganalytics.blog>
- Thank you
- Does anyone have any questions?