

My Attendance

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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



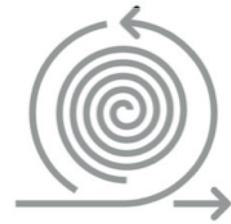
Student Success



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

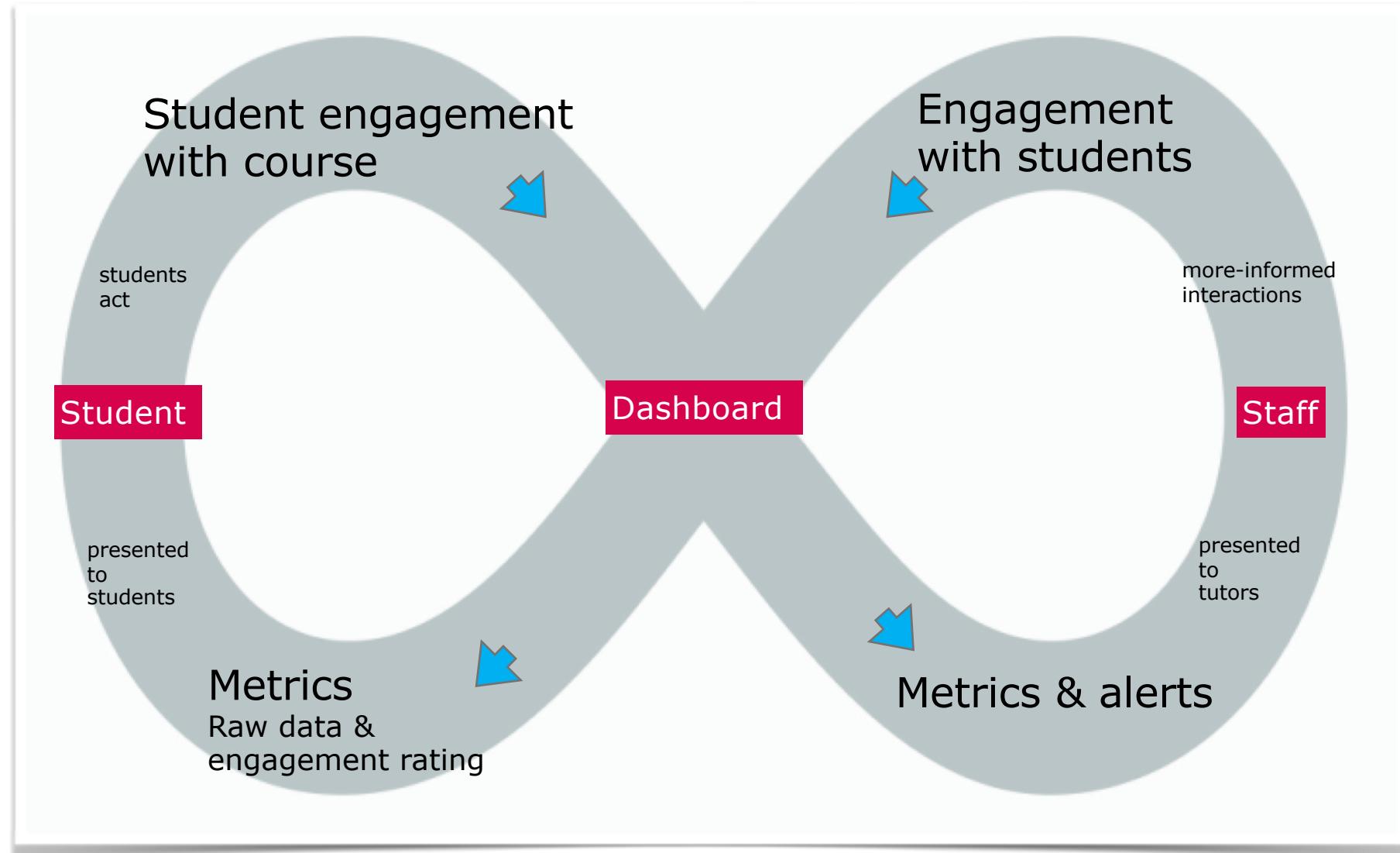
- Student Background
 - SE background
 - Entry qualifications
 - **Issues**
 - Genuine gaps
 - Blanket approach
 - Risks stereotyping

- Student Engagement
 - Attendance
 - Learning Analytics
 - **Issues**
 - Strong personalized predictor
 - Requires institutional infrastructure & interpretation/ understanding

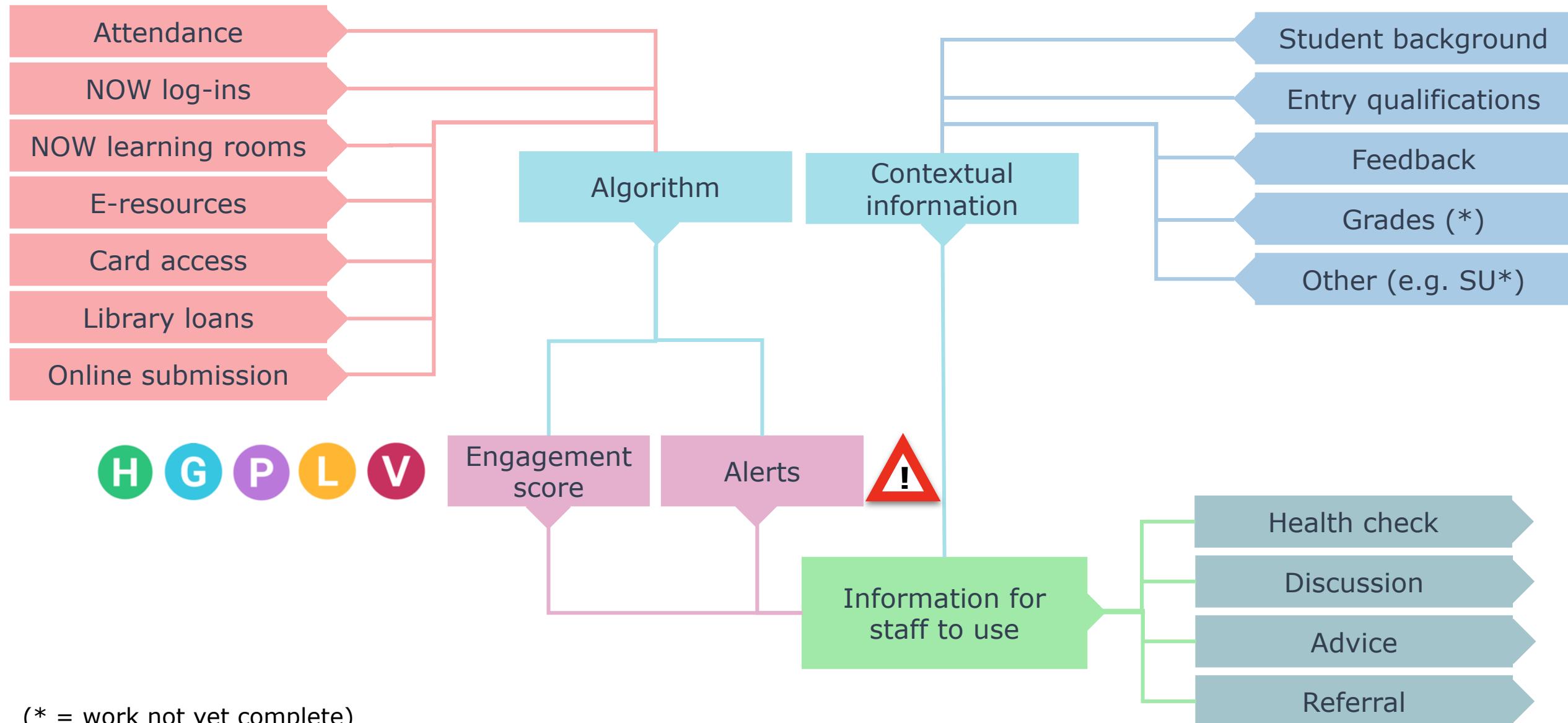
- Academic Outcomes
 - Assessments
 - **Issues**
 - Often too late
 - Formative/ diagnostic assessment not 'real'

Fitting the Dashboard into the institutional ecosystem

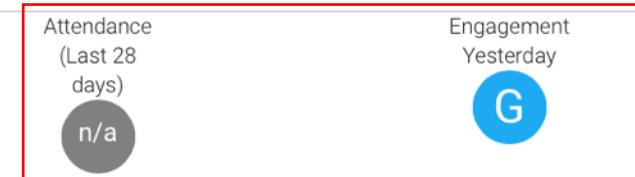
Two agents of change model



How the Dashboard works



Student Dashboard Landing Page



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

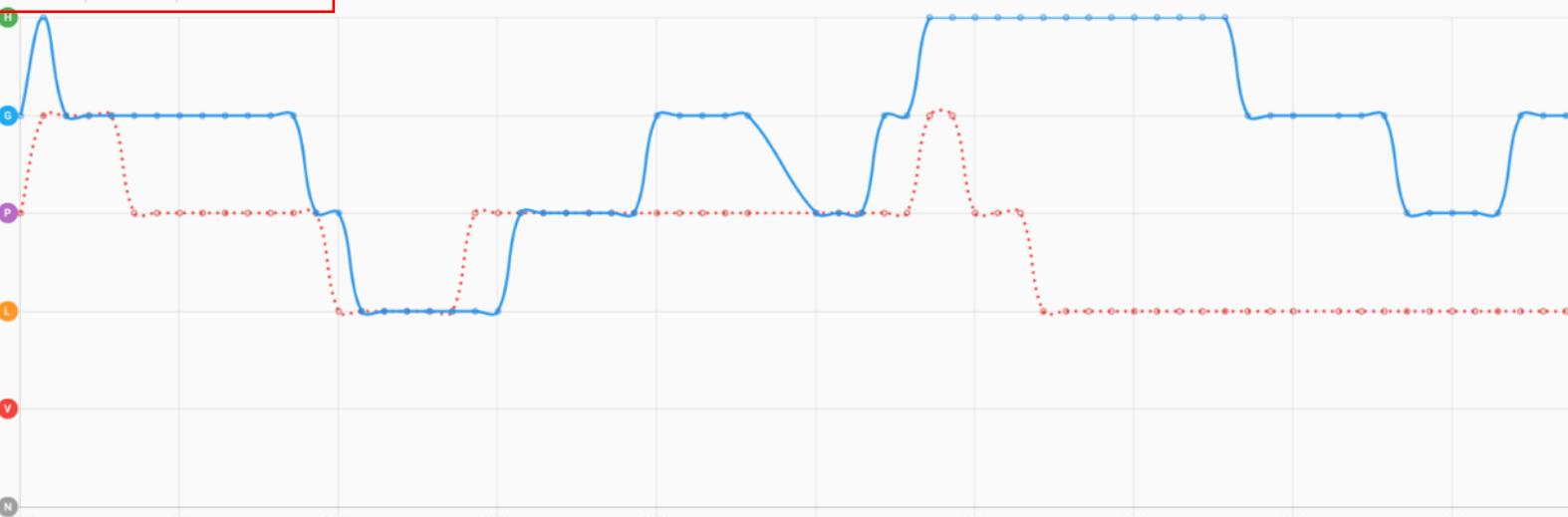
Cumulative

Notes Alerts Course change Cohort Average

Top 25%

Exemptions

Last week | Last 4 weeks | Last 10 weeks



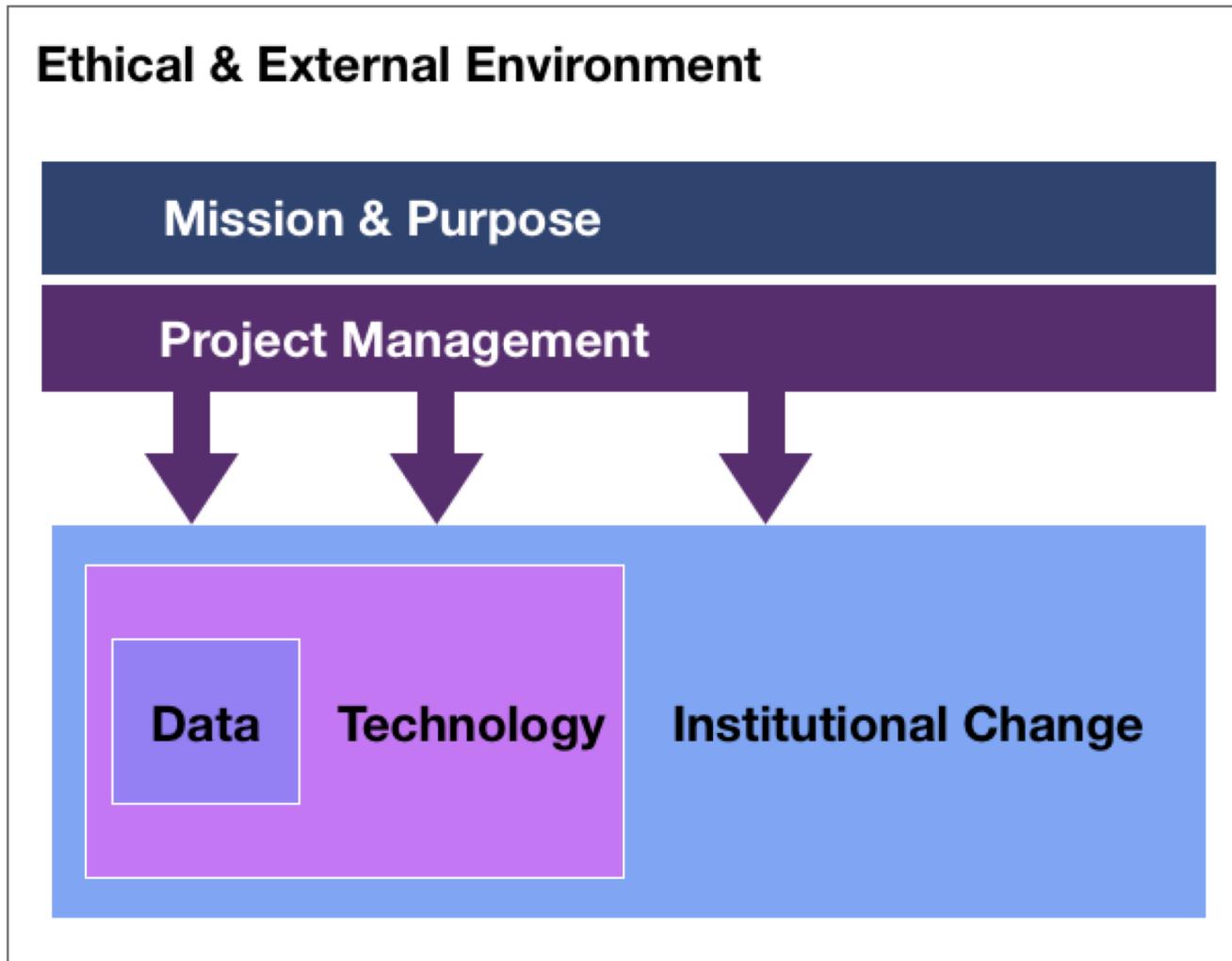
Engagement Breakdown ⓘ



September 2018

S	M	T	W	T	F	S
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	1	2	3	4	5	6

Modelling implementing change



Developed by the ABLE 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

+ day period.
Data = same.
Deadline Q1

3 days 'live'

Test 1
now for
first data

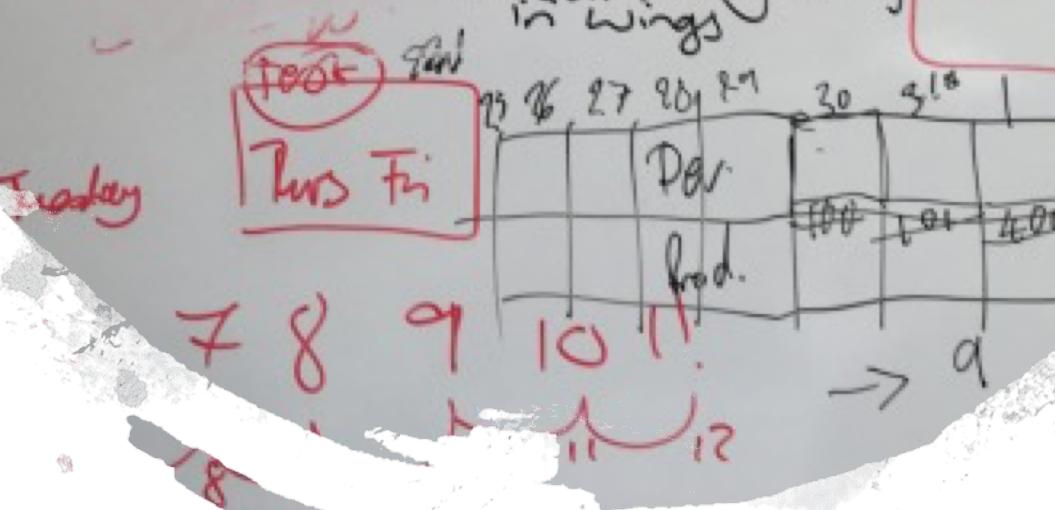
- ✓ → 1. Count of sources match
count of mismatches
→ sense of scale of mismatch
→ +1/-1

Test 2. ✓
Fri 2nd for J
30/31/11

- 2. Count of total engagement
ratings

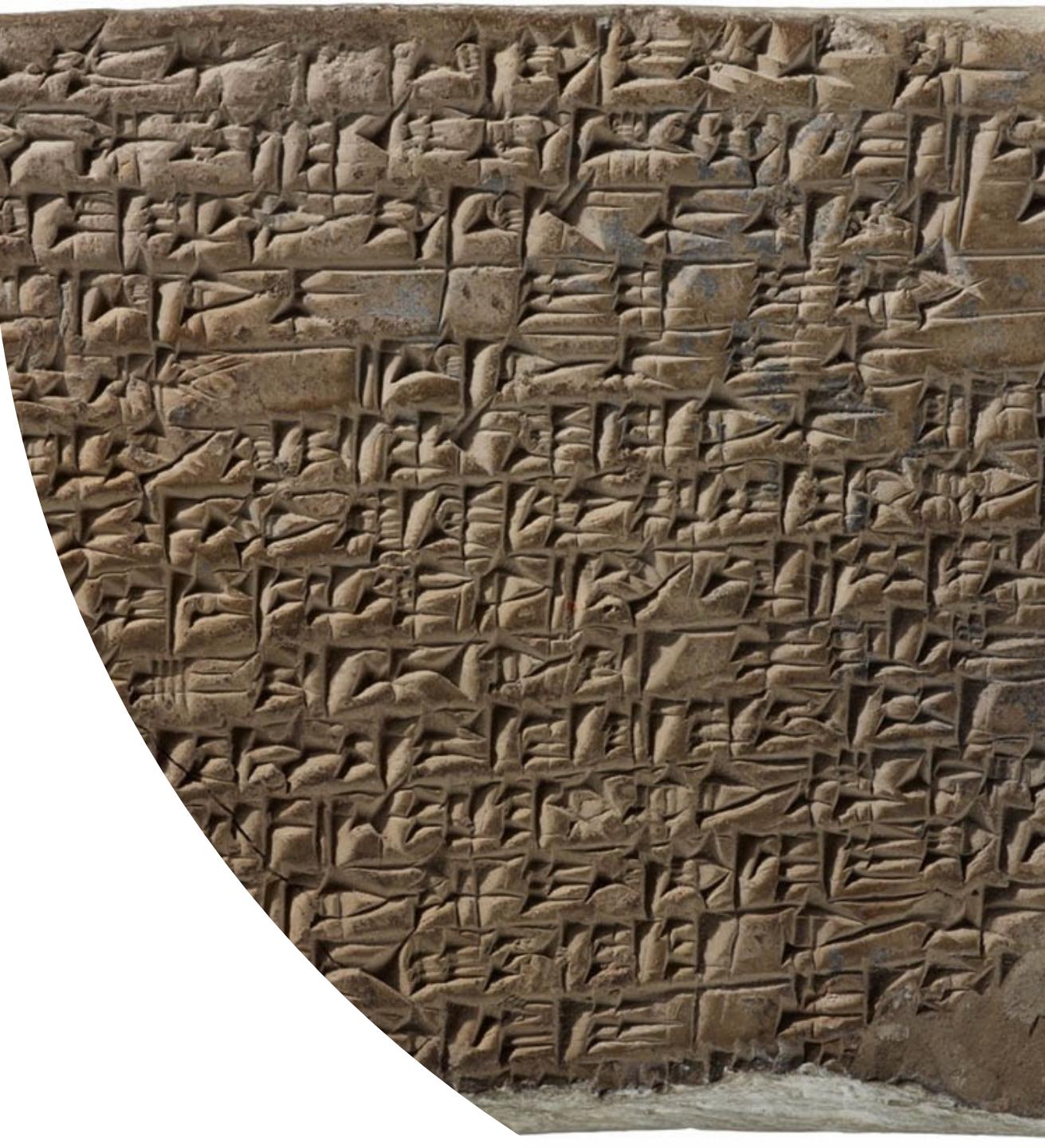
3. Course average.
Day-by-Day course
average

- 4. is 4hr rating sitting
in wings



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?