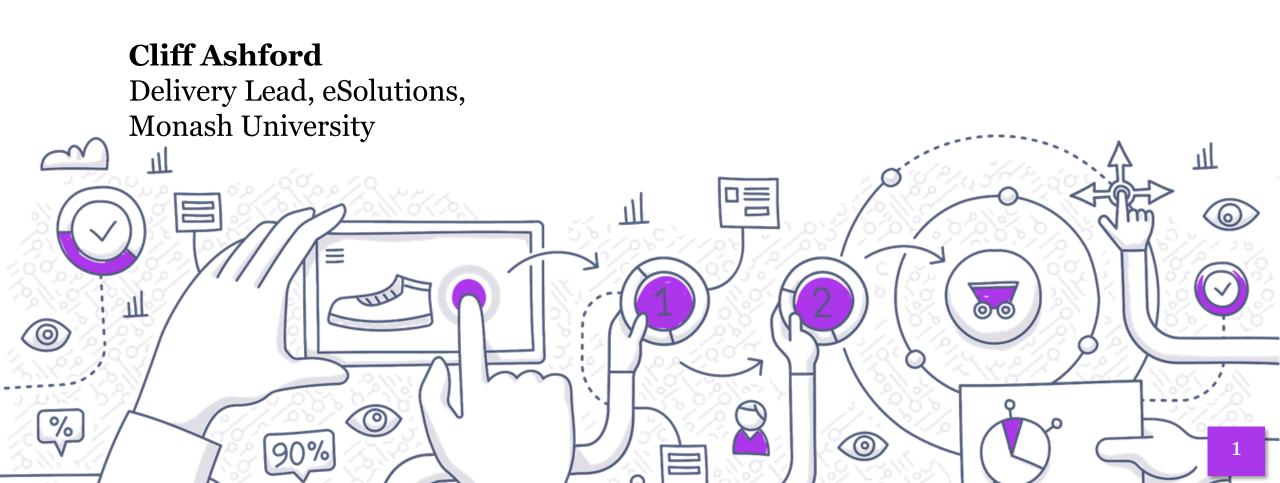


- Scalable Authentic Assessment in the Information Age (A Year of Living Dangerously)

July 2019



GLOBAL FOOTPRINT



STUDY ABROAD EXPERIENCES INCOMING TO AUSTRALIA

4500 +**OUTGOING TO PLACES AROUND THE WORLD**



()

Any idea what he's doing?

LINCOL

ELECTRIC



GINCL



What?





Creation

- Ways to test knowledge
- Validating method
- Reuse / Rework
- Security

Staging

- Quality Assurance
- Scheduling
- Risk Planning
- Security
- Measurement

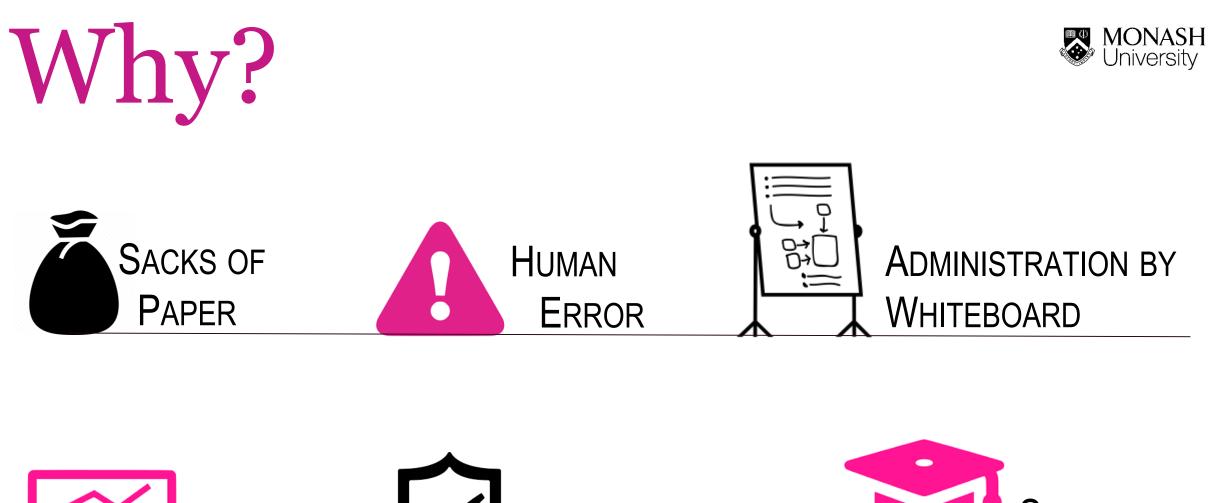
Sitting

- Invigilation
- Monitoring
- Medical
- Cheating
- Security
- Measurement



- Marking
- Management
- Bias
- Adjustment
- Security









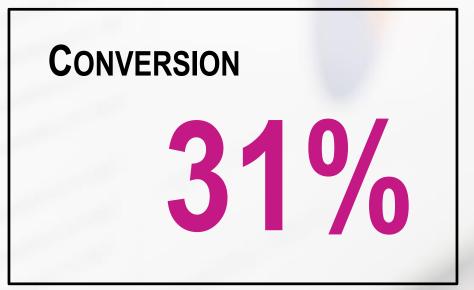




MONASH UNIVERSITY ADMINISTERS 360,000 SITTINGS ANNUALLY

125,000 ON CAMPUS (PER SEMESTER)

600 SEMESTER ONE 2018 10,000 SEMESTER TWO 2018 37,000 SEMESTER ONE 2019 40,000 SEMESTER TWO 2019



Who?

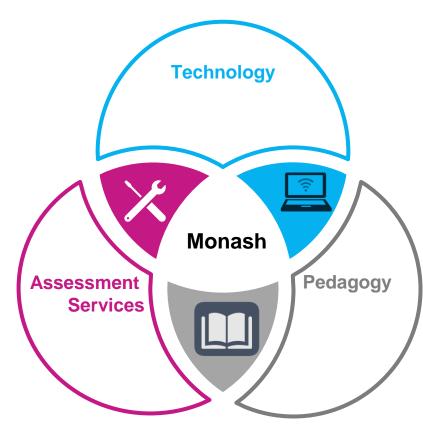
Assessment Services

Operational exam delivery, event management, venue set up, invigilation, exam creation, BYOD, contingency arrangements, delivering at scale.



X

Vern Garth, Assoc. Director, Exam Services, SEBS





Cliff Ashford, Delivery Lead, eSolutions

Technology



Platform stability & robustness, security, wi-fi, scalability, technical development, user experience, laptops, BYOD, venue fit-out.

Pedagogy



Authentic assessment, sound pedagogical design, faculty and student engagement, education innovation.



Kris Ryan, Academic Director Education Innovation



Who?





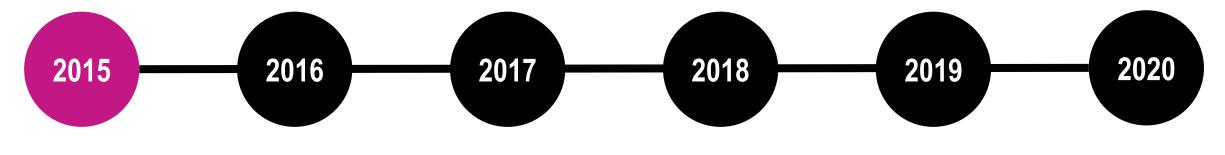


Timeline...

SMALL PILOT

- 3 UNITS
- FACULTY OF LAW, BUSINESS & ECONOMICS, IT
- VENDOR MANAGED SOFTWARE AND HARDWARE
- 100 STUDENTS PER SITTING
- MULTIPLE CHOICE + SHORT ANSWER
- WI-FI NETWORK

"WE NEED TO DO SOMETHING IN THIS AREA..."







Timeline...

2019 2015 2016 2018

2017

MARKET SCAN

- **5** VENDORS ٠
- 7 LOCAL AND INTERNATIONAL UNIVERSITIES ٠

RE-EXAMINE ORIGINAL REASONING

- CORE FUNCTION OF AN INSTITUTION
- MASTERS OF OWN DESTINY
- FOCUS ON STUDENT EXPERIENCE •
- UNDERSTAND ALL ASPECTS OF HIGH RISK ACTIVITY ٠
- MOVE BEYOND THE CONCEPT OF 'EXAMS'





2020

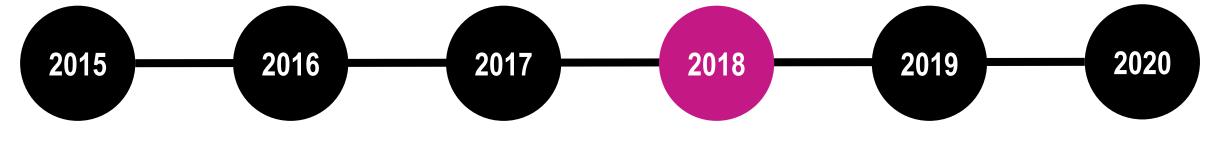
Timeline...

LET'S DO IT OURSELVES...

- EXPRESS A VISION
- IDENTIFY PLATFORM
- CHOOSE A PARTNER
- CONVINCE THE UNIVERSITY
- ENGAGE WITH STUDENTS
- ... AND LATER STAFF

PLAN FOR THE FUTURE BUILD FOR THE NOW

- GET EVERYONE WE CAN OFF PAPER
- INITIATE BYOD POLICY, BUT PROVIDE LAPTOPS NOW
- ENSURE ABSOLUTE RELIABILITY
- FOCUS FIRST ON LARGEST IMPACT STUDENTS
- ENGAGE KEY INNOVATORS IN THE FUTURE STATE

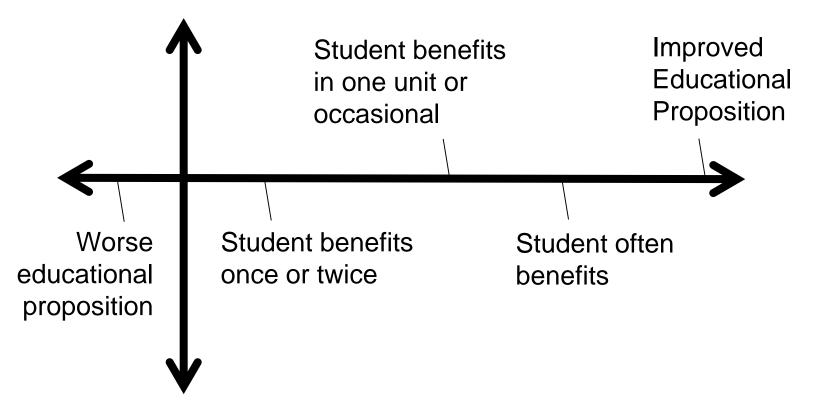




Business & Pedagogy



Increased cost per EFTSL



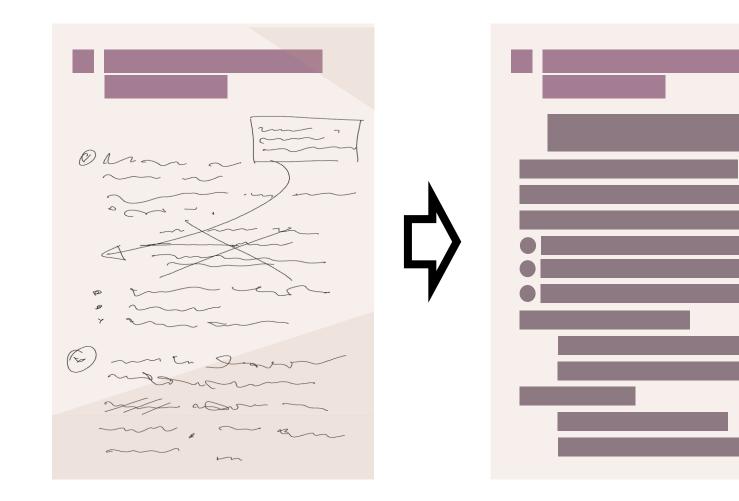
Non Negotiables

- Scalable
- Interdisciplinary applications
- Focus on student outcomes
- Plan for evidence
- Plan for transition
- Independent risk assessment

Decreased cost per EFTSL

The Money Slide





80% ONLINE

MARKING LONG FORM QUESTIONS

\$7,000,000*

SAVINGS PER ANNUM

*BASED ON MONASH FINDINGS COMBINED WITH LITERATURE REVIEW

Opportunities



Scalable efficiencies

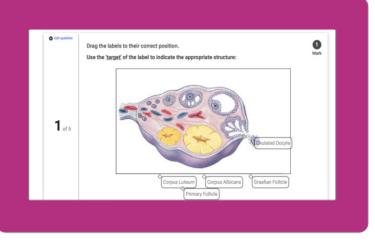
Embracing automation and the flexibility of cloud services.

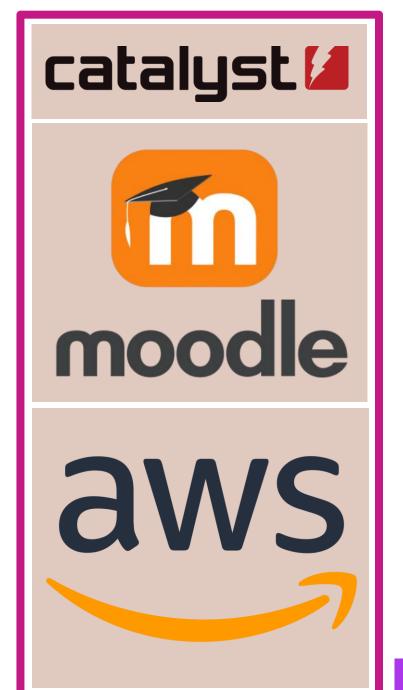
Best practice approach with

analytics, security and privacy embedded from the beginning.

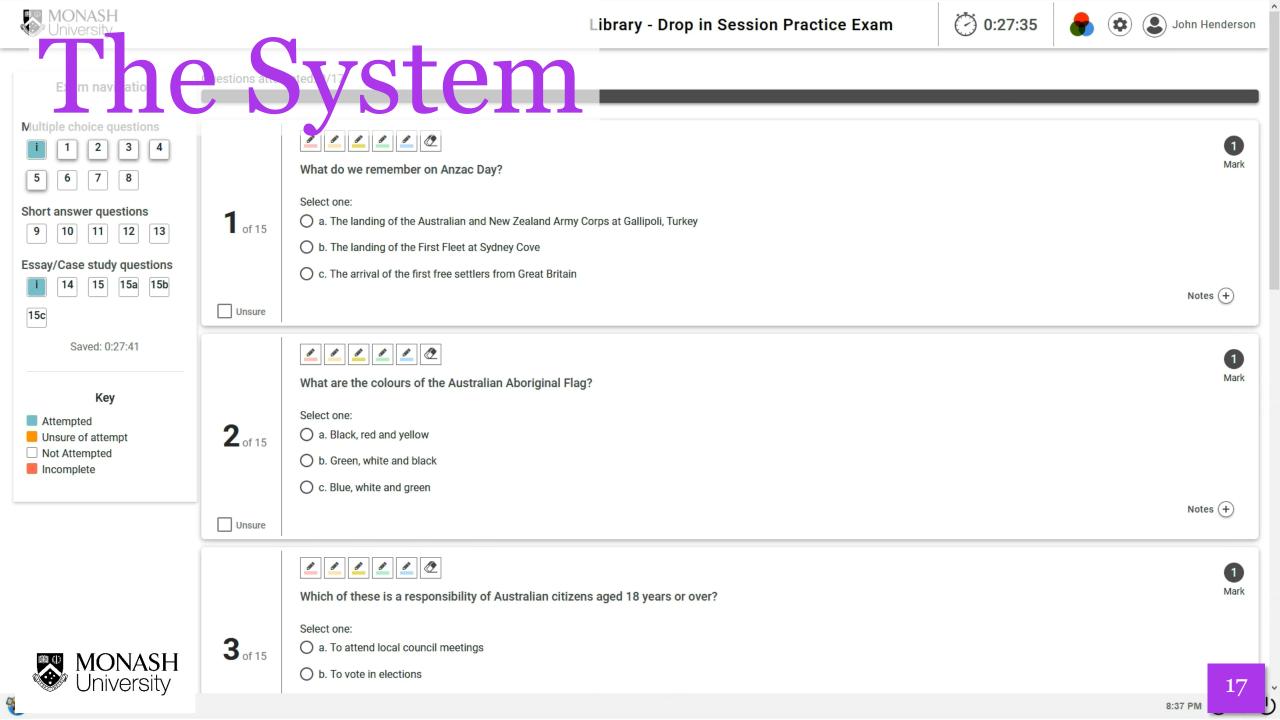
Partners











The Physical Implementation

Big, bold and Secure



Monash University

Triple Redundant Network Connection

Caulfield Racecourse

19

Infrastructure





56 KILOMETRES OF NETWORK CABLE



\$80,000 PATCH LEADS





850M CABLE TIES





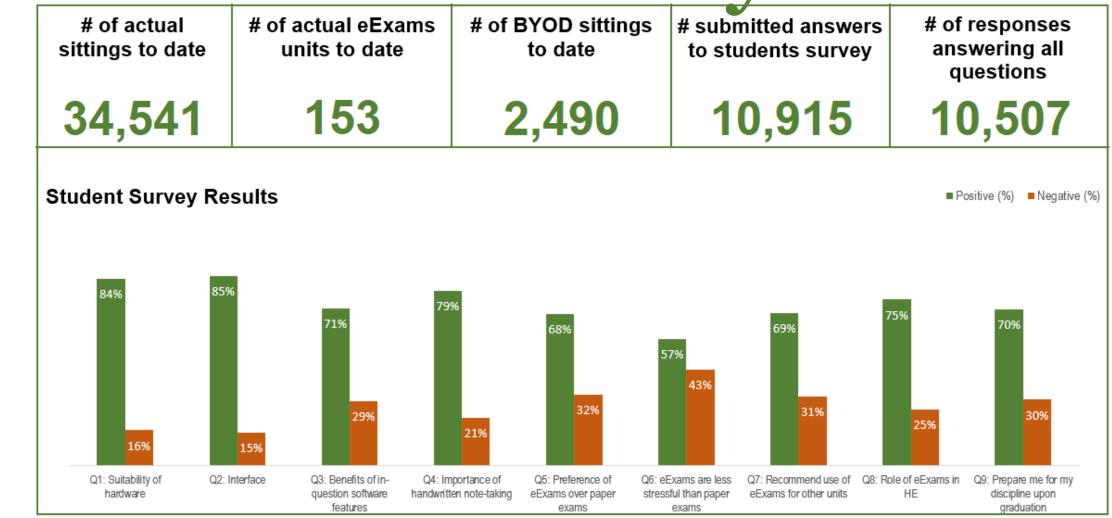
40 TROLLIES 1,500 LAPTOPS

The Response

-54



Post Exam Surveys





Focus Groups

WHAT THEY LIKED SO FAR...

- OVERALL, LESS TIME MARKING
- 100% LEGIBLE RESPONSES
- MARK AS SOON AS EXAM FINISHES
- MARK EXAMS ANYWHERE
- CHIEF EXAMINERS COULD TRACK PROGRESS OF BATCHES
- ACCESS TO ANALYTICS
- EXAM DURATION SAME AS PAPER
- TRUE BLIND MARKING
- SAME AS IN-SEMESTER EXPERIENCE
- FUTURE POSSIBILITIES
- MOCK EXAMS PREPARED STUDENTS

WHAT THEY WANT NEXT...

- EXAM MARKING USABILITY
- QUESTION DATABANK WITH ANALYTICS
- EXTEND QUESTION FUNCTIONALITY
- ANALYTICS LOCKED UNTIL ALL MARKING COMPLETE
- CLEARER PROCESSES WITHIN FACULTY
- GRADEBOOK & CALLISTA (SMS) INTEGRATION
- FREEHAND SUPPORT





Academic Staff Feedback

"My goodness, this is absolutely wonderful. Where has this system been all my academic life..?

no exam bags, ease of use of the system, sharing among markers, *READING* the student responses, no handwriting of marks, blinded marking...bloody brilliant."

Associate Dean (Education) Faculty of Pharmacy and Pharmaceutical Sciences



Student Feedback





INVIGILATED AND TAKE-HOME MOCK EXAMS DROP-IN SESSIONS CO-DESIGNED INTERFACE LIBRARY SUPPORT IN-CLASS SUPPORT MATERIALS

HEADLINE OUTCOMES

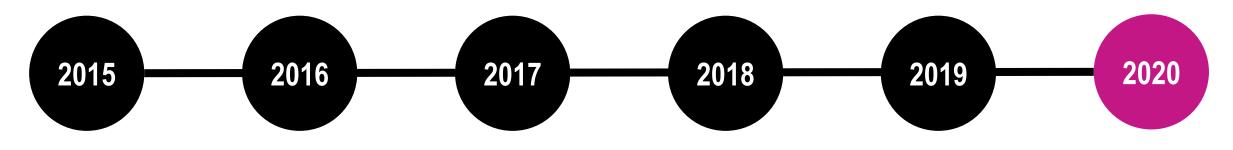
- 77% OF STUDENTS WOULD RECOMMEND EASSESSMENT TO OTHER STUDENTS
- 70% OF STUDENTS WOULD PREFER TAKING AN EASSESSMENT TO A PAPER EXAM

"I really loved it, I wish my other exams this semester are also done through e-assessment. It's so much easier to edit and clarify my thoughts and I think it helped improve the quality of my answers"

"Overall, being able to type the exam significantly aided my performance as I barely handwrite nowadays."

Where next?







Key Takeaways



MONASH SCALE

- 75 000 STUDENTS
- 360 000 'HIGH STAKES SITTINGS'
- 250 000 ON CAMPUS PER ANNUM

DEVELOPMENT TIMELINE

- DEVELOPMENT START FEB 2018
- MAY 2018: 600 SITTINGS
- NOV 2018: 10,000 SITTINGS
- JUN 2019: 37,000 SITTINGS
- NOV 2019: 40,000 SITTINGS

OPERATIONAL SCALE

- VENUE CAPACITY 4,500 SEATS
- SUPPLIED 1,500 LAPTOPS

PROJECT SCALE

- TEAM 250 300 MONASH STAFF
- MANAGED SERVICE FOR AWS HOSTING

PRIMARY FOCUS AREAS:

- STUDENT EXPERIENCE
- **Resilience**
- AUTHENTICITY

MORE FLEXIBLE ASSESSEMENT ENABLES BETTER LEARNING OPPORTUNITIES

ANY ASPECT MAY BE VETOED BY ANY OF THE THREE SPONSORSHIP AREAS



18:48

18:48

G0039

Any Questions 14 118 .118 INVINA STA

States and

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