



Why digital assessment?

Digital exam & assessment - more than paperless









What is UNIwise & who am I?



UNIwise
Provider of WISEflow
Leading assessment platform

- Started 2010 as a governmental project
- UNIwise spins out of Aarhus University 2012
- Headquarter in Denmark offices in Norway,
 Sweden, S. Korea and Ukraine
- Serves +50 clients in HEI in Europe
- Delivers between 20-35.000 student exams daily



Rasmus Tolstrup Blok Executive director UNIwise

- Background in 3 x HEI in DK & 1 x US
- Research & teaching in digital learning & culture, teacher training, course re-design (Centre for Teaching & Learning, Aarhus University)
- Requirement consultancy for academic technology (VLE etc.)
- Strategic advisor for HEI and for Danish government
- Founder of UNIwise & WISEflow



What is digital assessment?

"Digital assessment refers to the application of digital technologies to create, administer, report and manage tests and examinations."

According to Gartner it remains one of the top 10 strategic technologies for the higher education sector and an increasingly important aspect that feeds into other growing areas such as analytics, adaptive learning, competency-based education and new regimes of scrutiny, transparency and accreditation.



Why is the question important?

- Why digital assessment?

- There is not ONE simple answer to the questions!
- Many different reasons, depending on the fact, that:
 - universities and colleges are not alike
 - they apply and strive for different goals
 - they are situated differently in space, economy, openness, ranking etc.

There probably would be different reasons as to engage in digital assessment whether you are an arts university, an open university or a brickand-mortar university!

Let me give you some reasons many of our clients have put forward, together with trends we have seen last 5 years!



JUST

The Student Argument

- Why digital assessment?

The student of today

- are exposed and used to the omnipresence of technology in learning (and job life)
- has poor or lack of handwriting skills
- has got increased focus on own quality and performance
- expects a personal or student focused learning with extensive feedback loops
- demand fair and transparent assessment and grading as a result of high competition
- has an increased and important voice towards student satisfaction ratings
- shops and access education on a global scale



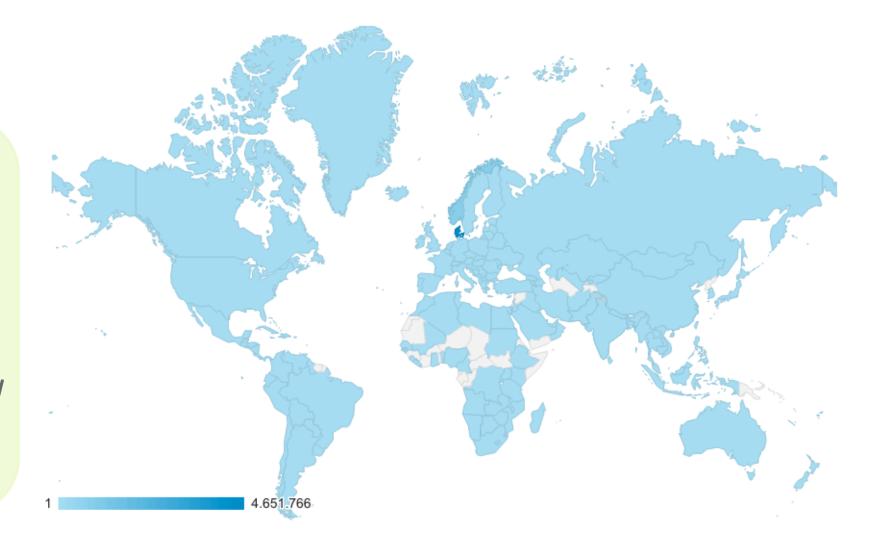


Globalisation

- Examples from WISEflow

We currently hold +50 HEI clients in 7 countries

However, our assessment platform WISEflow is accessed from more than 170 countries!





The Assessor & Professor Argument

- Why digital assessment?



The teachers and assessors:

- are exposed to increased demand for test and test results (to produce measurement and result data for institution and for students)
- demand better tools to align assessment with technology for daily learning and research based teaching (use of multimedia, software, internet, databases etc.)
- need to engage in broader test and assessment strategies secure right cognitive skills tested
- use assessment as focus point for learning and student engagement
- wish to make assessment a learning process aligned with teachings
- need tools to streamline the increased demand for feedback



Extensive feedback

- Examples from WISEflow

- **Annotate**
- Comment
- Score

WISEflow

Sida 1

Question 1

extended meeting 7 hen

Correct answers:

2 term 7 with

thoroughly investigate your affairs. 9

Explain/show

Sida: 1/4

Complete the text with the most appropriate word

2 bmnbnmbm × implications. For example, if you 3

you will be required to fill 6

✓ be immediately closed 11

x officials and administrators, 8

can expect to have your situation advertised in the local press 4

Bankruptcy is a very serious matter. Declaring

Share feedback

- w/ co-assessor
- w/ student

Kommentarer 2 -/11 + 0 = 0

declared bankrupt you

✓ numerous forms and have an

and any employees dismissed.

w/all

FFP English Terminology Mock Exam 2016



Ta bort

Ø Privat ∨

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First, a word on our view of methods Some argue that the way to get better systems is to concentrate on developing and disseminating better methods. A good example is Butler [1], who summarizes 10 years of development in usability engineering (UE) as follows: "UE provides systematic tools and methods for the complex task of designing user interfaces that can be readily comprehended, quickly learned and reliably operated." To us, it seems clear that the result of Jonas.Lowgren@kk.mah.se any process will never be better than the people who participate in the process. The implication for software design is that the skills and abilities of the designer determine the quality of the final system. It follows that methods should be seen as tools for developing the designer's abilities.

By describing a particular work practice that has proved useful to other designers, we provide the reader with opportunities to develop his or her own practice. The choice of a particular method can never be made in a general way; instead, it must always be related to the situation at hand and the people

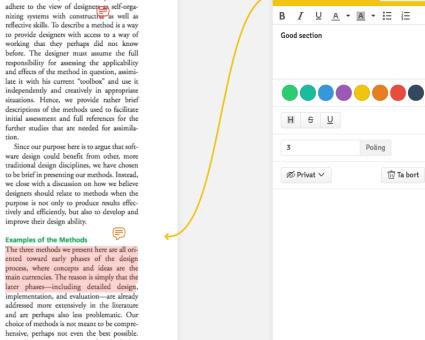
John Christopher Jones published the first edition of his milestone design book Design Methods: Seeds of Human Futures in 1970 [4] In the introduction, he writes about differen ews on the designer and on design methods If the designer is seen as a black box, generating creative solutions without being able to explain or illustrate how the solutions came about, then the methods will be focused on facilitating and supporting the inexplicable creative processes. The other extreme is to view the designer as a glass box where every step in the design process is rational and eligible for description and transfer. Glass box methods tend to be systematic and assume sequential processes with hierarchical decomposition of problems into subproblems. A third view is to think of the designer as a self- introductions to another handful of methods

In the terms of Iones's taxonomy, we would

Fremvisning af Annotate

ware design could benefit from other, more traditional design disciplines, we have chosen to be brief in presenting our methods. Instead, we close with a discussion on how we believe designers should relate to methods when the purpose is not only to produce results effectively and efficiently, but also to develop and

ented toward early phases of the design process, where concepts and ideas are the main currencies. The reason is simply that the later phases-including detailed design, implementation, and evaluation-are already addressed more extensively in the literature choice of methods is not meant to be comprehensive, perhaps not even the best possible. Instead we present examples of methods that can be tried out very simply without putting too much effort into the learning process. The three methods are (1) function analysis, (2) why-why-why, and (3) innovation by boundary shifting. The sidebar gives brief



Daniel Fly Nygaard

Plagiering: 100%

Extramaterial 1

⊘ Kommentarer

→ X Stäng



The Institutional Argument

- Why digital assessment?

Higher Educational Institutions:

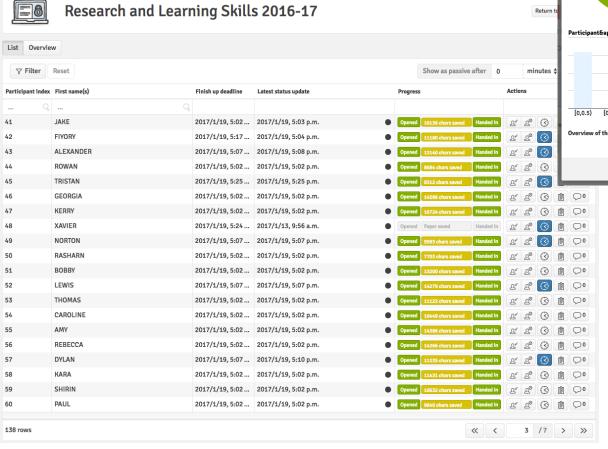
- strive to optimise and cut down manual labour by digitising the workflow for assessment
- face high demand to prevent cheating and plagiarism in test and assessment
- experience increased focus on and demand for security, reliability and audit trails in assessment
- are forced to focus on student demands and student satisfaction
- increasingly engage in internationalisation students and education is truly getting global
- wish for intelligent data collection and statistics to drive decisions

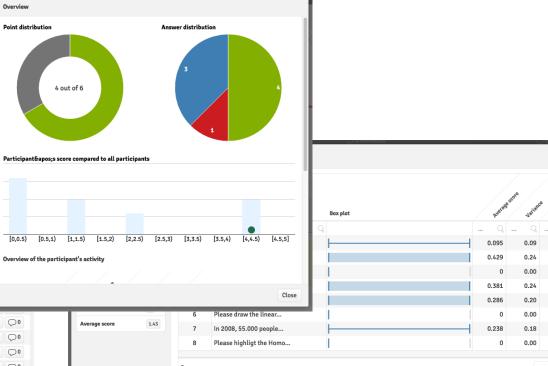




Monitoring & statistics

- Examples from WISEflow





Monitor

- progression & speed
- attendance, actions & log
- connectivity, time & IP
- comment on behaviour

Data distribution

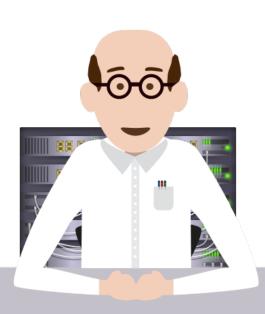
- exams
- questions
- grades
- scores



1 /1 > >>

The Technological Argument

- Why digital assessment?



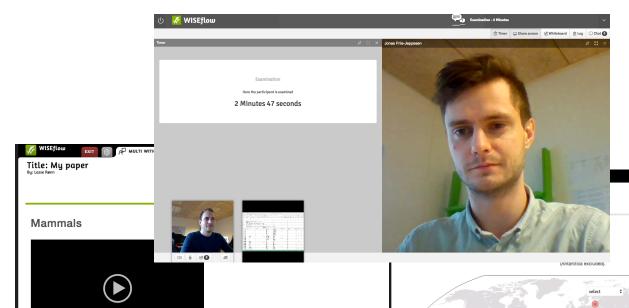
The technological progress enables:

- automatic plagiarism detection
- autoscoring and instant feedback
- more extensive monitoring of exam events
- logging of different stakeholder actions during exams
- notifications, alarms and trickers of certain events and actions for exams
- collectable and searchable data for individual or institutional statistics of exams
- prompt, easy and flexible distribution of exam data
- greater transparency in assessment process and workflow
- a broader variety for exam and assessment formats and student submissions



Multiple assessment formats

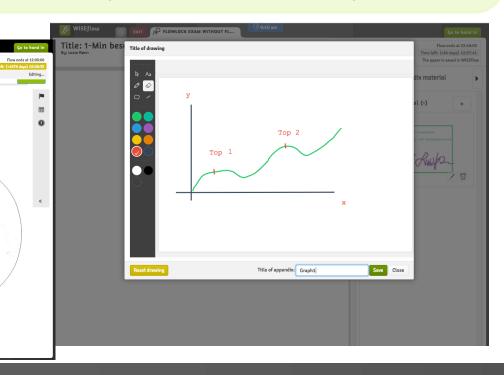
- Examples from WISEflow



Assessment formats

- Open book
- Closed book
- MCQ adv. Questions
- Oral (on camp/remote)

- Portfolio
- Practical
- Thesis
- Combinations
- Prerequisites





The Research Argument

- Why digital assessment?

The researchers tell us:

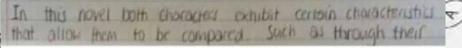
- "The curriculum tells you what the faculty is doing. The examination system tell you what the students are doing" (Boyd, 1995)
- "From our students' point of view, assessment always defines the actual curriculum" (Ramsden, 2003)
- "Assessment is about how well they achieve the intended outcomes, not about how well they report back to us what we have told them or what they have read." (John Biggs, 2007)



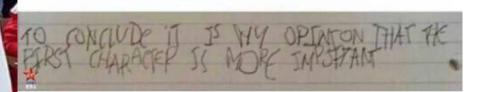


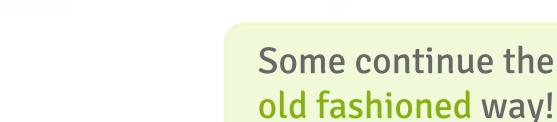
How are these arguments met?













How are these trends met?

- others...







How are these trends met?

- yet others...



... appropriate their VLE to cover some assessments and exams in a digital matter



How are these trends met?

- others...



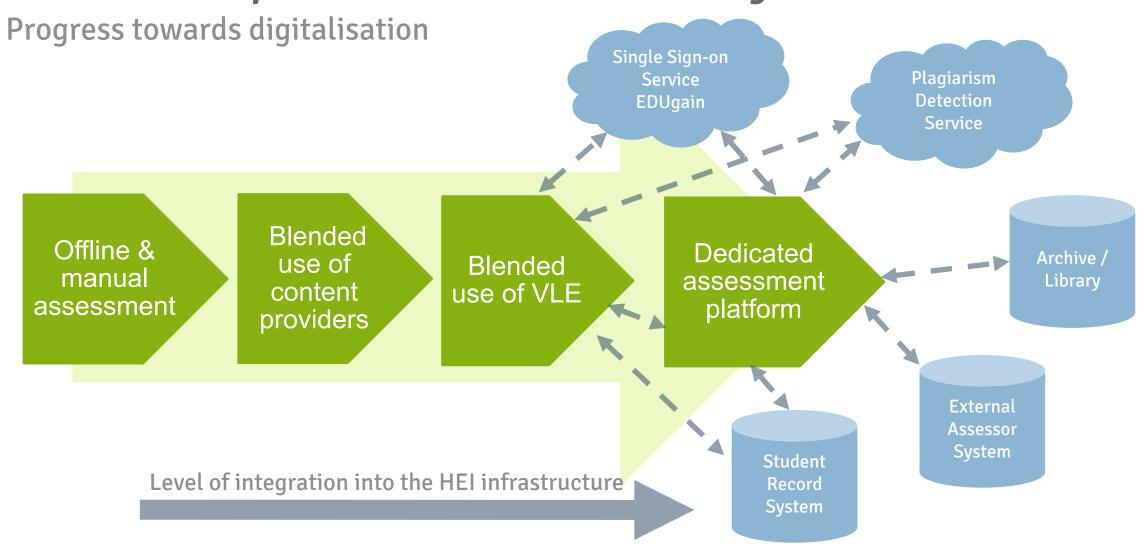
... change to and implement dedicated exam and assessment platforms

EMA – Electronic Management of Assessment (Jisc)





The landscape of assessment today

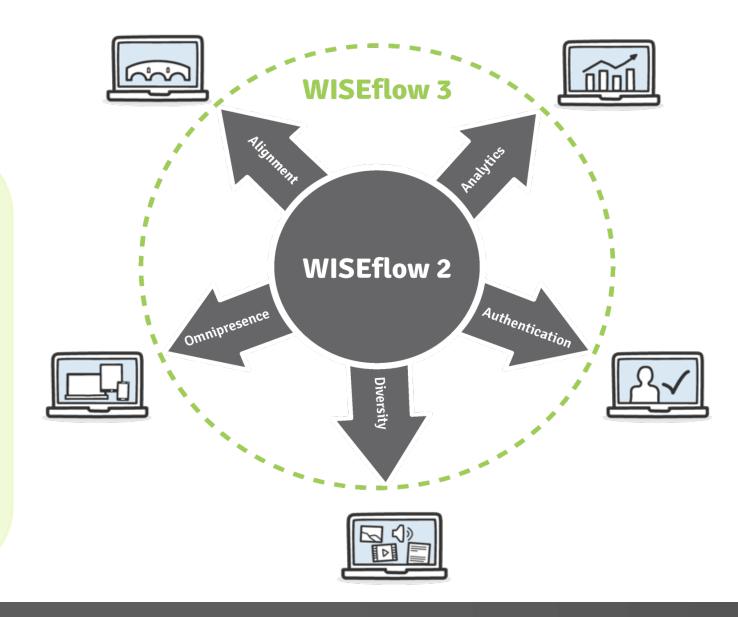




The near future

WISEflow vision

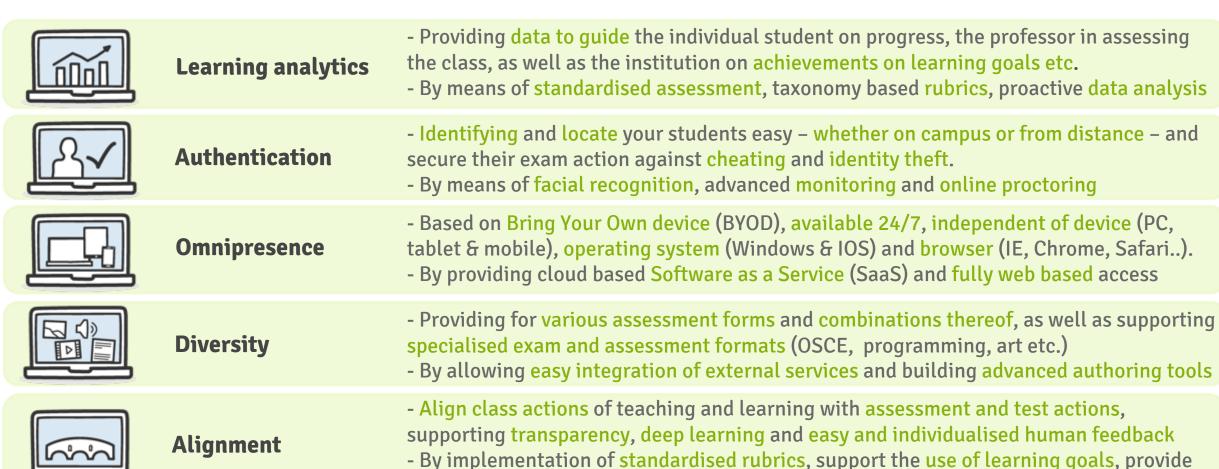
- Personalised and guiding learning analytics
- Better and more advanced authentication
- Fully omnipresence and device/system independence
- Extended diversity,
 specialisation and a broader tool set
- Greater alignment and support for assessment as a true learning experience





Near future focus

WISEflow vision





easy/automatic scoring and cater for various feedback types – including peer-feedback

Content providers vs. VLE vs. Assessment platform

- A brief AS-IS comparison – regarding digital assessment for HEI today

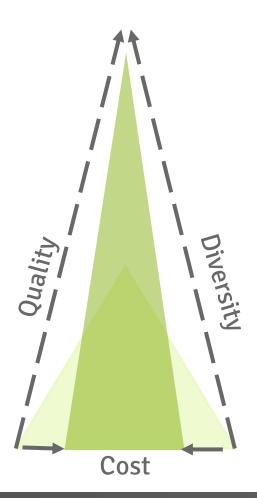
* WISEflow as benchmark

	Content / Stand alone Providers	VLE	Assessment Platform (Wf*)
TEST DIVERSITY	SIMPLE	MEDIUM	ADVANCED
ASSESSMENT TOOL SPECIALISATION	ADVANCED	MEDIUM	ADVANCED
FEEDBACK POSSIBILITY	MEDIUM	MEDIUM	ADVANDCED
AUTHENTICATION & SECURITY	SIMPLE	MEDIUM	ADVANCED
ANALYTICS & STATISTICS	MEDIUM	MEDIUM	ADVANCED
INTEGRATION & API	SIMPLE	MEEDIUM / ADVANCED	ADVANCED
FULL WORKFLOW SUPPORT	SIMPLE	MEDIUM	ADVANCED
TARGETING EXAM & ASSESSMENT	NOT / EXCLUSIVELY	NOT EXCLUSIVELY	EXCLUSIVELY
COST EFFETIVENESS	LOW	MEDIUM / HIGH	HIGH
OVERALL CONCLUSION	SORT TERM QUICK FIX	REQUIRES MODIFICATION	LONGTERM SOLUTION



Recommendation

- Regarding digital assessment



By implementing a digital assessment platform like WISEflow, our HEI clients have shown they were able to:

Enhance quality

- Raise student satisfaction
- Provide better feedback
- Strengthen transparency
- Provide better data basis
- Align test strategies

Heighten diversity

- Expand assessment methods
- Raise accessibility
- Provide easier and global availability
- Better prevent cheating and plagiarism

Lower cost

- Decrease manual labour by 75%
- Eliminate manual distribution costs
- Lower human errors
- Streamline processes

"Digitalisation makes it possible to stretch the iron triangle!"

- Sir John Daniel, former Vice Chancellor of Open University, UK (Referring to Adam Smiths The Pin Factory - 1776)



Thank you and "Bon voyage!"

- Digitalisation of assessment is inevitable - when will you join?



Curious for more info?

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