#inspera2017
#analytics

Digital assessment in Norway

- A case study from the University of Bergen

Sofie Emmertsen, Executive Education Consultant, Ph.D.

This talk will cover:

- A quick overview of the digital assessment movement in Norway
- The Inspera Assessment solution
- Who we are
- A case study from University of Bergen, Faculty of Math and Science

#inspera2017
#analytics

The digital assessment movement in Norway

Two phases of digital assessment in Higher Ed Norway

Digitizing assessments and final exams at HEIs

First stage 2013-2016
Piloting few HEIs

Cost reductions on administrative workload

Students' digital competencies

Focus on implementation at each HEI

Digital assessment as a tool for learning

Second stage 2016-
All HEIs

New forms of assessments

Formative assessments

Driving development of technology

University of Oslo - example of adoption

"Evaluations show that 88 percent of our students are satisfied or very satisfied with digital exam."
Rector Ole Petter Ottersen, 01/18/2017

Number of students delivering digital exams at University of Oslo with Inspera Assessment:

2014: 6,000 students

2015: 12,000 students

2016: 30,000 students

2017: 45,000 digital exams

Source: **http://www.uio.no/om/aktuelt/rektors-blogg/2017/milepel-for-digital-eksamen.html**

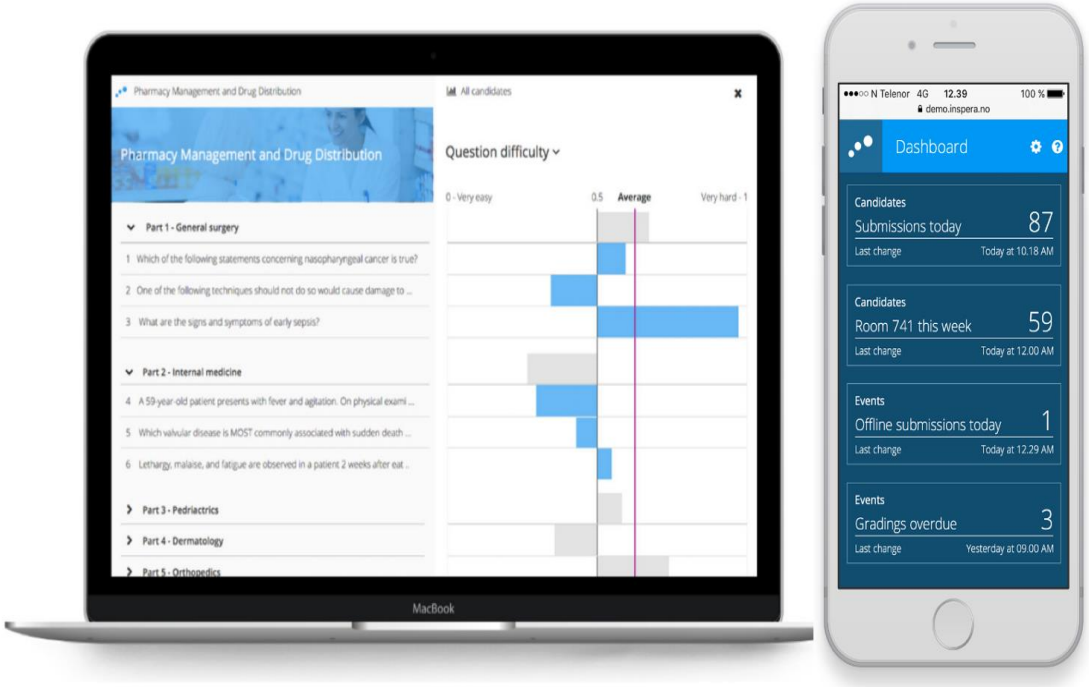
Outcomes so far for Higher Ed institutions

- Markers and moderators have fast and secure access to all submissions
- Reviewers and externals can be easily included in the assessment process
- Markers can give better feedback
- Students use a media they are used to during assessments and exams
- Student satisfaction is increased
- Administrative work hours are reduced
- Management have better control and insight into the assessment process

#inspera2017
#analytics

The Inspera Assessment solution

A dedicated cloud-based assessment platform



Planning	Delivering	Grading	Reporting
Authoring	Incident management	Scoring and grading	Analytics
Item bank	Monitorering	Appeals and reassessment	Arkivering
Workflow	Lock down browser	Plagiarism	
	Backup solution		

Supports all user groups involved in assessment

Educator

Principal

Grader

Technology Coordinator

Student

Invigilator

Supports course work and final exams

Offline delivery

Integrated authoring and grading tools

Wide range of media, question types and response forms

Central monitoring and messaging

Cheat reduction and plagiarism control

BYOD

Anonymization and encrypted responses

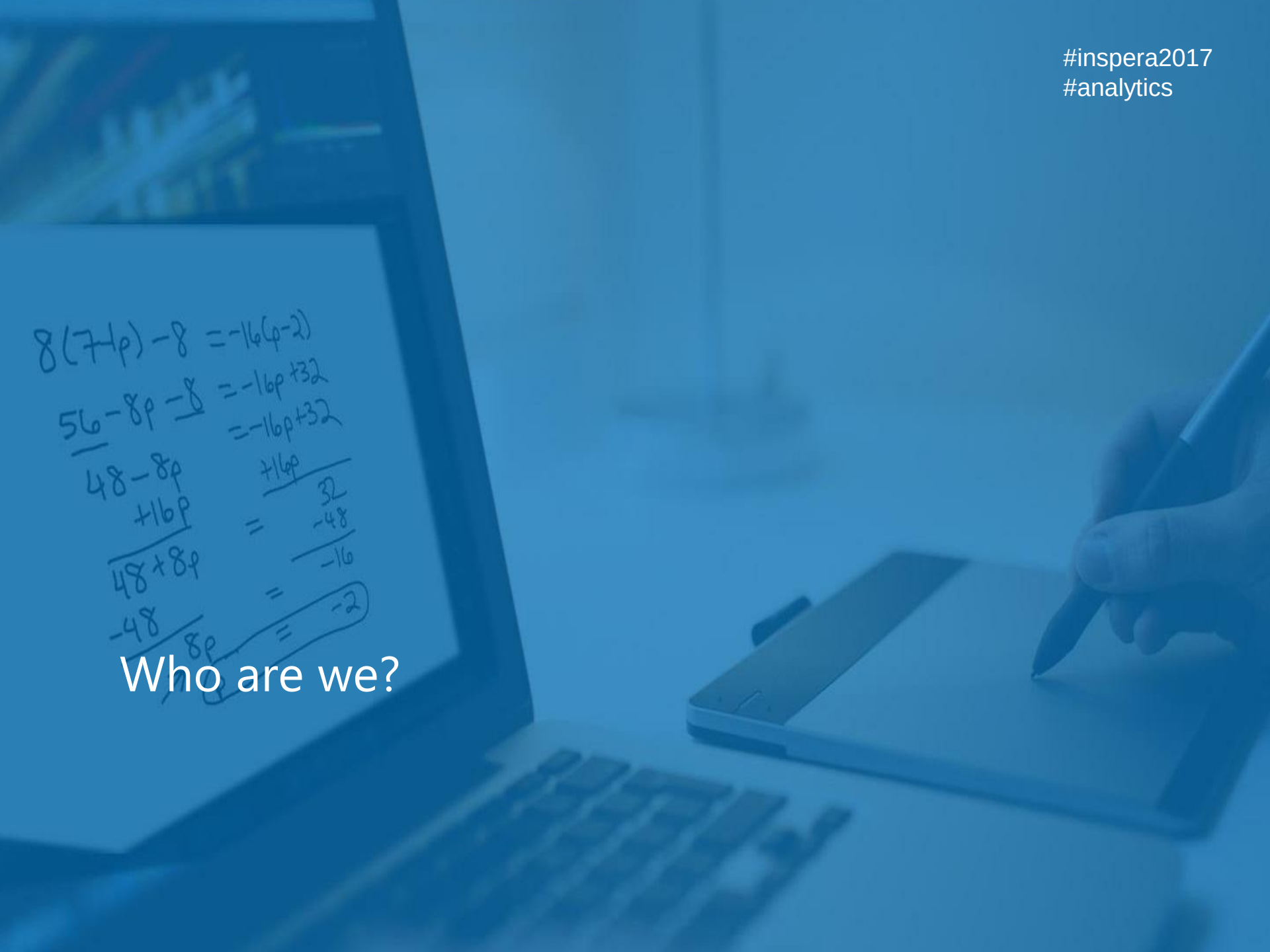
Item bank with language support, revisions and access logs

Double, blinded marking, banded marking and automatic grade distribution

Allows for allocation of externals

Supports QTI format

#inspera2017
#analytics



Who are we?

Based in Oslo, Norway

- 25 developers and consultants with a background in education and Higher Ed
- We work with and deliver support to Cambridge Assessment and The Caribbean Examinations Council
- Excellence in assessments in Math and Science

We work with more than 50 educational institutions

UPPSALA UNIVERSITET

BLEKINGE TEKNISKA HÖGSKOLA · BTH ·

CAMBRIDGE ASSESSMENT

FORSVARET
Forsvarets høgskole

NTNU

Høgskolen i Østfold

POLITIHØGSKOLEN

Norges musikkhøgskole
Norwegian Academy of Music

GÖTEBORGS UNIVERSITET

Høgskolen i Hedmark

HØGSKOLEN I OSLO OG AKERSHUS

IKT NORGE

KARLSTAD UNIVERSITY

UNIVERSITAS BERGENSIS

UMEÅ UNIVERSITET

Universitetet i Stavanger

Høgskolen i Molde

Høyskolen Kristiania

Høgskolen i Lillehammer

NIH NORGES IDRETTSHØGSKOLE

LUND UNIVERSITY

NORD universitet

RödaKorset
Röda Korsets Högskola

BLI MESTER

#inspera2017
#analytics

Case study, University of Bergen

University of Bergen, Faculty of Math and Science

Departments:

Geophysics
Biology
Chemistry
Physics and technology
Geoscience
Math
Informatics
Molecular biology

"Report from the working group on digital learning and assessment at the Faculty for Math and Science, UiB, 2016"

The Faculty's journey towards digital assessment

Spring 2015: 48% of assessments digitized, 7 disciplines

Spring 2016: 55% of assessment digitized, 35 disciplines

Aim end 2017: 100% of assessments digitized

Fast movers

Department of Biology

Department of Molecular Biology

Slow movers

Department of Math

By 2015 some assessment forms were easily digitized

Multiple choice	Open book, closed book
Structured tests	Open book, closed book
Essays	Open book, closed book
Submissions of programming code	Open book, closed book
Submissions of hand-writing (formulars)	Open book, closed book
Submissions with 3. party tools (CAS, excel)	Open book, closed book

But the faculty does not want to resort to multiple choice - so how to digitize 100%?

The Faculty's strategy is twofold and ongoing work

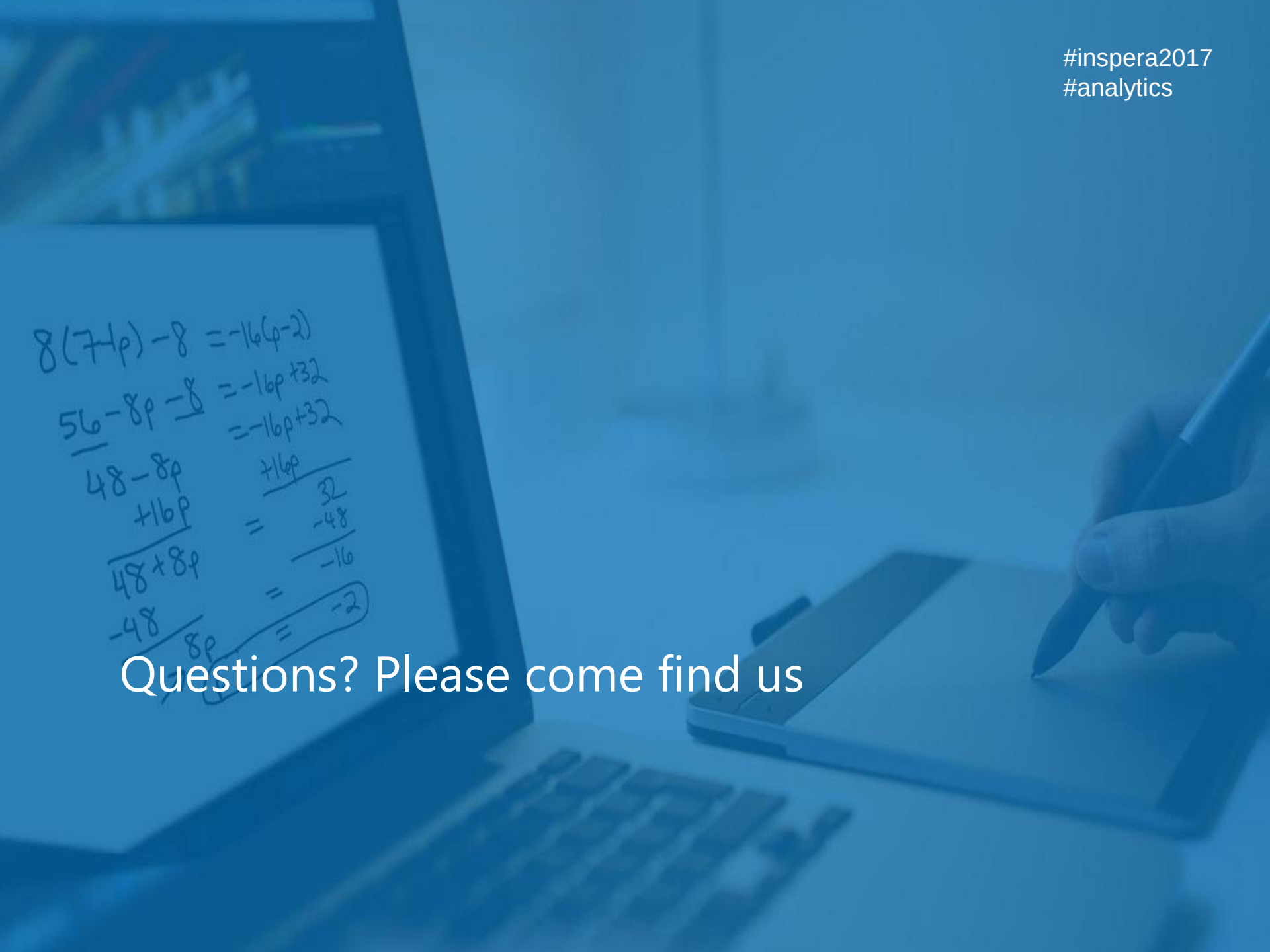
1. Adapting learning and assessment to technology

- UiB are opening up for the approval of new assessments forms
- Using more formative assessments to secure alignment between learning and assessments
- Training students' competencies math software for formulas (e.g. LaTEX, Geogebra)

2. Adapting technology to learning and assessment

- 2016 A scanner solution for sketches
- 2016 Geogebra was embedded
- 2016 Two new question types for math formulas
- 2017 - Technology will need to be adapted to new assessment forms

#inspera2017
#analytics



Questions? Please come find us