

# TeSLA e-assessment workshop

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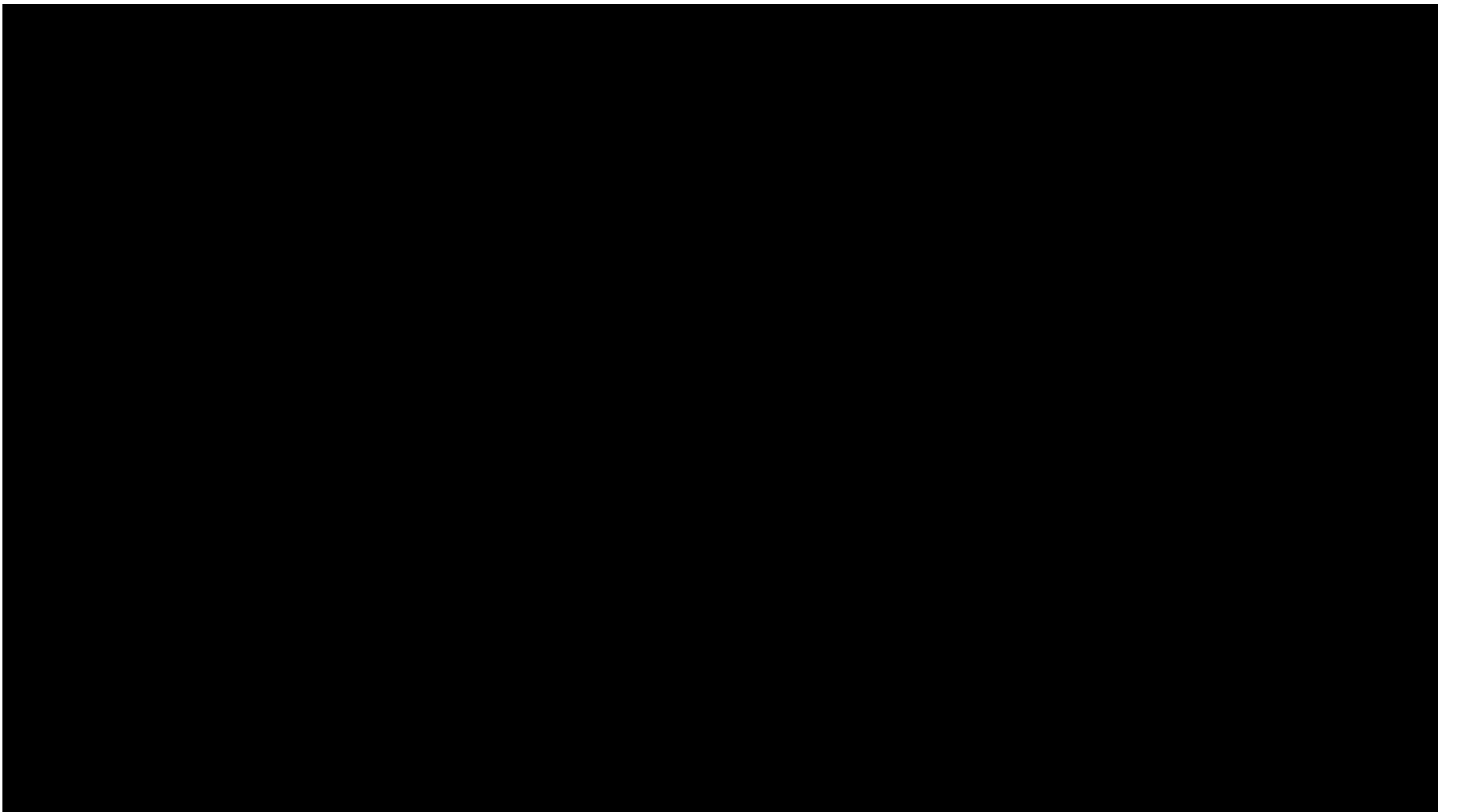


# TeSLA

Adaptive trust-based e-assessment



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# Onderwijstechnologie doelen

- Efficiënter
- Effectiever
- Aantrekkelijker
- Toegankelijker

# TeSLA

- Efficiënter \*
- Effectiever
- Aantrekkelijker \*
- Toegankelijker \*

# Borgen kwaliteit online toetsen

- Authenticatie
- Auteurschap

# Online toetsen

- Toetsen van leren (summatief)
- Toetsen voor leren (formatief)

# Twee sporen

- **Ontwerp**
- **Technologie**



# Ontwerp

- **protocollen**
- **actuele topics**
- **verplichte onderdelen**
- **recente referenties**
- **geannoteerde bibliografie**

# Technologie

- **authenticatie**
- **auteurschap**

# Typen authenticatie

- Wat je weet (userid / wachtwoord)
- Wat je hebt (toegangspasje / telefoon)
- Wie je bent (vingerafdruk, iris)
- Wat je doet (toetsaanslagen, schrijfstijl)

# Authenticatie in TeSLA



**face**



**voice**



**keystroke**



**anti-plagiarism**

# Pilot 1 - basismeting

1. Gezichtsherkenning
2. Toetsaanslag

# Student

- Wordt uitgenodigd door docent
- Geeft toestemming
- Vult vragenlijst vooraf in
- Doet basismeting
- Vult vragenlijst in na afloop (\*)

# Docent

- Nodigt studenten uit
- Vult vragenlijst in vooraf
- Vult vragenlijst in na afloop van de pilot

# Discussie

Tevredenheid toetsing binnen je eigen cursus

Efficient – Effectief – Attractief - Toegankelijk



# Week 39

- Identificeren studenten functiebeperking
- Toestemming + vragenlijst vooraf docenten
- Docent stuurt uitnodiging studenten via yOUlearn (urgente mededeling) of mail

# Na afloop pilot

- Vragenlijst
- Mogelijk uitnodiging voor focusgroep
- Verslag

Wensen voor vervolg

# How big a problem?

dark figure = actual - detected

**Plagiate und Spickzettel**

# Studie offenbart Schummel- Kultur an deutschen Unis

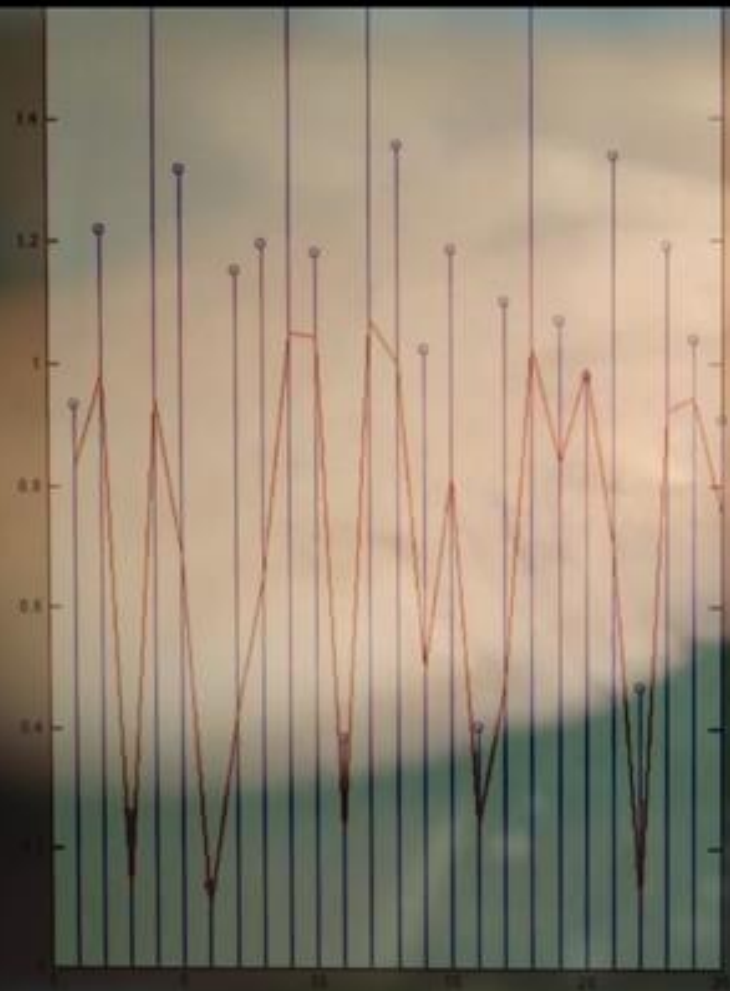
Spicken, plagiiieren, fälschen: Eine Studie erhebt erstmals Daten zum Schummeln im Studium. Danach täuschen vier von fünf Studenten. Fast nie fliegt der Schwindel auf.

# Actie onderzoek

- Focus op praktische issues
- Iteratief: diagnose, planning, interventie, evaluatie, reflectie
- Gericht op verandering: doing things that make a difference
- Multiple data verzameling

# Technological measures

- **authentication**
- **authorship**







## 1st Pilot

Course 2016/17 1S



External Dimension

To test  
the protocol of communication among partners for pilots execution.



To test  
the implementation protocol at partner level.



To select  
the most suitable activities for the e-assessment process at subject level.

Level of:  
e-assessment model Development Integration TeSLA system

All tests are adapted to physical and mental disability and cultural differences.

### Impact

1 Pilot



7 Institutions



≈ 600 students  
≈ 75 students/institution

## 2nd Pilot

Medium Test-Bed pilots

Course 2016/17 2S

### Goals

To test

the modular technologies on an isolated manner in activities:  
Facial and Voice Recognition, Key Stroke Dynamics, Digital Signatures, Time-Stamp, Natural Language, Plagiarism Techniques.

To refine

learning activity for e-assessment.

To test and define

the authorship and authentication instruments.

Level of:  
e-assessment model Development Integration TeSLA system

### Impact

4 Pilots



Minimum 7 institutions



≈ 3,500 students  
≈ 125 students/institution/pilot

## 3rd Pilot

Large scale pilots

Course 2017/18

### Goals

To test

the full integration of TeSLA system and its scalability.

To refine

modular technologies and the European e-assessment framework.

To verify

the reliability of the authentication and authorship.

Level of:  
e-assessment model Development Integration TeSLA system

### Impact

2 Large Scale Pilots

Minimum 7 Institutions



They can choose some technologies or the whole system.

Stage 1

≈ 6,500-7,000 students

Stage 2

≈ 10,000-14,000

An Adaptive Trust-based

# Contact



<http://tesla-project.eu>



**@teslaprojectEU**

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**voice**



**keystroke**



**anti-plagiarism**