



LEADERSHIP SCHOOL

Preparing Higher Education leaders to become the change makers of the university of tomorrow

New Approaches to Assessment

15

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Anna Guerrero – TeSLA Project, UOC



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Learning & ICT

(e) Learning

- The teaching and learning process is conducted (totally or partially) through the **net**
- Use of **ICT** tools and resources
- Teacher as a **facilitator**
- Personalised and continuous feedback
- Learner: **autonomous**, responsible, **(pro)active**



Technology for Enhancing Learning

- **Wide range** of LMS: Own university online campuses, Moodle, Blackboard...
- LMS, from repository (content-based) to **learning environment** (activity-based)
- Contain communication, collaborative, creation, assessment, and/or external tools
- Usually contains an **assessment system to publish marks**

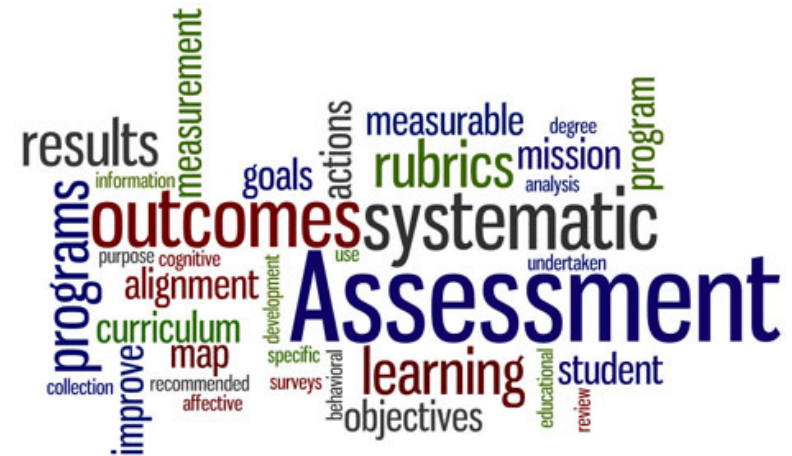


(e) Assessment

E- Assessment is a continuous electronic assessment process where information and communication technology (ICT) is used to present, solve, record and evaluate assessment activities (Crisp, 2007).

This includes an end-to-end assessment process from the perspective of:

- ✓ learners and tutors,
- ✓ learning institutions,
- ✓ awarding bodies,
- ✓ and the general public (JISC, 2007).





(e) Assessment

- ✓ Summative, continuous and formative **assessment models coexist**.
- ✓ **Continuous** assessment is combined with **final exams**.
- ✓ Activities **easy to correct** (i.e. tests, multi choice exams) or **automatic** correction activities proliferate. But a **personalized feedback** must be mandatory.
- ✓ F2F/Online universities maintain **on-site final exams**. It is considered the most **reliable** way to verify **students identity**.

Unsolved: Authentication and Authorship

Challenge for a real e-assessment

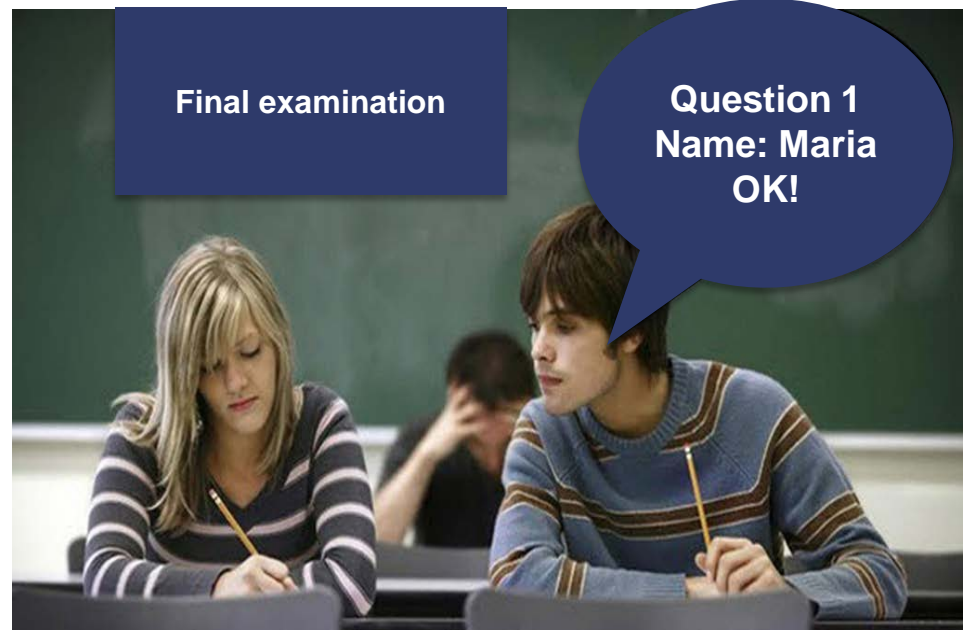


Traditional exam/ assessable activity

1 Crime Scene



2. Trad copy

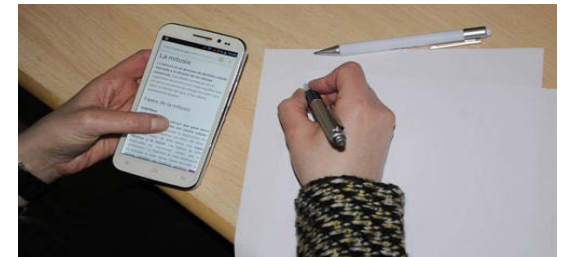
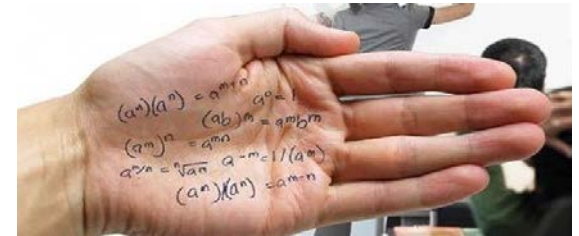
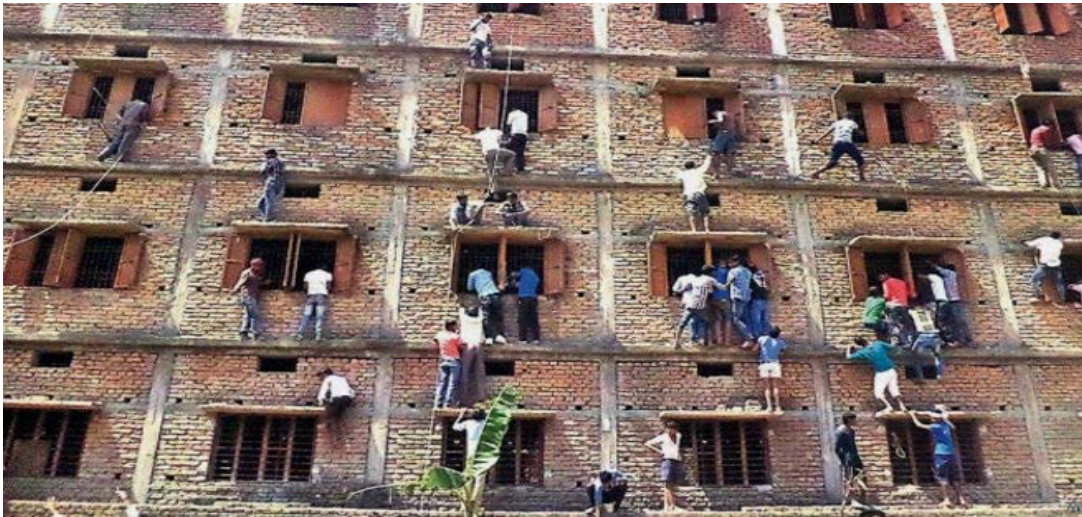


Identification & Authorship



Traditional exam/ assessable activity

Unlimited imagination





Traditional exam/ assessable activity

Solution???





We need a real solution

- ✓ A flexible platform that supports **diverse assessable learning activities and assessment models**.
- ✓ A platform that **verifies the identity** of students (authentication & authorship) and prevents from illegitimate behaviours (i.e. cheating, plagiarism).

- ❖ **Authentication:** password, digital certificate or biometric recognition (i.e. face recognition, keystroke dynamics, voice recognition)
- ❖ **Plagiarism:** linguistic techniques comparing creations from the same user, and with Internet sources

- ✓ A **scalable** solution (that can be massively deployed), not invasive (no privacy issues) and **reliable**.

Security measures can promote **trust** (among teachers, students, institution) increasing the assessment quality and the final certification.



An Adaptive Trust-based e-assessment System for Learning



Horizon2020 – INFORMATION AND COMMUNICATION TECHNOLOGIES
Topic: Technologies for better human learning and teaching.
Type: Innovation Action, with Large Scale Pilots.
Funding: 7 million euros



Consortium

18 Partners

8 Universities

3 Quality Agencies

4 Research Centers

3 Enterprises





Main objective

To define and develop an e-assessment system, which ensures learners **authentication and authorship** in online and blended learning environments while avoiding the time and physical space limitations imposed by face-to-face examination.

The TeSLA project will cover **teaching and learning processes as well as quality, ethical, legal and technological aspects.**





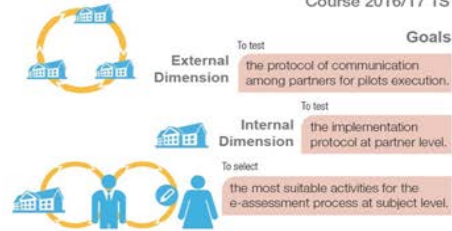
Pilots Scheme

Pilots scheme

3
Years



1st Pilot Small educational pilots Course 2016/17 1S

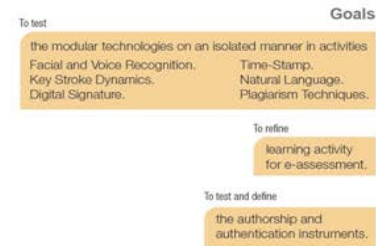


Level of:
 ■ e-assessment model ■ Integration
 ■ Development ■ TeSLA system

Impact

1 Pilot
 7 Institutions
 ≈ 600 students
 ≈ 75 students/institution

2nd Pilot Medium Test-Bed pilots Course 2016/17 2S



Level of:
 ■ e-assessment model ■ Integration
 ■ Development ■ TeSLA system

Impact

4 Pilots
 Minimum 7 institutions
 ≈ 3,500 students
 ≈ 125 students/institution/pilot

3th Pilot Large scale pilots Course 2017/18



Level of:
 ■ e-assessment model ■ Integration
 ■ Development ■ TeSLA system

Impact

2 Large Scale Pilots
 Minimum 7 Institutions
 They can choose some technologies or the whole system

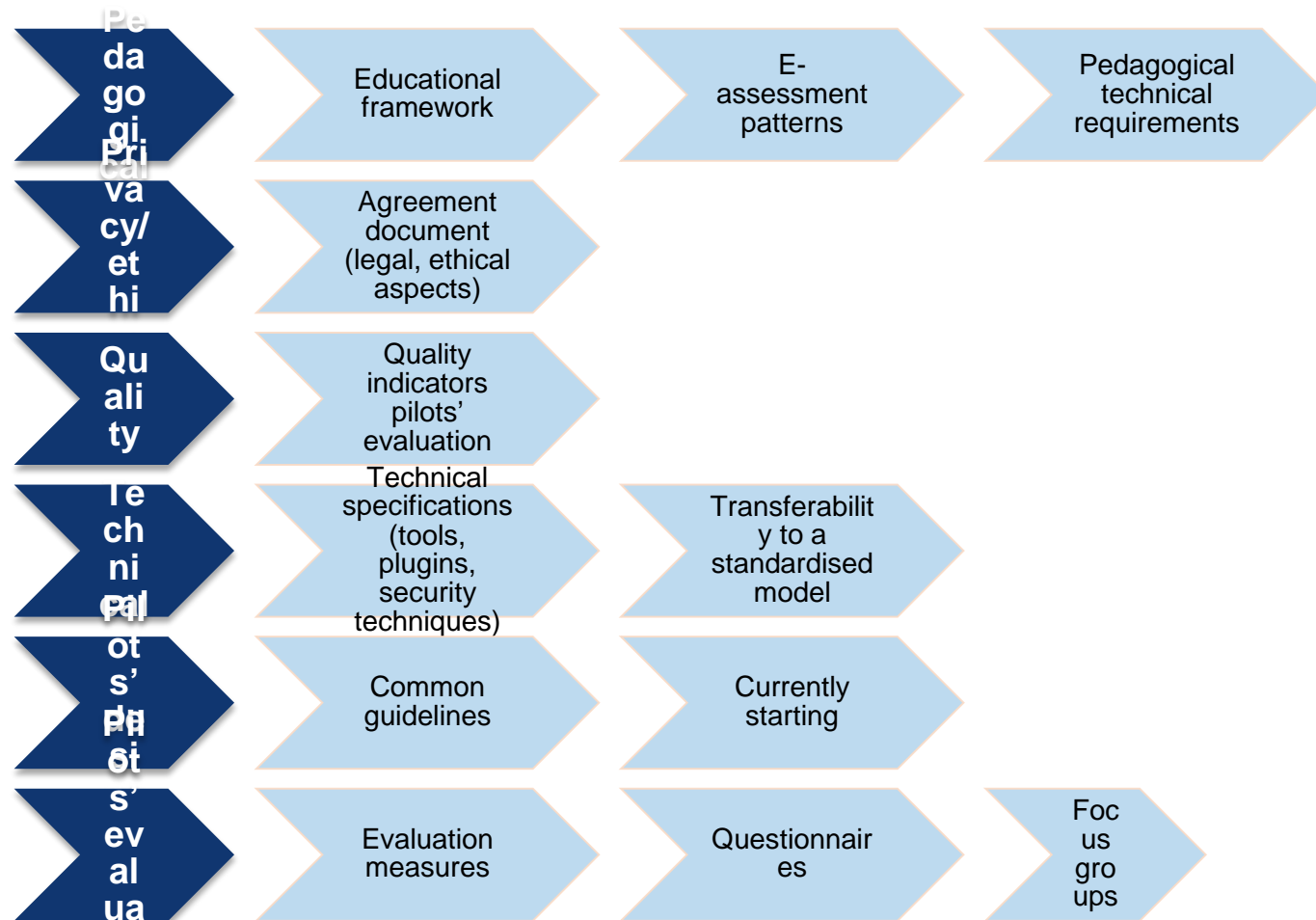
Stage 1
 ≈ 6,500-7,000 students

Stage 2
 ≈ 10,000-14,000 students

An Adaptive Trust-based e-assessment system for learning
TeSLA



Preliminary results





Expected Impact

Students

They will be evaluated through activities attending different kinds of assessment models. The assessment process can be done not only at educational institutions but through the Net at home.



Teachers

They will be able to define and design new learning activities including multimedia aspects and security items for ensuring learning data.



Agencies

An online validation model accepted by educational quality agencies in Europe that follows their educational and technological criteria.



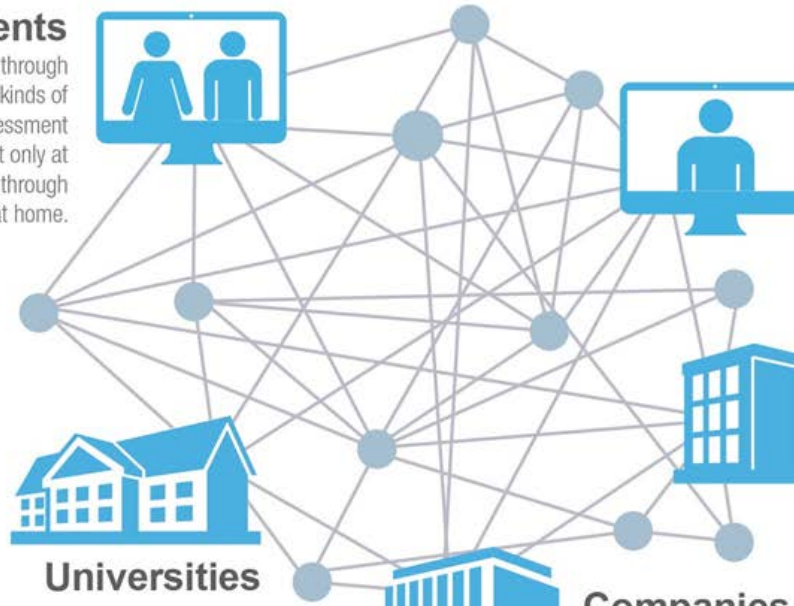
Universities

An e-assessment model adapted to their learning environment, to ensure learner authentication and authorship. A reliable e-assessment system will open new opportunities in a global space.



Companies

Consultancy and implementation of the model in educational institutions all over the world (exploitation).





Thank you for your attention!

Anna Guerrero

aguerrero@uoc.edu

TeSLA project coordinator

<http://tesla-project.eu/>

Linkedin: <https://www.linkedin.com/company/10643342>

Twitter: [@teslaprojectEU](https://twitter.com/teslaprojectEU)