

Electronic School Leaving Exams in Slovakia Project Maturita Exam On-line

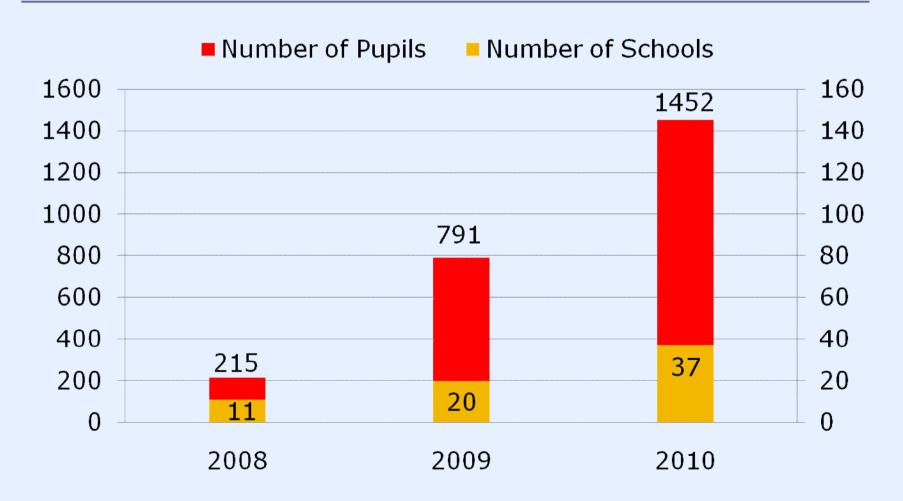
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Maturita Exam On-line Project Purpose

- Expanding the use of IKT in the field of external evaluation at the national level to improve the educational process
- Making the transformation from a traditional school to a modern one
- ➤ Follow-up to global experience and development in the EU countries in the improvement of education and use of new methods and technologies
- > Implementation of an electronic testing as an alternative to a paper form or its replacement in the next period

Development of schools and pupils involved in Maturita Exam Online





Implementation Team and Project Management

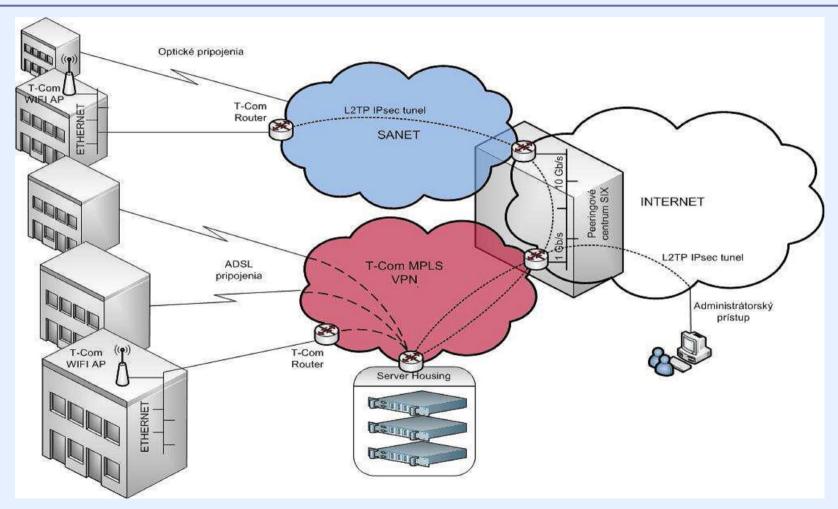
- Ministry of Education, Science, Research and Sport of the Slovak Republic
- National Institute for Certified Educational Measurements
- □ Institute of Information and Prognoses of Education School Computer Centers
- Data Centre of Ministry of Education, Science, Research and Sport of the Slovak Republic
- Technical Solutions Supplier



Project Purpose of Maturita Exam On-line

- > To verify the possibility of introducing electronic testing in Slovakia from different aspects: technological, security, personal, pedagogical
- ➤To prepare and create the infrastructure of electronic testing and the technical solution, including school equipment
- ➤To increase security distribution of school leaving exams' questions
- To have more effects in logistics processes of school leaving examinations
- ➤To increase the speed and objectivity of external evaluation of school leaving exams' tests

Diagram of a Network Connection at Schools into On-line Environment





The Test Environment for Pupils and Teachers

- Web Portal <u>www.maturita-online.sk</u>
- Web Test Application:
 - English
 - Mathematics



Evaluation of Questionnaires for School Leaving Exam Takers, Coordinators and Administrators – 2010

Anonymous answers, we know only the corresponding school, voluntary participation

The electronic questionnaire was completed:

by 87 % of pupils solving test AJ B1

by 92 % of pupils solving test MAT

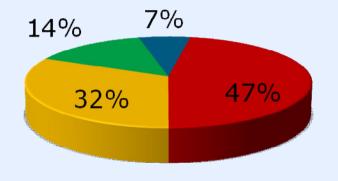
by 76 % of coordinators and by 81 %

of administrators

2 schools did not respond to questionnaires



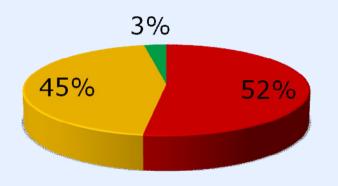
How were you selected for maturita exam online?



- I signed up voluntarily
- Pupils were selected by coordinator
- It was done the random selection or lottery
- Another way



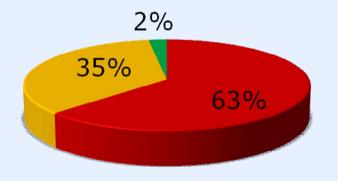
How do you evaluate the clarity, content and technical design of web portal for maturita exam online?



- Very good without shortage
- Good with shortage
- Poor with large shortage



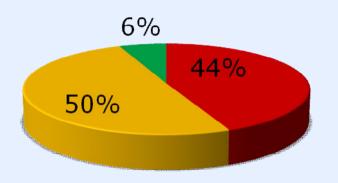
How do you evaluate the technical and graphics processing of on-line test in English language?



- Very good without shortage
- Good with shortage
- Poor with large shortage



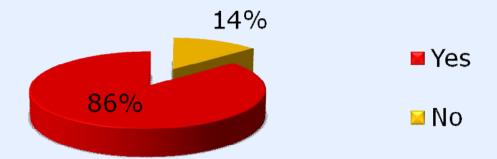
How do you evaluate the technical and graphics processing of on-line test in Mathematics?



- Very good without shortage
- Good with shortage
- Poor with large shortage

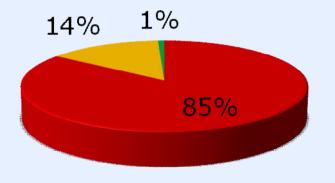


Would you recommend, based on your personal experience, maturita exam on-line to your classmates?





How do you evaluate an organizational security of maturita exam online and a quality of initial training?



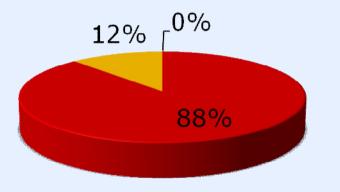
Very good without shortage

■ Good with shortage

■ Poor with large shortage



How do you evaluate know-how, organizational complexity of the instructions and the quality of the information portal for maturita exam on-line?



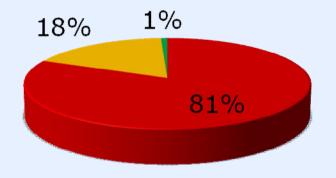
Very good without shortage

■ Good with shortage

Poor with large shortage



How do you evaluate technical support of maturita exam on-line?



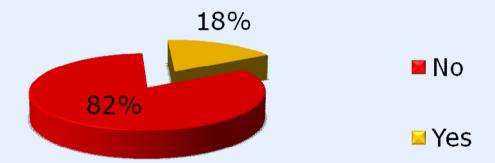
■ Very good without shortage

■ Good with shortage

■ Poor with large shortage

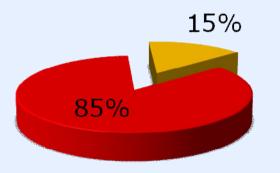


Were there any technical problems during online testing?





What is the perspective of introducing maturita exam? Is it more or less favorable in comparison with a paper form of school leaving exam?



■ More favorable

Less favorable



Strengths of the Project

- Speed, efficiency and objectivity of the evaluation of pupil responses
- Lower intensity of logistics practices in the preparation of school leaving exam (printing, packaging of tests, courier ...)
- Electronic version of the tests solving tasks directly in the test, prompt navigation between the unanswered questions
- Positive acceptance of online testing by students and schools
- Well managed way of organizational, technical support and project information

Weaknesses of the Project

- Personal and financial intensity of security data transfer solutions and overall implementation
- Need of homogenization of HW and SW equipment at schools
- Poorly secured network connections in some schools
- Need of manual training schools personal and time-consuming procedure
- Absence of uniform methodology of project management
- Need of combination of electronic and paper tests



Prospects of Electronic Testing

- Building more advanced testing certification centres (TCC) at schools
- Use of TCC for continuous testing at schools throughout the school year
- Construction of the central bank tasks
- Opening of new options when assigning tasks multimedia environment, texts, internet resources, space modeling
- Creation of effective tools to improve the quality of the teaching process, education for teachers and evaluation of schools



Thank you for your attention!

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