PERFORMANCE OF THE HIGHER EDUCATION SYSTEM IN ROMANIA

PERFORMANȚE ALE SISTEMULUI EDUCATIONAL INFORMATIZAT ÎN ÎNVĂȚĂMÂNTUL DIN ROMÂNIA

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Abstract: *Computer Society is a new stage of human civilization, a new superior quality lifestyle that involves intensive use of information in all spheres of human existence. Advance the information society based on knowledge is regarded worldwide as an evolution to ensure sustainable development and for achieving advanced social and human civilization. The paper seeks to highlight the need for computerization of society in our country and the efforts required in terms of expenditure, learning programs and achievements.*

Keywords: *software, system, computer*

INTRODUCTION

In the specialized literature it is considered that learning to use the computer is more efficient at lower levels for school education and language learning alien. Educational software is of particular importance in this phase. AeL (system of teaching / learning and multimedia educational content management) is the backbone of the SEI program, providing support for teaching and learning, evaluation and assessment, management, design and content monitoring.Also provide the means of communication and synchronization between the local and regional centers within the SEI program.

AeL allows viewing and administration of broad types of educational content, such as materials, interactive tutorials, exercises, simulations, educational games. Library of educational materials acts as a manager of materials is adaptable, configurable, index and allow easy search[5].

Even novice users can: create content (embedded HTML editor, editor math, tests and dictionary editors), import / export content from files, archives resources using standards such as SCORM and IMS packing, modify or edit content; build their own courses from existing components.

SEI achievements are impressive. Thus, in 2006 is considered: 1195091 secondary school graduates enrolled in the computerized admission (ADLIC) in 2001-2005, a centralized computer system information about candidates for Baccalaureate 353 878 2004-2005 157. 620 teachers participating in the examination for appointment as the 2003, 2004 and 2005, 50,000 school teachers, computer labs 4780, 76 302 next-generation computers and 4780 servers installed and configured network (installation, configuration software platforms, including educational content).

MATERIALS AND METHODS

Analysis and synthesis of documents. Calculation of average, annual growth rate (r) using the formula: Y (% of GDP) = a + bt + ct ^ 2, where t = time.

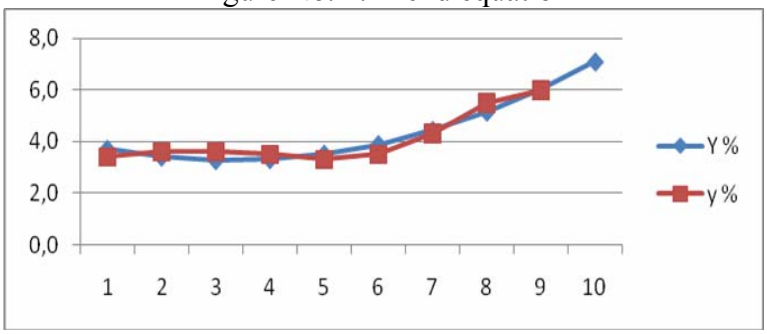
RESULTS AND DISCUTIONS

Table no. 1 Public expenditure on education% of GDP

Year	2000	2001	2002	2003	2004	2005	2006	2007	2008
%	3,4	3,6	3,6	3,5	3,3	3,5	4,3	5,5	6,0

Source: Ministry of Education, Research and Youth, Directorate General for Budget, Finance, Heritage and Investment [2]

Figure No. 1. Trend equation



Y (% of GDP) = 4.180-0.56006t + 0.0851731 t ^ 2, from which you can extrapolate the trend for 2009 which is 7.1% of GDP for education expenses.

In 2009 was required 7% and was given 6% of GDP.

Educational System in Romania is considered an example of good practice in Europe [1].The European Commission has announced the list of institutions whose projects are considered examples of good practice in Europe in 2009.
European eGovernment Awards is an initiative of the European Commission every two years that awards the best projects developed by public authorities in Europe, which aim to facilitate citizens' access to public services and reducing bureaucratic barriers, that increase government efficiency by promoting IT solutions [4]. In the category of "eGovernment Empowering Citizens" ("public services to citizens"), the only educational project selected for the label "Good Practice" ("Good Practice") is SEI Romanian project, the most important project undertaken in undergraduate education informatization Ministry of Education Research and Innovation [3].

The complete list of projects considered as examples of good practice in this category gives on the one hand, the measure of the selection exigency and on the other hand, the European value of Romanian project :

1. SEI - Romanian IT-based Educational System (Romania)
2. A Clean City Linköping Sweden (Sweden)
3. Aston Pride - Computers in The Home (United Kingdom)
4. Citizen Forum (Portugal)
5. Customer Care System (Malta)
6. E-government in Communication disputes (Italy)
7. iDoc24- Anonymous Doctor's Advice on Medical worries (Sweden)
8. MyPersonalData (The Netherlands)
9. My real Estate (swe. Min Fastighet) (Sweden)
10. One-stop gov-shop (The Netherlands)
11. On The Spot House (Portugal)
12. Osale: the Estonian eParticipation tool (Estonia)
13. Prime Ministry Communication Center (Turkey)
14. Regional Services towards Citizens in Friuli Venezia Giulia (Italy)
15. Social workers online (Sweden)
16. Swedish national vaccination register (Sweden)

17. UK online centres and myguide - eGovernment courses (UK)
18. VoicE - Giving European People a VoicE in EU Legislation (Germany)

SEI has been internationally awarded numerous occasions, in important and prestigious competitions. A very brief overview includes:

• 2008 - European IT Excellence Award, Frankfurt - AEL eLearning solution, the backbone of the SEI program

• 2007 - "Best Practice" in eGovernment - European Commission prize for the NED (National Education Database), part of the SEI program

• 2006 - International Project Management Association Awards Gala, Krakow - the quality of project management SIVECO Romania

• 2005 - World Summit Award, Tunis - "Best e-Learning Content in the World" for interactive lessons AEL

• 2005 - "Honorable Mention" for eGovernment, Manchester

• 2004 - Nominated by the European Commission on Euro-CASE ICT

(Information and Communication Technology) Prize - AEL eLearning solution

• 2001 - "Best Practice" for eGovernment, Brussels - European Commission prize for high school admission application ADLIC.

SEI government program (Educational System) was launched by the Ministry of Education, Research and Innovation in November 2001, having as main objective to support teaching and learning in university education through information technology. The program supports the goals of educational reform in line with the eEurope 2005 Action Plan, launched by the European Union as part of the European eLearning initiative. SEI implementation results show a positive impact on the education system, both in terms of the teachers and students. The outline of the teacher, information technology contributes greatly to the improvement of learning objectives, resulting in relief work of the teacher. On the organization of educational process, its values are observed using these technologies for learning teachers especially active, participatory, and cooperative learning. Some numbers give the size of this project: 15,000 installed computer laboratories in all schools in the country, about 5 million users, 192,000 computers, trained 140,000 teachers, 3,700 multimedia lessons AEL, the distribution of over 1.8 million candidates for admission to high schools (2001-2009), displaying the results of over 1.3 million candidates for

Baccalaureate (2003-2009), over 130,000 registered users and more than 2,000,000 visitors per http://portal.edu.ro/[3].

CONCLUSIONS

Development priorities and directions for 2008-2013,of computer education:

1. Continued investment programs to ensure optimal conditions for the educational process.

2. Achieving national integrated information system for higher education.

3. Equipping schools with furniture, equipment and specialized basic European standards.

4. Increasing the level of digital literacy of teachers and students in compulsory education;

5. The interconnection of computers and networks in university education system in an integrated system that will ensure consistent sharing of educational resources and management of university education system.

The strategic objective of reducing the gap in ICT use in teaching training in Romania to the European countries by:

• training programs for staff of university education will include modules tailored ICT constantly changing educational needs and the recognition of the ECDL certification NCTPE the completion of a course accredited by ICT;

• organizing national bank of assessment items used in examinations and national assessments, and models of assessment instruments used in the current assessment of university education;

• design a system for online public consultation the proposals of textbooks that have received the favorable opinion of the evaluation;

• development of funded projects approved POS-DRU, under the responsibility CNCEIP;

• developing training programs for vocational and technical education in ICT by: updating training standards (PPS) for 8 technical skills through the integration of ICT appropriate curriculum update training to the eight standards, development of skills assessment tools mentioned the 8 training standards, training teachers for the development of SPP / curriculum / teaching and learning materials / tools for ICT assessment.

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REFERENCES

1. **PETRICA BĂRĂGAN**, 2009, Educational System in Romania is considered an example of good practice in Europe
2. *** Ministry of Education, Research and Youth in 2008, Report on the status of national education. Pdf
3. *** "eGovernment Empowering Citizens" ("public services to citizens"), http://portal.edu.ro/
4.*** eGovernment Awards http://www.epractice.eu/awards
5 .*** AEL - system of teaching / learning and multimedia educational content