





NET - New Approach in Educational Technology

Erasmus + Strategic Partnership

2019-1-SK01-KA201-060658

REPORT:

Analysis of Italian teachers' surveys on ICT supporting tools













ABSTRACT

In this report, the updated portrait on the current situation of ICT supporting tools used in some Italian schools, resulting from the analysis of the teachers' surveys results.

The survey is part the project NET- New Approach in Educational Technology, a European project funded in the frame of "Erasmus + Key Action 2- Strategic Partnership in the field of higher education".

It has been produced and distributed among 10 Italian teachers and aims to investigate the importance of information technologies in new training dynamics. The analysis attempts to understand how ready Italian schools are in terms of technology and how much they use digital tools in their classes.

By applying and analysing the results of the analysis survey, it will be possible to highlight the needs among all the personnel working within the Italian educational system. Compatibly with the results obtained by the other partners in their respective countries, it will be possible to identify useful topics draw up a list of courses for the curriculum and training scheme (IO1).











BACKGROUND DATA

The first part of the survey analyses personal and background data of the respondents.

The survey has been applied to 10 participants, 6 teachers from Bologna and 4 from Catania.

1 The name of your institution:

LICEO SCIENTIFICO UMBERTO I DI SAVOIA - CATANIA, ITALY
ICT SALVEMINI - CASALECCHIO DI RENO (BO), ITALY
IPSAR VERONELLI - BOLOGNA, ITALY
LICEO SCIENTIFICO UMBERTO I DI SAVOIA - CATANIA, ITALY
LICEO SCIENTIFICO P.UMBERTO I DI SAVOIA - CATANIA, ITALY
ITCS SALVEMINI - CASALECCHIO DI RENO (BO) ITALY
IPSAS ALDROVANDI RUBBIANI - BOLOGNA, ITALY
P.UMBERTO DI SAVOIA - CATANIA, ITALY
ITC GAETANO SALVEMINI - CASALECCHIO DI RENO (BO) ITALY
ITCS GAETANO SALVEMINI - CASALECCHIO DI RENO (BO) ITALY

There is a prevalence of women over men, with 60% of female respondents and 40% male.

2 Gender



40% (4) 60% (6) Female











The average age of respondents is 54.8

3	Your age	
65		
53		
46		
60		
65		
43		
48		
65		
54		
49		

The respondents are all teachers of upper secondary schools.

4 What is your career position in the institution?

TEACHER	
TEACHER	



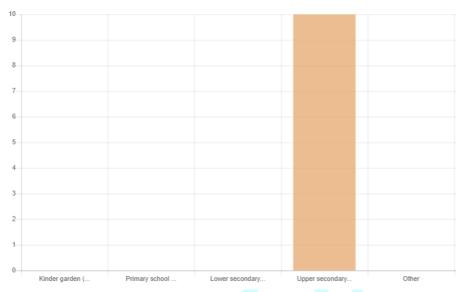




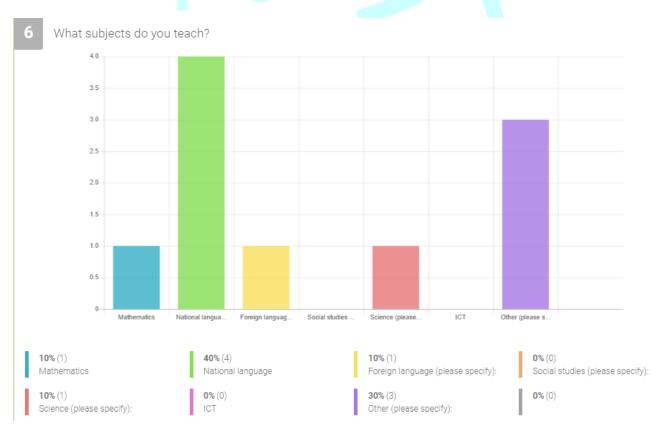




5 What school levels do you teach?



As for the teaching subject, 40% of respondents impart the National Language, while the rest teach mathematics, chemistry, English, history and 1 of them is a support teacher for disabled pupils.









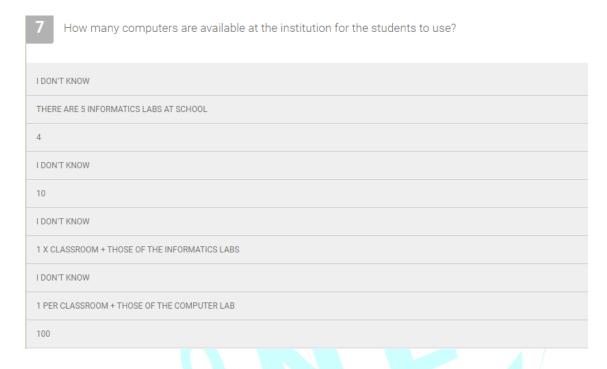




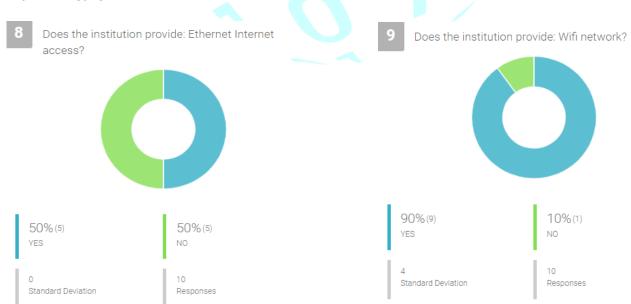
TECHNOLOGY EQUIPMENT

The second part of the survey aims to investigate the technology equipment of the schools.

According to respondents reply, it is not easy to calculate the average number of computer per students, but it is certainly less than one computer per student pair.



Only half of the respondents declare to have Ethernet access at school, while 90% of them are provided with WIFI network.





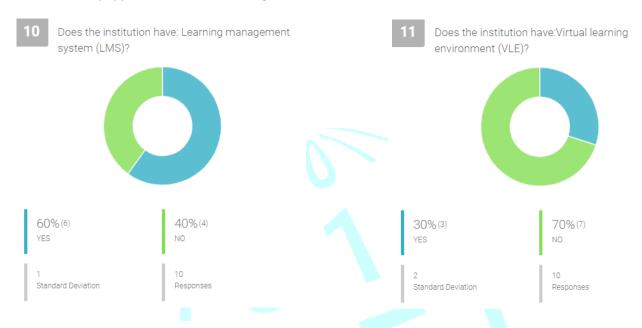




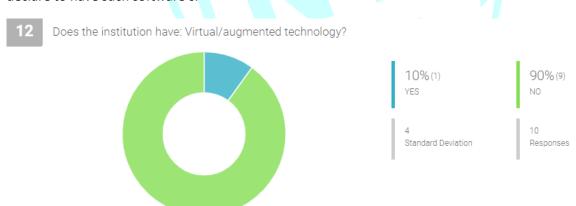




Regarding the Learning management system (LMS), 60% of respondents' institutions have software applications for the administration, documentation, tracking, reporting, automation and delivery of educational courses, training programs, or learning and development programs. Instead, only 30% of the schools are equipped with Virtual learning environment (VLE).



A negative figure can be seen in relation to virtual or augmented technology: only 10% of respondents declare to have such software's.



Respondents have named no other technology.



Does the institution have:Other? 0%











From survey statements, it appears that more than 50% of teachers currently use digital technologies.

14 What percentage of teachers currently use these technologies/tools?

I DON'T KNOW	
90%	
5%	
I DON'T KNOW	
10%	
I DONT' KNOW	
100%	
I DON'T KNOW	
100%	
10%	

It is interesting to highlight the level of distribution of digital tools in the classes:

- Personal computers are mainly available in some classrooms (40%) or under request (30%).
- Interactive whiteboards are used in all classrooms of northern Italian schools while they are available only in some classrooms of Sicilian institutions.
- Video conferencing systems, audio and photo equipment are available in half of the respondent institutions, mainly upon request or just in some classrooms.
- Video camera equipment and mobile phones are available in just over 20% of the respondent schools.
- Augmented reality or virtual reality software and equipment are not available at all.























<u>r</u>	In no classroom	In some classrooms	In all classrooms	Upon request	Standard Deviation	Responses
Personal computers	1 (10%)	4 (40%)	2 (20%)	3 (30%)	1.12	10
Interactive whiteboards	2 (20%)	4 (40%)	4 (40%)	0 (0%)	1.66	10
Video conferencing systems	5 (50%)	2 (20%)	1 (10%)	2 (20%)	1.5	10
Audio equipment (including software)	3 (33%)	5 (56%)	1 (11%)	0 (0%)	1.92	9
Digital photo cameras (including editing software)	4 (44%)	3 (33%)	0 (0%)	2 (22%)	1.48	9
Digital video cameras (including editing software)	7 (78%)	0 (0%)	0 (0%)	2 (22%)	2.86	9
Mobile phones	7 (78%)	0 (0%)	0 (0%)	2 (22%)	2.86	9
Augmented reality/Virtual reality	10 (100%)	0 (0%)	0 (0%)	0 (0%)	4.33	10

TECHNOLOGICAL SKILLS

The third part of the survey investigates the technological skills of respondents by means of tools provided by the institutions for which they work.

In particular, teachers were asked if they have ever taken a technology-training course in the past 10 years offered by their schools and only 40% have provided a positive response. Among the courses: smart board, Moodle's, basic ICT concepts, ECDL, e-learning software, clouds, LIM, PNDS.

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Has the institution got a training program in technology (using devices such as smart boards, augmented reality, creating videos, development of interactive learning content etc.) for teachers in the last ten years?



40% (4) YES 60% (6) NO

If yes, please specify.....

SMART BOARD, MOODLE, ETC.

PNDS, BASIC ICT COURSES

ECDL, E-LEARNING, BASIC INFORMATICS, CLOUDS, ETC

LIM COURSE











Teachers receive limited technical support mainly during office hours



Is technical support provided for teachers at your institution?



0%(0)

No, not provided at all

70%(7) Yes, but very limited

50% (5)

Yes, during office hours

0%(0)

Yes, provided for all 24x7

PEDAGOGICAL SKILLS RELATED TO ICT

Finally, the last part of the questionnaire aims to understand the pedagogical skills related to information and communication technologies.

Unfortunately, only 40% of institution have a policy to promote or support ICT-based innovations by teachers in their teaching and only 10% have a special department dedicated to the pedagogical use of ICT.

Does the institution have a policy to promote or support ICT-based innovations by teachers in their teaching?

Is there a special department dedicated to the pedagogical use of ICT at your institution?



40% (4)

Standard Deviation

60% (6) NO

Responses

10%(1)

Standard Deviation

90% (9) NO

10

Responses



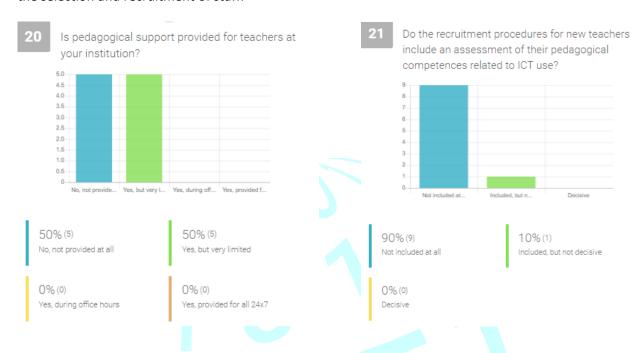








The pedagogical support provided by institutions for their collaborators is inexistent (50%) or very limited (50%) and pedagogical competences related to ICT use is a component that in 90% of cases does not affect the selection and recruitment of staff.



On the basis of the information collected and in order to align professors' skills with European standards, it is relevant to deepen their knowledge of issues related to:

- virtual and augmented reality, both in terms of software and practical tools of use;
- use of e-learning technologies and interactive lessons (especially following the covid-19 pandemic)
 through games, quizzes, simulations, cooperative environments, 3d animations;
- green computing as a new sustainable study method that innovates and does not pollute;
- basic coding to create website, platform or applications.





