



*the paradox of using
old teaching methods
but with new tools*

By Professor Gregoris A. Makrides

European Project "ERASMUS + : "L-Cloud: Developing tomorrow's Cloud Education Leaders"

Cloud Computing is an innovative technology that uses the Internet to deliver a wide variety of different IT services. The Cloud Computing industry is experiencing exponential growth and is the foundation for ubiquitous digital administrative and operational systems, including education. Supporting products, such as mobile device applications are multiplying, including email, information storage, file sharing, collaborative tools, digital communication and other services.

School learner expectations are changing. They require ready access to collaboration tools and content. As a result, education institutions must show significant leadership to embrace such challenges and provide greater interoperability between the institution and student platforms, as well as 24/7 access to secure, reliable networks and the ability to create, deliver, and share content across the institution on any number of devices.

The European Commission acknowledges that Europe must become much more “Cloud active” to stay competitive in the global economy. It has tackled major barriers surrounding legal issues, data security and copyright. Computer systems provide a quick, reliable, 24/7 service, which requires a different service model.

Cloud Computing adoption in education remains fragmented because while Cloud Computing offers many advantages, decision makers are largely unaware of the potential benefits for learning, teaching, administration and management. Therefore, training and support systems are needed to help them keep up to date with the rapidly changing Cloud Computing environment. Leadership is also needed for pedagogical change, otherwise educators will continue **the paradox of using old teaching methods but with new tools**. The need for the development of the L-Cloud project has derived from the results of the project SoC (School on the Cloud - connecting education to the Cloud for digital citizenship network, 2014-2017) which explored how education should respond to Cloud Computing developments and how Cloud-based services can be used to improve the quality of education and transform the way schools are led and managed. The School on the Cloud project (<http://www.schoolonthecloud.net/>) has demonstrated that leadership for change is needed. The main issue today is no longer access to technology, but the capability to establish meaningful leadership for Cloud-based learning, teaching and administration.

The above named EU funded project started on 1st of October 2018 under the coordination of the European Association of Career Guidance, a non-for profit Association with main office in Cyprus. The purpose of the project is to educate teachers to teach and manage schools under Cloud System.

The project will review the literature and present guidelines for skills and competences of teachers' ability to adapt to the constantly developing Cloud System. In addition, a competence framework will be designed, composed by a number of associated competences, each of them described through knowledge, skills, experiences and attitudes. The project will plan the development of an International Professional Certification Programme aiming at the implementation of the criteria and procedures for assessing the acquisition of competences by educational and training managers according to the rules of the Continuing Professional Development (CPD) programmes.

Finally, the project will design a course aiming at developing adaptable education cloud leaders. The team will determine the material of the course and plan the new course activities (teaching material and resources -OER, electronic tools, lessons, presentations). The course will be easily used by all Educational Systems in Europe as its online part will be made available and open to use freely.

The L-Cloud project has two years duration and is funded by the Erasmus+ Programme, Key Action 2, the Cooperation Strategy for Innovation and the Exchange of Best Practices, and in particular the Strategic Partnerships for School Education with a total budget of 181.478 euro.

The EACG, as the coordinating organization of the project, cooperates with partners from Europe such as the University of Barcelona, Spain, the "Mircea Scarlat" College of Romania, the Doukas School of Education in Greece, the European Union of Geographers EUROGEO based in Belgium, and the European Digital Learning Network from Italy.

For more information on the project follow or contact: www.L-Cloud.eu, info@L-cloud.eu, partners@L-Cloud.eu

*Professor of Mathematics and STEAME Education, University of National Education
Commission, Krakow, Poland
President, European Association of ERASMUS Coordinators

*Professpr Gregoris A. Makrides, PhD, is a professor of Applied Mathematics, the president of the European Association of ERASMUS Coordinators, the president of the European Association of Career Guidance, the President of the Mathematical Society of South-Eastern Europe, the president of the Cyprus Mathematical Society, the president of the THALES Foundation, Professor at and Director of Development at Vuzf University Research Centre and CEO of PROGNOSIS.

Contact: makrides.gregory@gmail.com , info@eaecnet.com , www.eaecnet.com, www.eracon.info, www.eacg.eu, www.euromath.org, www.astucon.eu, www.L-Cloud.eu , www.thalescyprus.com, www.cms.org.cy, www.massee-org.eu