E-learning Process Tools

Virtual learning tools can enhance the facilitator's ability to communicate their knowledge to the students by presenting information and the student's ability to access the information. The importance of the e-learning process tools can be summarized in enhancing the virtual educational experience so that educators and students adapt better to a digital environment.

The tools presented in this section are the most import and include shared interactive whiteboards, gamification, digital notebooks, presentation tools, student response and assessment tools as well as survey tools.

Shared Interactive Whiteboards
Virtual whiteboards provide the ability to users to collaborate digitally and enable facilitators to communicate visual information, such as text, graphs or drawings, just like any physical literal whiteboard. Here are some examples:

Whiteboard.fi - With Whiteboard.fi you can create virtual classrooms, allowing students to have their own digital board to write on. It can be used free of charge in any device. The teacher can see the answers in real time and give instant feedback. The tool gives importance to students' privacy as the students have access only to their own whiteboards and the teacher's.

AWW - A Web Whiteboard - This tool allows the users to create whiteboards and invite others to collaborate by sharing a single URL link. There is a free version that operates in every device with basic tools and a paid version that includes unlimited participants and unlimited premium boards. Additionally, there are options for text chat and audioconferences during presentations as well as access to already saved boards. Finally, the user can embed a whiteboard onto any web page by copy/pasting an iframe code.

Jamboard - Jamboard is an interactive whiteboard free application, part of the Google Workspace that connects to the cloud. Google Workspace is integrated into Jamboard so users can drop files from their Google Drive directly to the app. The user creates a "jam" that can be shared with others or create a sharable link. It provides real-time collaboration and editing, options for videoconferences and handwriting recognition. Jamboard is also hardware, a device that features a 55" 4K display touchscreen that can provide the tool's options.

Gamification-Game based learning
Learning process can be fun, interactive, and thus engaging for your students. Many tools have been developed that can help you to engage your audience and at the same time assess the knowledge that they have acquired.

Kahoot! This online game-based learning platform supports the creation of your own quiz. The basic version is free, and you can have access to a variety of templates and create your own portfolio. The

disadvantage of the free version is that you can engage only 10 people per quiz, so if your class consists of more learners you should divide them in teams. The tool can provide fast and active engagement and is accessible through many devices simultaneously.

Quizlet This tool provides millions of flashcards and supports different types of quizzes. The use of the tool makes learning fun and interactive and it is easily accessible. Quizlet can assess students individually and can perform automatic grading. It facilitates also the learning process for learners in need of more support by providing links for further reading. The users can play a quiz in real-time in groups to foster collaboration and communication.

Quizizz This web platform provides access to hundreds of developed quizzes and can support you to create your own. It is free of charge and operational in any device. Tit is essential for virtual learning environments, as it is accessible from wherever the learners are, playing live or asynchronously. With the use of the tool, you can accomplish formative assessment in an amusing and engaging way. You can pick a quiz on nearly any subject and/ or you can customize it in
terms of level completion, speed etc.

Digital Notebooks
Digital Notebooks are valuable tools that can provide digitally the utilities of a paper notebook that can be shared and used collectively to energize your virtual class. Here are some popular examples of digital notebook tools:

Google Keep. This free tool provided by Google, operates through a web and mobile app. It provides a variety of features for making notes and lists, sets reminders and group notes. In the notes you can integrate text, lists, images, audio, drawings or even draw on your pictures. You can
also search notes on created topics. To these notes you can add collaborators and work in real time from any device.

Padlet . Padlet functions as an online notice board and can be used by both teachers and students. The users can post notes on a common page that may contain links, videos, images and document files. It creates a limitless number of online notice board private or public. To share a Padlet board with others, choose a QR code or a link. The content that is created in the tool can be exported in several ways or embedded into webpages. Padlet also provides options for live questions, creation of an online private student portfolio, a virtual library and simple peer assessment.

OneNote This web-based notepad is developed by Microsoft and it is free of charge. You can enter the data in notebooks that are split into tabs and then split into pages. In virtual learning environment, you will find the tool useful as each notebook is connected to each other and can create a network in which content is easily transferred between them. OneNote can support effectively teamwork, as individuals or groups can have quick and easy access to the notebook.

Evernote Evernote is also a popular digital notebook provided in free and paid versions. In the basic version, it provides utilities that help you organise your work and bring together teams to cooperate on common projects. This tool will offer you space to store your resources and allows you to access them by any device with auto- synchronizing. It is especially useful since not only you can store and access data, but also you can easily share them.

Presentation Tools
Microsoft PowerPoint is the most popular tool and still dominant for creating presentations. However, several new tools have been developed recently that can make your presentations livelier and more interactive.

Prezi. Prezi is a web tool for creating presentations. As it is web – based, it allows your presentation to retain its formatting irrespective of the device. Prezi offers the functionalities of PowerPoint but also integrates some special features to make your presentation more engaging. The basic advantage of the tool is that it is not based on the regular slide approach but on canvas approach. Your presentation is an extended canvas, and you can move around by zooming in and out.

Visme An effective web-based tool that offers you a variety of presentation templates, infographics and visual communication. It is a free cloud-based content creation app that supports collaboration with learners. Your presentations will look professional, and numerous icons, videos, audio, graphics or charts can be embedded. Once you create your presentation, you can edit and customize it individually or in collaboration with your learners and share it easily to them.

Flickr This tool helps enrich your presentations with a wide database of images. It is widely used in the educational process as a variety of resources is available in structured categories facilitating searching. A presentation that intergrades images can be more engaging for the learners as develop skills in visual reading.

Mentimeter This app can make your presentations more interactive and engaging by incorporates features from other tools, polls and quizzes. These features can be easily incorporated into PowerPoint and facilitate you in engaging all learners in active learning and getting feedback on your teaching. The function of anonymity reassures that all learners will be engaged without worrying about giving a wrong answer.

Student response and assessment tools
Student response and assessment tools allow educators to evaluate student comprehension, learning needs and academic progress.

GoFormative A free web-based tool that is operative in any device and allows educators to create instantly virtual formative assessments and assignments. The user can share the digital task with others by creating a virtual class inside the tool, attaching a code for the assignment or via a link. Except from students, GoFormative can be useful among teachers as in many educational environments, an identical question formatting must exist.

Socrative Socrative is a popular digital tool that allows teachers to create educational activities such as quizzes and assess the students' responses in real time. The tool has two different applications: one for educators and one for students. The educator and the students can log in to the tool in any device with any software. Educators can create a virtual "classroom" where they place the quiz. Students can access the classroom by using a unique link and then solve the quiz.

iClicker is a paid student response collector software that can be operative with any presentation tool. It provides quizzing and polling options that enhance the interaction between educators and students. This digital tool captures a screenshot with every question and associates your questions with

the poll results. The software provides Canvas support for grading, data collection and a variety of response types.

Survey Tools
Survey tools can be proved very effective for education, especially for e- learning environments. Let's go through some popular tools with wide application in education!
Google Forms A commonly used tool that can help you to create and implement surveys easily and free of charge. With Google Forms you can create surveys by incorporating different kinds of questions, like open questions (short/ long answers), multiple choice, checkboxes etc. You can use the tool to collect data and make quick polls that can be widely distributed with a link. Apart from being easily accessible, you can watch responses in real time and analyze them.

SurveyMonkey An online survey software that supports creating and implementing surveys. The tool is paid and comes with a four pricing packages. Depending on the fee you can choose from 31 to 51 templates and 15 types of questions. . The surveys can be easily shared via email, link and social media and the responses are analysed in real time.

Limesurvey This online survey web application that it is used by many Educational Institutions. It is free for limited responses or has 3 paid versions depending on the use you intend to make. You can develop and share on-line surveys, collect responses, analyse them in real time and export the results to other applications.