**Incorporating Innovative Technology into 21st Century Learning for Pre-K – 12 Classrooms**

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**Abstract:**

In this session, we will discuss the reasons for and steps to take in building and implementing a progressive system of innovative technology in present-day Pre-K – 12 learning as well as examine a working sample of this system. Participants will discover how to recognize and select technology that is appropriate for educational objectives, how dynamic systems of technology and education can work together and benefit from each other, and what methods are ideal for painlessly incorporating technology into teaching. The session is intended to introduce the working system of tech integration for Pre-K – Elementary school teachers with low tech knowledge, but will be beneficial for all Pre-K – 12 teachers.

**Description:**

In this session, we will discuss the reasons for and steps to take in building and implementing a progressive system of innovative technology in present-day Pre-K – 12 teaching and learning as well as examine a working sample of this system.

Current classroom conditions are characterized by:

- High demand for bringing technology into education
- A “Wild West” of available technology developed by both big and small companies
- Varying levels of teacher expertise and experience with technology
- Different school environments ranging from strict prohibition of technology to complete support and encouragement of tech as well as from computer deficiency to technology abundance
- A lack of clarity in educational standards regarding STEM subjects and
- Rich and vibrant technology surroundings for students outside of the classroom

Eduporium has proposed a solution that will allow schools of all technological, economical and geographical backgrounds to integrate innovative technology into education in its current state.

To successfully incorporate technology into education, we have identified what technology is beneficial for education, the objectives Tech in Ed can serve, how Tech and Ed can work together and what methods are suitable for painlessly incorporating technology into teaching. We place creativity-potent technology in a center and analyze its influence on other 21st century skills. We designed a tech bundle for early elementary schools that serves as a teaching tool and a foundation for successful learning.

Our proposed system has several components:

- Modularity and Flexibility
- Hardware for hands-on/maker experiences
- Several entry points to accommodate teachers with various levels of tech expertise
- Unlimited creative potential for teachers as well as students and
- It serves as a tool to support learning familiar subjects while simultaneously and intuitively developing technology skills in kids

The session is intended to introduce the working system of tech integration for Pre-K – Elementary school teachers with low tech knowledge, but will be beneficial for all Pre-K – 12 teachers.