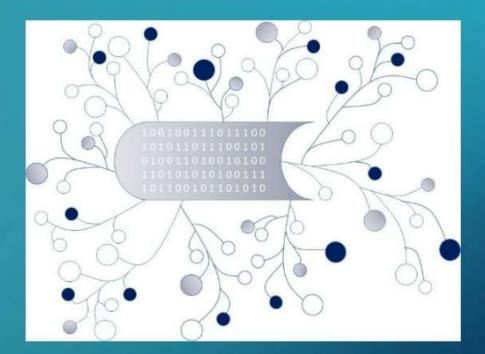
Digl-VET Project number: 2018-1-DE02-KA202-005145

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Teacher Module 4 – The need of digitisation in today' s world of work and insights into future developments.



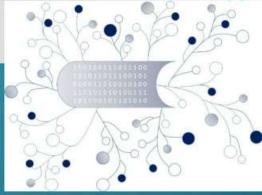
DigI-VET - FOSTERING DIGITISATION AND INDUSTRY 4.0 IN VOCATIONAL EDUCATION AND TRAINING



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AGENDA



1. The need of digitisation in today's world of work1.1 Industry
1.2 Education
1.3 Tasks

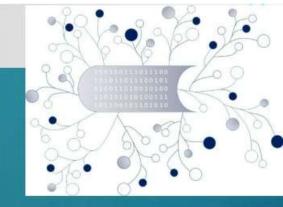
2. Insights into future developments2.1 Looking to the future2.2 Tasks



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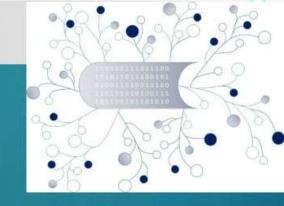
The need of digitisation in today's world of work 1. Industry

- Looking at history, we see how it repeats itself in terms of the 4th industrial revolution: modern 21st century's' technological advancement has contributed with numerous innovations challenging both the education and the industry
- We must emphasize that digitisation affects industry by making it cost efficient. In the same time, there is lacksquarea risk of technology taking over human manpower.
 - Despite the undeniable advantages of digitization, the main dilemma industry and digitisation faces is the maintenance of human labour force









The need of digitisation in today's world of work 1. Industry

- I believe in the face of new technologies, humanity will be able to use them to benefit us said Huawei CEO Ren Zhengfei during the tech session focused on the Fourth Industrial Revolution, from Davos.
- Smart products will be everywhere, from smart clothing, watches, and phones, to smart machine and equipments, buildings and smart cities.
 - Current statistics show that the issue arises not because robots or machines change human labour, but because individuals do not possess set skills to work the complex machinery.









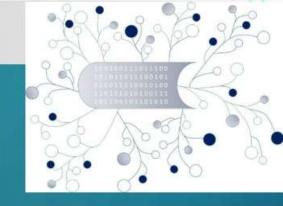
According to European Commission, in the ICT (Information Technology) sector will be around 756.000 unfulfilled job vacancies. These numbers depict a significant impact of trainings to provide set of needed skills to work with newly introduced technologies. Thus, number of spare job vacancies would decline and the GVA could have exponential increment.











The new technologies does not only affect the students, but it carries an impact on teachers as well. Not all teachers are trained and qualified to be able to use technologies successfully, it takes time to transform set of teaching methods. Frequently, technological error such as internet connectivity issue might arise leading to learning and teaching difficulty.













It is important to teach younger generation from the beginning to gain skills of competence in relation to technologies. Adding digitised sources into the learning process increases productivity: it makes documents more accessible and reduces learning time, increasing efficiency.

University of Durham provided a research based of teaching methods stating that they should not be substituted with digital technologies. The best result is attained when students are using technologies during certain periods of time.









IMPORTANT!

Technologies should be used as a tool and not be regarded as an alternative for teaching provided by an acknowledged individual (professor) in a classroom!

It is essential to use these tools sensibly and avoid over consumption!











The need of digitisation in today's world of work

CONCLUSION

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If the labour force is equipped with the skills needed to use the technology, it will grant us major transformation in our society.



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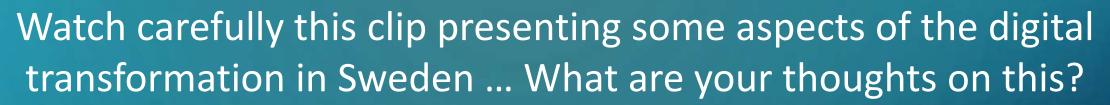
The need of digitisation in today's world of work

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TASK





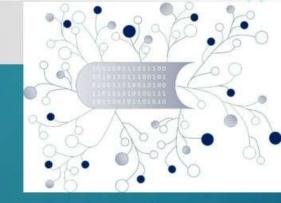
Task

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Same like with the other innovations, the world of online technologies is associated with certain contradictions and unforeseen circumstances. For instance parents, who want their child to spend less time at the computer, should change their mind, since education process modernization presupposes the opposite.









One of the contradictions seriously impeding the modernization of education is the discrepancy between the speed of digitalization of educational resources and the speed at which the digitalization of the educational process itself, which is still very low.







Discussing the phenomenon of digitalization it should be noted that various analysts and forecast experts (mostly British, including Tim Berners-Lee - one of the inventors of the World Wide Web (Stuart, 2014)) consider transition of education process into digital stage as the turning point in the history of education.







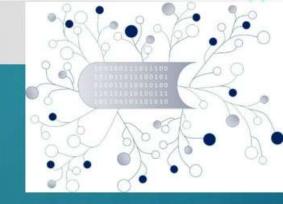


EU 2020 education development strategy "DigEduPol": The main aim is to integrate digital technologies in education process, so that they were going hand in hand both with teaching of certain subjects and with school education process in general.









The future will be about pairing the artificial intelligence of computers with the cognitive, social and emotional capabilities of humans, so that we educate first-class humans, not second-class robots" — OECD, Trends Shaping Education report.





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Classroom activities of the future will not represent a typical picture of a teacher in front of its students, sitting at desks arranged in perfect rows. Introduction of innovation digital technologies will change not only teaching form and tools, but its environment as such. Therefore the classroom of the future should not be a place of knowledge transfer, but a place of investing in the mind of students, focusing on creativity and innovation and not on repeating readymade opinions or mechanical response to test questions.

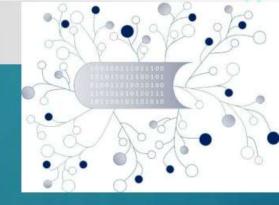








1. Classrooms 2.0 The classrooms of the future will be centred around self-paced and personalized learning.



2. Artificial intelligence in education typically focuses on identifying what a student does or doesn't know, and then subsequently developing a personalized curricula for each student .







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3. Chatbots also quickly becoming a fundamental tool in next generation education.

4. Video Learning

Virtual reality (VR), video-recorded or online lectures, e-portfolios, and other forms of interactive study.



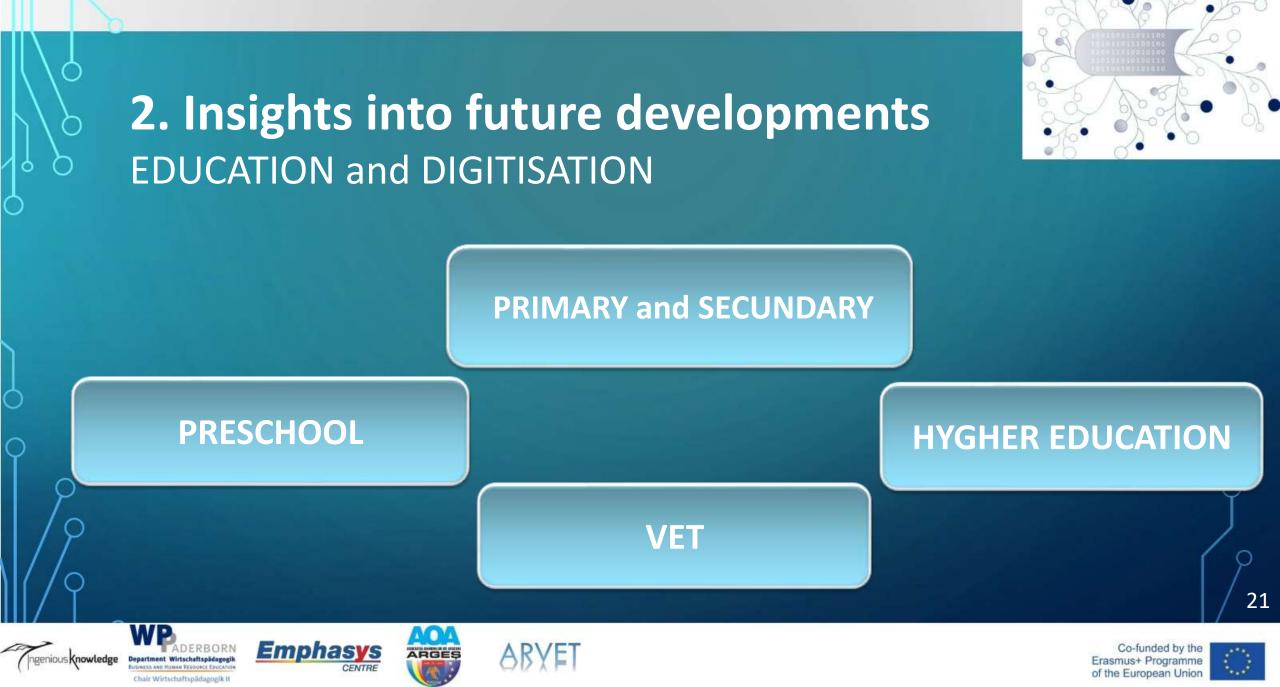




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Digitization has begun, and the application of IT technology is unstoppable. And of course this affect the acceleration of other processes in society; we are already seeing great changes in education.











TASK

Please answer the next H5P.org tasks!



TASK

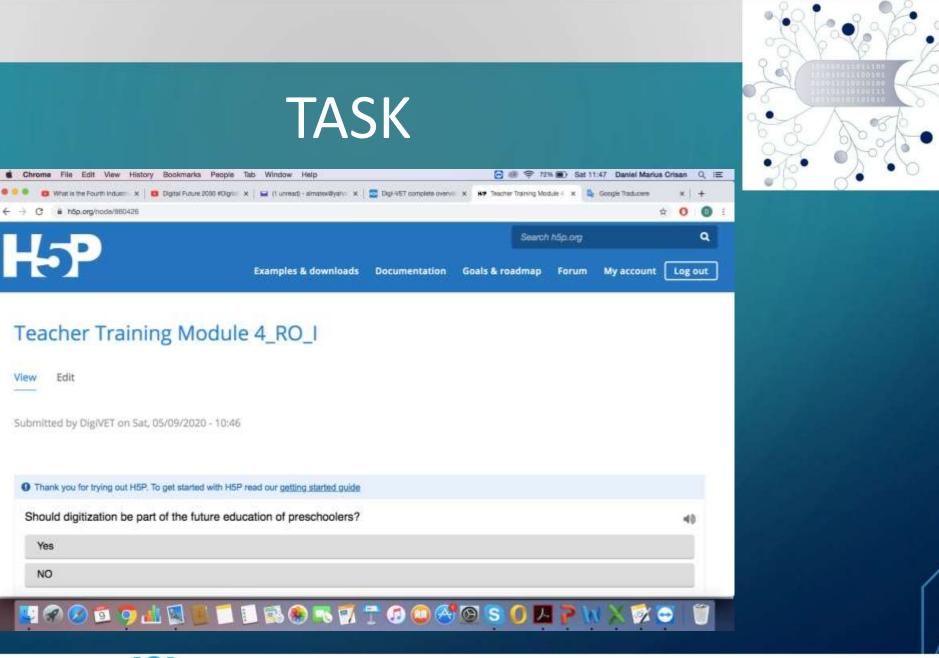




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Yes

NO

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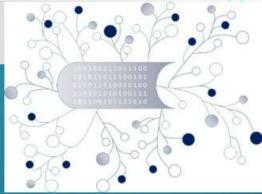
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Daniel CRISAN

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