EUCARE4.0

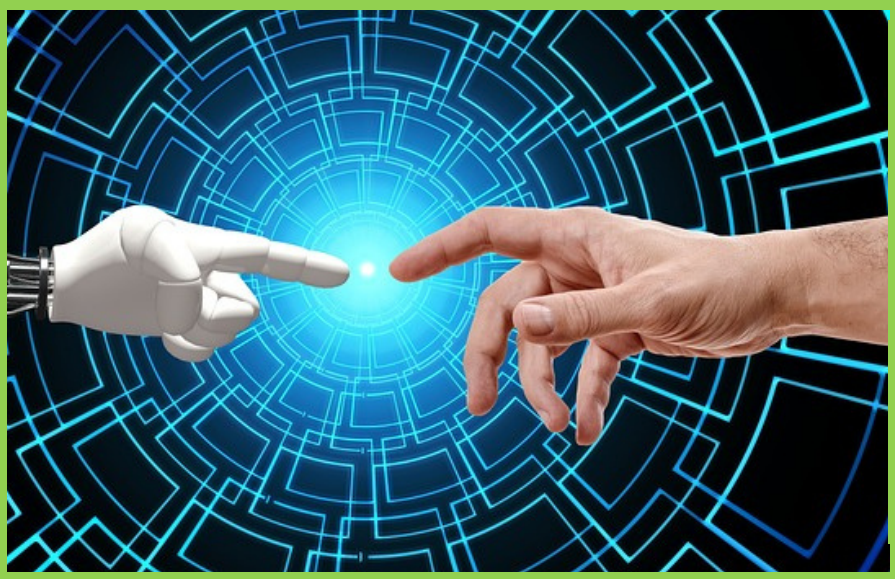
HEALTH 4.0 TRAINING TO BOOST DIGITAL TRANSFORMATION OF EU HEALTHCARE SECTOR

NEWSLETTER #3
APRIL 2023

Erasmus+

EUcare4.0

Project no.: 2021-1-FR01-KA220-VET-000024860



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Welcome

Welcome to the third newsletter of the Erasmus+ project called "Health 4.0 training to boost digital transformation of EU healthcare sector", acronym EUcare4.0.
In this issue we'll cover a technology coming from Industry 4.0 that is becoming more and more popular in healthcare: the Artificial Intelligence (AI). According to the father of Artificial Intelligence John McCarthy, it is “The science and engineering of making intelligent machines, especially intelligent computer programs”.
Artificial Intelligence is a way of making a computer, a computer-controlled robot, or a software think intelligently, in the similar manner the intelligent humans think.
AI is accomplished by studying how human brain thinks, and how humans learn, decide and work while trying to solve a problem, and then using the outcomes of this study as a basis of developing intelligent software and systems.the recent years,

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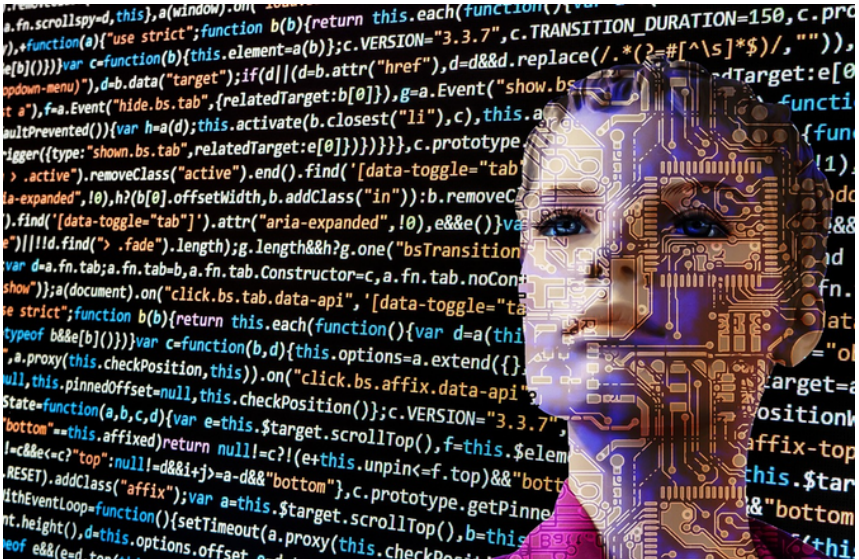
Project's Aim & Target Group

The project’s main objective is to support the digital transformation of EU healthcare through development of digital skills, competences and knowledge needed for efficiently applying and using the Health 4.0 principles and underlying technologies in the mental health sector.

The primary target groups of the EUcare4.0 project are VET trainers that deliver various trainings to mental health specialists. They will benefit directly from project results and activities and will be able to gain or improve their knowledge and skills related to Health 4.0. The secondary target group are the above mentioned mental health specialists such as psychiatrists, psychiatric nurse practitioners, psychologists, social workers, and counsellors. The project meets the needs of target groups by providing them the necessary training materials and tools.

Artificial Intelligence in healthcare

Some experts are predicting that the healthcare industry is the sector that could be the most affected by the enormous changes of the fourth industrial revolution.
In healthcare, AI is helping doctors to spot illness earlier and to make more accurate choices in treatment plans.
According to the World Economic Forum, it is becoming clear that the use of AI within healthcare services could be a game-changer for providing more effective and personalized treatment plans.
The technology not only gives more insight into patients' needs but also helps develop therapist techniques and training.
The long-term efficacy of AI in health therapy is yet to be thoroughly tested, but the initial results appear promising. From chronic diseases, like cancer, to radiology, AI is being leveraged to deploy efficient and precise inventions that will help take care of patients suffering from these diseases and hopefully find a cure for them.
AI provides several advantages over traditional methods of analytics and making clinical decisions.
AI algorithms make the systems more precise as they get the opportunity to understand training data, which furthers helps humans get unprecedented insights into treatment variability, care processes, diagnostics, and patient results.



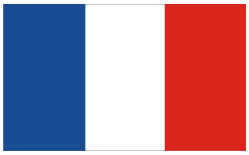
Artificial Intelligence and Health 4.0

The biggest promise of AI in healthcare comes from changing clinical workflows.
AI can add value by either automating or augmenting the work of clinicians and staff.
Many repetitive tasks will become fully automated, and we can also use AI as a tool to help health professionals perform better at their jobs and improve outcomes for patients.
Before AI systems can be deployed in healthcare applications, they need to be 'trained' through data that are generated from clinical activities, such as screening, diagnosis, treatment assignment and so on, so that they can learn similar groups of subjects, associations between subject features and outcomes of interest.
The value of AI doesn't come from the technology; it comes from changing clinical workflows and operational processes. AI adds value in only one or two ways: It adds value by automating the way work is done or augmenting the way work is done.
Automation means highly repetitive work done by humans today is going to be done by a smart machine today or in the future. But the biggest part of healthcare today is augmentation. The idea of augmentation is, 'How do we bring AI in behind the humans to make them better at something they care about?'
To be able to adapt to future trends and the integration of AI into the healthcare system, clinicians simply need to become aware of the power of this new technology and understand that the world is changing. Instead of taking over jobs, building an intelligent health system will make clinicians better at what they do, while improving patient experiences. It's clearly a win-win all around.

TPM news

Hosted by OAMGMAMR Iași, the third Transnational Partner Meeting took place in Iași, Romania, the 24th of April 2023.
The event was organised by the Romanian partners OAMGMAMR Iași and Ludor Engineering and took place as a hybrid meeting with some of the partners being physically present in Iași and some joining virtually through the Zoom platform.
During the meeting, the targets of the project were discussed, pointing out the parts already developed and the parts on which the individual partners will have to work in the coming months.
A visit to the old part of Iași and an informal dinner at a local restaurant were also part of the agenda.

Meet the EUcare4.0 partners



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