NEWSLETTER

INClusive **A**rtificial **I**ntelligence

The Commission publishes guidelines to help teachers address misconceptions about Artificial Intelligence and promote its ethical use

On 25th October 2022, , the European Commission published Ethical Guidelines on the Use of Artificial Intelligence (AI) and data in teaching and learning for teachers. The Guidelines address how AI is used in schools, to support teachers and students in their teaching and learning, and to support administrative tasks in educational settings. The Guidelines are part of the Digital Education Action Plan (2021-2027) and were developed by a dedicated Commission Expert Group bringing together a wide range of practitioners from the world of education and training, academia, private sector and international organisations.

Commissioner for Innovation, Research, Culture, Education and Youth, Mariya **Gabriel** said: *"Artificial Intelligence has a great potential to transform education and training for students, teachers and school staff. It can help students with learning difficulties and support teachers through individualised learning. But the use of AI and data comes with privacy, security and safety risks, especially when it involves our young people. Therefore, I am pleased that these Guidelines will help ensure that these risks are being considered and our children can be kept safe and protected."*

As AI systems constantly evolve and data usage proliferates, there is a need to develop a better understanding of their impact, including on education and training. The rapid increase in the use of AI requires that educators and students have a basic understanding of AI and data usage to be able to engage positively, critically and ethically with this technology and to exploit its full potential.

The Guidelines will help teachers at primary and secondary levels of education, independently of their experience in digital education. The objective is to clarify popular and widespread misconceptions about AI that might cause confusion or anxiety over its use, especially in education. Ethical considerations and requirements are also addressed by offering practical advice to educators and school leaders on how to plan an effective use of AI and data in schools. For example, the guidelines advise on how to use technologies to adapt teaching to each learner's ability or how to prepare individualised interventions for students with special needs. Finally, they are a solid basis to discuss emerging competences for an ethical use of AI and data among teachers and educators and suggest ways of raising awareness and engaging with the community.

Promoting excellence and trust in Artificial Intelligence is a key priority of the Commission, which, in April 2021, proposed the first-ever legal framework on AI (the AI Act). It follows a risk-based approach and requires , among others, strict obligations for AI systems used in educational or vocational training that may determine the access to education and professional course of someone's life (e.g. the scoring of exams). Today's Guidelines complement the work of the Commission on AI and its efforts to promote AI and data in education and training through its Erasmus+ Programme, European Solidarity Corps and eTwinning.

The Guidelibes can be downloaded here:

[Ethical guidelines on the use of artificial intelligence (AI) and data in teaching and learning for educators - Publications Office of the EU (europa.eu)](#)

THE PROJECT

INCAI (Inclusive artificial Intelligence) is a two year Erasmus Plus Strategic partnership sharing of good practice project in the field of adult education. The partnership is made up of 8 partners from 8 EU countries, from Community and Adult Education, HE, Technical and business sectors. The INCAI project aims to examine the ways specific AI technology can support diverse learners and how AI is used in particular in the context of Adult Education to provide a more inclusive and flexible learning environment. Educators from partner organisations will link with ICT/AI specialist organisations in their country and work with a specific target groups of disadvantaged learners and co–produce a wireframe plan for a piece of AI technology which would meet specific needs of that target group. In doing this it will improve the skills and competencies of the adult educators and provide them with innovative learning methodologies to make their services more inclusive as well as the competencies knowledge and insight of disadvantaged learners and knowledge and skills of AI professionals and social partners. At meetings in will be used for a mixture of general management and administration and sharing of learning and exchange of current good practice and a visit to the local AI specialist along with representatives of the target group.

TPM KRAKOW

Krakow, Poland, June 2022

The Transnational Partners Meeting in Krakow, which took place in June, was full of discussions and meeting with experts from the field of diversity and inclusion and technology, working in different organisations – corporations, NGOs, universities, public and private and having different specialisations related to the INCAI project.

State Street Bank – Global Inclusion Diversity & Equity
The subject of the presentation was the diversity and equity strategy of the global financial institution, the State Street Bank. First speaker, Dariusz Krupa EMEA Inclusion & Diversity Expert presented the general approach, then introduced Monika Jankowska-Rangelov EMEA Head Inclusion & Diversity, Vice President and Monika Lis, Head of Poland Working Parents Club. They presented the activities and tools that are implemented in the corporation to ensure equity and inclusion: procedures, initiatives, events addressing the needs of various groups of employees.
The special focus was put on the Employee Resource Groups (such as Working Parents Clubs or LGBTQ+ supporting groups) which are representatives of groups with specific needs and play a significant role in equity assurance.

Jagiellonian University – Presentation of the research: Internet of others: Multi-method identity building for better EDI (Equality, Diversity and Inclusion) at university.
The lecture by Katarzyna Baliga-Nicholson, Phd from Jagiellonian University explored the nature of artificial intelligence, the meaning and understanding of this technology and phenomena.
The reflection was based on the study conducted by the researcher with included designing of a chat bot which aimed to implement the inclusive organizational culture on the university (especially addressing the LGBTQ+ community inclusion).
The final part of the lecture was a discussion on the concept of AI and inclusiveness with some provocative questions from the lecturer.

Astor Innovation Room – 4.0 Engereering
ASTOR is an automation engineering company, strongly focused on innovations. During the meeting they presented a concept of "4.0 Engineering" which refers to the integration of various technologies in delivering products and services (AI is one of these technologies).

In the company's showroom the participants observed the "centre of management" of the complicated system of data and robots operating and showing the technological possibilities and precise actions – on demands of the group, that resembled a kind of human-machine understanding or cooperation.

The short discussion and questions from the group concerned some technological and ecological aspects and also – from the social side: the issue of replacing human employees by robots, if we should be afraid of that or not.

Krakow Technology Part: about AI in my business, about blockchain in my business
Krakow Technology Park is the ecosystem that supports innovative entrepreneurs, startups, creates and supports communities around technologies, innovation and entrepreneurship.
The first part of the meeting was about the principles and activity of KPT, its project, companies, clusters that are around and general idea.
Then two companies/ startups were invited to present how they are using specific technologies in their businesses – one was about blockchain, the second one – AI. The founders presented their idea, the stage of development of the concepts and the questions that are ahead.
The presentations were followed by a guided visit in the common spaces of the Krakow Technology Park (the building is quite impressive and implements kind of an idea of the space ship).

National Synchrotron Radiation
National Synchrotron Radiation Centre is a research centre that in advanced physics. It explores the nature of light, radiation and is one of its kind in this part of Europe (however there are also synchrotrons in other parts of Europe). The centre is managed by the Jagiellonian University. The guided tour showed the group of participants on one hand – the scope of the research that is conducted in this kind of facilities, on the other – the complex and complicated spaces and machines that are used to explore and understand the nature of universe.

Multicultural Centre - Krakow for Ukraine
The Multicultural Centre in Krakow is the leading organisation coordinating the help to the Ukrainians fleeing their country because of war that followed Russian invasion. Poland, as the neighbour country received millions of migrants and showed unprecedented solidarity however that situation is still a challenge, as the war continues. The meeting and the discussion were focused on fast and rapid, demanding actions in the face of migration due to sudden crisis, migration policies in European countries, challenges when helping people with traumatic experiences and providing help in the situation when need are bigger than resources. The subject of inclusion was addressed in the context of migration, also in the crisis situations.

Partners were very satisfied with the meeting and also delighted with the city of Krakow!

TPM SWEDEN

Stockholm, Sweden, September 2022

The fourth Transnational Partnership Meeting of the INCAI Project was held in Stockholm, Sweden in September 2022. It was hosted by our Partner ValueHub and the Theme was New Innovations in AI. We looked at Transformer models and worked with open access tools.
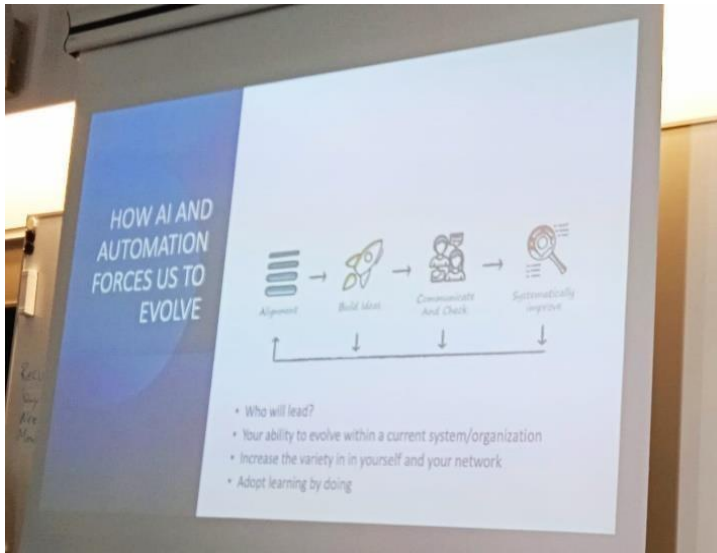
www.openai.com
www.huggingface.com
www.figma.com
www.stability.ai

We also use the meeting to work on measuring impact and in particular how we will measure the impact of pour project.

We also discussed the Ethics of AI and watched a presentation from a Swedishorganisationwho specialize in Ethical AI.https://anch.ai/and VALUEHUB presented a paper about EthicalAI. We will Take our learning forward in the work with our national groups and also in our future collaborative working on sustainability of the project.

Next Steps

In the next few months partners will be holding focus groups with learners to talk about AI in education and how AI can make their learning more Inclusive. We will also be planning the next meeting in Palermo in March and preparing for the final training in Athens in June.