## GUIDING QUESTIONS FOR SELF-ASSESSMENT ON USE OF ARTIFICIAL INTELLIGENCE IN RESEARCH\*

\*Based on the ethics issues checklist used in the EU ethics self-assessment (EU Grants 2021, 42-44)

## Artificial Intelligence/Generative Artificial Intelligence ethics issues checklist

Please note: In completing this section, please consult the DCU REC Guidance on the ethical use of AI in research available <a href="here">here</a>. This document establishes a set of high-level ethics guidelines for trustworthy AI and encompasses a set of prerequisites that should be adopted during the development, deployment, and/or use of AI-based solutions in research projects.

Please answer the five 'yes'/'no' questions below, and provide the relevant information where a 'yes' answer is indicated:

ARTIFICIAL INTELLIGENCE	YES	/ NO	INFORMATION TO BE PROVIDED
Does this activity involve the development, deployment and/or use of Artificial Intelligence-based systems?			<ol> <li>Explanation as to how the participants and/or end-users will be informed about:         <ul> <li>their interaction with an AI system/technology (if relevant);</li> <li>the abilities, limitations, risks and benefits of the proposed AI system/technique; the manner in which decisions are taken and the logic behind them (if relevant).</li> </ul> </li> <li>Details on the measures taken to avoid bias in input data and algorithm design;</li> <li>Explanation as to how the respect for fundamental human rights and freedoms (e.g. human autonomy, privacy and data protection) will be ensured;</li> <li>Detailed explanation of the potential ethics risks and the risk mitigation measures.</li> </ol>

2. Could the AI based system/technique potentially stigmatise or discriminate against people (e.g. based on sex, race, ethnic or social origin, age, genetic features, disability, sexual orientation, language, religion or belief, membership to a political group, or membership to a national minority)?		1) Detailed explanation of the measures set in place to avoid potential bias, discrimination and stigmatisation.
3. Does the AI system/technique interact, replace or influence human decision-making processes (e.g. issues affecting human life, health, well-being or human rights, or economic, social or political decisions)?		1) Detailed explanation of how humans will maintain meaningful control over the most important aspects of the decision-making process;  2) Explanation of how the presence/role of the AI will be made clear and explicit to the affected individuals.
4. Does the AI system/technique have the potential to lead to negative social (e.g. on democracy, media, labour market, freedoms, educational choices, mass surveillance) and/or environmental impacts either through intended applications or plausible alternative uses?		<ol> <li>Justification of the need for developing/using this particular technology;</li> <li>Assessment of the ethics risks and detailed description of the measures set in place to mitigate the potential negative impacts during the research, development, deployment and post-deployment phase.</li> </ol>
5. Does the AI system to be developed/used in the project raise any other ethical issues not covered by the questions above (e.g. subliminal, covert or deceptive AI, AI that is used to stimulate addictive behaviours, life-like humanoid robots etc.)?		Detailed explanation of how the potential ethics issues will be addressed and measures set in place to mitigate against ethics risks.