TECHETHOS

FUTURE ○ TECHNOLOGY ○ ETHICS

The challenge

New and emerging technologies are expected to generate new opportunities and offer a wealth of socio-economic benefits.

However, due to their transformative potential, these technologies are also likely to pose a number of ethical challenges and societal consequences. We have a chance, now in the early stages of their development, to ensure that ethics and societal values are prioritised.

Our vision

Ethics by design, or in other words, bringing ethical and societal values into the design, development and deployment of technology from the very beginning of the process.

Our solution

TechEthos addresses the growing ethical challenges and expectations regarding new and emerging technologies by:

Scanning

the technology horizon to identify 3 new and emerging technology families, carefully selected by our team for their relevance in terms of potential socio-economic impact on our societies and challenging ethical issues.

Analysing

each of these technologies in terms of ethics, policy and legal implications, and societal awareness and acceptance, by engaging with academia, industry and the general public alike.

Enhancing

ethical and legal frameworks and operational guidelines to support the research and innovation community in integrating ethics concerns and societal values into their research protocols and technology design.

Our focus

Interaction with the digital world

Digital Extended Reality

These technologies use AI-powered hardware and software that can perceive and process human sensory outputs and communications. They could change how people connect with each other and their surroundings through interaction with virtual environments.

Interaction with the planet

Climate Engineering

From carbon capture, use and storage to solar geoengineering, these technologies act on the Earth's climate system. They could mitigate and respond to threats from climate change on both a local and global scale.

Interaction with the human body

Neurotechnologies

These technologies directly involve the human brain in monitoring, assessing, emulating, and manipulating its structure, functions and capabilities. They have the potential to change personhood and disrupt healthcare practices.

At a glance

TechEthos (Ethics for Technologies with High Socio-Economic Impact)

• **Funding**	Horizon 2020 Research and Innovation Programme's Science and for Society (SwafS)
• **Duration**	2021 – 2023 (3 years)
• **EU grant**	€3.99 million
• **Coordinator**	AIT - Austrian Institute of Technology
• **Consortium**	16 organisations from 13 countries
• **Website**	www.techethos.eu

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