Application fields for artificial intelligence and blockchain

In the following fields, artificial intelligence and blockchain can help to achieve a high ecological or social impact with innovations

Green & Social Growth

Artificial intelligence

Artificial intelligence helps wherever large amounts of data are used in an intelligent way. It recognizes patterns, learns and helps with decision-making. It helps to optimize resources. With the help of artificial intelligence, processes can be better tailored to individuals and contexts. As a basic technology, it can make the work in all areas of ecological or social sustainability more efficient and effective.

Blockchain

The blockchain is a digital directory for the storage and exchange of data. The data is summarized in blocks that are linked in a chain. The blockchain distributes data sovereignty across many small units instead of concentrating it in a central unit. This makes processes and systems more transparent and their participants more equal. Another unique feature of blockchain is the security and immutability of the digital directory.

Impact field	Here are some exemplary application fields:	Here are some exemplary application fields:	SDG
Ecosystems		• Observation and protection of ecosystems (e.g. forest, water) • Climate modeling and prediction • Biodiversity protection (animals, plants)	13 CLIMATE ACTION; 14 LIFE BELOW WATER; 15 LIFE ON LAND
Food	• Reduction of food waste • Sustainable and intelligent agriculture	• Traceability of food	2 ZERO HUNGER
Water	• Intelligent and efficient water management (• Monitoring and improvement of water quality)		6 CLEAN WATER AND SANITATION
Energy	• Intelligent and efficient energy management	• Decentralized energy grid and peer-to-peer energy trading	7 AFFORDABLE AND CLEAN ENERGY
Traffic	• Intelligent and efficient traffic management		11 SUSTAINABLE CITIES AND COMMUNITIES
Supply chain	• Supply chain optimization • Intelligent and efficient logistics and transport management	• Traceability of products along the supply chain • Decentralized supply chains	12 RESPONSIBLE CONSUMPTION AND PRODUCTION; 13 CLIMATE ACTION
Healthcare	• Patient-centered and intelligent prevention and diagnostics	• Secure management of patient data	3 GOOD HEALTH AND WELL-BEING
Education	• Student-centered education (learning content, learning behavior, learning pace)	• Decentralized learning platforms	4 QUALITY EDUCATION
Finance		• Decentralized and inclusive financial system	1 NO POVERTY; 10 REDUCED INEQUALITIES
Politics		• Secure and transparent voting processes • Secure and decentralized data and identity management	16 PEACE, JUSTICE AND STRONG INSTITUTIONS

... and more