# IMPROVEMENTSCAN - CANVAS

# Blockchain

**NAME:** Blockchain
**DATE:** May 1, 2025 3:58 AM
**DESCRIPTION OF TECHNOLOGY**
Blockchain polling with Etherium smart contracts and NFTs.

TICT

## HUMAN VALUES

Enhance user empowerment by simplifying the user interface and experience.
Promote inclusivity and accessibility for users of all abilities and backgrounds.
Uphold ethical standards by integrating guidelines that respect human dignity and autonomy.
Encourage civic engagement by educating users on the importance of participation.

## TRANSPARENCY

Open-source the platform to allow for public review and increased trust.
Offer clear documentation and tutorials to explain system operations.
Implement transparent governance models for decision-making processes.
Provide real-time auditing tools for users to verify transactions and outcomes.

## IMPACT ON SOCIETY

Implement off-chain data storage to protect personal information and comply with privacy regulations.
Foster a strong community to encourage user engagement and trust.
Promote voting on specific topics rather than traditional political parties to enhance direct democracy.
Enhance blockchain security by adopting a more secure and scalable blockchain platform.

## STAKEHOLDERS

Engage stakeholders through consultations to address their needs and concerns.
Collaborate with regulatory authorities to ensure compliance and build trust.
Offer educational resources and support to help stakeholders understand the technology.
Create transparent policies to manage conflicts of interest and ensure fairness.

## SUSTAINABILITY

Optimize code for energy efficiency to reduce environmental impact.
Utilize energy-efficient blockchain technologies or Layer 2 scaling solutions.
Promote sustainable practices among users and developers.
Monitor environmental footprint to identify and address sustainability issues.

## HATEFUL AND CRIMINAL ACTORS

Adopt a more secure Layer 0 blockchain to strengthen foundational security against attacks.
Conduct regular security audits of smart contracts to identify and fix vulnerabilities.
Implement robust identity verification to prevent unauthorized access and fraudulent voting.
Establish governance protocols to handle malicious activities effectively.

## DATA

Implement data validation mechanisms to improve accuracy and integrity.
Mitigate data bias by encouraging diverse participation and fair token distribution.
Enhance transparency while protecting privacy through anonymization techniques.
Regularly audit data practices to maintain high standards of data management.

## FUTURE

Plan for scalability to accommodate growing user bases without degrading performance.
Stay adaptable to legal changes by monitoring regulations and updating compliance.
Invest in continuous innovation to integrate emerging technologies and features.
Promote ethical development to ensure the technology benefits society responsibly.

## PRIVACY

Store user data off-chain in secure, encrypted databases to safeguard personal information.
Enhance data encryption and access controls to prevent unauthorized data access.
Ensure compliance with data protection laws like GDPR.
Provide transparent privacy policies to inform users about data handling practices.

## INCLUSIVITY

Design for universal accessibility to accommodate users with disabilities.
Simplify the platform to cater to varying levels of technical literacy.
Provide multilingual support to reach a global audience.
Ensure equitable access by considering solutions for users with limited resources.

**NAME:** Blockchain
**DATE:** May 1, 2025 3:58 AM
**DESCRIPTION OF TECHNOLOGY**
Blockchain polling with Etherium smart contracts and NFTs.

**TICT**

## HUMAN VALUES

**Now that you have thought hard about the impact of your technology on human values, what improvements…**

If you think about the impact of this technology on human values and needs. If you think about how this technology affects the identity of the user, the autonomy of the user (can the users make their own decisions?) and the health and well-being of the user. If you think about all that, what improvement would you (want to) make? In the technology?…

## TRANSPARENCY

**Now that you have thought hard about the transparency of this technology, what improvements would you like t…**

If you think about the communication on the way the technology works and the businessmodel. If you think about the explanation on automatic decisions that are made. If you think about complaint procedures and transparency on possible negative effects. If you think about all that, what would you (want to) improve? In the technology? In context?…

## IMPACT ON SOCIETY

**Now that you have thought hard about the impact of this technology on society (by filling out the questions…**

If you think about the real problem this technology is going to solve. If you think about the ability of this technology to solve the real problem. If you think about possible negative effects and whether this technology will contribute to a world you want to live in. If you think about all that, what improvements would you make? In technology? In context? In use?…

## STAKEHOLDERS

**Now that you have thought hard about all stakeholders, what improvements would you like to make? List them…**

If you think about all stakeholders of this technology. If you think about stakeholders that are less obvious. If you think about the way certain stakeholders are affected by this technology and if you want to take them into consideration. If you think about all that, what would you (want to) improve? In the technology? In context? In use?…

## SUSTAINABILITY

**Now that you have thought hard about the sustainability of this technology, what improvements would you like t…**

If you think about the direct and indirect energy use and the materials that are used in the technology. If you think about the lifespan of the technology and the hidden environmental impact of the technology. If you think about all that, what improvements would you (want to) make? In the technology? In context? In use?…

## HATEFUL AND CRIMINAL ACTORS

**Now that you have thought hard about how bad actors can impact this technology, what improvements would…**

If you think about this technology being used to break the law, or avoid the consequences of breaking the law, or to be used against certain groups, or to attack the truth or to pit certain groups against each other. If you think about all of that, what improvements would you (want to) make? In the technology? In context? In use?…

## DATA

**Now that you have thought hard about the impact of data on this technology, what improvements would you…**

If you think about the limitations of data. Things like subjectivity, incomplete datasets and so on. If you think about the way new insights are handled. If you think about the sustainability of the collection of data or the data that is collected from the users. If you think about all that, what would you (want to) improve? In the technology? In context?…

## FUTURE

**Impact Improvement: Now that you have thought hard about the future impact of the technology, what…**

If you think about an utopian and a dystopian scenario. If you think about the way this technology can change the world. If you think about the consequences of a different party buying your technology. If you think about all that, what would you (want to) improve? In the technology? In context? In use? …

## PRIVACY

**Now that you have thought hard about privacy and data protection, what improvements would you like to make?…**

If you think about this technology invading someone's privacy or collecting personal data and if you think about the way this technology is compliant with prevailing law and mitigates dataprotection risks and concerns. If you think about all that, what improvements would you (want to) make? In the technology? In context? In use?…

## INCLUSIVITY

**Now that you have thought hard about the inclusivity of the technology, what improvements would you like to…**

If you think about accessibility to this technology. If you think about built in biases or automatic decisions that may be biased. If you think about who is benefitting from this technology and the diversity of the team that creates the technology. If you think about all that, what improvements would you (want to) make? In the technology? In context? In use?

## FIND US ON WWW.TICT.IO

Fontys
University of Applied Sciences

**TICT**