

# Cardano Blockchain

A third generation Blockchain that will be responsible for serving the Cardano network. With frequent development updates that evolve out of a scientific peer reviewed philosophy this blockchain aims to provide scalability, performance, low cost and decentralization. This would enable a new way of building our world. With recent implementation we can create a whole decentralized network.

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Context of use: Education  
Level of education: Bachelor

# Technology Impact Cycle Tool

Cardano Blockchain

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## Impact on society

What impact is expected from your technology?

*This category is only partial filled.*

### **What is exactly the problem? Is it really a problem? Are you sure?**

Cardano is still in very early days of development. Numerous issues still need to be solved. Scalability is the most notable one of those. Other issues are ease of development and environmental impact.

### **Are you sure that this technology is solving the RIGHT problem?**

*This question has not been answered yet.*

### **How is this technology going to solve the problem?**

*This question has not been answered yet.*

### **What negative effects do you expect from this technology?**

*This question has not been answered yet.*

### **In what way is this technology contributing to a world you want to live in?**

*This question has not been answered yet.*

### **Now that you have thought hard about the impact of this technology on society (by filling out the questions above), what improvements would you like to make to the technology? List them below.**

*This question has not been answered yet.*

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## Hateful and criminal actors

What can bad actors do with your technology?

*This category is only partial filled.*

### **In which way can the technology be used to break the law or avoid the consequences of breaking the law?**

With decentralization we hit a bit of a grey area, most countries are not adapted and are frankly not understanding of what the possible impact could be of this technology for our society. Countries like China and Amerika are front runners in regulation. One example of decentralization could be that in theory you could decentralize the government and let it run autonomously and transparently. You could pretty much decentralize everything in this way.

### **Can fakers, thieves or scammers abuse the technology?**

*This question has not been answered yet.*

### **Can the technology be used against certain (ethnic) groups or (social) classes?**

*This question has not been answered yet.*

### **In which way can bad actors use this technology to pit certain groups against each other? These groups can be, but are not constrained to, ethnic, social, political or religious groups.**

*This question has not been answered yet.*

### **How could bad actors use this technology to subvert or attack the truth?**

*This question has not been answered yet.*

### **Now that you have thought hard about how bad actors can impact this technology, what improvements would you like to make? List them below.**

*This question has not been answered yet.*

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## Privacy

Are you considering the privacy & personal data of the users of your technology?

*This category is only partial filled.*

### **Does the technology register personal data? If yes, what personal data?**

It can, but it doesn't have to. It all depends on the implementation of the technology. We could build a fully transparent log of everything that is stored on the chain. This would make all stored data publicly available, or to those who need it. One could also differentiate from this and build a private blockchain, and share anything. This would be comparable to the implementation of a public or private network.

### **Do you think the technology invades the privacy of the stakeholders? If yes, in what way?**

*This question has not been answered yet.*

### **Is the technology is compliant with prevailing privacy and data protection law? Can you indicate why?**

*This question has not been answered yet.*

### **Does the technology mitigate privacy and data protection risks/concerns (privacy by design)? Please indicate how.**

*This question has not been answered yet.*

### **In which way can you imagine a future impact of the collection of personal data?**

*This question has not been answered yet.*

### **Now that you have thought hard about privacy and data protection, what improvements would you like to make? List them below.**

*This question has not been answered yet.*

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## Human values

How does the technology affect your human values?

*This category is only partial filled.*

### **How is the identity of the (intended) users affected by the technology?**

Only recently Cardano has enabled smart contracts on their blockchain. Because there are still scalability problems you can't provide any large scale decentralized applications yet. Once this is solved, and this will come rather fast, your imagination is the limit of where you want to take decentralization.

### **How does the technology influence the users' autonomy?**

*This question has not been answered yet.*

### **What is the effect of the technology on the health and/or well-being of users?**

*This question has not been answered yet.*

### **Now that you have thought hard about the impact of your technology on human values, what improvements would you like to make to the technology? List them below.**

*This question has not been answered yet.*

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## Stakeholders

Have you considered all stakeholders?

*This category has not been filled yet.*

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## Data

Is data in your technology properly used?

*This category is only partial filled.*

**Are you familiar with the fundamental shortcomings and pitfalls of data and do you take this sufficiently into account in the technology?**

Yes, and this will be one of the biggest challenges to get right. For example, if one builds a decentralized app it is critical that implementation is done correctly. If done right this technology could effectively be used to give data rights back to the user. Blockchain will play a big part in Web 3.0.

**How does the technology organize continuous improvement when it comes to the use of data?**

*This question has not been answered yet.*

**How will the technology keep the insights that it identifies with data sustainable over time?**

*This question has not been answered yet.*

**In what way do you consider the fact that data is collected from the users?**

*This question has not been answered yet.*

**Now that you have thought hard about the impact of data on this technology, what improvements would you like to make? List them below.**

*This question has not been answered yet.*

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## Inclusivity

Is your technology fair for everyone?

*This category is only partial filled.*

## Will everyone have access to the technology?

*This question has not been answered yet.*

## Does this technology have a built-in bias?

At the current stage yes, only people with a deeper technical expertise will really understand what this blockchain does and how it functions. If you ask a random person about blockchain, chances are high he will think crypto/bitcoin is all blockchain is. There aren't many people yet that see the big picture of blockchain. People with no technical expertise aren't included. One of the challenges is to create more user friendliness around blockchains.

## Does this technology make automatic decisions and how do you account for them?

*This question has not been answered yet.*

## Is everyone benefitting from the technology or only a a small group?

**Do you see this as a problem? Why/why not?**

*This question has not been answered yet.*

## Does the team that creates the technology represent the diversity of our society?

*This question has not been answered yet.*

**Now that you have thought hard about the inclusivity of the technology, what improvements would you like to make? List them below.**

*This question has not been answered yet.*

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## Transparency

Are you transparent about how your technology works?

*This category is only partial filled.*

### **Is it explained to the users/stakeholders how the technology works and how the business model works?**

Yes, all the information is very public. All research papers are public. All the development updates and code is public. The tokenEconomics and roadmap for Cardano is all public. You will need some technical expertise to understand some of these things.

### **If the technology makes an (algorithmic) decision, is it explained to the users/stakeholders how the decision was reached?**

*This question has not been answered yet.*

### **Is it possible to file a complaint or ask questions/get answers about this technology?**

*This question has not been answered yet.*

### **Is the technology (company) clear about possible negative consequences or shortcomings of the technology?**

*This question has not been answered yet.*

### **Now that you have thought hard about the transparency of this technology, what improvements would you like to make? List them below.**

*This question has not been answered yet.*

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## Sustainability

Is your technology environmentally sustainable?

*This category is only partial filled.*

### **In what way is the direct and indirect energy use of this technology taken into account?**

With the new Proof-Of-Stake protocol that Cardano uses it effectively replaces the energy wasteful proof-of-mining protocol that older blockchains like Bitcoin use. It reduces the validation process that cost energy to less than 1% of a proof-of-mining protocol. Although it is still necessary and reflect how much energy we actually use to keep the network running. Things like servers and nodes all have energy cost, and it might be possible to improve more.

### **Do you think alternative materials could have been considered in the technology?**

*This question has not been answered yet.*

### **Do you think the lifespan of the technology is realistic?**

*This question has not been answered yet.*

### **What is the hidden impact of the technology in the whole chain?**

*This question has not been answered yet.*

### **Now that you have thought hard about the sustainability of this technology, what improvements would you like to make? List them below.**

*This question has not been answered yet.*

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## Future

Did you consider future impact?

*This category is only partial filled.*

### **What could possibly happen with this technology in the future?**

This Technology could become as big as the Internet and compete with other current 3th generation blockchains like Ethereum, Solana and more. Alongside the race to the most used blockchain an enormous growth in Applications, systems and other use cases that blockchain provide will ocme with it.

### **Sketch a or some future scenario (s) (20-50 years up front) regarding the technology with the help of storytelling. Start with at least one utopian scenario.**

*This question has not been answered yet.*

### **Sketch a or some future scenario (s) (20-50 years up front) regarding the technology with the help of storytelling. Start with at least one dystopian scenario.**

*This question has not been answered yet.*

### **Would you like to live in one of this scenario's? Why? Why not?**

*This question has not been answered yet.*

### **What happens if the technology (which you have thought of as ethically well-considered) is bought or taken over by another party?**

*This question has not been answered yet.*

### **Impact Improvement: Now that you have thought hard about the future impact of the technology, what improvements would you like to make? List them below.**

*This question has not been answered yet.*