

# Datastream

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# Technology Impact Cycle Tool

Datastream

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## Impact on society

What impact is expected from your technology?

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

This technology will make it easier to identify that you are not infected with corona

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

It gives you a temporary means (2 days) to show authorities that you are not infected

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

Through quicktests and immediately sending the tests to the user

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

There are no immediate negative effects,

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

It is contributing by making it easier to check if you are infected by a disease.

### 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.

A easy and fast way for people to easier identify whether or not they have been infected by a disease

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## Hateful and criminal actors

What can bad actors do with your technology?

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

If a criminal actor finds a way to falsify information it might be possible to pose as a healthy user while he might be infected by a disease

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

If used correctly it should be hard to cross personal or societal boundaries however if the information in regards to being infected are forced to be public it might have an effect towards societal boundaries

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

No

### 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.

At most in regards to the healthy and the sick though that should be extremely difficult to accomplish

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

By using statistics they may be able to make a deceptive claim.

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

Improvements to security

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## Privacy

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

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

Yes, usernames, email and password. Potentially more data however it is uncertain as of yet

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

I do not believe this technology invades someones privacy.

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

I am unable to answer this question with my current knowledge

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

Yes, We make it through use of gateways and secure designs which gives the service(covid-19 tester) information that does not point towards a certain individual

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

If a database is breached from the covid-19 test it is possible to see who has been infected.

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

Research in regards to privacy laws in order to be certain that this project meets the requirements

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## Human values

How does the technology affect your human values?

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

It should make the user anonymous

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

It should not influence it

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

It allows a user to see if he or she has been identified with a disease

**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.**

No improvements are necessary

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## Stakeholders

Have you considered all stakeholders?

*This category is only partial filled.*

**Who are the main users/targetgroups/stakeholders for this technology? Think about the intended context by answering these questions.**

**Name of the stakeholder**

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**How is this stakeholder affected?**

The product owner. Wants a secure application as they will be in trouble if its compromised

**Did you consult the stakeholder?**

Yes

**Are you going to take this stakeholder into account?**

Yes

**Name of the stakeholder**

Casper and Sefan

**How is this stakeholder affected?**

Are the teachers and coach. Will want to get updates.

**Did you consult the stakeholder?**

No

**Are you going to take this stakeholder into account?**

No

**Name of the stakeholder**

Unknown

**How is this stakeholder affected?**

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**Did you consult the stakeholder?**

No

**Are you going to take this stakeholder into account?**

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No

**Did you consider all stakeholders, even the ones that might not be a user or target group, but still might be of interest?**

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

*This question has not been answered yet.*

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## Data

Is data in your technology properly used?

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

The data should not necessary be subjective as we ask of the user to request the digital results of a test

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

We should have to change the data to abide by the law and as such should continuous monitor this.

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

The data is not sustainable over time. Once a test is requested it is sustainable for two days before it expires and will be removed.

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

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

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## Inclusivity

Is your technology fair for everyone?

**Will everyone have access to the technology?**

Yes

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

No

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

No, it is not able to make any decisions without the input of the user.

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

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

Everyone is able to benefit from this and I do not see it as a problem.

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

The team consists of several different members of different backgrounds however the genders are all the same

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

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## Transparency

Are you transparent about how your technology works?

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

When starting the app/website for the first time a page will be shown with all the information in regards to this. This page will be accessible at all times

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

It does not make any algorithmic decisions.

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

Not that I am aware of

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

Yes, there will be warnings in regards to shortcomings

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

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## Sustainability

Is your technology environmentally sustainable?

*This category has not been filled yet.*

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## Future

Did you consider future impact?

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

It will be used to host a platoria of different services including financial and health services

### 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.

Bob walks in front of a club but is denied by the bouncer. The bouncer asks of Bob to show that he is not a carrier of diseases. Bob pulls out his phone and clicks on a button and within 3 seconds it shows that Bob has been tested healthy for everything

### 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.

A insurance worker is looking at his computer. He sees that a certain person has lately been tested positive for a disease and decides that that person has to pay more.

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

I would not mind living in the first future as it shows that humanity has found a way to very easily show whether or not you are sick

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

The party will get ahold of a platform which provides a multitude of services.

### 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.

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