

# Software S64-3

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Created by: kylevr  
Created on: March 4, 2020 8:43 AM  
Changed on: March 4, 2020 10:27 AM

# Technology Impact Cycle Tool

Software S64-3

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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?**

Hoe zetten wij een reliable, scalable en always-online webservice op voor emotion detection geïntegreerd in de Smilei toolkit? Er is nog geen service die meerdere vormen van emotie herkenning samen bundelt.

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

Door het probleem te analyseren en meerdere keren de aanpassingen aan de product owners voor te leggen. Zijn we zeker van het gewenste product.

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

Door verschillende vormen van emotie herkenning beschikbaar te stellen aan de gebruiker en zo een meer volledig beeld te bieden van de gebruikers emoties.

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

Het product kan gebruikt worden voor het manipuleren van klanten door misbruik te maken van hun emoties.

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

Het zou mensen kunnen helpen controle over hun emoties kunnen krijgen. Het maakt het mogelijk voor applicaties om rekening te houden met de gebruikers emotionele staat.

### **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.**

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# Technology Impact Cycle Tool

Software S64-3

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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?

Door misbruik te maken van de gebruikersdata.

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

Ja, gezicht en spraakherkenning gaat voor veel mensen al te ver. Diepe analyse hiervan maakt het alleen maar erger.

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

Het is niet moeilijk om bepaalde groepen te kunnen herkennen met de technologie en deze informatie te misbruiken.

### 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.

Het is niet moeilijk om bepaalde groepen te kunnen herkennen met de technologie en deze informatie te misbruiken door deze groepen verkeerde informatie over een andere groep te geven.

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

door bijvoorbeeld een emotioneel instabiel persoon te manipuleren.

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

Nee, als we het ontwerp veranderen. Doet het product niet meer wat we willen.

# Technology Impact Cycle Tool

Software S64-3

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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?**

Ja, alleen voor ontwikkelaars omdat ze een account moeten hebben. consumenten sturen alleen anonieme emotie data.

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

Nee, onze technologie niet, maar de ontwikkelaars die onze technologie gebruiken kunnen de data wel aan consumenten koppelen.

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

Wij zelf schenden geen privacy wetten. In de voorwaarden wordt toestemming gevraagd aan de gebruiker.

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

Alle emotie data is anoniem. Dus privacy wordt automatisch behouden. We doen wel de ontwikkelaars login gegevens opslaan.

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

Niet relevant.

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

Nee

# Technology Impact Cycle Tool

Software S64-3

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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?**

De gebruiker kan met onze technologie meer controle krijgen over zijn/haar emoties.

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

De technologie kan gebruikt worden voor het manipuleren van klanten door misbruik te maken van hun emoties. Het kan ook gebruikt worden om de gebruiker meer controle te laten krijgen over zijn/haar emoties.

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

De gebruiker kan door onze technologie meer controle krijgen over zijn/haar emoties.

### **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.**

Nee, we hebbe geen aanpassingen gedaan.

# Technology Impact Cycle Tool

Software S64-3

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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**

Media atstudeerstudenten

**How is this stakeholder affected?**

Wij voorzien hun van de data die ze nodig hebben.

**Did you consult the stakeholder?**

Yes

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

Yes

**Name of the stakeholder**

S4 OI

**How is this stakeholder affected?**

Wij voorzien hun van de data die ze nodig hebben

**Did you consult the stakeholder?**

Yes

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

Yes

**Name of the stakeholder**

S4 GD

**How is this stakeholder affected?**

Wij voorzien hun van de data die ze nodig hebben

**Did you consult the stakeholder?**

Yes

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

Yes

# Technology Impact Cycle Tool

Software S64-3

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Name of the stakeholder  
TU/e student

**How is this stakeholder affected?**  
Wij voorzien hun van de data die ze nodig hebben

**Did you consult the stakeholder?**  
Yes

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

Name of the stakeholder  
GGZE

**How is this stakeholder affected?**  
Onbekend

**Did you consult the stakeholder?**  
Yes

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

Name of the stakeholder  
Saasen groep

**How is this stakeholder affected?**  
Onbekend

**Did you consult the stakeholder?**  
Yes

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

Name of the stakeholder  
Docenten

**How is this stakeholder affected?**  
Controleren onze voortgang

**Did you consult the stakeholder?**  
Yes

# Technology Impact Cycle Tool

Software S64-3

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Are you going to take this stakeholder into account?

Yes

**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.**

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# Technology Impact Cycle Tool

Software S64-3

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## Data

Is data in your technology properly used?

*This category is not applicable for this technology.*

# Technology Impact Cycle Tool

Software S64-3

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## Inclusivity

Is your technology fair for everyone?

*This category is not applicable for this technology.*

# Technology Impact Cycle Tool

Software S64-3

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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?**

We kijken naar de gebruikers zijn emoties door middel van verschillende sensoren. Deze data sturen we dan terug naar de applicatie voor verder gebruik.

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

Niet relevant

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

Mogelijk

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

Ja, dit wordt bij de voorwaarden beschreven.

### **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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# Technology Impact Cycle Tool

Software S64-3

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## Sustainability

Is your technology environmentally sustainable?

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

Dit is afhankelijk van de API's die gebruikt worden in onze applicatie.

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

nee, we houden hier geen rekening mee.

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

Ja, dat doet het maar niet onnodig. We weten dat gegevens moeten worden opgeslagen en dat diensten moeten worden geleverd.

### **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.**

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# Technology Impact Cycle Tool

Software S64-3

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## Future

Did you consider future impact?

*This category is not applicable for this technology.*