

# Individual project

In mijn individuele project ga ik een slimme camera maken die kan zien of auto's verkeerd staan geparkeerd in parkeerplaatsen

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Created on: April 11, 2024 8:21 AM  
Changed on: April 16, 2024 12:32 PM

Context of use: Education  
Level of education: Bachelor

# Technology Impact Cycle Tool

Individual project

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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?**

Het probleem waaraan ik zal werken, is het probleem van verkeerd geparkeerde auto's op parkeerplaatsen. De slimme camera zal ervoor zorgen dat er minder auto's verkeerd geparkeerd staan, wat het parkeren ook makkelijker zal maken voor automobilisten. De mensen die verkeerd geparkeerd staan krijgen een bekeuring dmv kenteken recognition.

### **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.*

# Technology Impact Cycle Tool

Individual project

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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?**

Waar mijn slimme camera de grens kan overschrijden, is op het gebied van de privacy van mensen die gefilmd worden. Echter, er wordt geen inbreuk gemaakt op hun privacy, aangezien er geen acties worden ondernomen met de opgenomen beelden, behalve als de camera gehackt wordt, dan kunnen mensen met verkeerde bedoelingen veel informatie achterhalen van personen die elke week dezelfde acties uitvoeren.

### **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.*

# Technology Impact Cycle Tool

Individual project

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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?**

Ik ontvang verschillende data van de mensen, zo ontvang ik het tijdperk wanneer ze bij de parkeergarage zijn, hun auto met kenteken (Als de camera gehackt wordt kan je meer informatie op het internet vinden via het kenteken van de auto, bijv. het adres), of ze goed geparkeerd staan ja of nee.

### **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.*

# Technology Impact Cycle Tool

Individual project

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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?**

Dit product helpt alleen maar parkeerplaatseigenaren en de overheid.

Eenmaal wanneer het wordt gebruikt kan de parkeerplaatseigenaar kentekens ontvangen van verkeerd geparkeerde auto's waardoor de overheid misschien boetes kan uitdelen met beeldmateriaal als bewijs.

### **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.*

# Technology Impact Cycle Tool

Individual project

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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**

Automobilisten

**How is this stakeholder affected?**

-

**Did you consult the stakeholder?**

No

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

No

**Name of the stakeholder**

Gemeentes

**How is this stakeholder affected?**

-

**Did you consult the stakeholder?**

No

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

No

**Name of the stakeholder**

Parkeergaragebeheerders

**How is this stakeholder affected?**

-

**Did you consult the stakeholder?**

No

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

No

# Technology Impact Cycle Tool

Individual project

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**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.*

# Technology Impact Cycle Tool

Individual project

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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?**

De enige data die ik krijg zijn video's van parkeerplaatsen waar de technologie gaat kijken of er auto's goed geparkeerd staan in parkeervlakken. De enige beperkingen kunnen zijn dat de camera niet 100% correct is.

### **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.*



# Technology Impact Cycle Tool

Individual project

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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?

Ja, het kan misschien niet altijd 100% correct zijn omdat sommige auto's langer zijn dan dat het parkeervlak groter is, maar ik ga kijken naar hoeveel procent een parkeervak gevuld is met een auto en daardoor moet ik kunnen zien of een auto juist in een parkeervlak staat of niet.

## 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.*

# Technology Impact Cycle Tool

Individual project

---

## 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?**

Ja, want hoe de AI te werk gaat is heel transparant: De AI detecteert eerst waar de parkeervlakken zijn, daarna kijkt de AI of het parkeervlak gevuld is met een auto, en is een parkeervlak niet goed gevuld dan beoordeeld de AI of de auto WEL of NIET goed is geparkeerd dus ik vind hoe mijn AI te werk gaat wel heel transparant.

### **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.*

# Technology Impact Cycle Tool

Individual project

---

## 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?**

Waar dit systeem de meeste energy kwijt aan is is aan het trainen van het model, verder is het gewoon een slimme camera die data kan versturen.

### **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.*

# Technology Impact Cycle Tool

Individual project

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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?

Deze slimme camera die ik ga ontwikkelen, kan door parkeerplaatsbeheerders worden gebruikt om mensen die verkeerd geparkeerd staan te beboeten. Door deze boetes worden mensen aangemoedigd om beter op te letten bij het parkeren, wat resulteert in een gemakkelijkere parkeerervaring voor automobilisten en minder stress.

### 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.*