

# rekeningrijden

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# Technology Impact Cycle Tool

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## Impact on society

What impact is expected from your technology?

*This category has not been filled yet.*

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## Hateful and criminal actors

What can bad actors do with your technology?

*This category has not been filled yet.*

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## Privacy

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

*This category has not been filled yet.*

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## Human values

How does the technology affect your human values?

*This category has not been filled 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 has not been filled yet.*

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## Inclusivity

Is your technology fair for everyone?

*This category has not been filled yet.*

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## Transparency

Are you transparent about how your technology works?

*This category has not been filled yet.*

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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?**

The development of this product will involve producing tracking boxes that can be placed in cars. Thus, the lifespan would ideally be the same as the lifespan of a car. If you compare this to a phone, which has an average lifespan of 4.7 years and is full of sensors and internet connectivity, this seems like a very reasonable lifespan.

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

The tracking boxes will get their power from the power that is generated by the cars using them. The servers can be made more green by carefully choosing a datacenter with a good environmental rating / grade.

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

No, the emissions caused by our technology will be less than the emissions of the current infrastructure situation, since our technology will ideally reduce the number of traffic jams and driven kilometres.

### **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.**

There are no new questions.

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## Future

Did you consider future impact?

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

*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 utopian scenario.

The road pricing methodology makes people more conscious about the price and environmental impact that is attached to driving cars. Because of this, people utilize greener methods of transportation and the climate change is countered. Traffic jams also happen rarely and the traffic now flows faster and safer.

### 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.

Because of climate change, driving cars is now very expensive. Thus, most people choose to utilize public transport. Green transportation is now crowded and damaging transportation is too expensive for the average person. Most people cannot afford to go out of town anymore.

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

Yes, we would love to earn money by driving in reverse.

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

The technology should always be in control by the government, because the technology controls how we as citizens move ourselves around the country.

### 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.

We made sure that driving in reverse is also billed.