

Sustainability

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Context of use: Education

Level of education: Bachelor

Technology Impact Cycle Tool

Sustainability

Impact on society

What impact is expected from your technology?

This category is not applicable for this technology.

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Sustainability

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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Is your technology environmentally sustainable?

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

Battery of the robot and the the energy use to charge it

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

Yes

Do you think the lifespan of the technology is realistic?

Yes, the robot can be use around 2 to 3 year or 300 500 charing cycle

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

There are more and more used batteries which has a bad impact to the environment

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

New material for battery

New way of transferring energy

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Future

Did you consider future impact?

What could possibly happen with this technology in the future?

It can be used in many fields and many use cases

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.

Maybe in future its will be upgraded and being helpful in life

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.

Can be applied in wars or for violent activities

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

Yes, it will be the same as nuclear bomb invention, we still live happily

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

Our technology is an open source technology so everyone can use it

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.

Spreading more knowledge to everyone, so everyone know how is powerful this technology can be and keep it for the good use