

Future Phones

Future Phones aims to create a concept for phones which can be upgraded to extend their life. The aim of this is to increase the lifecycle of a phone and the ease of recycling as well as introduce people to technology.

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Technology Impact Cycle Tool

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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?

The current electrical waste problems.

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

I chose phones as they are most wide spread electrical device which uses rare materials which are finite and expensive and so by reclaiming these and reducing the amount used could impact a global problem.

How is this technology going to solve the problem?

The aim of the technology is to increase the life span of mobile phones which is currently 4.7 years on average, even if the change is small eg if the idea was successful the life time was 4.8 years this would still start reducing it.

What negative effects do you expect from this technology?

might prompt people to swap their components more regularly because it is cheaper and not lead to a positive change in electrical waste.

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

By trying to making a cleaner and more technically aware society cleaner by reducing electrical waste and more aware by teaching people what is inside their devices and making people less 'scared' of what is inside their devices.

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.

No not 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 is only partial filled.

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

No

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

Third part parts may contain software or components to collect data.

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.

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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?

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

Name of the stakeholder

Battery manufacturer

How is this stakeholder affected?

Needs to supply batteries due to easy removable design it may not be a standard size, probably not happy to make new ones for a small customer

Did you consult the stakeholder?

No

Are you going to take this stakeholder into account?

Yes

Name of the stakeholder

Consumer

How is this stakeholder affected?

Purchases and interacts with the product, affected by unique product may not be comfortable with self upgrading devices etc, design must be appealing to them otherwise they might not use the device for the expected life expectancy.

Did you consult the stakeholder?

Yes

Are you going to take this stakeholder into account?

Yes

Name of the stakeholder

component manufacturer

How is this stakeholder affected?

Makes the parts for the phone although they are standard parts so affect should be minimal.

Did you consult the stakeholder?

No

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Are you going to take this stakeholder into account?

Yes

Name of the stakeholder

investors

How is this stakeholder affected?

Provides money for R&D and start up

Did you consult the stakeholder?

No

Are you going to take this stakeholder into account?

No

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

Name of the stakeholder

recycling companies

How is this stakeholder affected?

would be responsible for recycling the phones so input from them on how to make it easier should be used.

Did you consult the stakeholder?

No

Are you going to take this stakeholder into account?

Yes

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

No

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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?

Will everyone have access to the technology?

If you can afford a smartphone then yes there should be no other requirements.

Does this technology have a built-in bias?

The technology does not aim to collect personal data about the consumer only feedback and suggestions, EG what parts break most often, what would people like to see in a new version

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

The product will not use AI systems as they should not be needed.

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

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

The aim is that society should benefit by reducing electrical waste and pollution as well as becoming more technologically concious. It may see competitors introduce features that had previously been removed such as changeable batteries and SD expansion.

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.

No

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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 lifespan goal is 5/6 years which is a reasonable increase over the current average.

Cost should be inline with normal phones with the ability to upgrade parts with new components every 2-3 years.

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

Parts of the device aim to be made from recycled material eg recycled aluminium for the chassis. In addition to making it easier to recycle come the end of its life.

Do you think the lifespan of the technology is realistic?

It aims to decrease it but as mentioned it could negatively impact it.

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.

No

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Future

Did you consider future impact?

This category has not been filled yet.