Augmented Reality Cycling

I combine cycling and AR game elements to motivate people to cycle more

Technology Impact Cycle Tool
Augmented Reality Cycling

Impact on society
What impact is expected from your technology?

What is exactly the problem? Is it really a problem? Are you sure?
Some people sit a lot and do not do enough exercises. Students for example sit at school and during the lessons.

Are you sure that this technology is solving the RIGHT problem?
Young people like games, they sit inside and play. Combination of the game and sport can make them go outside

How is this technology going to solve the problem?
The AR elements used in the sport can make young people be more interested in the AR cycling. People liked Pokemon Go, so it should be interesting too.

What negative effects do you expect from this technology?
Safety on the cycle lines. If the elements are put on the busy road it can be dangerous. Some people do not pay attention on the road but only on the game elements.

In what way is this technology contributing to a world you want to live in?
People do sport more with the use of AR cycling.

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.
Put the gamification elements only on the cycle lines that are in the quiet areas and not on busy roads. Be careful when children use it.

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?
Cyclists can run faster in order to win the game and collect a lot of the game elements. If they run faster they might be more aggressive and push someone who is on their way.

Can fakers, thieves or scammers abuse the technology?
May be kids can be competitive with each other and bully others who are not so successful in the game

Can the technology be used against certain (ethnic) groups or (social) classes?
no

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.
Not all mobile applications support good quality AR. So only latest mobile phones can be used for AR Cycling. In this way only people who have above middle income and mobiles that support that game can play that game.

How could bad actors use this technology to subvert or attack the truth?
no

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.

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?

visited places, email, it collects how fast can people cycle, it might take hidden photos while people cycle

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

the app can know the peoples' route they often cycle.

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

I am not sure. I need to study more about the law

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

I don't need all the personal data.

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

It should have short-term consequences with no impact on future opportunities

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

I need to think better which data is really needed.

Human values

How does the technology affect your human values?

This category has not been filled yet.

Stakeholders

Have you considered all stakeholders?

This category has not been filled yet.

Data

Is data in your technology properly used?

This category has not been filled yet.

Inclusivity
Is your technology fair for everyone?

This category has not been filled yet.

Transparency
Are you transparent about how your technology works?

This category has not been filled yet.

Sustainability

Is your technology environmentally sustainable?

This category has not been filled yet.

Future
Did you consider future impact?

This category has not been filled yet.