


NAME: Improving Indoor Air Quality
DATE: June 10, 2021 11:54 AM
DESCRIPTION OF TECHNOLOGY
Door machine learning toe te passen willen we de Twindle applicatie uitbreiden met voorspellende waarden voor, onder andere, het CO2 gehalte. Met als doel de luchtkwaliteit in ruimten te verbeteren.



HUMAN VALUES



TRANSPARENCY




IMPACT ON SOCIETY




Moementeel wordt alleen de huidige situatie van, bijvoorbeeld, de CO2 waarden weergegeven. Om personen aan te sporen om tijdig in te grijpen wanneer de situatie verslechtert zullen ook de toekomstige waarden inzichtbaar gemaakt moeten worden.

STAKEHOLDERS




- Handpicked Agencies
- Tectenna
- Gemeente Breda
- Gebouwbeheerders
- Gebouwgebruikers

SUSTAINABILITY




Het plan is om in de toekomst de applicatie uit te breiden om energieverbruik te verminderen. Waarschijnlijk zal dit betekenen dat er een positieve impact zal zijn.

HATEFUL AND CRIMINAL ACTORS



DATA



FUTURE




Er zijn drie service lagen waar de applicatie op wordt toegepast, luchtkwaliteit, energieverbruik en brandveiligheid. Het is belangrijk dat bij de uitbreiding van de applicatie aan dezelfde ethiek standaard wordt voldaan.

PRIVACY



Tijdens het ontwikkelen van de applicatie is extra aandacht besteed aan alleen de data verzamelen die niet persoonlijk is.

INCLUSIVITY



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HUMAN VALUES
How does your technology affect the identity of users?




To answer this question think about sub questions like: Can the technology be perceived as stigmatising? Does the technology imply or impose a certain belief or world view? Does the technology affects users' dignity? Is the technology in line with the person the user wants to be perceived as?

TRANSPARENCY
How is it explained to the users about how a technology works and how the business model works?



Is it easy for users to find out how your technology works? Can a user understand or find out why your technology behaves in a certain way? Are the goals explained? Is the idea of the technology explained? Is the technology company transparent about the way their business model works?

IMPACT ON SOCIETY
What is the challenge at hand? What problem (what 'pain') does this technology want to solve?




This technology is designed to solve a problem. That is why it is important to exactly define which problem this technology is going to solve. Can you make a clear definition of the problem? What 'pain' does this technology want to ease? Whose pain? The problem definition will help you to determine and discuss if you are solving the right problem.

STAKEHOLDERS
Who are the main users/targetgroups/stakeholders for this technology?



For the Quick Scan, you only have to list the stakeholders. Can you think of the people that are directly or indirectly affected by this technology? There are a lot of stakeholders that are obvious (like users) but we invite you also to think about the less obvious ones. Missing a stakeholder can have great consequences....

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




One of the most prominent impacts on sustainability is energy efficiency. Consider what service you want this technology to provide and how this could be achieved with a minimal use of energy.

HATEFUL AND CRIMINAL ACTORS
In which way can this technology be used to break the law or avoid the consequences of breaking the law?




Can you imagine ways that this technology can or will be used to break the law? Think about invading someone's privacy. Spying. Hurting people. Harassment. Fraud/identity theft and so on. Or will people use this technology to avoid facing the consequences of breaking the law (using trackers to evade speed radars or using bitcoins to launder money, fo...

DATA
Are you familiar with the fundamental shortcomings and pitfalls of data and do you take this sufficiently into...




There are fundamental issues with data. Data is always subjective. Data collections are never complete. Correlation and causation are tricky concepts. Data collections are often biased. Reality is way more complex than a million datapoints. Are you aware of these issues? How does this technology take these issues into account?...

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




Discuss this quickly and note your first thoughts here.

PRIVACY
Does this technology register personal data? If yes, what personal data?



If this technology registers personal data you have to be aware of privacy legislation and the concept of privacy. Personal data can be interpreted in a broad way. Maybe this technology does not collect personal data, but can be used to assemble personal data. If this technology collects special personal data (like health or ethnicity) you should be extra...

INCLUSIVITY
Does this technology have a built-in bias?



Do a brainstorm. Can you find a built-in bias in this technology? Maybe because of the way the data wascollected, either by personal bias, historical bias, political bias or a lack of diversity in the people responsible for the design of the technology? How do youknow this is not the case? Be critical. Be aware of your own biases.

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