QUICKSCAN - CANV **RS**S2, Turtlebot robot, Behavior trees, C++, Python.

NAME: ROS2, Turtlebot robot, Behavior trees, C DATE: September 8, 2024 2:40 PM DESCRIPTION OF TECHNOLOGY The use of robots as in the agricultural sector is increasingly becoming a necessity. Partly this because of a lack of manpower in this sector where robots can take over task. There is also a driver for robots from a sustainability perspective. Multiple compact robots might take over the tasks of one large machine, which saves soil compaction. Robots driving might also enable electrical driven vehicles	HUMAN VALUES	TRANSPARENCY
IMPACT ON SOCIETY	STAKEHOLDERS	SUSTAINABILITY
HATEFUL AND CRIMINAL ACTORS	DATA	FUTURE
PRIVACY	INCLUSIVITY	FIND US ON WWW.TICT.IO THIS CANVAS IS PART OF THE TECHNOLOGY IMPACT CYCLE TOOL. THIS CANVAS IS THE RESULT OF A QUICKSCAN. YOU CAN FILL OUT THE FULL TICT ON WWW.TICT.IO WWW.TICT.IO WIND CONTINUES OF CONTINUES

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IMPACT ON SOCIETY	STAKEHOLDERS	SUSTAINABILITY
What is exactly the problem? Is it really a problem? Are you sure?	Who are the main users/targetgroups/stakeholders for this technology? Think about the intended context by	In what way is the direct and indirect energy use of this technology taken into account?
Can you exactly define what the challenge is? What problem (what 'pain') does this technology want to solve? Can you make a clear definition of the problem? What 'pain' does this technology want to ease? Whose pain? Is it really a problem? For who? Will solving the problem make the world better? Are you sure? The problem definition will help you to determine	When thinking about the stakeholders, the most obvious one are of course the intended users, so start there. Next, list the stakeholders that are directly affected. Listing the users and directly affected stakeholders also gives an impression of the intended context of the technology.	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. Are improvements possible?
HATEFUL AND CRIMINAL ACTORS	DATA	FUTURE
In which way can the technology be used to break the law or avoid the consequences of breaking the law?	Are you familiar with the fundamental shortcomings and pitfalls of data and do you take this sufficiently into	What could possibly happen with this technology in the future?
Can you imagine ways that the technology can or will be used to break the law? Think about invading someone's privacy. Spying. Hurting people. Harassment. Steal things. Fraud/ identity theft and so on. Or will people use the technology to avoid facing the consequences of breaking the law (using trackers to evade speed radars or using bitcoins to launder	 There are fundamental issues with data. For example: Data is always subjective; Data collections are never complete; Correlation and causation are tricky concepts; Data collections are often biased; 	Discuss this quickly and note your first thoughts here. Think about what happens when 100 million people use your product. How could communities, habits and norms change?
PRIVACY		FIND US ON WWW.TICT.IO
Does the technology register personal data? If yes, what personal data?	Does this technology have a built-in bias?	THIS CANVAS IS PART OF THE TECHNOLOGY IMPACT CYCLE TOOL. THIS CANVAS IS THE RESULT OF A
If this technology registers personal data you have to be aware of privacy legislation and the concept of privacy. Think hard about this question. Remember: personal data can be interpreted in a broad way. Maybe this technology does not	Do a brainstorm. Can you find a built-in bias in this technology? Maybe because of the way the data was collected, either by personal bias, historical bias, political bias or a lack of diversity in the people responsible for the	QUICKSCAN. YOU CAN FILL OUT THE FULL TICT ON WWW.TICT.IO

collect personal data, but can be used to assemble personal data. If the technology collects special personal data (like... bias or a lack of diversity in the people responsible for the design of the technology? How do you know this is not the case? Be critical. Be aware of your own biases....

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