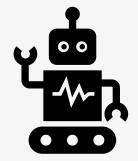
# Introducing a trauma informed assessment tool for evaluators of AI (artificial intelligence) assisted programs and services.

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- Al and other forms of digital technologies are being increasingly used in programs and services delivery.
- They promise increased efficiency, accuracy and objectivity, however these technologies can also cause significant harm and trauma, as seen in Robodebt.
- It is vital for evaluators to be aware of key questions to ask to prevent AI having unintended impact on program processes, outputs and outcomes, or cause harm to service users.

## **Core argument**



(1) All is increasingly being used in programs and services, and understanding the resulting risks is essential for evaluators to assess whether services are meeting intended outcomes.



(2) many evaluators are unaware of what types of risks to look for when assessing AI assisted services, or what questions to ask – especially when conducting trauma informed evaluations.



(3) To address this need, researchers from the University of Queensland and Central Queensland University have developed a practical trauma-informed assessment tool for Alassisted services, which will be briefly introduced. The tool was funded by Notre Dame University IBM Ethics Lab.

#### **Outline**



Highlight the **problem** that AI is increasingly being used to assist program and services delivery, but many evaluators are unaware of the main risks to consider when evaluating these services.



Suggest the **solution** of a practical tool which considers these risks, with technological knowledge and within a trauma informed framework, that can be employed by evaluators.



Introduce a **trauma informed AI assessment tool**, the method used to develop it, as well as its intended practical use by evaluators (both internal and external to organisations).

Al is increasingly being used to assist program and service delivery, but evaluators may be unaware of the main risks to consider when evaluating these services.

Examples of **problems** and harms ....

- Robodebt
- Aleghany County
- Tessa (will come back to this example later)

Bias

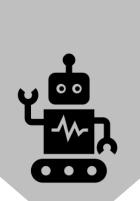
Fairness

Explainability

Trustworthiness

Accuracy

(deficit based)



**Empowerment and Choice** 

Collaboration

Trust and transparency

Safety

Intersectionality

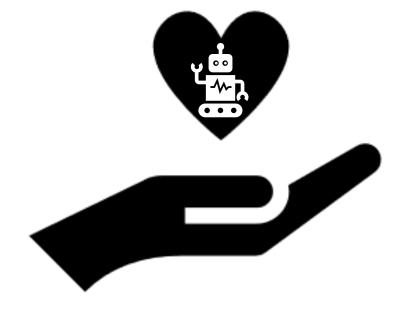
(needs and strengths based)



Suggest the **solution** of a practical tool which considers these risks, with technological knowledge and within a trauma informed framework, that can be employed by evaluators.

#### The tool aims to:

- Inform
- Instigate knowledgeable reflection
- Provide guidance





### Introduce a trauma informed Al assessment tool



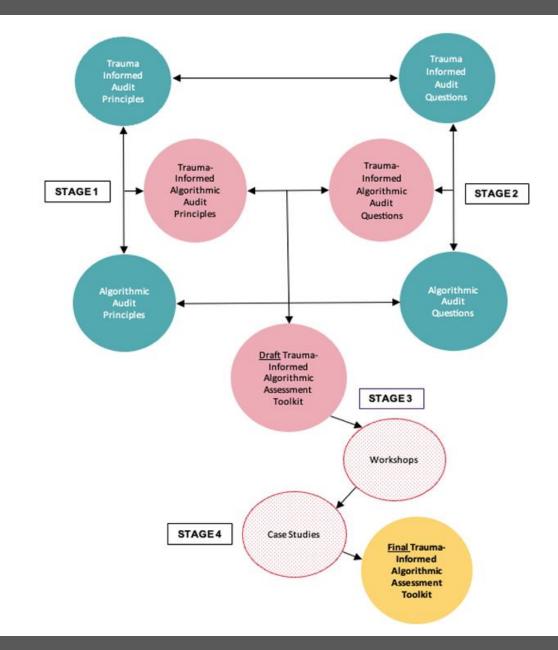


The tool was developed at the University of Queensland by Professor Paul Henman, Associate Professor Suzanna Fay, Dr Lyndal Sleep and Suvradip Maitre with funding from the IBM Data Ethics Lab in the University of Notre Dame, United States.

A report explaining the development of the tool, as well as a first version of the tool is available at https://www.admscentre.org.au/trauma-informed-ai/



Research
Design
stages for
developing
the tool



### The tool

The tool is structured into 3 main sections, allowing multiple ways to apply the tool.

- (1) a short assessment of 10 pertinent questions is provided,
- (2) a domain-focused assessment, and
- (3) a technology-focused assessment.

#### 1. CRITICAL CONSIDERATIONS

The following section prompts you to reflect on critical considerations that are applicable to all algorithm supported services. You should ensure that you have thoroughly reflected and engaged with the below considerations. The questions in this section represent the absolute minimum when you are implementing a trauma informed approach within your algorithm supported service.

#	For the algorithm supported service, to what extent	Not at all	To some extent	To a great extent	Evidence	e		Action/Pla	an	Priority	Principle			
1.	are service users aware that an algorithmic system is being used?										Trust and Transparency			
2.	have designers considered if it could cause or trigger trauma?										Safety			
3.	has the psychological, emotion and cultural safety of service users been considered?					6.	can service user regularly provide feedback?	e						Collaboration Choice
4.	does the service user have an informed choice about when their personal information is accessed or shared?					7.	can service user to make a comp appeal or review to a human?	laint, v directly						Trust and Transparency Empowerment and Choice
5.	can the service user choose to interact with a human?					8.	could it unfairly disadvantage dif service user gro	fferent						Intersectionality Safety
	numum.					9.	could the algorit system harmfull discriminate aga service user?	у						Intersectionality Safety
						10.	are there suppo processes for re to harm or distri caused by the al system?	sponding ess						Safety Trust and Transparency

# Intended use by evaluators

- To assist evaluation of AI-supported services in general
- To assist with trauma informed assessment of AI supported services
- Tool will be freely available for no cost

## Next steps

- Currently undertaking a follow on project with Australian Research Council Automated Decision Making and Society Centre of Excellence researchers, developing an online interactive version of the tool and evaluating it in situ.
- Please contact researchers if you would like more information on the tool, or to use it in your evaluation.
- We are interested in hearing from you if you would like to take part in an in-situ evaluation.

#### Thank you!

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Access the first generation version of the tool at: https://www.admscentre.org.au/trauma-informed-ai/



