

# TOWARDS TRANSPARENT AND ACCOUNTABLE AI IN PUBLIC SERVICE

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Shaping a more livable world.



# ARTIFICIAL INTELLIGENCE

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*AI impacts everyone, performing complex, risky, or monotonous tasks, aiding doctors and lawyers, and automating public services. However, algorithmic systems may violate human rights, lack transparency, and reinforce discrimination due to biases in data and programming, leading to errors in novel situations.*



Governments worldwide are using AI algorithms to automate or support decision-making in public services.

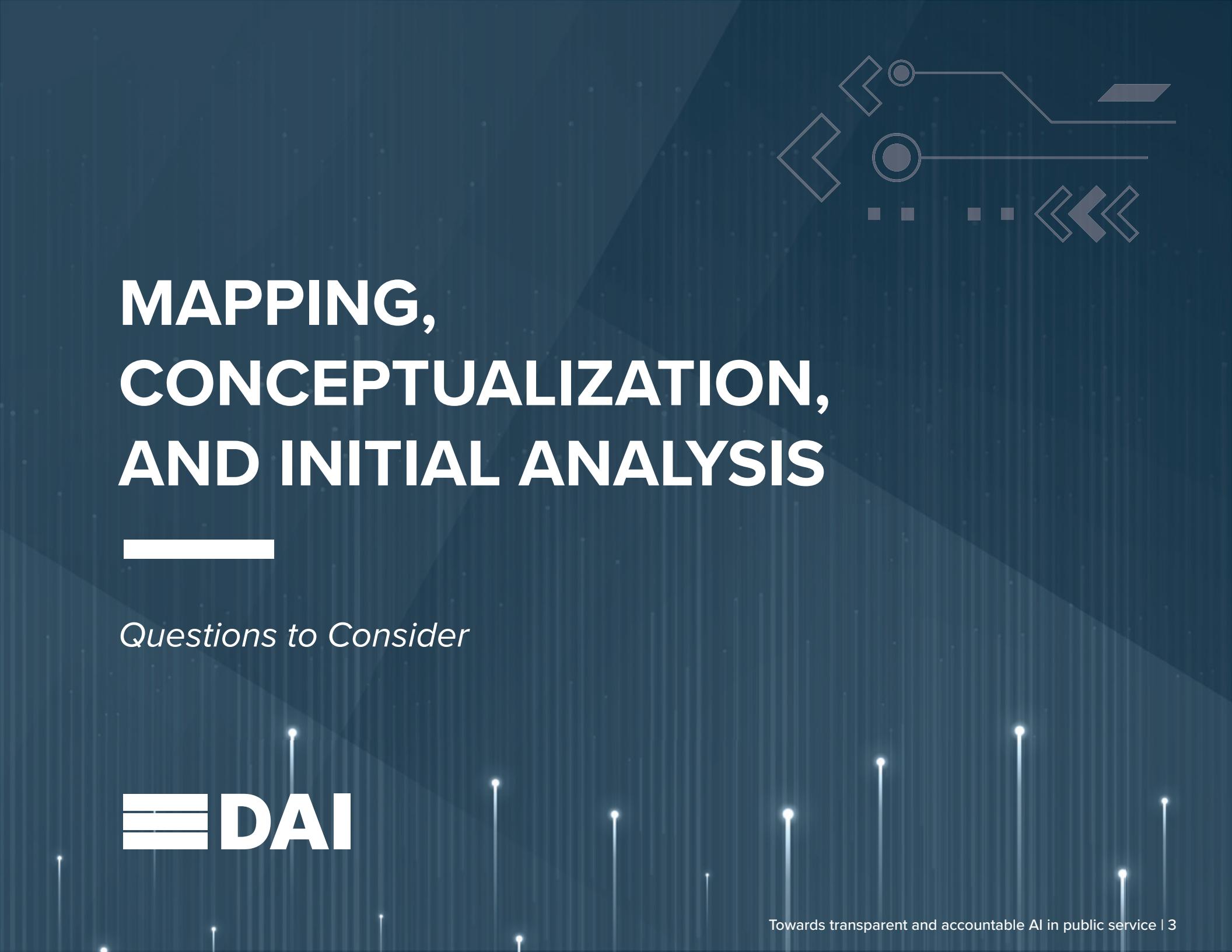


Algorithms are used in urban planning, social care, welfare, unemployment fraud detection, and criminal justice.



The use of AI algorithms is often seen as a way to improve efficiency and reduce costs of public services.





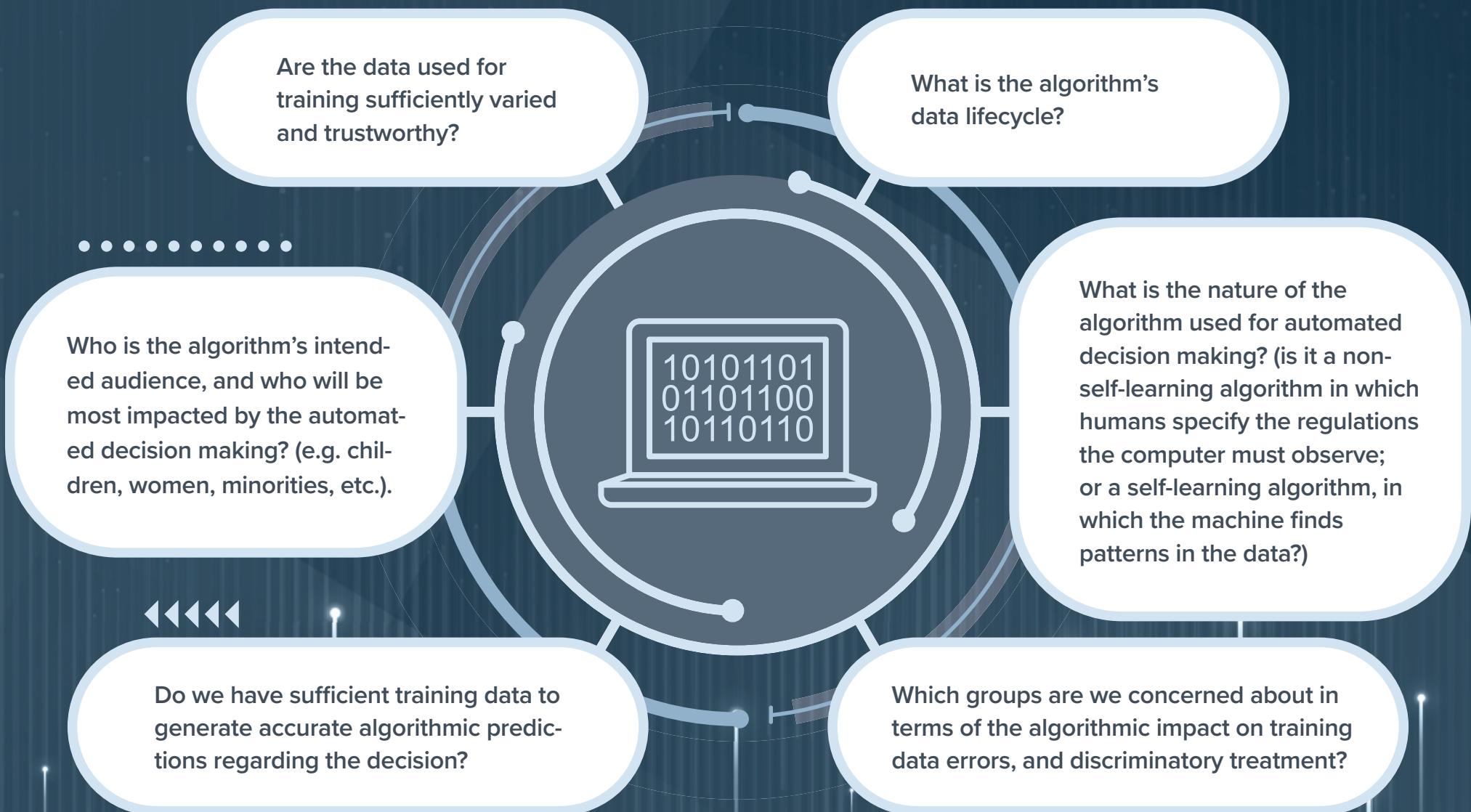
# MAPPING, CONCEPTUALIZATION, AND INITIAL ANALYSIS

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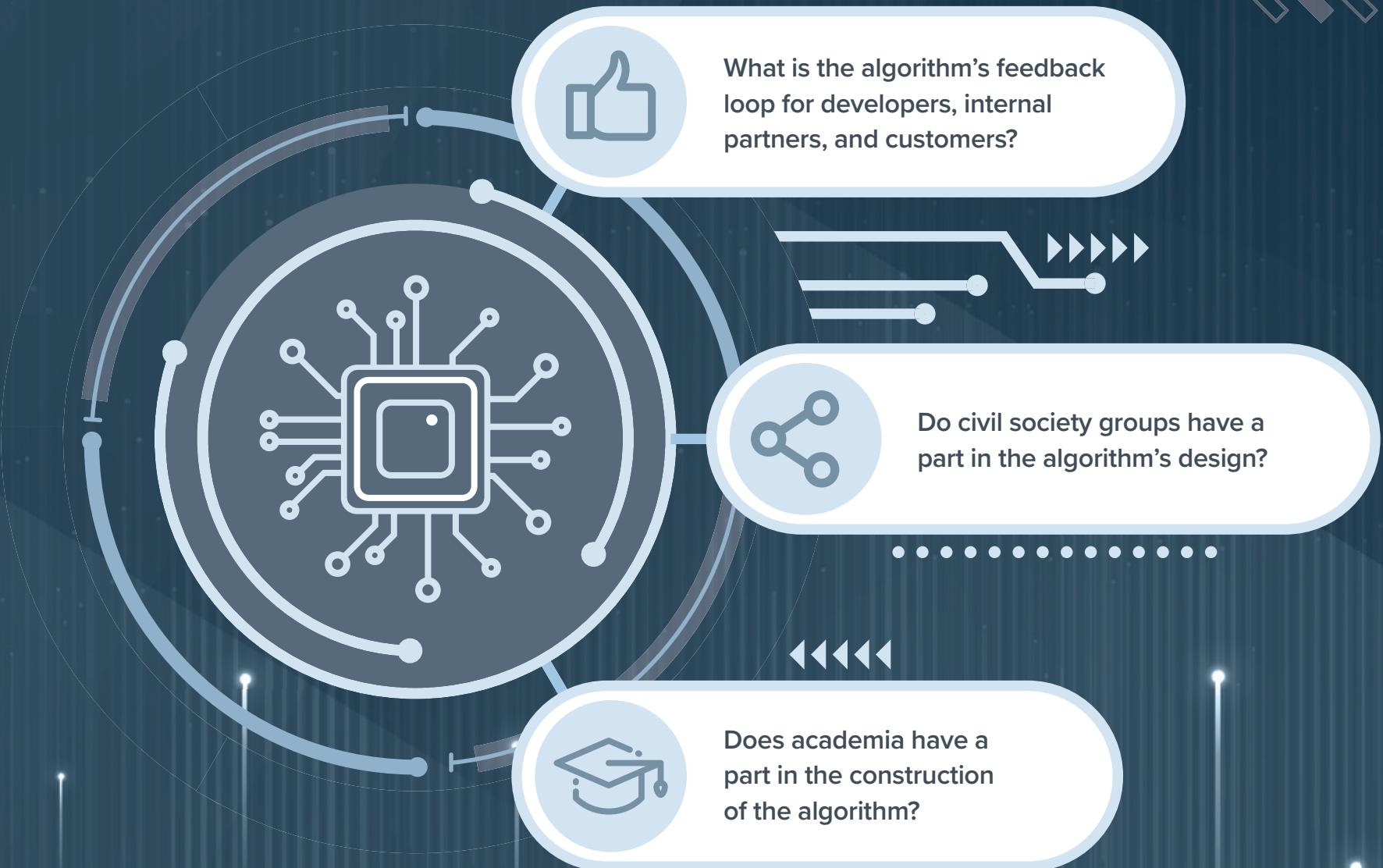
*Questions to Consider*



# WHAT WILL THE AUTOMATED DECISION DO?



# HOW ARE ADDITIONAL STAKEHOLDERS ENGAGED?



# HAS DIVERSITY BEEN TAKEN INTO ACCOUNT IN THE DESIGN AND IMPLEMENTATION?

Will the algorithm affect particular cultural groups and behave differently in cultural contexts?

Is the design team sufficiently diverse to capture cultural subtleties and foresee the algorithm's applicability in various cultural contexts?

If not, what measures do we have in place to make these scenarios more prominent and comprehensible to designers?

Considering the objective of the algorithm, are the training data sufficiently diverse?

Are there statutory guidelines that public sector organizations should check to ensure that the application of the algorithm is legal and ethical?





## WHAT ARE THE OBJECTIVES OF THE AUTOMATED DECISION MAKING PROCESS?

Why is the algorithm needed and what outcomes is it intended to enable?

## WHAT IS THE LEGAL BASIS FOR AUTOMATED DECISION MAKING?



If an algorithm is expected to affect human rights, there must be a legal basis for its use.

# WHAT ARE THE INCENTIVES FOR AUTOMATED DECISION MAKING?



## BENEFITS

What will be our main benefits get from the algorithm's development?



## TRANSPARENCY

How transparent will we make the algorithm's design process to internal partners and external clients?



## IDENTIFICATION

What are the possible adverse outcomes, and how will we identify them?

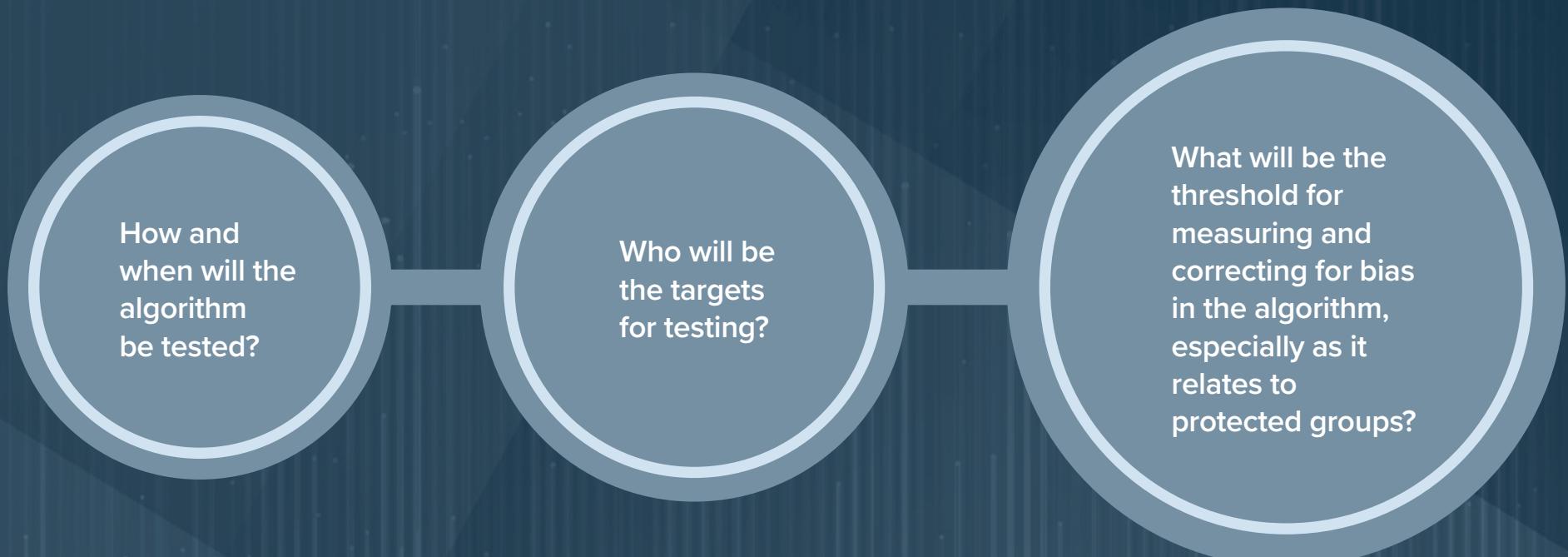


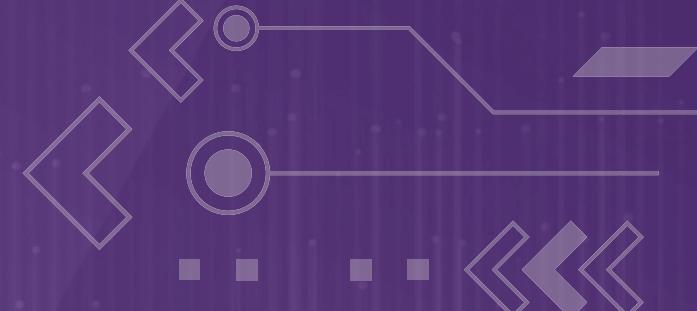
## ACTION

What action will be done if it is predicted that the development or deployment of the algorithm may result in undesirable outcomes?

# HOW WILL POTENTIAL BIAS BE DETECTED?

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# DESIGN, TESTING, AND IMPLEMENTATION

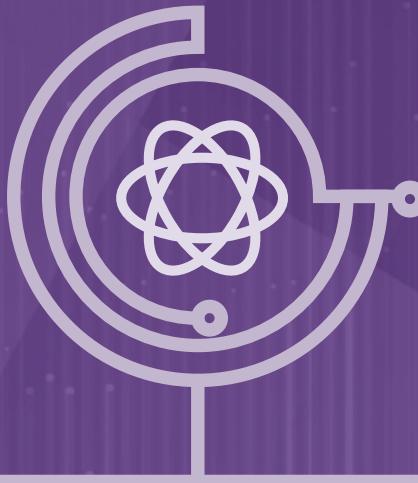
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*Questions to Consider*



# INFRINGED FUNDAMENTAL RIGHTS

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Are the design testing and implementation going to impact fundamental rights such as, for example, privacy and data protection, freedom of expression, effective remedy and due process, rights to protection against

discrimination, the right to explanation, access to information, freedom of religion, freedom of association, and other fundamental rights as defined by the International Bill of Rights and national human rights law?

# SPECIFIC LEGISLATION

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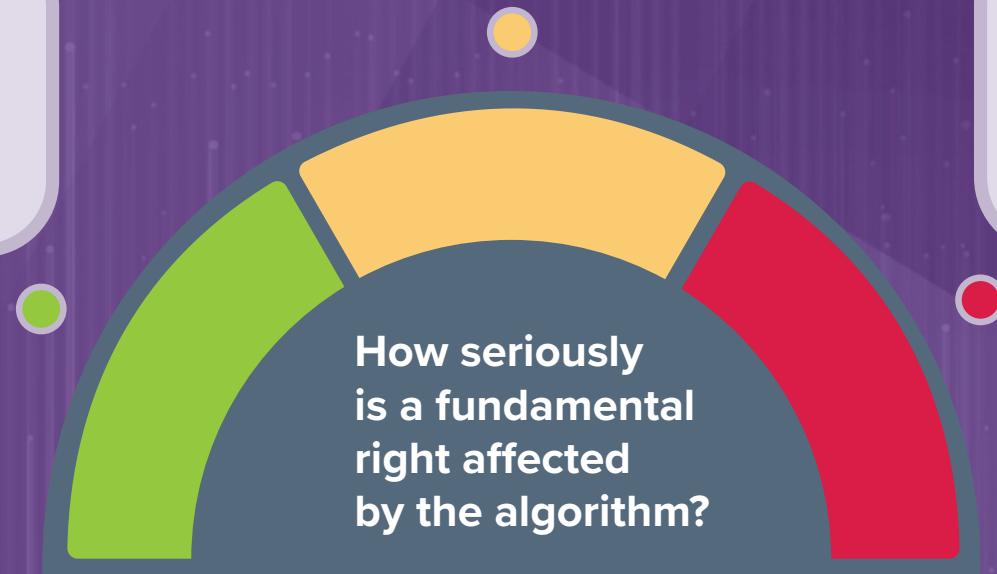


# SERIOUSNESS OF INTERFERENCE

Less serious interference, thus no special due diligence required.

Medium-serious interference, thus due diligence required.

Serious interference, thus compelling reasons required as justification.



A useful risk based assessment framework is provided by the EU AI Act.



<https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=celex-%3A52021PC0206>



# MONITORING AND EVALUATION

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*Questions to Consider*



# LEVEL OF HUMAN INVOLVEMENT

Human in the loop versus  
human out of the loop

**What role do  
humans play in  
decision making  
based on the  
algorithmic  
output?**

How is staff  
empowered to  
make decisions  
responsibly based  
on the algorithmic  
output?

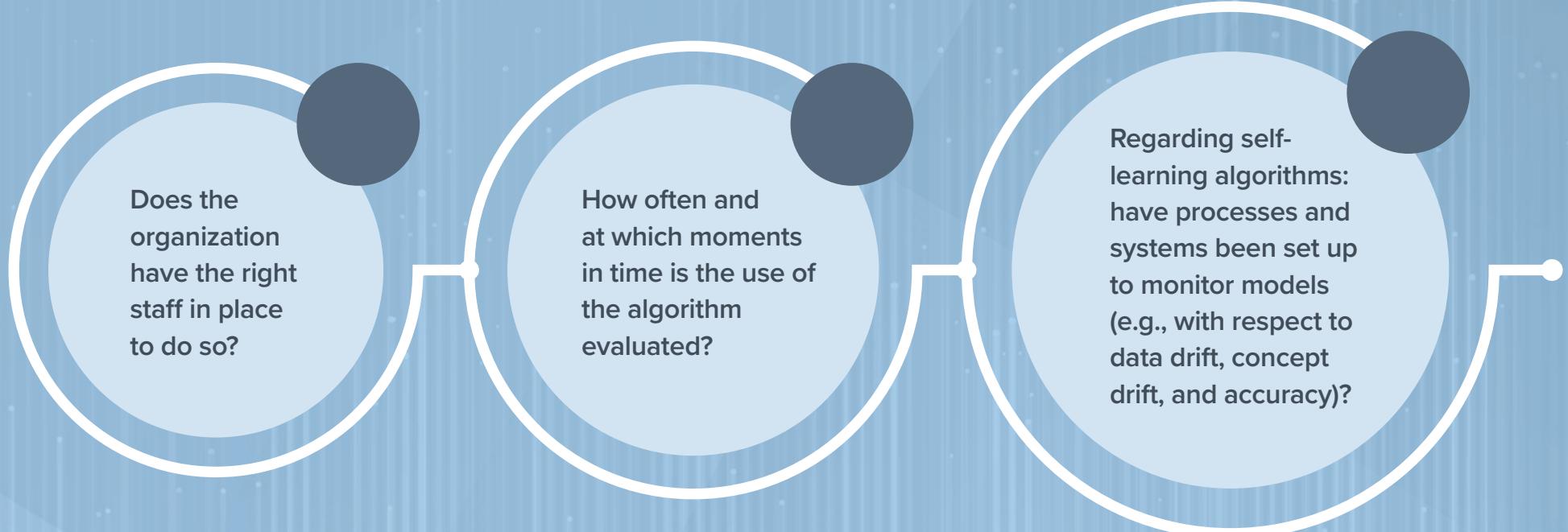
Does the AI model  
provide enough  
information for the  
human to make an  
informed decision  
(e.g., factors that are  
used in the decision,  
their value and  
weighting, correlations)

Is there sufficient  
qualified staff in  
place to manage,  
review, and adjust  
the algorithm, if  
needed, and will  
there be in future?

Is there an active and involved  
human oversight, with the human  
retaining full control and the AI  
only providing recommendations  
or input? For example, a judge  
may use AI to evaluate certain  
aspects of a case. However, the  
judge will make the final decision.  
In the case of human out of the loop,  
a criminal recidivism solution may  
automatically rank individuals based  
on pre-determined demographic  
and behavioral profiles.

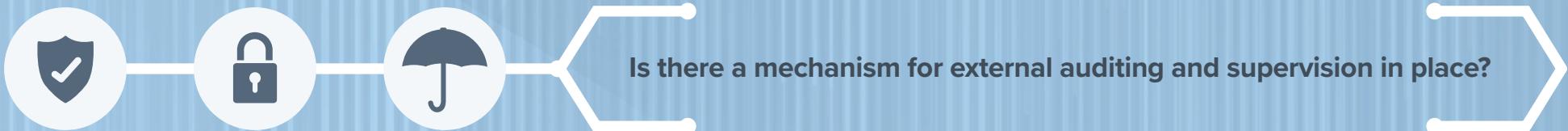
# INTERNAL PROCESS SAFEGUARDS

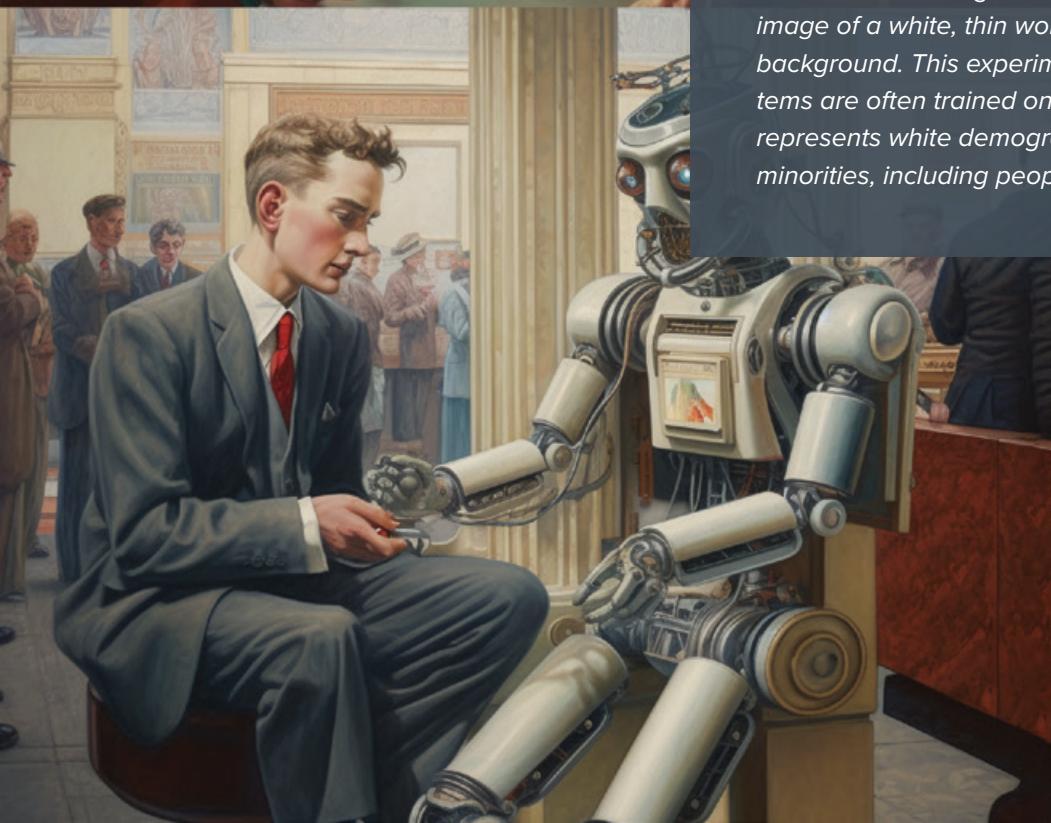
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# EXTERNAL PROCESS SAFEGUARDS

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*Our Creative Team conducted an experiment using Midjourney to test for bias. We selected "AI" and "public servant" as prompts. However, we were disappointed to find that the system's output only included three images of white, slim men and one image of a white, thin woman with robots in the background. This experiment highlights that AI systems are often trained on data that predominantly represents white demographics, which excludes minorities, including people of color.*