

# WH- Blueprint for an Artificial Intelligence (AI) Bill of Rights

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Overview of the Blueprint for an AI Bill of Rights

Expectations about automated systems

Annex



## General overview of the Blueprint for an AI Bill of Rights

The Blueprint for an Al Bill of Rights is a set of five principles and associated practices (expectations about automated systems) to help guide the design, use, and deployment of automated systems to protect the rights of the American public in the age of Al

### Context

The White House Office of Science and Technology Policy published the Blueprint for an AI Bill of Rights in October 2022 which is an exercise in envisioning a future where the American public is protected from the potential harms, and can fully enjoy the benefits, of automated systems. It describes principles that can help ensure these protections. Some of these protections are already required by the US Constitution or implemented under existing US laws.

Principles	1	Safe and effective systems			Automated systems should be developed with <b>consultation</b> from <b>diverse communities</b> , <b>stakeholders</b> , and <b>domain experts</b> to identify concerns, risks, and potential impacts of the system.
	2	Algorithmic discrimination protections	<b>F</b>		Designers, developers, and deployers of automated systems should take <b>proactive and</b> continuous measures to protect individuals and communities from algorithmic discrimination and to use and design systems in an equitable way.
	3	Data privacy		( [ r	Designers, developers, and deployers of automated systems should seek for permission and <b>respect people's decisions regarding</b> collection, use, access, transfer, and deletion of <b>their data</b> in appropriate ways.
	4	Notice and explanation			Designers, developers, and deployers should provide a clear description of: i) the overall system functioning and the role automation plays; ii) notice that such systems are in use; iii) the individual or organization responsible for the system.
	5	Human alternatives, consideration and fallback			Opting for automated systems in favor of a human alternative, <b>where appropriate</b> . Appropriateness should be determined based on reasonable expectations in a <b>given context</b> and with a focus on ensuring <b>broad accessibility</b> and protecting the public from especially harmful mpacts.
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\*For further information regarding real life examples of these principles see Annex 1 and Annex 2

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Document

# 2 Expectations about automated systems Safe and effective systems

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Automated systems should be developed with consultation from diverse communities, stakeholders, and domain experts to identify concerns, risks, and potential impacts of the system

Consultation		Public should be consulted in the <b>design</b> , <b>implementation</b> , <b>deployment</b> , acquisition, and maintenance phases of <b>automated system</b> development.
Testing		Undergo extensive testing before deployment. This testing should follow domain-specific best practices.
Rik identification and mitigation		Before deployment, and in a proactive and ongoing manner, potential risks should be identified and mitigated.
Ongoing monitoring		Ongoing monitoring procedures to ensure that performance does not fall below an acceptable level over time, based on changing real-world conditions or deployment contexts, post-deployment modification, or unexpected conditions.
Clear organizational oversight		Include <b>clearly-stated governance procedures</b> before deploying the system, as well as <b>responsibility</b> of specific individuals or entities to oversee ongoing assessment and mitigation.
Avoid	d inappi	ropriate, low-quality, or irrelevant data use and the compound harm of its reuse
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# 2 Expectations about automated systems Algorithmic discrimination protections

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### Algorithms should not be discriminatory, and systems should be used and designed in an equitable way

1	Protect t	he public from algorithmic discrimination in a proactive and ongoing manner
Proactive assessment of equity in design		<b>Review potential input data</b> , associated historical context, accessibility for people with disabilities, and societal goals to identify potential discrimination and effects on equity resulting from the introduction of the technology.
Representative and robust data		Any data used should be <b>representative of local communities</b> , reviewed for bias based on the historical and societal context of the data, and sufficiently robust to identify and help to mitigate biases and potential harms.
Guarding against proxies		Identify proxies by testing for correlation between demographic information and attributes in any data used.
Ensuring accessibility during design, development & deployment		Consideration of a <b>variety of disabilities</b> , adherence to relevant accessibility standards, and user experience research to identify and address any accessibility barriers to the use or effectiveness of the automated system.
Disparity assessment		Test systems by using <b>demographic performance measures</b> , overall and subgroup parity assessment, and calibration measures to assess whether the system components produce disparities.
Disparity mitigation		Evaluate multiple models and select the one that has the <b>least adverse impact</b> , modify data input choices, or identify a system with fewer disparities. If this is not possible, then the use of the automated system should be reconsidered.
Ongoing monitoring and mitigation		<b>Regularly monitor automated systems</b> to assess algorithmic discrimination that might arise from unforeseen interactions of the system with inequities not accounted.
2	De	emonstrate that the system protects against algorithmic discrimination
Independent evaluation		Allow independent evaluation of potential algorithmic discrimination caused by automated systems they use or oversee.
Reporting		Provide reporting of an appropriately designed algorithmic impact assessment, with clear <b>specification</b> of who performs the assessment, who evaluates the system, and how <b>corrective actions</b> are taken in response to the assessment.
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### Users should be protected from abusive data practices via built-in protections and have agency over how data about the user is used

1		Protect the privacy by design and by default
Privacy by design and by default		Automated systems should be <b>designed</b> and built with privacy protected by default.
Data collection and use-case scope limits		Data collection should be limited in scope, with specific, narrow identified goals.
Risk identification and mitigation.		Attempt to proactively identify harms and seek to manage them when collecting, using or storing sensitive data.
Privacy-preserving security		Entities creating, using, or governing automated systems should <b>follow privacy</b> and security best practices designed to ensure data and metadata do not leak beyond the specific consented use case.
2		Protect the public from unchecked surveillance
Heightened oversight of surveillance		Surveillance or monitoring systems should be subject to <b>heightened oversight</b> that includes at a minimum assessment of potential harms during design.
Limited and proportionate surveillance		Surveillance should be avoided unless it's necessary to achieve a legitimate purpose and it's proportionated to the need.
Scope limits on surveillance to protect rights and democratic values		Civil liberties and civil rights must not be limited by the threat of surveillance or harassment facilitated or aided by an automated system.







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# 2 Expectations about automated systems Notice and explanation



### Users should be notices of the use and understand how and why the automated system contributes to outcomes that impact them



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# 2 Expectations about automated systems Human alternatives, consideration and fallback (1/2)

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### Users should be able to opt out, where appropriate, and have access to a person who can quickly consider and remedy problems they encounter



# 2 Expectations about automated systems Human alternatives, consideration and fallback (2/2)



### Users should be able to opt out, where appropriate, and have access to a person who can quickly consider and remedy problems they encounter







1

#### Safe and effective systems

Executive Order 13960 on Promoting the Use of Trustworthy Artificial Intelligence in the Federal Government requires that certain federal agencies adhere to nine principles when designing, developing, acquiring, or using AI for purposes other than national security or defense.

The law and policy landscape for motor vehicles shows that strong safety regulations—and measures to address harms when they occur—can enhance innovation in the context of complex technologies.

From large companies to start-ups, industry is providing innovative solutions that allow organizations to mitigate risks to the safety and efficacy of AI systems, both before deployment and through monitoring over time.

The Office of Management and Budget (OMB) has called for an expansion of opportunities for meaningful stakeholder engagement in the design of programs and services.

The National Institute of Standards and Technology (NIST) is developing a risk management framework to better manage risks posed to individuals, organizations, and society by AI.

Some U.S government agencies have developed specific frameworks for ethical use of AI systems.

The National Science Foundation (NSF) funds extensive research to help foster the development of automated systems that adhere to and advance their safety, security and effectiveness.

Some state legislatures have placed strong transparency and validity requirements on the use of pretrial risk assessments

#### Algorithmic discrimination protections

The federal government is working to combat discrimination in mortgage lending

2

The Equal Employment Opportunity Commission and the Department of Justice have clearly laid out how employers' use of AI and other automated systems can result in discrimination against job applicants and employees with disabilities

Disparity assessments identified harms to Black patients' healthcare access

Large employers have developed best practices to scrutinize the data and models used for hiring

Standards organizations have developed guidelines to incorporate accessibility criteria into technology design processes

NIST has released Special Publication 1270, Towards a Standard for Identifying and Managing Bias in Artificial Intelligence





3

#### **Data privacy**

The Privacy Act of 1974 requires privacy protections for personal information in federal records systems, including limits on data retention, and also provides individuals a general right to access and correct their data

NIST's Privacy Framework provides a comprehensive, detailed and actionable approach for organizations to manage privacy risks

A school board's attempt to surveil public school students—undertaken without adequate community input—sparked a statewide biometrics moratorium

Federal law requires employers, and any consultants they may retain, to report the costs of surveilling employees in the context of a labor dispute, providing a transparency mechanism to help protect worker organizing

Privacy choices on smartphones show that when technologies are well designed, privacy and data agency can be meaningful and not overwhelming

#### Notice and explanation

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People in Illinois are given written notice by the private sector if their biometric information is used

Major technology companies are piloting new ways to communicate with the public about their automated technologies

Lenders are required by federal law to notify consumers about certain decisions made about them

A California law requires that warehouse employees are provided with notice and explanation about quotas, potentially facilitated by automated systems, that apply to them

Across the federal government, agencies are conducting and supporting research on explainable AI systems

#### 5 Human alternatives, consideration and fallback

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