

No. 132. An act relating to the use and oversight of artificial intelligence in State government.

(H.410)

It is hereby enacted by the General Assembly of the State of Vermont:

Sec. 1. FINDINGS; INTENT

(a) The General Assembly finds that:

(1) The Vermont Artificial Intelligence Task Force (Task Force), established by 2018 Acts and Resolves No. 137, Sec. 1, as amended by 2019 Acts and Resolves No. 61, Sec. 20, met from September 2018 through January 2020 to investigate the field of artificial intelligence (AI) and make recommendations for State action and policies with respect to this new technology.

(2) The Task Force found that this technology presents tremendous opportunities for economic growth and improved quality of life but also presents substantial risks of loss of some jobs and invasions of privacy and other impacts to civil liberties.

(3) Large-scale technological change makes states rivals for the economic rewards, where inaction leaves states behind. States can become leaders in crafting appropriate responses to technological change that eventually produces policy and action around the country.

(4) The Task Force determined that there are steps that the State can take to maximize the opportunities and reduce the risk, but action must be

taken now. The Task Force concluded that there is a role for local and State action, especially where national and international action is not occurring.

(5) The final report of the Task Force presents a series of recommendations for policies and actions consistent with the limited role of Vermont to direct the path of AI development and use in the State. The final report also concludes that Vermont can make a difference, maximize the benefits of AI, and minimize, or adapt to, the adverse consequences.

(b) It is the intent of the General Assembly to carry out the work of the Task Force by creating the Division of Artificial Intelligence within the Agency of Digital Services to implement some of the specific recommendations of the Task Force and require the Agency of Digital Services to conduct an inventory of all automated decision systems that are being developed, used, or procured by the State.

Sec. 2. 3 V.S.A. § 3303 is amended to read:

§ 3303. REPORTING, RECORDS, AND REVIEW REQUIREMENTS

(a) Annual report and budget. The Secretary shall submit to the General Assembly, concurrent with the Governor's annual budget request required under 32 V.S.A. § 306, an annual report for information technology and cybersecurity. The report shall reflect the priorities of the Agency and shall include:

(1) performance metrics and trends, including baseline and annual measurements, for each division of the Agency;

(2) a financial report of revenues and expenditures to date for the current fiscal year;

(3) costs avoided or saved as a result of technology optimization for the previous fiscal year;

(4) an outline summary of information, including scope, schedule, budget, and status for information technology projects with total costs of \$500,000.00 or greater;

(5) an annual update to the strategic plan prepared pursuant to subsection (c) of this section;

(6) a summary of independent reviews as required by subsection (d) of this section; ~~and~~

(7) the Agency budget submission; and

(8) an annual update to the inventory required by section 3305 of this title.

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Sec. 3. 3 V.S.A. § 3305 is added to read:

§ 3305. AUTOMATED DECISION SYSTEM; STATE PROCUREMENT;

INVENTORY

(a) Definitions. As used in this section:

(1) “Algorithm” means a computerized procedure consisting of a set of steps used to accomplish a determined task. or quantitative

(2) “Automated decision system” means any algorithm, including one incorporating machine learning or other artificial intelligence techniques, that uses data-based analytics to make or support government decisions, judgments, or conclusions.

(3) “Automated final decision system” means an automated decision system that makes final decisions, judgments, or conclusions without human intervention.

(4) “Automated support decision system” means an automated decision system that provides information to inform the final decision, judgment, or conclusion of a human decision maker.

or recommend

(5) “State government” has the same meaning as in section 3301 of this chapter.

(b) Inventory. The Agency of Digital Services shall conduct a review and make an inventory of all automated decision systems that are being developed, employed, or procured by State government. The inventory shall include the following for each automated decision system:

(1) the automated decision system’s name and vendor;

(2) a description of the automated decision system’s general capabilities,

including:

(A) reasonably foreseeable capabilities outside the scope of the

agency’s proposed use; and

(B) whether the automated decision system is used or may be used for independent decision-making powers and the impact of those decisions on Vermont residents;

(3) the type or types of data inputs that the technology uses; how that data is generated, collected, and processed; and the type or types of data the automated decision system is reasonably likely to generate;

how it is weighted and combined

(4) whether the automated decision system has been tested for bias by an independent third party, has a known bias, or is untested for bias;

and accuracy (not just bias)

(5) a description of the purpose and proposed use of the automated decision system, including:

and whether these tests were carried out using local data and populations

(A) what decision or decisions it will be used to make or support;

(B) whether it is an automated final decision system or automated support decision system; and

(C) its intended benefits, including any data or research relevant to the outcome of those results;

(6) how automated decision system data is securely stored and processed and whether an agency intends to share access to the automated decision system or the data from that automated decision system with any other entity, which entity, and why; and

(7) a description of the IT fiscal impacts of the automated decision system, including:

(A) initial acquisition costs and ongoing operating costs, such as maintenance, licensing, personnel, legal compliance, use auditing, data retention, and security costs;

(B) any cost savings that would be achieved through the use of the technology; and

(C) any current or potential sources of funding, including any subsidies or free products being offered by vendors or governmental entities.

Sec. 4. AUTOMATED DECISION SYSTEM; STATE PROCUREMENT;
INVENTORY; REPORT

On or before December 1, 2022, the Agency of Digital Services shall submit to the House Committee on Energy and Technology and the Senate Committee on Finance a report on the inventory described in 3 V.S.A. § 3305. The report shall include recommendations for any changes to the inventory, including how it should be maintained, the frequency of updates, and remediation measures needed to address systems deemed problematic.

Sec. 5. 3 V.S.A. chapter 69 is added to read:

CHAPTER 69. DIVISION OF ARTIFICIAL INTELLIGENCE

§ 5011. DEFINITION

As used in this chapter, “artificial intelligence systems” means systems capable of perceiving an environment through data acquisition and then processing and interpreting the derived information to take an action or actions or to imitate intelligent behavior given a specific goal. An artificial

intelligence system can also learn and adapt its behavior by analyzing how the environment is affected by prior actions.

§ 5012. DIVISION OF ARTIFICIAL INTELLIGENCE

(a) Creation. There is established the Division of Artificial Intelligence within the Agency of Digital Services to review all aspects of artificial intelligence systems developed, employed, or procured in State government. The Division shall be administered by the Director of Artificial Intelligence, who shall be appointed by the Secretary of Digital Services.

(b) Powers and duties. The Division shall review artificial intelligence systems developed, employed, or procured in State government, including the following:

(1) propose for adoption by the Agency of Digital Services a State code of ethics for artificial intelligence in State government, which shall be updated annually;

(2) make recommendations to the General Assembly on policies, laws, and regulations for artificial intelligence systems in State government; and

(3) review the automated decision systems inventory created by the Agency of Digital Services, including:

(A) whether any systems affect the constitutional or legal rights, duties, or privileges of any Vermont resident; and

(B) whether there are any potential liabilities or risks that the State of Vermont could incur from its implementation.

(c) Reports. Annually, on or before January 15 each year, the Division shall report to the House Committee on Energy and Technology and the Senate Committees on Finance and on Government Operations on the following:

(1) the extent of the use of artificial intelligence systems by State government and any short- or long-term actions needed to optimize that usage or mitigate their risks;

(2) the impact of using artificial intelligence systems in State government on the liberty, finances, livelihood, and privacy interests of Vermont residents;

(3) any necessary policies to:

(A) protect the privacy and interests of Vermonters from any diminution caused by employment of artificial intelligence systems by State government;

(B) ensure that Vermonters are free from unfair discrimination caused or compounded by the employment of artificial intelligence in State government;

(C) address the use or prohibition of systems that have not been tested for bias or have been shown to contain bias; and

(D) address security and training on artificial intelligence systems;

and

(4) any other information the Division deems appropriate based on its work.

§ 5013. ARTIFICIAL INTELLIGENCE ADVISORY COUNCIL

(a) Advisory Council. There is established the Artificial Intelligence Advisory Council to provide advice and counsel to the Director of the Division of Artificial Intelligence with regard to the Division's responsibilities to review all aspects of artificial intelligence systems developed, employed, or procured in State government. The Council, in consultation with the Director of the Division, shall also engage in public outreach and education on artificial intelligence.

(b) Members.

(1) The Advisory Council shall be composed of the following members:

(A) the Secretary of Digital Services or designee;

(B) the Secretary of Commerce and Community Development or designee;

(C) the Commissioner of Public Safety or designee;

(D) the Executive Director of the American Civil Liberties Union of Vermont or designee;

(E) one member who is an expert in constitutional and legal rights, appointed by the Chief Justice of the Supreme Court;

(F) one member with experience in the field of ethics and human rights, appointed by the Governor;

(G) one member who is an academic at a postsecondary institute, appointed by the Vermont Academy of Science and Engineering;

(H) the Commissioner of Health or designee;

(I) the Executive Director of Racial Equity or designee; and

(J) the Attorney General or designee.

(2) Chair. Members of the Advisory Council shall elect by majority vote the Chair of the Advisory Council. Members of the Advisory Council shall be appointed on or before August 1, 2022 in order to prepare as they deem necessary for the establishment of the Advisory Council, including the election of the Chair of the Advisory Council.

(3) Qualifications. Members shall be drawn from diverse backgrounds and, to the extent possible, have experience with artificial intelligence.

(c) Meetings. The Advisory Council shall meet at the call of the Chair as follows:

(1) on or before January 31, 2024, not more than 12 times; and

(2) on or after February 1, 2024, not more than monthly.

(d) Quorum. A majority of members shall constitute a quorum of the Advisory Council. Once a quorum has been established, the vote of a majority of the members present at the time of the vote shall be an act of the Advisory Council.

(e) Assistance. The Advisory Council shall have the administrative and technical support of the Agency of Digital Services.

(f) Reimbursement. Members of the Advisory Council who are not employees of the State of Vermont and who are not otherwise compensated or

reimbursed for their attendance shall be entitled to compensation and expenses as provided in 32 V.S.A. § 1010.

(g) Consultation. The Advisory Council shall consult with any relevant national bodies on artificial intelligence, including the National Artificial Intelligence Advisory Committee established by the Department of Commerce, and its applicability to Vermont.

(h) Repeal. This section shall be repealed on June 30, 2027.

Sec. 6. ARTIFICIAL INTELLIGENCE ADVISORY COUNCIL;

IMPLEMENTATION

First meeting. The first meeting of the Artificial Intelligence Advisory Council shall be called by the Secretary of Digital Services or designee. All subsequent meetings shall be called by the Chair.

Sec. 7. DIVISION OF ARTIFICIAL INTELLIGENCE; REPORTS AND

RECOMMENDATIONS

(a) On or before January 15, 2023, the Council shall submit a report to the House Committee on Energy and Technology and the Senate Committees on Finance and on Government Operations on the following:

(1) the State code of ethics as described in 3 V.S.A. § 5012(b)(1); and

(2) what policies the State should have for a third-party entity to disclose potential conflicts of interest prior to purchasing or using the entity's technology and how the State should evaluate those conflicts with respect to how the State intends to implement the technology.

(b) On or before January 15, 2024, the Council shall develop and submit to the House Committee on Energy and Technology and the Senate Committees on Finance and on Government Operations recommendations for a clear use and data management policy for State government, including protocols for the following:

(1) how and when an automated decision system will be deployed or used and by whom, including:

(A) the factors that will be used to determine where, when, and how the technology is deployed;

(B) whether the technology will be operated continuously or used only under specific circumstances; and

(C) when the automated decision system may be accessed, operated, or used by another entity on the agency's behalf and any applicable protocols;

(2) whether the automated decision system gives notice to an individual impacted by the automated decision system of the fact that the automated decision system is in use and what information should be provided with consideration to the following:

(A) the automated decision system's name and vendor;

(B) what decision or decisions it will be used to make or support;

(C) whether it is an automated final decision system or automated support decision system;

(D) what policies and guidelines apply to its deployment;

(E) whether a human verifies or confirms decisions made by the automated decision system; and

(F) how an individual can contest any decision made involving the automated decision system;

(3) whether the automated decision system ensures that the agency can explain the basis for its decision to any impacted individual in terms understandable to a layperson, including:

(A) by requiring the vendor to create such an explanation;

(B) whether the automated decision system is subject to appeal or immediate suspension if a legal right, duty, or privilege is impacted by the decision; and

(C) potential reversal by a human decision maker through a timely process clearly described and accessible to an individual impacted by the decision; and

(4) what policies the State should have for a third-party entity to disclose potential conflicts of interest prior to purchasing or using their technology and how the State should evaluate those conflicts with respect to how the State intends to implement the technology.

(c) On or before January 15, 2025, the Council shall submit recommendations to the House Committee on Energy and Technology and the Senate Committees on Finance and on Government Operations on the following:

“explain” vs.
interpret

and to the
human
decisionmaker
being advised
(e.g. a judge)

(1) whether the scope of the Division should be expanded to include artificial intelligence outside State government;

(2) whether there should be any changes to the structural oversight, membership, or powers and duties of the Council;

(3) whether the Council should cease to exist on a certain date; and

(4) whether there are any other additional tasks the Division should complete.

(d) As used in this section:

(1) “Automated decision system” means any algorithm, including one incorporating machine learning or other artificial intelligence techniques, that uses data-based analytics to make or support government decisions, judgments, or conclusions.

(2) “Automated final decision system” means an automated decision system that makes final decisions, judgments, or conclusions without human intervention.

(3) “Automated support decision system” means an automated decision system that provides information to inform the final decision, judgment, or conclusion of a human decision maker.

Sec. 8. DIVISION OF ARTIFICIAL INTELLIGENCE; POSITION

The establishment of the permanent exempt position is authorized in fiscal year 2023 in the Agency of Digital Services to manage and implement the work of the Division of Artificial Intelligence, established in 3 V.S.A. § 5012,

and to serve as the State expert on artificial intelligence use and oversight within State government. This position shall be transferred and converted from existing vacant positions in the Executive Branch and shall not increase the total number of authorized State positions. The position shall be funded from existing resources within the Agency.

Sec. 9. EFFECTIVE DATE

This act shall take effect on July 1, 2022.

Date Governor signed bill: May 24, 2022

Beginning on July 1, 2025, no state agency shall enter into any contract to purchase, lease, or use a tool that uses or relies on AI or algorithms in any way that does not provide for the vendor's disclosure to the contracting agency of algorithms employed and data used to train the tool/AI . The contract may provide for the agency's protection of the vendor's proprietary interest in algorithms and data but must also provide a process for disclosure of such algorithms and data if the tool is suspected of yielding biased or unfair decision-making.