| | [Administrative Code - Artificial Intelligence Inventory, Impact Assessment, and Procurement Standards] |
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| 2 | |
| 3 | Ordinance amending the Administrative Code to establish a process for creating a |
| 4 | publicly available inventory of Artificial Intelligence ("Al") the City procures, and to |
| 5 | develop an impact assessment standard for the City's procurement of Al. |
| 6 | |
| 7 | NOTE: Unchanged Code text and uncodified text are in plain Arial font. |
| 8 | Additions to Codes are in single-underline italics Times New Roman font. Deletions to Codes are in strikethrough italics Times New Roman font. |
| 9 | Board amendment additions are in double-underlined Arial font. Board amendment deletions are in strikethrough Arial font. |
| 10 | Asterisks (* * * *) indicate the omission of unchanged Code subsections or parts of tables. |
| 11 | |
| 12 | Be it ordained by the People of the City and County of San Francisco: |
| 13 | Section 1. The Administrative Code is hereby amended by adding new Chapter 22J |
| 14 | consisting of Sections 22J.1, 22J.2, 22J.3, and 22J.4, to read as follows: |
| 15 | |
| 16 | CHAPTER 22J: ARTIFICIAL INTELLIGENCE TOOLS |
| 17 | SEC. 22J.1. BACKGROUND AND FINDINGS. |
| 18 | (a) Many technologists, historians, scientists, elected officials, and other societal leaders |
| 19 | believe that the advent of Artificial Intelligence that has advanced significantly with the release of |
| 20 | generative systems is revolutionizing, and will continue to revolutionize, our world. |
| 21 | (b) Local governments have been using AI products since the early 1990s. However, beginning |
| 22 | in the 2010s, significant advancements in AI technology, including machine and deep learning, led to a |
| 23 | surge in acquisition of various products by local governments. With the advent of Generative AI |
| 24 | products like Chat GPT and others that produce original content, the potential benefits and risks to Sa |
| 25 | Francisco residents and workers have increased. |

| 1 | (c) Policymakers are trying to avoid repeating past mistakes with technological developments, |
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| 2 | like the failure to regulate social media before it led to many societal harms, and find ways to protect |
| 3 | human beings from the worst predictable problems of this newest wave of technological advancement. |
| 4 | (d) While the City government, as with all levels of government, continues to develop the best |
| 5 | tools for the City to both harness the benefits and protect against the harms of emerging AI technology, |
| 6 | it is important that policymakers and the public understand the AI technologies the City is using and |
| 7 | will use in the future. |
| 8 | (e) The City has a decentralized Information Technology (IT) system. Most City departments |
| 9 | have their own IT units and as of 2024 the City's Department of Technology ("DT") did not generally |
| 10 | know which AI products and systems were in use by departments. |
| 11 | (f) This Chapter 22J remedies this problem by requiring the City's Chief Information Officer |
| 12 | ("CIO") to create a public inventory of AI products used within City government. The inventory will |
| 13 | include basic facts about the technology including its purpose, accuracy, biases, and limits. |
| 14 | (g) This Chapter also directs the CIO to conduct an analysis of the products in the inventory to |
| 15 | determine the impacts of these technologies on human beings living and working in San Francisco, and |
| 16 | to develop procurement standards. |
| 17 | (h) As of 2024, the City used AI products in a variety of ways. Here are just a few illustrative |
| 18 | <u>examples:</u> |
| 19 | (1) The Department of Technology used AI to review activity on IT infrastructure for network |
| 20 | security, intrusion detection, and to identify other potential cybersecurity threats. |
| 21 | (2) The SF311 mobile application used AI to make upfront service type recommendations based |
| 22 | on the user's description or picture of the issue. A model had been trained on years of service request |
| 23 | (SR) data. |
| 24 | (3) The Department of Public Health (DPH) Radiology Department used an AI-based medical |
| 25 | imaging tool to support the confirmatory diagnosis of cerebrovascular events (strokes). The AI system |

| 1 | reviewed imaging studies (CT scans) and provided supporting information to the physicians who make |
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| 2 | the diagnoses. |
| 3 | (i) The use of AI products by local governments can offer many benefits including but not |
| 4 | limited to increased efficiency and effectiveness of public services, quick and accurate analysis of large |
| 5 | volumes of data, automation of routine administrative tasks, facilitation of communication between |
| 6 | residents and their local government through chatbots and virtual assistants, and prediction of |
| 7 | potential hazards. |
| 8 | (j) However, with the increased use of AI products, local governments also potentially subject |
| 9 | their workers, residents, and visitors to new risks, including: |
| 10 | (1) Privacy Concerns: AI systems often collect, store, and analyze vast amounts of data, which |
| 11 | can include personal information of individuals. This raises concerns about privacy breaches, |
| 12 | unauthorized data sharing, and surveillance, potentially leading to a loss of anonymity in public |
| 13 | <u>spaces.</u> |
| 14 | (2) Bias and Discrimination: AI algorithms can perpetuate or amplify existing biases if they are |
| 15 | trained on data that reflects societal inequities. This can result in discriminatory outcomes in areas |
| 16 | such as law enforcement, housing, and public services, disproportionately affecting marginalized |
| 17 | communities. |
| 18 | (3) Lack of Transparency: Many AI systems operate as "black boxes," meaning the processes |
| 19 | and decision-making criteria are not transparent to users or the public. This can erode trust and make |
| 20 | it challenging for individuals to understand how decisions that affect their lives are made. |
| 21 | (4) Job Displacement: The automation of certain government functions through AI can lead to |
| 22 | job losses in the public sector or in industries reliant on those functions, impacting the employment |
| 23 | landscape and economic stability of communities. |
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| 1 | (5) Security Risks: AI systems can be vulnerable to cyberattacks and exploitation. If malicious |
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| 2 | actors gain access to these systems, they can manipulate data, disrupt services, or compromise |
| 3 | sensitive information, potentially leading to significant harm to individuals. |
| 4 | (6) Dependence on Technology: Increasing reliance on AI for critical services may create |
| 5 | vulnerabilities. Technical failures or misconfigurations can result in service interruptions or errors that |
| 6 | affect public safety and welfare. |
| 7 | (7) Ethical Concerns: The application of AI in sensitive areas (e.g., policing, social services) |
| 8 | raises ethical concerns about the appropriateness of AI decisions in life-altering contexts, such as risk |
| 9 | assessment for individuals involved in the justice system or the allocation of social support. |
| 10 | (8) Erosion of Civil Liberties: Heightened surveillance and data collection through AI can |
| 11 | infringe on civil liberties, prompting concerns about the potential overreach of government authority |
| 12 | and reduced freedoms for individuals. |
| 13 | (9) Public Mistrust: The combination of the above risks can lead to a general sense of mistrust |
| 14 | in government, where residents may feel that the government is not acting in their best interests or that |
| 15 | their rights are being compromised. |
| 16 | (k) In order to promote the ethical, responsible, and transparent use of AI tools, this Chapter |
| 17 | develops impact assessment standards for their procurement. These standards include a risk |
| 18 | assessment procedure that analyzes specified characteristics of the AI tool, appropriate risk controls, |
| 19 | and adverse incident monitoring procedures. |
| 20 | SEC. 22J.2. DEFINITIONS. |
| 21 | For the purposes of this Chapter 22J, the following definitions shall apply: |
| 22 | "AI" means Artificial Intelligence. |
| 23 | "Algorithms" means a set of rules that a machine follows to generate an outcome or a |
| 24 | decision. |
| 25 | |

| 1 | "Artificial Intelligence" means an engineered or machine-based system that varies in its level |
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| 2 | of autonomy and that can, for explicit or implicit objectives, infer from the input it receives how to |
| 3 | generate outputs that can influence physical or virtual environments. |
| 4 | "Chatbot" means a computer program that simulates conversations. |
| 5 | "CIO" means the City's Chief Information Officer, or designee. |
| 6 | "City" means the City and County of San Francisco. |
| 7 | "COIT" means the Committee on Information and Communications Technology or one of its |
| 8 | <u>committees.</u> |
| 9 | "Department" means any unit or component of City government, including but not limited to |
| 10 | boards and commissions, departments, offices, agencies, or officials |
| 11 | "Training Data" means the dataset that is used by a machine learning model to learn the rules. |
| 12 | SEC. 22J.3. ROLES AND RESPONSIBILITIES. |
| 13 | (a) City Chief Information Officer. Within six months of the effective date of this Chapter 22J, |
| 14 | the CIO shall distribute a list of questions regarding AI technology in use from Departments, collect the |
| 15 | responses and begin publishing the responses on a publicly available website. Within a year of the |
| 16 | effective date, the inventory shall be complete and it shall be updated as systems are put into use. The |
| 17 | inventory shall require Departments to disclose the products or systems that include AI technology the |
| 18 | Department has procured, and for each product shall disclose the following information: |
| 19 | (1) A brief description of the system's purpose and function; |
| 20 | (2) The intended use of the system; |
| 21 | (3) The context or domain in which the system is intended to be used; |
| 22 | (4) The data used to train the system; |
| 23 | (5) A high-level explanation of how the system works; |
| 24 | (6) A description of the data fed into the system and the data generated by the system; |
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| 1 | (7) A description of what the system is optimizing for, and its accuracy, preferably with |
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| 2 | numerical performance metrics (e.g., BiLingual Evaluation Understudy (BLEU) scores for AI language |
| 3 | <u>translation tools);</u> |
| 4 | (8) Conditions necessary for the system to perform optimally (e.g., outdoor cameras |
| 5 | with AI technology performing well in sunny weather); |
| 6 | (9) Conditions under which the system's performance would decrease in accuracy (e.g., |
| 7 | outdoor cameras with AI technology possibly performing sub-optimally on rainy or cloudy days); |
| 8 | (10) Whether testing has been performed to identify any bias in the system, such as bias |
| 9 | based on race, gender, etc., and the results of those tests; |
| 10 | (11) A description of how and where users report bias, inaccuracies, or poor |
| 11 | performance of the system; |
| 12 | (12) A description of the conditions or circumstances under which the system has been |
| 13 | <u>tested;</u> |
| 14 | (13) A description of adverse incident monitoring procedures and communication; |
| 15 | (14) A description of the level of human oversight associated with the system; |
| 16 | (15) A description of whether the data collected will or can be used for training of |
| 17 | proprietary vendor or third-party systems; and |
| 18 | (16) Any other information the CIO or the Committee on Information Technology |
| 19 | (COIT) deem appropriate. |
| 20 | (b) Within a year of the effective date of this Chapter 22J, the CIO shall be responsible for |
| 21 | creating a process to conduct an AI Impact Assessment on all AI products or systems used by the City. |
| 22 | The CIO's AI Impact Assessment shall be included in the information provided publicly in the City's AI |
| 23 | inventory. The CIO may include input from relevant Departments, labor unions, and public interest or |
| 24 | non-profit organizations when conducting the AI Impact Assessment. The CIO shall perform AI Impact |
| 25 | Assessment on all AI products with the exception of products that do not in any way impact the public's |

| 1 | or an individual's rights, opportunities, or access to critical needs. Examples of products that do not |
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| 2 | need an AI Impact Assessment include systems for document management, grammar or spell checkers, |
| 3 | and email filtering. At minimum, where relevant, the AI Impact Assessment shall include the following: |
| 4 | (1) The individuals and communities that will interact with the system; |
| 5 | (2) How the information or decisions generated by the system could impact an |
| 6 | individual's rights, freedoms, economic status, health, health care, or well-being; |
| 7 | (3) How users with diverse abilities will interact with the user interface of the system |
| 8 | and whether the system integrates and interacts with commonly used assistive technologies; |
| 9 | (4) Whether the system is expected to replace any jobs currently being performed by |
| 10 | <u>human beings;</u> |
| 1 | (5) Why the City purchased or intends to purchase the product; |
| 12 | (6) Steps to be taken to mitigate the risk of the AI use or system; and |
| 13 | (7) Any other information the CIO or COIT deem appropriate, including but not limited |
| 14 | to modifications to items (1) through (6). |
| 15 | (c) The CIO shall be responsible for drafting and implementing AI Development and |
| 16 | Procurement Standards which shall include a risk assessment for the City's use of AI technology. The |
| 17 | CIO will make a recommendation whether to procure and/or implement the AI technology and the |
| 18 | required risk mitigation for the AI technology before it is used. A Department's decision to proceed |
| 19 | with the procurement and/or implementation of the AI technology and the CIO recommendation will be |
| 20 | documented as part of the AI inventory. |
| 21 | (d) The Department of Technology ("DT") shall provide and manage a public facing single |
| 22 | Internet site (web portal) for the Inventory. |
| 23 | (e) Each Department shall: |
| 24 | (1) Complete and return the Inventory to the CIO; |
| 25 | (2) Notify DT of any updates to published vendor questionnaires; |

| 1 | (3) Participate in and facilitate a timely and accurate AI Impact Assessment; and |
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| 2 | (4) Adhere to the process established within the AI Procurement and Development |
| 3 | <u>Standards.</u> |
| 4 | SEC. 22J.4. PROMOTION OF THE GENERAL WELFARE. |
| 5 | In enacting and implementing this Chapter 22J, the City is assuming an undertaking only to |
| 6 | promote the general welfare. It is not assuming, nor is it imposing on its officers and employees, an |
| 7 | obligation for breach of which it is liable in money damages to any person who claims that such breach |
| 8 | proximately caused injury. |
| 9 | |
| 10 | Section 3. Effective Date. This ordinance shall become effective 30 days after |
| 11 | enactment. Enactment occurs when the Mayor signs the ordinance, the Mayor returns the |
| 12 | ordinance unsigned or does not sign the ordinance within ten days of receiving it, or the Board |
| 13 | of Supervisors overrides the Mayor's veto of the ordinance. |
| 14 | |
| 15 | APPROVED AS TO FORM: |
| 16 | DAVID CHIU, City Attorney |
| 17 | |
| 18 | By: /s/ |
| 19 | MARGARITA GUTIERREZ Deputy City Attorney |
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