

RESPONSIBLE ARTIFICIAL INTELLIGENCE

ORGANIZATION NAME:

EFFECTIVE DATE:

POLICY

It is the policy of this organization to <u>DISCOVER</u>, <u>MEASURE</u>, <u>GOVERN</u> and <u>CONTROL</u> the <u>PRIVACY</u> of <u>DATA</u> through the application of the <u>UNIFIED CONTROLS</u>, to <u>SENSITIVE OBJECTS</u>, defined as in-scope, based on <u>RISK</u>, according to the <u>UNIFIED CYBER</u> <u>STRATEGY</u>.

SCOPE

This organization minimally includes, as in-scope, any <u>DATA</u> or <u>INFORMATION</u> risk-rated as <u>EXTREME</u> or <u>HIGH</u>, henceforth referred to as <u>SENSITIVE DATA</u> per <u>APPENDIX A: UNIFIED SPECIFICATIONS</u>.

RISK

This organization measures risk based on the assessed impact to <u>CONFIDENTIALITY</u>, <u>INTEGRITY</u> and/or <u>AVAILABILITY</u> of <u>ALL</u> organizationally relevant systems and data using <u>ISO:30001-2018</u> to determine <u>EXTREME</u>, <u>HIGH</u>, <u>MODERATE</u>, and <u>LOW</u> risk levels per the <u>UNIFIED CYBER STRATEGY</u>.

CYBER PRECEDENCE

This organization has established <u>SERVICE LEVEL OBJECTIVES</u> and <u>MONITORING METRICS</u> to prioritize, react, respond, and remediate risk per the <u>UNIFIED CYBER STRATEGY</u>.

SEPARATION OF DUTIES

This organization separates the duties of individuals, as necessary, to prevent malevolent activity, distribute risk and ensure compliance. The <u>STAKEHOLDERS</u> of <u>SENSITIVE OBJECTS</u> are documented in the <u>RISK & ATTACK SURFACE MANAGEMENT - APPENDIX X:</u> RISK-BASED INVENTORY.



CHANGE CONTROL

This organization controls changes to in-scope systems and data through <u>APPENDIX C: CHANGE CONTROL PROTOCOL</u> of the <u>CYBER</u> <u>STRATEGY AND RISK MANAGEMENT POLICY</u> adapted from the <u>INFORMATION</u> <u>TECHNOLOGY INFRASTRUCTURE LIBRARY (ITILv3)</u> and <u>NIST-800.53</u> <u>CONFIGURATION CHANGE CONTROL (CM-3)</u>.

COMPLIANCE MONITORING

This organization monitors the compliance of <u>SENSITIVE OBJECTS</u>, and reports relevant variances and trends to <u>STAKEHOLDERS</u> as defined in the <u>RISK & ATTACK SURFACE MANAGEMENT - APPENDIX X:</u> <u>RISK-BASED INVENTORY</u>. This organization retains compliance monitoring records per the <u>UNIFIED CYBER STRATEGY</u>.

CONTINUOUS IMPROVEMENT

This organization routinely reviews the practices and outcomes associated with this policy as defined in <u>APPENDIX F: UNIFIED</u> CYBER CONTINUOUS IMPROVEMENT MONITOR.

POLICY EXCEPTIONS

Requests for exceptions to this policy shall be reviewed and approved by the <u>PROGRAM OFFICER</u>.

POLICY REVIEW

This organization <u>ANNUALLY</u> reviews the <u>RISK</u>, <u>SCOPE</u>, <u>UNIFIED</u> <u>CONTROLS</u>, <u>SENSITIVE OBJECTS</u> and <u>PROGRAM STANDARDS</u> associated with this policy.

POLICY APPROVAL

This organization has involved the appropriate Stakeholders, Executive Leadership, Governing Body and supporting departments such as Human Resources and Risk Management to ensure education, communication and revision is complete according to the organization's formal or informal policy adoption practices prior to approval and signature by an <u>AUTHORIZED INDIVIDUAL</u>.



RISK ACCEPTANCE

This organization has considered the <u>SCOPE</u>, <u>RISKS</u>, <u>UNIFIED</u> <u>CONTROLS</u>, <u>SENSITIVE OBJECTS</u> and <u>PROGRAM STANDARDS</u> and is determined to accept the risk associated with out-of-scope controls, objects, and standards. At the time organizational risk tolerances change formally (memo, executive order, or statutory regulation) or informally (funding, staffing, or tooling) the organization will re-evaluate and update this policy accordingly.

POLICY ADOPTION

This organization has evaluated this policy, the impact on resources, and has determined to adopt this policy.

| AUTHORIZED INDIVIDUAL | Title: |
|-----------------------|------------|
| | Name: |
| or | Signature: |
| CORPORATE OFFICER | Date: |

| SYSTEM NAME | EXCEPTION LOG | APPROVED BY | REVIEW DATE | GAP LOG |
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| FUNCTION | SPECIFICATION | REF |
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| Policy: | • | |
| Adopt and Approve Policy | Review ANNUALLY | PT-1 |
| 🗌 Perform Gap Analysis | Complete ANNUALLY | PT-1 |
| 🗌 Educate Stakeholders | Complete ANNUALLY | PT-1 |
| Implement tools to ensure compliance | ANNUALLY, complete: Ad-hoc review C3 Technology Advisors Design Review C3 Technology Advisors Continuous Improvement Tracer 3rd party audit | |
| Retain Compliance Monitoring Data | Policy compliance monitoring data will be maintained for: 1 year 3 years 5 years 7 years | |
| | DATA INTEGRITY & ETHICS | |
| DATA INTEGRITY & ETHICAL RISK | MANAGEMENT | |
| Legal and Regulatory Requirements | <u>LEGAL</u> and regulatory requirements involving <u>GENERATED</u> or <u>PREDICTED</u> , <u>SENSITIVE DATA</u> are discovered, understood, managed, and documented; specific to the intended <u>SCOPE OF PRACTICE</u> and the <u>OPERATIONAL</u> <u>IMPLEMENTATION</u> . | |

| Trustworthy AI Requirements | The characteristics of trustworthy AI are integrated and have been evaluated to be: 1. Fair and Impartial 2. Transparent and Explainable 3. Responsible and Accountable 4. Robust and Reliable 5. Private and Respectful of Privacy 6. Safe and Secure | |
|--------------------------------|---|--|
| 🗌 Establish Risk Tolerances | Risk <u>TOLERANCES</u> are <u>DETERMINED</u> and documented according to <u>ISO 31000:2018</u> . | |
| Define Metrics | <u>METRICS</u> for measurement of <u>SENSITIVE DATASETS</u> and <u>AI-SYSTEMS</u> are adopted and regularly updated according to <u>TRUSTWORTHY CHARACTERISTICS</u> . Including the use of third-party data or software as are risks of infringement of a third party's intellectual property or other rights. | |
| 🗆 Inventory & Discovery | <u>SYSTEMS</u> , <u>PRACTICES</u> and <u>RESOURCES</u> are in place to routinely <u>INVENTORY</u> <u>SENSITIVE DATASETS</u> and generative or predictive <u>AI-SYSTEMS</u> . | |

| 🗌 Initial Risk Management | The <u>RISK MANAGEMENT</u> process and its <u>OUTCOMES</u> are routinely <u>PERFORMED</u> and <u>EVALUATED</u> for in-scope <u>SENSITIVE DATA</u> and <u>AI SYSTEMS</u> . | |
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| ☐ Map Controls | Risk controls, including <u>TECHNOLOGIES</u> , <u>DATA</u> , <u>PROCESSES</u> , <u>TECHNIQUES</u> and <u>SOFTWARE</u> are identified and documented. | |
| 🗌 Track risks | <u>APPROACHES</u> , <u>PERSONNEL</u> , and <u>SYSTEMS</u> are in place to regularly <u>IDENTIFY</u> and <u>TRACK</u> existing, unanticipated, and emergent <u>RISKS</u> . | |
| 🗌 Treat risks | <u>TREATMENT</u> of risks is <u>PRIORITIZED</u> based on impact, likelihood, and available resources. Responses to <u>EXTREME</u> and <u>HIGH</u> risks are developed, planned, <u>EXECUTED</u> , and documented. | |
| Third-party Risk Management | <u>RISK MANAGEMENT</u> practices are in place that address <u>SENSITIVE DATA</u> and <u>AI-SYSTEM</u> risks associated with <u>THIRD-PARTY ENTITIES</u> , including risks of infringement of a third-party's <u>INTELLECTUAL PROPERTY</u> or other rights. | |

| Third-party Risk Remediation | <u>CONTINGENCY PROCESSES</u> are in place to handle <u>FAILURES</u> or <u>INCIDENTS</u> in third-party <u>SENSITIVE DATA</u> or <u>AI-SYSTEMS</u> deemed to be high-risk. | |
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| ☐ Secure Decommissioning | Secure <u>DECOMMISSIONING</u> and <u>PHASING</u> out <u>AI SYSTEMS</u> and <u>SENSITIVE DATASETS</u> follows standards defined in the <u>DATA PRIVACY & GOVERNANCE</u> policy. | |
| DATA INTEGRITY AND ETHICS GOV | ERNANCE | |
| □ Governance Accountability | Establish a <u>DATA INTEGRITY AND ETHICS BODY</u> according to the <u>DATA INTEGRITY AND ETHICS STARTER KIT</u> , chartered to <u>QUARTERLY</u> , review <u>DATA INTEGRITY AND</u> <u>ETHICS ASSESSMENTS</u> and direct <u>DATA INTEGRITY AND</u> <u>ETHICS MANAGEMENT</u> activities for <u>SENSITIVE DATASETS</u> <u>AND AI-SYSTEMS</u> . | 2.1 |
| 🗌 Establish Goals | Relevant <u>GOALS</u> for the <u>COLLECTION</u> , <u>GENERATION</u> or <u>PREDICTION</u> of <u>SENSITIVE DATASETS</u> are understood and documented. | |
| □ Governance Training | <u>PERSONNEL</u> and <u>PARTNERS</u> shall receive <u>SENSITIVE DATA</u> and <u>AI RISK MANAGEMENT</u> <u>TRAINING</u> to enable them to perform their duties and responsibilities. | 2.2 |

| □ Executive Leadership | EXECUTIVE LEADERSHIP takes <u>RESPONSIBILITY</u> for decisions about <u>RISKS</u> associated with <u>SENSITIVE DATA</u> and <u>AI SYSTEM</u> development and/or deployment by reviewing and overseeing the activities of the <u>DATA</u> <u>INTEGRITY AND ETHICS BODY</u> . | 2.3 |
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| □ Control the quality of Integrity & Ethics Compliance | <u>IMPLEMENT</u> and <u>OVERSEE</u> practices appropriate to the use case and dataset to enable <u>TESTING</u> , <u>IDENTIFICATION OF INCIDENTS</u> , and <u>INFORMATION SHARING</u> . | 4.3 |
| 🗌 Review efficacy | Measurable <u>IMPROVEMENTS</u> or <u>DECLINES</u> based on consultations with relevant <u>ACTORS</u> and <u>CUSTODIANS</u> , and field data about <u>TRUSTWORTHINESS</u> <u>CHARACTERISTICS</u> are identified and documented. | |
| DATA INTEGRITY AND ETHICS WORKFORCE DEVELOPMENT | | |
| 🗌 Workforce Design | <u>DECISION-MAKING</u> related to mapping, measuring, and managing <u>SENSITIVE DATASETS</u> and <u>AI RISKS</u> throughout the lifecycle is informed by a <u>DIVERSE</u> <u>TEAM</u> (e.g., diversity of demographics, disciplines, experience, expertise, and backgrounds). | |

| 🗌 Workforce Development | <u>PROCEDURES</u> and <u>DUTIES</u> are in place to <u>DEFINE</u> roles and responsibilities for <u>HUMAN-AI</u> <u>CONFIGURATIONS</u> and oversight of <u>AI SYSTEMS</u> and <u>SENSITIVE DATASETS</u> . |
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| <pre>Establish Actors and Custodians</pre> | Regularly INCORPORATE FEEDBACK from relevant actors and custodians into DESIGN, IMPLEMENTATION, SUPERVISION & GOVERNANCE, including:Internal:External:Internal:External:• DesignHuman Factors• Development• Domain Expertise• DeploymentImpact Assessment• Operation• Procurement• Maintenance• Governance and Oversight• Testing• End Users• Verification• Affected individuals and Communities |
| NARROW ARTIFICIAL INTELLIGENO | CE CAPABILITY DEVELOPMENT |
| □ Identify Value | The business value or context of business use has been clearly defined. |

| 🗌 Examine Benefits | Potential <u>BENEFITS</u> of intended <u>SENSITIVE DATASET</u> or <u>AI-SYSTEM</u> <u>FUNCTIONALITY</u> and <u>PERFORMANCE</u> are examined and documented. | |
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| <pre>Examine Total Cost of Ownership</pre> | Potential <u>COSTS</u> , including non-monetary costs, which result from expected or realized <u>ERRORS</u> or <u>SYSTEM</u> <u>FUNCTIONALITY</u> , <u>INTEGRITY</u> , and <u>TRUSTWORTHINESS</u> . | |
| 🗌 Define impact | <u>LIKELIHOOD</u> and <u>MAGNITUDE</u> of each identified <u>IMPACT</u> based on expected use, past uses of AI systems in similar contexts, public incident reports, feedback from those external to the team that developed or deployed the AI system, or other data are <u>IDENTIFIED</u> and <u>DOCUMENTED</u> . | |
| 🗌 Establish Requirements | <u>SYSTEM REQUIREMENTS</u> are elicited from and understood by relevant <u>ACTORS</u> & <u>CUSTODIANS</u> . Design decisions take <u>SOCIO-TECHNICAL IMPLICATIONS</u> into account to address <u>SENSITIVE DATA</u> & <u>AI-SYSTEM</u> risks. | |

| □ Fitness and Basis | The specific <u>INTENTS</u> , <u>USE CASES</u> and <u>SCOPE OF PRACTICE</u> are evaluated for <u>RISKS</u> and potential impacts of <u>SENSITIVE DATA</u> and <u>AI TECHNOLOGY</u> which is <u>EVALUATED</u> and <u>COMMUNICATED</u> prior to and throughout the design, development, deployment, evaluation, and use. | |
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| 🗌 Define Scope | Targeted application <u>SCOPE OF PRACTICE</u> is <u>SPECIFIED</u> and <u>DOCUMENTED</u> based on the system's <u>CAPABILITY</u> , <u>ESTABLISHED CONTEXT</u> , and <u>CATEGORIZATION</u> . | |
| 🗌 Establish Limits | <u>INFORMATION</u> about the <u>KNOWLEDGE LIMITS</u> and how <u>SYSTEM</u> <u>OUTPUT</u> may be utilized and overseen by humans is <u>DOCUMENTED</u> . Documentation provides sufficient information to assist relevant actors & custodians. | |
| Verify Integrity | <u>SCIENTIFIC INTEGRITY</u> and <u>TEVV CONSIDERATIONS</u> are identified and documented, including those related to experimental <u>DESIGN</u> , <u>DATA COLLECTION</u> and <u>SELECTION</u> (e.g., availability, representativeness, suitability), <u>SYSTEM TRUSTWORTHINESS</u> , and <u>CONSTRUCT VALIDATION</u> . | |

| Define technical standards | <u>PERFORMANCE</u> and <u>TRUSTWORTHINESS</u> - and relevant <u>TECHNICAL STANDARDS</u> and <u>CERTIFICATIONS</u> - are defined, assessed, and documented. | |
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| □ Supervision Parties | Regularly <u>INCORPORATE FEEDBACK</u> from relevant actors, custodians and supervision parties into system <u>DESIGN</u> and <u>IMPLEMENTATION</u> . | |
| <pre>□ Evaluate Trustworthiness</pre> | The <u>TESTING</u>, <u>EVALUATION</u>, <u>VERIFICATION</u> and <u>VALIDATION</u> test sets, metrics, and details are documented including; 1. Evaluations involving human subjects meet applicable requirements (including human subject protection) and are representative of the relevant population. 2. Assurance criteria are measured qualitatively or quantitatively and demonstrated for conditions similar to deployment setting(s). 3. The functionality and behavior of the AI system and its components are monitored when in production. 4. The AI system to be deployed is demonstrated to be valid and reliable. 5. The AI system is evaluated regularly for safety risks. | |

| 6. The AI system to be deployed is demonstrated to | |
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| be safe, its residual negative risk does not | |
| exceed the risk tolerance, and it can fail | |
| safely, particularly if made to operate beyond | |
| its knowledge limits. | |
| 7. Safety metrics reflect system reliability and | |
| robustness, real-time monitoring, and response | |
| times for AI system failures. | |
| 8. AI system security and resilience are evaluated | |
| and documented. | |
| 9. Risks associated with transparency and | |
| accountability are examined and documented. | |
| 10. The AI model is explained, validated, and | |
| documented, and AI system output is interpreted | |
| within its context to inform responsible use and | |
| governance. | |
| 11. Privacy risk of the AI system is examined and | |
| documented. | |
| 12. Fairness and bias are evaluated, and results | |
| are documented. | |
| 13. Environmental impact and sustainability of AI | |
| model training and management activities are | |
| assessed and documented. | |
| assessed and documented. | |
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| □ Sustain Operations | <u>MECHANISMS</u> and <u>RESOURCES</u> are in place and applied to <u>SUSTAIN THE VALUE</u> of deployed AI systems including mechanisms to <u>SUPERSEDE</u> , <u>DISENGAGE</u> , or <u>DEACTIVATE</u> AI systems that demonstrate performance or outcomes inconsistent with intended use. | |
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| 🗆 Continuous Improvement | Post-deployment MONITORING PLANS ARE IMPLEMENTED, Including: 1. Mechanisms for capturing and evaluating input from users and other relevant AI actors, appeal and override, decommissioning, incident response, recovery, and change management. 2. Measurable activities for continual improvements are integrated into AI system updates and include regular engagement with interested parties, including relevant AI actors. 3. Incidents and errors are communicated to relevant AI actors, including affected communities. Processes for tracking, responding to, and recovering from incidents and errors are followed and documented. | |