

# Third Party Attestation - ISO 42001

FEBRUARY 2025

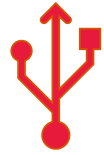


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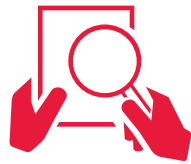
# Our Agenda Today



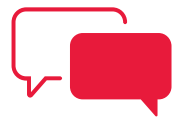
The Need for Trust in AI



AI Regulations



What is ISO 42001?



ISO 42001 - Discussion of Key Points



FAQ

# With You Today



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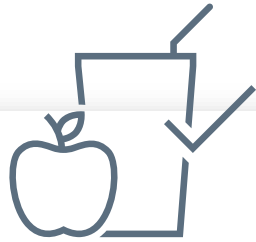
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# Learning Objectives

- ▶ Recognize the purpose and benefit of ISO 42001 certification
- ▶ Explain how ISO 42001 plays a crucial role in AI Governance
- ▶ Describe how to promote public trust in their organizations AI systems



# AI Does Fail!



## MCDONALDS

- ▶ McDonald's ends its 3-year AI experiment after drive-thru ordering blunders in June 2024
- ▶ Was working with IBM



## AIR CANADA

- ▶ Early 2024, chatbot provided incorrect info to customer
- ▶ Airline paid compensation and damages



## TRIVAGO

- ▶ ACCC vs. Trivago
- ▶ Misled customers to book hotels with higher commission
- ▶ Paid ~\$44M penalties

# Risk-Based Approach to AI



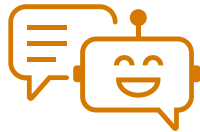
## UNACCEPTABLE RISK

Social scoring, facial recognition, dark pattern AI, manipulation



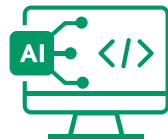
## HIGH RISK

Transportation systems, safety, employment, education access, border control, justice system



## LIMITED RISK

AI systems with specific transparency requirements such as chat bots, emotion recognition systems



## MINIMAL RISK

AI enabled video games, spam filters

# AI Regulations

- ▶ EU AI Act
- ▶ Utah
- ▶ California
- ▶ Colorado
- ▶ Various other states and countries have their own AI regulations or have the regulations in progress



## Key Requirements of the EU AI Act for Providers of the High-risk AI Systems:

- ▶ Risk Management System
- ▶ Quality Management System
- ▶ Data and Data Governance
- ▶ Accuracy, Robustness and Cybersecurity
- ▶ Technical Documentation, Recordkeeping, and Transparency
- ▶ Postmarket Monitoring
- ▶ Human Oversight
- ▶ AI Literacy
- ▶ Registration
- ▶ Reporting of Serious Incidents

<https://www.isaca.org/resources/white-papers/2024/understanding-the-eu-ai-act#f24>



## Key Requirements of the EU AI Act for Deployers of the High-risk AI Systems:

- ▶ Due Diligence in selecting an AI system provider
- ▶ Instruction for Use (Deployers must use the high-risk AI system according to the instruction for use.)
- ▶ Human Oversight
- ▶ Data Quality
- ▶ System Monitoring
- ▶ Data Protection Impact Assessment (may also apply)
- ▶ Recordkeeping (log retention according to local laws and regulations)
- ▶ Transparency and Notice
- ▶ Cooperation with Applicable Authorities

<https://www.isaca.org/resources/white-papers/2024/understanding-the-eu-ai-act#f24>

# What is ISO 42001?

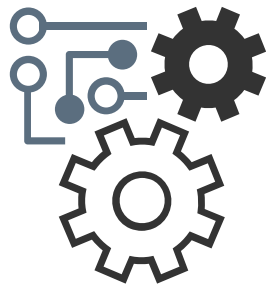
- ▶ Introduced in Dec. 2023, world's first AI management system standard
- ▶ Addresses unique challenges and risks posed by AI, such as, ethics/bias, transparency and explainability
- ▶ Specifies the requirements and provides guidance for establishing, implementing, maintaining and continually improving an AI (artificial intelligence) management system (AIMS)
- ▶ Can be implemented by any organization providing and/or using products or services that utilize AI systems
- ▶ Helps organizations use or provide products or services that utilize AI systems responsibly to meet its objectives and applicable requirements



# ISO 42001 - Key Requirements

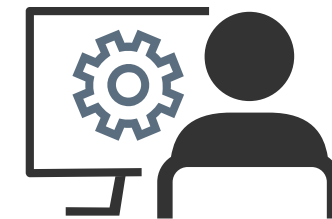
- ▶ Define the scope for the AI management system
- ▶ Document the intended use of the AI system and the role of organization
- ▶ Understanding the needs and expectations of interested parties
- ▶ Leadership and commitment
- ▶ Document an AI policy
- ▶ Assign roles, responsibilities and authorities
- ▶ AI system impact assessment
- ▶ Actions to address risks and opportunities, including risk assessment and treatment.
- ▶ Complete a statement of applicability to denote the inclusion/exclusion of Annex A controls.
- ▶ Support for the AI management system
- ▶ Implement applicable controls for each stage of the AI system lifecycle
- ▶ Planning changes related to the AI management system
- ▶ Internal audits, management reviews and continual improvement
- ▶ Nonconformity and corrective action

# Organizational vs. Systemic Risks for AI



## ORGANIZATIONAL CONSIDERATIONS

- ▶ Complexity and relevance
- ▶ AI expertise
- ▶ Technology readiness
- ▶ Data governance
- ▶ Accountability and compliance



## SYSTEMIC CONSIDERATIONS

- ▶ Model or use case level
- ▶ Technical aspects for safety and security
- ▶ Impact on users of the system  
- impact to individuals, groups, communities and organization
- ▶ Evaluate applicability and risks of AI principles

# Data Governance Controls

## Define and Implement Data Management Practices

- ▶ Data management practices to address topics like:
  - privacy and security implications due to the use of data;
  - accuracy and integrity of the data
  - transparency and explainability aspects including data provenance and the ability to provide an explanation of how data are used for determining an AI system's output; representativeness of training data compared to operational domain of use.

## Data Acquisition and Preparation

- ▶ Implement processes for acquisition and selection of data used in AI systems
  - Data sources and categories of data
  - Characteristics of data source and attributes
  - Data cleansing
  - Data subject access rights

## Data Quality

- ▶ Ensure data used in AI system lifecycle meets quality requirements
  - Consider impact of bias on system performance and system fairness
  - Training data is always representative of user population

## Data Provenance

- ▶ Document a process for recording the provenance of data.
- ▶ Ensure transparency and accountability

# Model Validation and Verification

## AI System Testing

- ▶ Evaluation plan to cover the following:
  - Selection of test data and requirements to ensure it's representative of the user base.
  - Reliability and safety requirements of the AI system, including acceptable error rates for the AI system performance;
  - Responsible AI system development and use objectives;
  - Operational factors such as quality of data, intended use, and sandboxing.
- ▶ Key metrics and acceptable deviations.
- ▶ Types of model testing strategies include fairness test; robustness and accuracy; adversarial AI testing and red teaming



# Model Operations and Monitoring

## AI System Deployment

- ▶ Document a deployment plan or checklist that ensures:
  - Verification and validation objectives including KPI are met
  - Human-in-the-loop

## AI System Operations and Monitoring

- ▶ Covers system and performance monitoring, repairs, updates and support
  - Monitor for general errors or failures
  - Monitor AI observability metrics like accuracy and precision of outputs; bias; data drift; explainability
  - Identify AI-specific information security threats like data poisoning, model inversion attacks, etc.
  - React and responds to alerts

## AI System Logging

- ▶ Ensure logging of the AI system at various phases to enable traceability and facilitate troubleshooting

# Why ISO 42001 matters now?

- ▶ The growing need for AI governance - provides a baseline framework
- ▶ First-of-its-kind standard for AI that companies can get certified with
- ▶ Build trust and increase confidence with customers and stakeholders
- ▶ Helps address vendor risk assessment requirements
- ▶ Demonstrate commitment to Responsible AI principles
- ▶ Helps respond to key regulations like the EU AI Act and other state and country specific legislations
- ▶ Leverage early adopter advantage





# FAQs

## What if the development of AI systems is outsourced to a third-party?

- ▶ The ISO 42001 standard is applicable to both, developers and deployers of AI.
- ▶ The specific role of the organization is required to be documented as a part of the scope.
- ▶ Risk assessment and statement of applicability will help determine the applicable controls that would be applicable.

## By implementing ISO 42001 controls, can we meet requirements of other AI regulations?

- ▶ Currently, ISO 42001 is the external facing certification available to companies to show how they have implemented their AI governance framework; the specific requirements of regulations must be mapped to the ISO 42001 controls to assess compliance.

## How does BDO help with ISO 42001?

- ▶ The BDO TPA practice performs ISO 42001 readiness assessments and, certification audits.

# Q&A





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